

# modu lyss®

Product catalogue



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# 00

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## ALPHA

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LRV 3 L 19

553



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332



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823



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592



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543



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LRV 13 L 42

606



LRV 12 L 41

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LRV 12 L 41

983



LRV 3 L 21

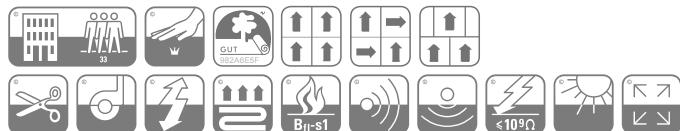
991

# ALPHA

## 4

### Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% PA 6 Solution Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 500 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.067 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 302 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL: 30 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.8 mm	SOUND ABSORPTION	ISO 354 Hz    125    250    500    1000    2000    4000 α <sub>s</sub> 0.04    0.03    0.07    0.15    0.29    0.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.116 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 10 <sup>3</sup> Ohm
TUFT DENSITY	Ca. 171 600 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	14
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE®: cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED	982A6E5F Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



## Sustainable datasheet

### 1. RECYCLED CONTENT

- 54% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 982A6E5F. These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulyss® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 30 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Alpha but please note that a similar product has obtained an Ecopoint score of 0.295 and is A-rated for offices.

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 27.9%  
MR4 Post-Industrial recycled content: 53%  
MR4 Post-Consumer recycled content: 1.4%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 30 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 3 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

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# 01

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## FIRST

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LRV 11 L 39 907



LRV 23 L 55 914



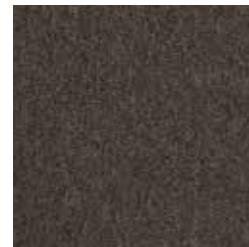
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LRV 4 L 24 990



LRV 8 L 34 823



LRV 7 L 31 830



LRV 9 L 34 966



LRV 7 L 32 569



LRV 7 L 32 504



LRV 3 L 20 553



LRV 11 L 40 817



LRV 8 L 35 876



LRV 7 L 31 807



LRV 15 L 44 213



LRV 10 L 37 616



LRV 6 L 27 684



LRV 25 L 57 102



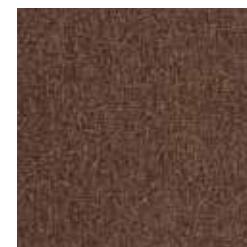
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LRV 11 L 39 601



LRV 13 L 42 313



LRV 6 L 29 129



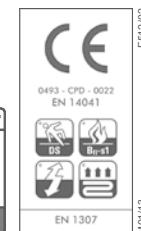
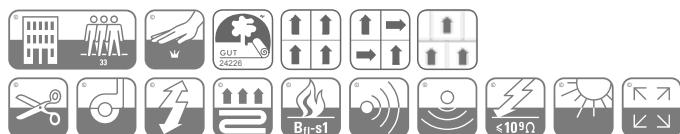
LRV 4 L 25 316

# FIRST

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## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 540 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.047 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 330 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz    125    250    500    1000    2000    4000 α <sub>s</sub> 0.01    0.04    0.07    0.19    0.29    0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.114 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>3</sup> Ohm
TUFT DENSITY	Ca. 156 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	22
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.20%
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U <sub>3</sub> P <sub>3</sub> E <sub>1</sub> C <sub>0</sub> 329T-006.1 	GUT-NR	24226
		BRE	ENP 428
		LEED	Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 52% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed Aqualon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zeel, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24226. These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulyss® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428i, A rating – Eco point score 0.295  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 26.6%  
MR4 Post-Industrial recycled content: 50.5%  
MR4 Post-Consumer recycled content: 1.4%

- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

- DGNB (DE)  
German Sustainable Building Council  
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification. This product is verified by DGNB and features on the DGNB navigator, visit [www.dgnb-navigator.de/company/products/modulyss](http://www.dgnb-navigator.de/company/products/modulyss)

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 7 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 02

## MILLENNIUM100



LRV 20 L 52 108



LRV 15 L 46 152



LRV 13 L 43 299



LRV 5 L 26 310



LRV 5 L 26 395



LRV 6 L 30 332



LRV 19 L 50 915



LRV 20 L 51 817



LRV 13 L 43 795



LRV 7 L 32 812



LRV 5 L 25 822



LRV 8 L 33 415



LRV 9 L 36 321



LRV 13 L 43 807



LRV 10 L 38 845



LRV 11 L 40 639



LRV 6 L 29 644



LRV 5 L 26 541



LRV 5 L 27 524



LRV 11 L 47 505



LRV 14 L 44 907



LRV 6 L 28 603



LRV 6 L 29 918



LRV 4 L 23 993



LRV 4 L 24 965



LRV 8 L 34 567



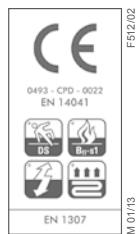
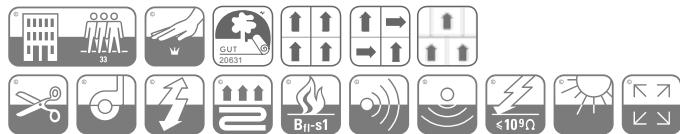
LRV 13 L 42 509

# MILLENNIUM100

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## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% ECONYL® yarn + 100% Recycled Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 585 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 580 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.055 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 380 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 38 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.02 0.02 0.07 0.20 0.28 0.34
PILE HEIGHT	Ca. 3.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.127 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>3</sup> Ohm
TUFT DENSITY	Ca. 147 750 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	27
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.20%
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U <sub>3</sub> P <sub>3</sub> E <sub>1</sub> C <sub>0</sub> 329T-001.1 	GUT-NR	20631
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 65% Overall recycled content.
- Yarn  
100% ECONYL® yarn - 100% Recycled Solution Dyed Nylon  
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulys® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulys® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulys® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulys®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 20631. These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulys® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulys® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulys® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428r, A+ rating – Eco point score 0.26  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 36.5%  
MR4 Post-Industrial recycled content: 57.2%  
MR4 Post-Consumer recycled content: 7.9%

- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulys® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

- DGNB (DE)  
German Sustainable Building Council  
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification. This product is verified by DGNB and features on the DGNB navigator, visit [www.dgnb-navigator.de/company/products/modulys](http://www.dgnb-navigator.de/company/products/modulys)
- Good Environmental Choice Australia (GECA) (AU)  
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

### 7. GREEN ENERGY

The electricity that we use at modulys® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulys® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulys® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulys® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulys® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 11 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

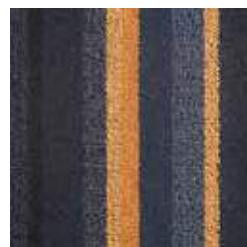


# 03

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## C-LINE

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LRV 9 L 35 553



LRV 6 L 29 692



LRV 6 L 28 355



LRV 15 L 44 972



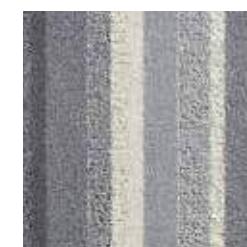
LRV 11 L 39 552



LRV 17 L 48 132



LRV 8 L 33 329



LRV 16 L 48 902



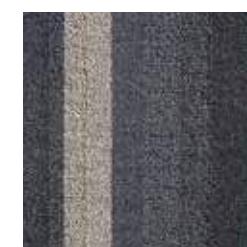
LRV 10 L 37 528



LRV 12 L 42 827



LRV 5 L 27 805



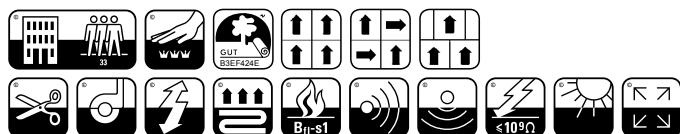
LRV 6 L 30 910

# C-LINE

16

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop Tip Sheared	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥ 4-5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 650 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 1 050 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.068 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 621 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 38 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.6 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.03 0.06 0.17 0.31 0.42
PILE HEIGHT	Ca. 4.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.152 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 10 <sup>6</sup> Ohm
TUFT DENSITY	Ca. 201 500 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC3	NUMBER OF COLOURS	12. Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	B3EF424E
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



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## Sustainable datasheet

### 1. RECYCLED CONTENT

- 48% Overall recycled content.
- Yarn  
100% PA 6.6 Antron®
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number B3EF424E. These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulyss® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for C-Line but please note that a similar product has obtained an Ecopoint score of 0.42 and is A-rated for offices.

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 24.9%  
MR4 Post-Industrial recycled content: 46.7%  
MR4 Post-Consumer recycled content: 1.6%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 15 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

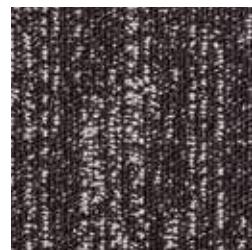


# 04

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## ON-LINE 1

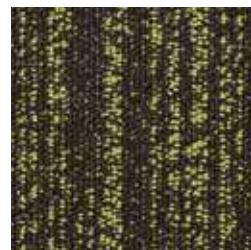
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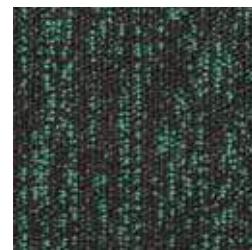
LRV 8 L 34 032



LRV 8 L 34 204



LRV 8 L 33 617



LRV 3 L 20 609



LRV 4 L 24 684



LRV 5 L 21 990



LRV 5 L 28 322



LRV 4 L 24 316



LRV 4 L 22 438



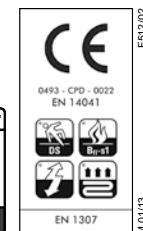
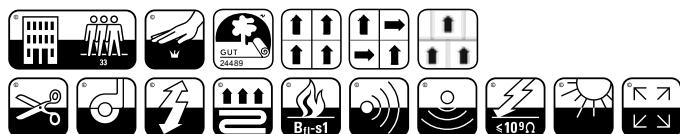
LRV 5 L 26 504

# ON-LINE 1

20

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 530 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.036 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 380 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 35 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.03 0.04 0.14 0.25 0.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.146 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 146 500 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	10, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24489
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn  
100% PA 6.6 Antron®
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC<sub>28</sub><1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC<sub>28</sub><100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24489. These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulyss® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428t, A rating – Eco point score 0.353  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 26.1%  
MR4 Post-Industrial recycled content: 48.8%  
MR4 Post-Consumer recycled content: 1.7%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 19 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

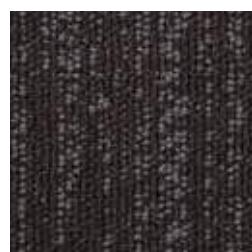


# 05

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## ON-LINE 2

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LRV 3 L 21

990



LRV 7 L 33

989



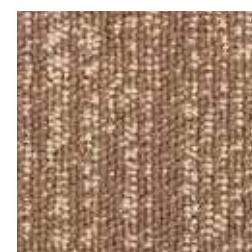
LRV 6 L 30

829



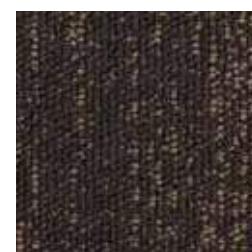
LRV 17 L 49

832



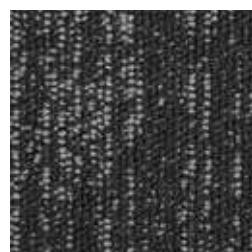
LRV 12 L 41

848



LRV 4 L 24

830



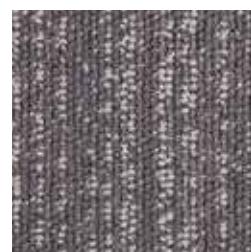
LRV 4 L 23

966



LRV 13 L 43

900



LRV 14 L 44

907



LRV 4 L 25

553



LRV 5 L 26

569



LRV 3 L 21

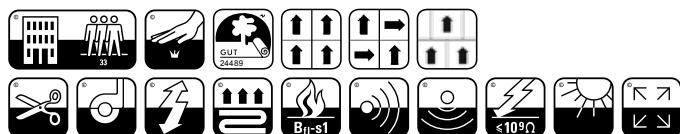
575

# ON-LINE 2

24

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 530 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.036 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 380 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 35 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.03 0.04 0.14 0.25 0.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.146 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 146 500 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	12, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24489
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn  
100% PA 6.6 Antron®
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 2 9. These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulyss® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428t, A rating – Eco point score 0.353  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 21.6%  
MR4 Post-Industrial recycled content: 48.8%  
MR4 Post-Consumer recycled content: 1.7%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 23 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 06

## STEP



LRV 5 L 27

482



LRV 16 L 47

102



LRV 23 L 55

213



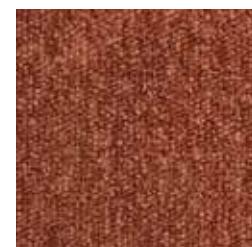
LRV 12 L 42

323



LRV 11 L 40

313



LRV 7 L 32

129



LRV 7 L 31

316



LRV 6 L 30

319



LRV 11 L 39

187



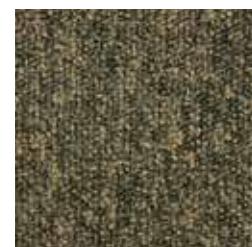
LRV 14 L 44

601



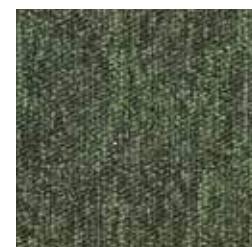
LRV 15 L 45

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LRV 12 L 40

668



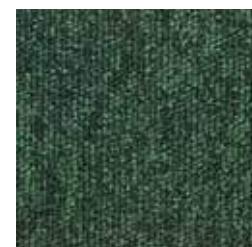
LRV 6 L 29

616



LRV 7 L 31

684



LRV 4 L 23

613



LRV 6 L 30

822



LRV 12 L 41

807



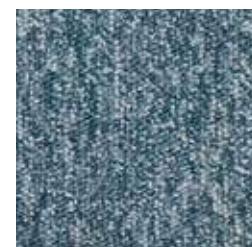
LRV 13 L 42

938



LRV 12 L 41

950



LRV 14 L 45

994



LRV 8 L 34

573



LRV 6 L 28

550



LRV 10 L 37

838



LRV 14 L 44

907



LRV 23 L 55

817



LRV 19 L 50

900



LRV 8 L 34

961



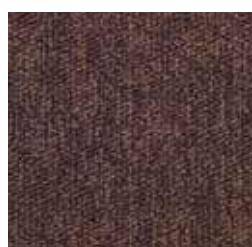
LRV 7 L 32

500



LRV 6 L 30

552



LRV 3 L 21

830



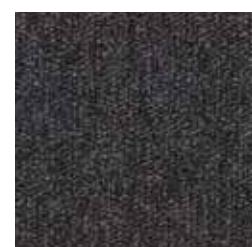
LRV 7 L 31

966



LRV 6 L 29

991



LRV 3 L 22

965



LRV 6 L 28

592



LRV 16 L 46

579



LRV 9 L 37

595

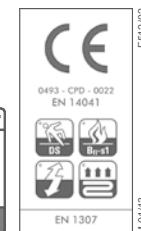
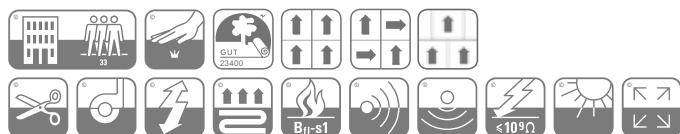
Go to page 87 for the XTRA STEP color palette.

# STEP

# 28

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 530 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.053 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 335 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 33 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.03 0.06 0.23 0.30 0.35
PILE HEIGHT	Ca. 2.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.120 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 160 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	36, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.20%
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U <sub>3</sub> P <sub>3</sub> E <sub>1</sub> C <sub>0</sub> 329T-005.1 	GUT-NR	23400
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 53% Overall recycled content.
- Yarn  
100% PA 6 Aqualon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 23400.  
These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulyss® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 33 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428y, A rating – Eco point score 0.299  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 27.5%  
MR4 Post-Industrial recycled content: 51.8%  
MR4 Post-Consumer recycled content: 1.6%

- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

- DGNB (DE)  
German Sustainable Building Council  
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification.  
This product is verified by DGNB and features on the DGNB navigator, visit [www.dgnb-navigator.de/company/products/modulyss](http://www.dgnb-navigator.de/company/products/modulyss)

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours.  
(see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 33 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 27 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 07

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## AFFINITY

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LRV 31 L 63 140



LRV 16 L 47 224



LRV 15 L 45 306



LRV 10 L 39 313



LRV 7 L 32 316



LRV 6 L 29 382



LRV 16 L 47 617



LRV 12 L 40 662



LRV 9 L 36 604



LRV 11 L 40 827



LRV 9 L 35 826



LRV 6 L 30 410



LRV 20 L 52 983



LRV 12 L 42 963



LRV 7 L 31 966



LRV 5 L 25 991



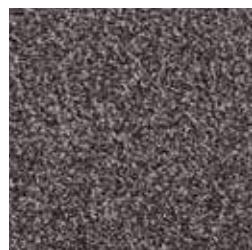
LRV 4 L 25 592



LRV 7 L 33 552



LRV 24 L 56 957



LRV 13 L 43 907



LRV 12 L 42 573



LRV 10 L 38 900



LRV 12 L 41 595



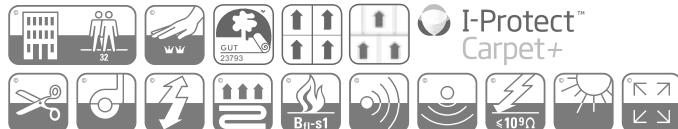
LRV 16 L 47 510

# AFFINITY

32

## Technical datasheet

CONSTRUCTION	Tufted 1/10" cutpile Frisé	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 655 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 850 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.051 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 628 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 34 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 8.0 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.03 0.02 0.09 0.22 0.37 0.50
PILE HEIGHT	Ca. 4.7 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.134 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>6</sup> Ohm
TUFT DENSITY	Ca. 188 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 bexes
CLASSIFICATION	EN 1307 32 - LC2	NUMBER OF COLOURS	24, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
ANTISOIL TREATED	I-Protect™ Carpet+	GUT-NR	23793
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



I-Protect™  
Carpet+



F512/02  
M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 48% Overall recycled content.
- Yarn  
100% PA 6.6 Antron®
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zeleveld, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 23793.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 34 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428a, A rating – Eco point score 0.381  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 24.8%  
MR4 Post-Industrial recycled content: 46.5%  
MR4 Post-Consumer recycled content: 1.6%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 34 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 31 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 08

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## UNIQUE

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LRV 9 L 36 462



LRV 4 L 25 482



LRV 5 L 28 382



LRV 5 L 27 332



LRV 10 L 39 313



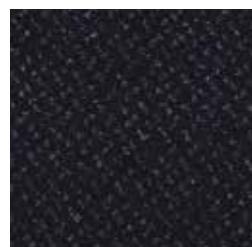
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LRV 10 L 38 827



LRV 6 L 29 552



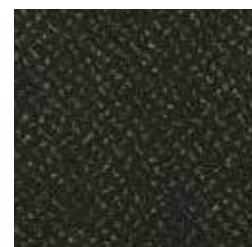
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LRV 5 L 28 550



LRV 6 L 28 573



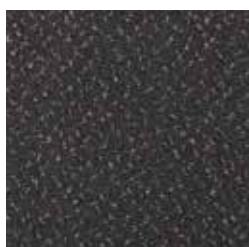
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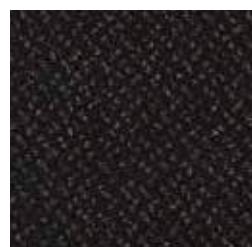
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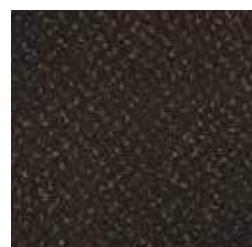
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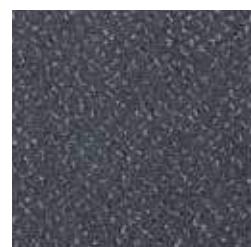
LRV 6 L 29 921



LRV 3 L 21 995



LRV 5 L 27 989



LRV 12 L 41 535



LRV 7 L 33 603



LRV 15 L 46 983



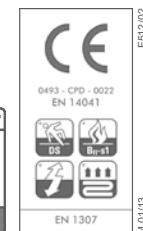
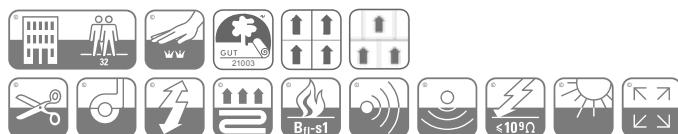
LRV 6 L 30 981

# UNIQUE

# 36

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Velours, COC	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6.6	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 750 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.060 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 465 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.5 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.02 0.09 0.27 0.34 0.45
PILE HEIGHT	Ca. 4.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.116 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 255 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 32 - LC2	NUMBER OF COLOURS	21, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	21003
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn  
100% PA 6.6
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria,  
GUT-license number 21003.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428 cc, A rating – Eco point score 0.363  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: – 25.8%  
MR4 Post-Industrial recycled content: 48.3%  
MR4 Post-Consumer recycled content: 1.6%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 35 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 09

## BLACK&



LRV 17 L 48 001



LRV 5 L 26 322



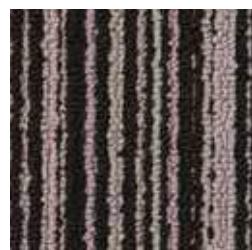
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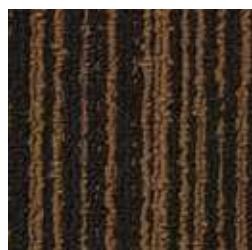
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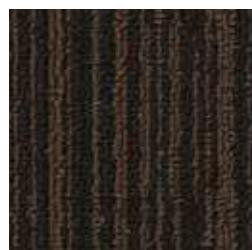
LRV 6 L 29 915



LRV 3 L 21 832



LRV 5 L 26 148



LRV < 3 L < 20 950



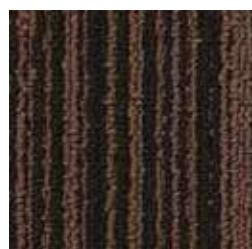
LRV 4 L 25 504



LRV 4 L 22 432



LRV 5 L 27 930



LRV 3 L 21 822



LRV 8 L 34 102



LRV 4 L 23 991



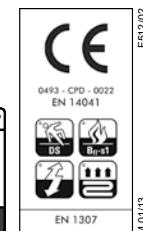
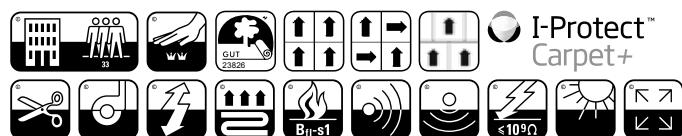
LRV < 3 L < 20 966



LRV 0 L 0 990

## Technical datasheet

<b>CONSTRUCTION</b>	Tufted 1/10" Loop	<b>FIRE RESISTANCE</b>	EN 13501-1 B <sub>fl</sub> -s1
<b>PILE MATERIAL</b>	50% PA 6.6 Antron® + 50% PA 6.6 Antron® SDN	<b>FASTNESS TO LIGHT</b>	ISO 105-B02 ≥5
<b>SECONDARY BACKING</b>	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	<b>RUBBING FASTNESS</b>	EN ISO 105-X12 ≥4
<b>TOTAL WEIGHT</b>	Ca. 4 400 g/m <sup>2</sup>	<b>COLOUR FASTNESS TO WATER</b>	EN ISO 105-E01 ≥4
<b>PILE WEIGHT</b>	Ca. 850 g/m <sup>2</sup>	<b>THERMAL RESISTANCE</b>	ISO 8302 0.055 m <sup>2</sup> K/W
<b>PILE ABOVE BACKING</b>	Ca. 422 g/m <sup>2</sup>	<b>IMPACT NOISE RATING</b>	ISO 10140 ΔL 37 dB (1 000 Hz)
<b>TOTAL HEIGHT</b>	Ca. 6.8 mm	<b>SOUND ABSORPTION</b>	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.02 0.07 0.22 0.33 0.44
<b>PILE HEIGHT</b>	Ca. 3.5 mm	<b>PERMANENT ANTISTATIC</b>	ISO 6356 ≤2 kV
<b>PILE DENSITY</b>	Ca. 0.121 g/cm <sup>3</sup>	<b>TRANSVERSAL RESISTANCE</b>	ISO/DIS 10965 ≤10° Ohm
<b>TUFT DENSITY</b>	Ca. 154 440 /m <sup>2</sup>	<b>SIZE &amp; PACKING</b>	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
<b>CLASSIFICATION</b>	EN 1307 33 - LC2	<b>NUMBER OF COLOURS</b>	17, Special colours possible
<b>CASTOR CHAIR SUITABILITY</b>	EN 985 A: continuous use	<b>DIMENSIONAL STABILITY</b>	EN 986 max. 0.2%
<b>ANTISOIL TREATED</b>	I-Protect™ Carpet+	<b>GUT-NR</b>	23826
		<b>BRE</b>	ENP 428
		<b>LEED</b>	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



## Sustainable datasheet

### 1. RECYCLED CONTENT

- 48% Overall recycled content.
- Yarn  
50% PA 6.6 Antron® + 50% PA 6.6 Antron® SDN  
The yarn used to manufacture this product contains 3,5% recycled content.
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 23826.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428c, A rating – Eco point score 0.375  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 24.7%  
MR4 Post-Industrial recycled content: 46.3%  
MR4 Post-Consumer recycled content: 1.6%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 39 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 10

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## FIRST RADIANT

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43



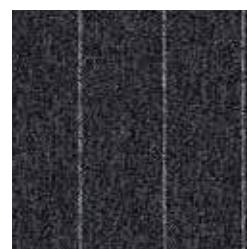
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LRV 3 L 21 504



LRV 3 L 21 316



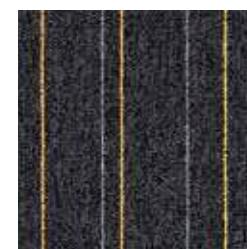
LRV 3 L 21 900



LRV 3 L 21 410



LRV 4 L 23 609



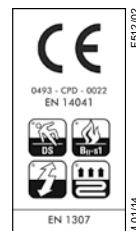
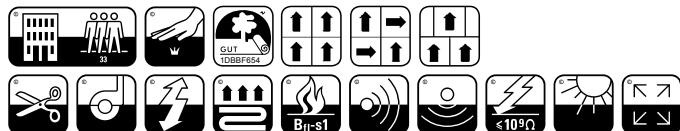
LRV 4 L 23 204

# FIRST RADIANT

44

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Solution dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 540 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.047 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 330 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.114 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 10 <sup>6</sup> Ohm
TUFT DENSITY	Ca. 156 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	7
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	1DBBF654
		BRE	in request
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02

## Sustainable datasheet

### 1. RECYCLED CONTENT

- a. 54% Overall recycled content.
- b. Yarn  
100% PA 6 Solution Dyed Aqualon
- c. Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- a. Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- a. Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 1DBBF654. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)  
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for First Radiant but please note that a similar product has obtained an Ecopoint score of 0.29 to 0.33 and is A-rated for offices.

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).

Total MR4 recycled content: 27.5%  
MR4 Post-Industrial recycled content: 52.2%  
MR4 Post-Consumer recycled content: 1.4%

- c. HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

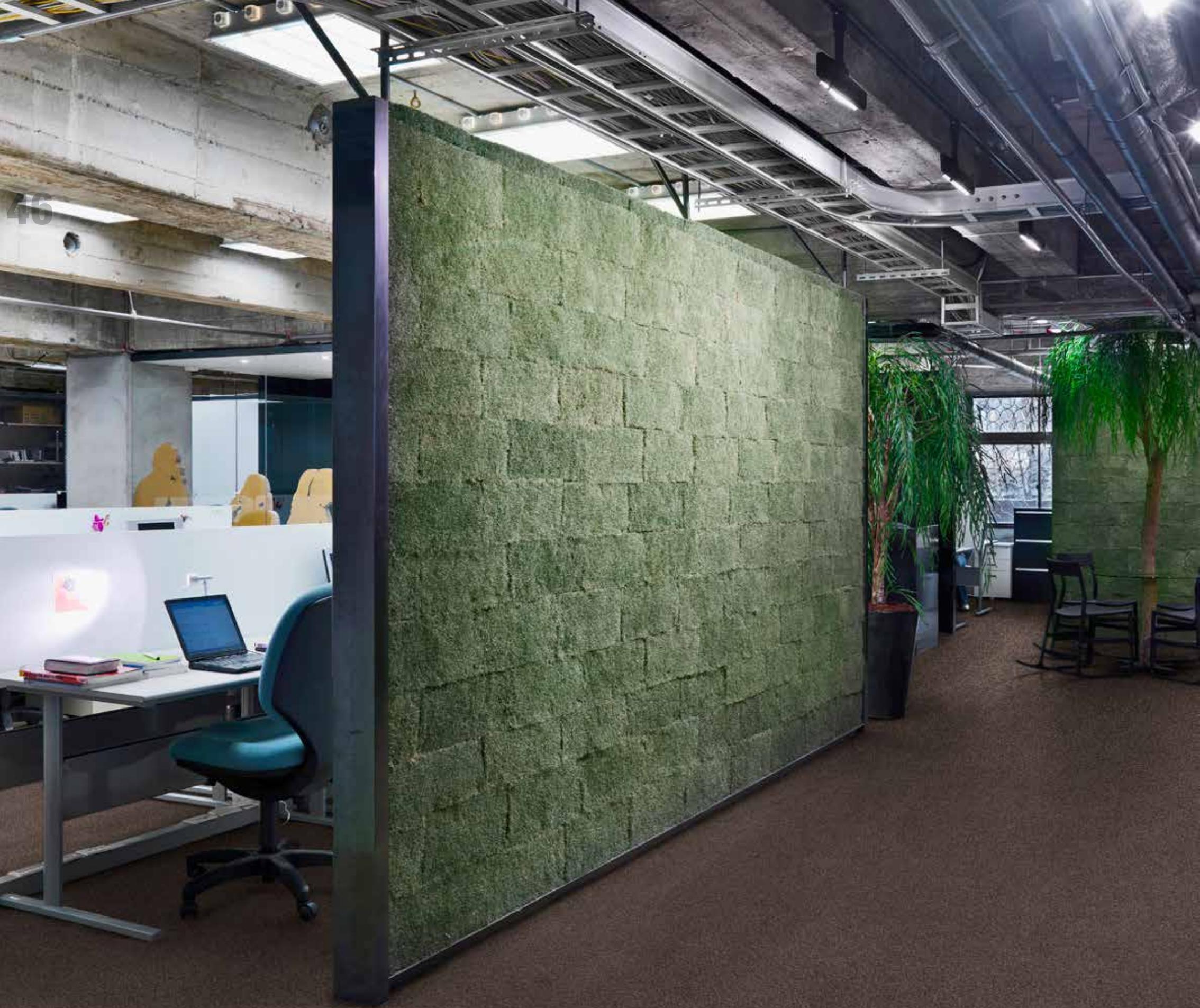
- a. H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- a. Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 43 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 11

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ECO100 C

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47



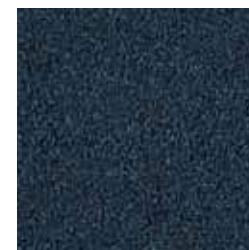
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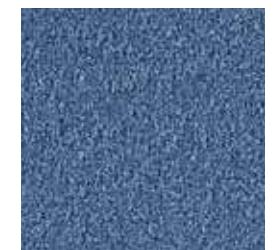
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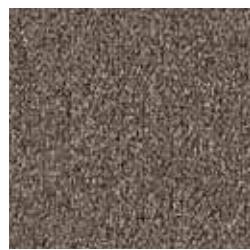
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LRV 5 L 25 578



LRV 11 L 40 559



LRV 10 L 38 845



LRV 6 L 29 603



LRV 4 L 23 993



LRV < 3 L < 18 969



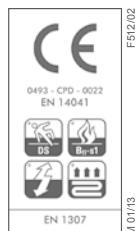
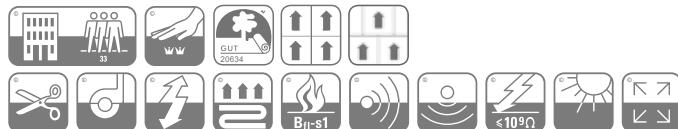
LRV 5 L 26 593

# ECO100 C

48

## Technical datasheet

CONSTRUCTION	Tufted 1/10" CUT Velours, plain	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% ECONYL® yarn 100% Recycled Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 500 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 750 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.050 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 500 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 43 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.0 mm	SOUND ABSORPTION	ISO 354 Hz    125   250   500   1000   2000   4000 α <sub>s</sub> 0.03   0.07   0.11   0.23   0.37   0.37
PILE HEIGHT	Ca. 3.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.138 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>3</sup> Ohm
TUFT DENSITY	Ca. 164 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	10
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	20634
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 66% Overall recycled content.
- Yarn  
100% ECONYL® yarn - 100% Recycled Solution Dyed Nylon  
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulys® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulys® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulys® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulys®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 20634.  
These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulys® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulys® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulys® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428h, A+ rating – Eco point score 0.272  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 37.8%  
MR4 Post-Industrial recycled content: 57.7%  
MR4 Post-Consumer recycled content: 9.3%

- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulys® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

- DGNB (DE)  
German Sustainable Building Council  
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification.  
This product is verified by DGNB and features on the DGNB navigator, visit [www.dgnb-navigator.de/company/products/modulys](http://www.dgnb-navigator.de/company/products/modulys)
- Good Environmental Choice Australia (GECA) (AU)  
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

### 7. GREEN ENERGY

The electricity that we use at modulys® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulys® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulys® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulys® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulys® carpet tiles are free from odours.  
(see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 47 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 12

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## LINE-UP

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51



LRV 7 L 31

562



LRV 6 L 29

995



LRV 7 L 33

956



LRV 11 L 39

981



LRV 12 L 41

139



LRV 7 L 31

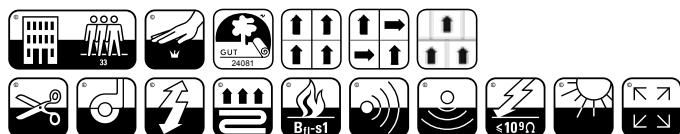
849

# LINE-UP

52

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	50% PA 6 Solution Dyed + 50% PA 6 Solution Dyed Space	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 550 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.039 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 309 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 33 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.7 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.03 0.02 0.05 0.16 0.26 0.35
PILE HEIGHT	Ca. 2.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.124 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 168 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24081
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 52% Overall recycled content.
- Yarn  
50% PA 6 Solution Dyed (5,8% recycled content) +  
50% PA 6 Solution Dyed Space
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET,  
originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the  
secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium),  
this allows us to reduce internal transportation and limits our CO<sub>2</sub>  
emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since  
2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate  
Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very  
low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation  
descriptions the waste for Carpet tiles is 3-4%. In comparison for  
broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical  
areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles  
in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles  
are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The  
minerals are extracted from the carpet tiles and recycled into raw material  
for the cement production industry, which results in 50% recycling of our  
carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus,  
GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24081.  
These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulyss® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the  
materials supplied do not contain any of the substances listed, nor is any of  
these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment  
of products in the construction and real estate businesses. The core of the  
system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and  
installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for  
formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate  
standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by  
33 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428p, A rating – Eco point score 0.299  
To recognise and encourage the use of construction materials with a low environmental impact  
(including embodied carbon) over the full life cycle of the building. For more information on the  
Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and  
landscape, therefore minimising the frequency of replacement and maximising materials  
optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for  
intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction  
waste. This product can contribute to waste reduction on site. See item 3, installation,  
for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1  
(low emitting materials – adhesives & sealants), IEQ 4.3  
(low emitting – flooring systems), MR Credit 4 (recycled content) and  
MR Credit 5 (recycled materials). Products are not reviewed under  
LEED®, LEED® credit requirements cover the performance of materials in  
aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 26.8%  
MR4 Post-Industrial recycled content: 50.6%  
MR4 Post-Consumer recycled content: 1.5%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in  
accordance with NF P01 010. This product can contribute to seven of the  
13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages  
sustainable processes and products.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated  
from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation.  
The park has a capacity of 467500kWh, delivering 11% of our total  
electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production  
with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our  
electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of  
natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed  
for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into  
new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9%  
and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is  
solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful  
substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours.  
(see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise  
by 33 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect  
as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 51 for the light reflectance value (LRV) and colour depth (L)  
per colour of this collection.



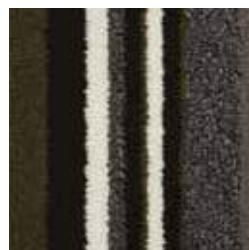
# 13

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## STREPQES

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55



LRV 8 L 34 60C



LRV 16 L 46 80C



LRV 13 L 43 50C



LRV 35 L 66 90C



LRV 23 L 55 60L



LRV 14 L 45 80L



LRV 28 L 60 50L



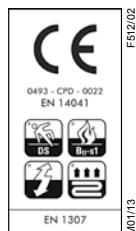
LRV 27 L 59 90L

# STREPQES

56

## Technical datasheet

	STREPQES C	STREPQES L		STREPQES C	STREPQES L
CONSTRUCTION	Tufted 1/10" velours	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% PA 6.6 Antron® Lumena, Recycled Solution Dyed	100% PA 6.6 Antron® Lumena, Recycled Solution Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥7	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 700 g/m <sup>2</sup>	Ca. 4 700 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 950 g/m <sup>2</sup>	Ca. 950 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.050 m <sup>2</sup> K/W	ISO 8302 0.055 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 760 g/m <sup>2</sup>	Ca. 580 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.9 mm	Ca. 7.5 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.00 0.03 0.08 0.28 0.35 0.47	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.03 0.07 0.23 0.34 0.45
PILE HEIGHT	Ca. 4.4 mm	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.173 g/cm <sup>3</sup>	Ca. 0.166 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 150 480 /m <sup>2</sup>	Ca. 158 400 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC3	EN 1307 33 - LC2	NUMBER OF COLOURS	4	4
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%	EN 986 max. 0.2%
ANTISOIL TREATED	I-Protect™ Carpet+	I-Protect™ Carpet+	GUT-NR	24176	24177
			BRE	ENP 428	ENP 428
			LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .	



F52/02

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 48% Overall recycled content.
- Yarn  
100% PA 6.6 Antron® Lumena, Recycled Solution Dyed  
Antron Lumena® is manufactured using a minimum of 25% pre-consumer Polyamide 6.6 waste.
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria,  
GUT-license number 24176 (STREPQES C) – 24177 (STREPQES L).  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (STREPQES C) – 0.15 (STREPQES L) (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428z, A rating (STREPQES C) – 428 aa, A rating (STREPQES L) – Eco point score 0.409  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC3 (STREPQES C) – LC2 (STREPQES L) for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 24.8% (STREPQES C) – 24.9% (STREPQES L)  
MR4 Post-Industrial recycled content: 46.5% (STREPQES C) – 46.6% (STREPQES L)  
MR4 Post-Consumer recycled content: 1.6%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 55 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 14

## CAMBRIDGE



LRV 8 L 33 482



LRV 15 L 46 303



LRV 15 L 45 322



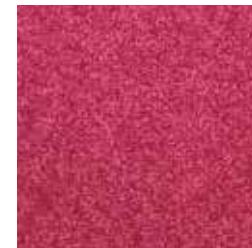
LRV 8 L 33 307



LRV 5 L 27 316



LRV 3 L 20 346



LRV 7 L 33 314



LRV 7 L 31 463



LRV 22 L 54 386



LRV 17 L 49 224



LRV 22 L 54 213



LRV 17 L 48 662



LRV 14 L 44 601



LRV 8 L 34 613



LRV 4 L 24 616



LRV 19 L 51 181



LRV 20 L 51 817



LRV 12 L 41 915



LRV 11 L 39 506



LRV 9 L 36 579



LRV 7 L 32 684



LRV 8 L 33 511



LRV 9 L 36 827



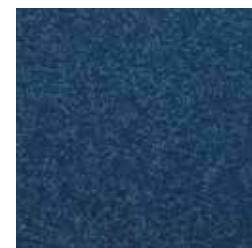
LRV 11 L 40 823



LRV 10 L 38 994



LRV 5 L 26 963



LRV 6 L 29 504



LRV 10 L 38 569



LRV 3 L 20 553



LRV 6 L 29 822



LRV 7 L 32 830



LRV 5 L 25 907



LRV 3 L 21 965



LRV 2 L 14 991



LRV 7 L 31 595



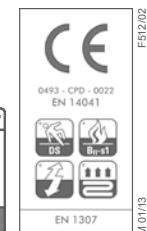
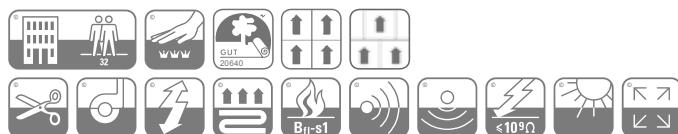
LRV 3 L 18 592

# CAMBRIDGE

60

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Frisé	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 650 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 1 050 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.071 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 728 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 43 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 8.0 mm	SOUND ABSORPTION	ISO 354 Hz    125   250   500   1000   2000   4000 α <sub>s</sub> 0.02   0.02   0.09   0.27   0.38   0.57
PILE HEIGHT	Ca. 5.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.146 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>3</sup> Ohm
TUFT DENSITY	Ca. 181 102 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 32 - LC3	NUMBER OF COLOURS	36, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	20640
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02  
M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. Yarn  
100% PA 6.6 Antron®
- c. Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- a. Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- a. Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- b. CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- c. GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 20640.  
These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)  
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428d, A rating – Eco point score 0.415  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC3 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 25.2%  
MR4 Post-Industrial recycled content: 47.6%  
MR4 Post-Consumer recycled content: 1.5%
- c. HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- a. H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- a. Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 59 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 15

## PERPETUAL



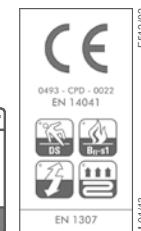
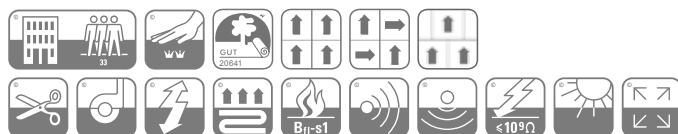
Go to page 87 for the XTRA PERPETUAL color palette.

# PERPETUAL

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## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% Polyamide	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.057 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 450 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 38 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.9 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.02 0.08 0.23 0.30 0.40
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.128 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 104 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	24, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	20641
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- a. 50% Overall recycled content.
- b. Yarn  
100% Polyamide 6 Alto
- c. Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zeel, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- a. Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- a. Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- c. GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 20641.  
These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)  
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428u, A rating – Eco point score 0.331  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 27.3%  
MR4 Post-Industrial recycled content: 51.3%  
MR4 Post-Consumer recycled content: 1.6%

- c. HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. DGNB (DE)  
German Sustainable Building Council  
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification. This product is verified by DGNB and features on the DGNB navigator, visit [www.dgnb-navigator.de/company/products/modulyss](http://www.dgnb-navigator.de/company/products/modulyss)

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- a. H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- a. Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 63 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



**modu  
lyss®**

# 16

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## SHINE-UP

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67



LRV 10 L 37

562



LRV 10 L 38

995



LRV 13 L 43

956



LRV 11 L 39

981



LRV 15 L 46

139



LRV 11 L 39

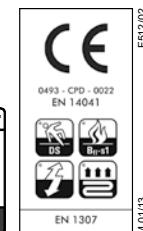
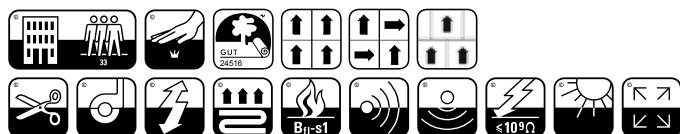
849

# SHINE-UP

68

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	50% PA 6 Solution Dyed + 50% PA 6 Solution Dyed Space	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 660 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.040 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 360 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.2 mm	SOUND ABSORPTION	ISO 354 Hz    125   250   500   1000   2000   4000 α <sub>s</sub> 0.01   0.02   0.05   0.18   0.26   0.33
PILE HEIGHT	Ca. 2.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.129 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 168 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24516
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/15

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 51% Overall recycled content.
- Yarn  
50% PA 6 Solution Dyed (6% recycled content)  
+ 50% PA 6 Solution Dyed Space
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24516. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428x, A rating – Eco point score 0.318  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 26.2%  
MR4 Post-Industrial recycled content: 49.3%  
MR4 Post-Consumer recycled content: 1.5%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 67 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

70



**modu  
lyss®**

# 17

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## REVERSE100

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LRV 8 L 35 90U



LRV 6 L 30 80U



LRV 9 L 36 50U



LRV 5 L 27 95U



LRV 10 L 38 91U



LRV 8 L 34 81U



LRV 11 L 39 51U



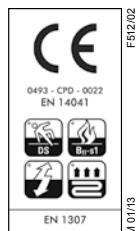
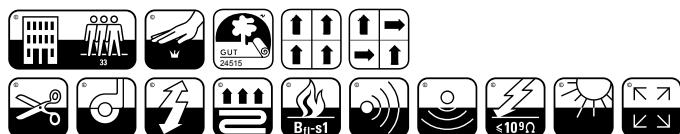
LRV 8 L 34 96U

# REVERSE100

72

## Technical datasheet

CONSTRUCTION	Minituft® 5/64" loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% ECONYL® yarn + 100% Recycled Solution Dyed Nylon+ Recycled Solution Dyed Space.	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 650 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.032 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 183 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 23 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 Hz    125    250    500    1000    2000    4000 α <sub>s</sub> 0.01    0.02    0.05    0.17    0.24    0.30
PILE HEIGHT	Ca. 0.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.228 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 190 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	8
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24515
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02  
M 01/15

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 62% Overall recycled content.
- Yarn  
100% ECONYL® yarn - 100% Recycled Solution Dyed Nylon + Recycled Solution Dyed Space  
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zeel, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24515.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 23 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428v, A+ rating – Eco point score 0.26  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 34.8%  
MR4 Post-Industrial recycled content: 54.0%  
MR4 Post-Consumer recycled content: 7.8%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- Good Environmental Choice Australia (GECA) (AU)  
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 23 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 71 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

74

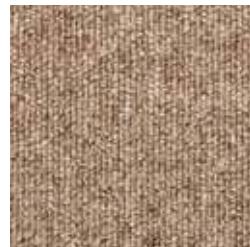


**modu  
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# 18

## NORMAL | NEW NORMAL

75



LRV 16 L 47 NORMAL 155



LRV 18 L 49 NEW NORMAL 136



LRV 19 L 51 NEW NORMAL 141



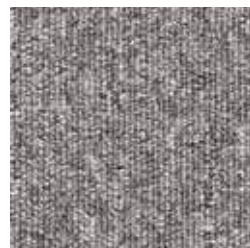
LRV 7 L 31 NORMAL 822



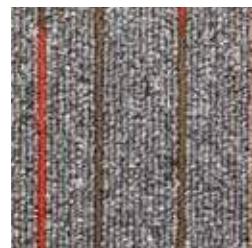
LRV 9 L 35 NEW NORMAL 826



LRV 8 L 34 NEW NORMAL 831



LRV 16 L 47 NORMAL 915



LRV 23 L 55 NEW NORMAL 936



LRV 20 L 52 NEW NORMAL 961



LRV 7 L 32 NORMAL 942



LRV 9 L 35 NEW NORMAL 986



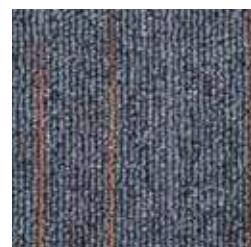
LRV 9 L 36 NEW NORMAL 991



LRV 7 L 32 NORMAL 528



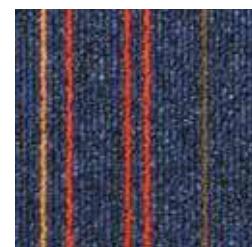
LRV 12 L 41 NEW NORMAL 506



LRV 11 L 40 NEW NORMAL 531



LRV 6 L 29 NORMAL 541



LRV 8 L 33 NEW NORMAL 556



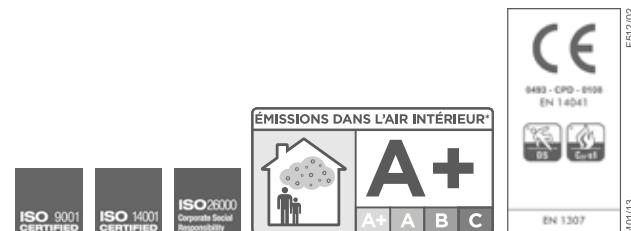
LRV 8 L 34 NEW NORMAL 571

# NORMAL | NEW NORMAL

76

## Technical datasheet

	NORMAL	NEW NORMAL		NORMAL	NEW NORMAL
CONSTRUCTION	Tufted 1/10" Loop	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 C <sub>fl</sub> -s1	EN 13501-1 C <sub>fl</sub> -s1
PILE MATERIAL	100% Polyolefine	8% PA space dyed + 92% Polyolefine	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 100 g/m <sup>2</sup>	Ca. 4 100 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 580 g/m <sup>2</sup>	Ca. 580 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.045 m <sup>2</sup> K/W	ISO 8302 0.045 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 340 g/m <sup>2</sup>	Ca. 340 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 39 dB (1 000 Hz)	ISO 10140 ΔL 39 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.2 mm	Ca. 6.2 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.03 0.07 0.19 0.29 0.33	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.03 0.07 0.19 0.29 0.33
PILE HEIGHT	Ca. 3.4 mm	Ca. 3.4 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.100 g/cm <sup>3</sup>	Ca. 0.100 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>12</sup> Ohm	ISO/DIS 10965 ≤10 <sup>12</sup> Ohm
TUFT DENSITY	Ca. 156 000 /m <sup>2</sup>	Ca. 156 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 31 - LC1	EN 1307 31 - LC1	NUMBER OF COLOURS	6	12
CASTOR CHAIR SUITABILITY	EN 985 B: occasional use	EN 985 B: occasional use	DIMENSIONAL STABILITY	EN 986 max. 0.2%	EN 986 max. 0.2%
			GUT-NR	22555	22555



PF512/02

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 55% (NORMAL) – 53% (NEW NORMAL) Overall recycled content.
- Yarn  
NORMAL: 100% Polyolefine  
NEW NORMAL: 8% PA Space Dyed + 92% Polyolefine
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC<sub>28</sub><100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 22555.  
These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).

Total MR4 recycled content: 27.1%  
MR4 Post-Industrial recycled content: 51.1%  
MR4 Post-Consumer recycled content: 1.5%

- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 39 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 75 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

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**modu  
lyss®**

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## FIRST LINES

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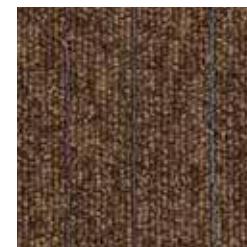
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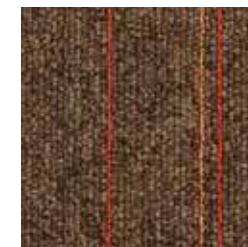
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LRV 18 L 49 901



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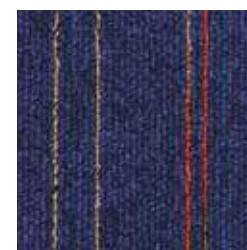
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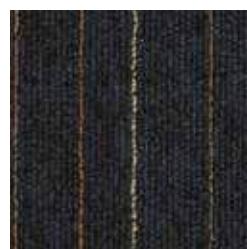
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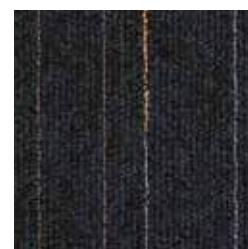
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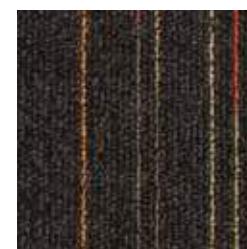
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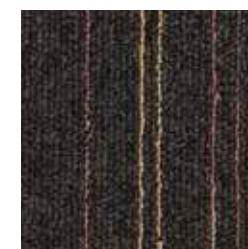
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LRV 4 L 23 541



LRV 4 L 22 966



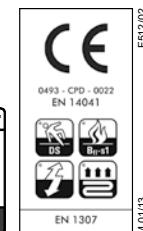
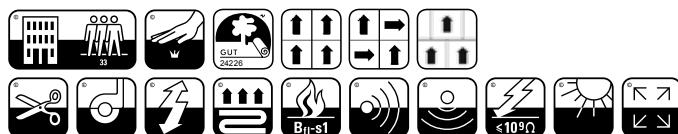
LRV 4 L 23 971

# FIRST LINES

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## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	92% PA 6 Solution Dyed Aqualon + 8% PA Space Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 540 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.047 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 330 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.114 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 156 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	16
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24226
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



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## Sustainable datasheet

### 1. RECYCLED CONTENT

- 52% Overall recycled content.
- Yarn  
92% PA 6 Solution Dyed Aqualon + 8% PA Space Dyed
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24226.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428k, A rating – Eco point score 0.294  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 26.6%  
MR4 Post-Industrial recycled content: 50.5%  
MR4 Post-Consumer recycled content: 1.4%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 79 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



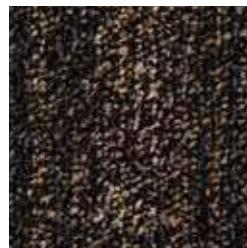
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IN-GROOVE

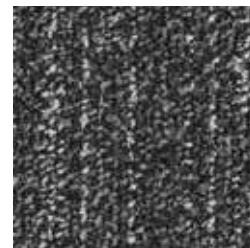
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83



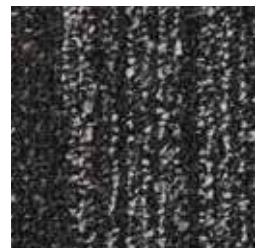
LRV 5 L 25

834



LRV 5 L 26

942



LRV 4 L 24

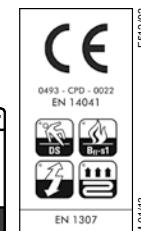
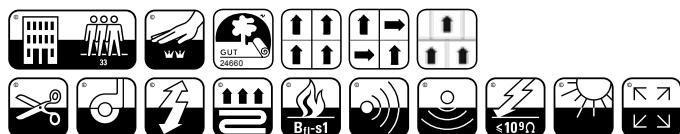
966

# IN-GROOVE

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## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Aqualon HD	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 700 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 740 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.050 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 418 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.2 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.04 0.05 0.18 0.25 0.32
PILE HEIGHT	Ca. 3.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.116 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 158 500 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	3
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
GUI CERTIFICATE		GUT-NR	24660
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02  
M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 52% Overall recycled content.
- Yarn  
100% PA 6 Aqualon HD
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24660.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428o, A rating – Eco point score 0.331  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 26.5%  
MR4 Post-Industrial recycled content: 50.3%  
MR4 Post-Consumer recycled content: 1.4%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.
- Fine dust – indoor air quality  
In reference to Hard floorcoverings modulyss® carpet tiles decrease the concentration of fine dust indoor with a factor 2,7.

### 10. LIGHT REFLECTANCE VALUE

Go to page 83 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 21

## XTRA



LRV 6 L 30 XTRA 30F



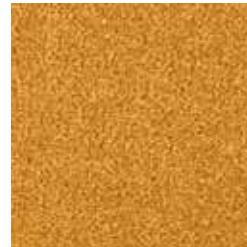
LRV 3 L 20 XTRA 45F



LRV 6 L 28 XTRA 55F



LRV 10 L 38 XTRA 65F



LRV 19 L 51 XTRA 21F



LRV 15 L 45 XTRA 25F



LRV 4 L 23 XTRA 41F



LRV 6 L 29 XTRA 50F



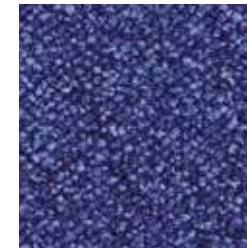
LRV 17 L 48 XTRA 60F



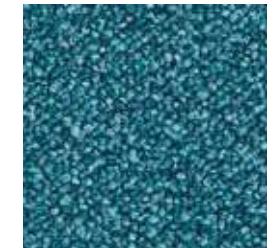
LRV 6 L 29 XTRA 30F



LRV 4 L 23 XTRA 45F



LRV 6 L 31 XTRA 55F



LRV 9 L 38 XTRA 65F



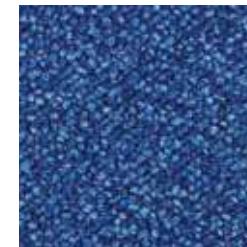
LRV 16 L 46 XTRA 21F



LRV 11 L 39 XTRA 25F



LRV 5 L 28 XTRA 41F



LRV 6 L 32 XTRA 50F



LRV 13 L 43 XTRA 60F



LRV 6 L 30 XTRA 30F



LRV 6 L 28 XTRA 45F



LRV 7 L 31 XTRA 55F



LRV 9 L 37 XTRA 65F



LRV 19 L 50 XTRA 21F



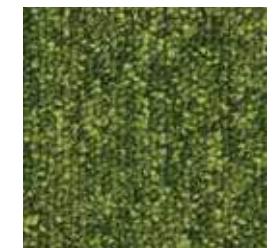
LRV 12 L 41 XTRA 25F



LRV 6 L 29 XTRA 41F



LRV 8 L 33 XTRA 50F



LRV 16 L 47 XTRA 60F

Go to page 27 for the color palette of STEP, to page 59 for CAMBRIDGE and to page 63 for PERPETUAL.

Please find the technical datasheets of XTRA on the following pages:

	Page
Step	28
Cambridge	60
Perpetual	64

## Sustainable datasheet

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Please find the sustainable datasheets of XTRA on the following pages:

	Page
Step	29
Cambridge	61
Perpetual	65

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# 22

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## GRADIENT

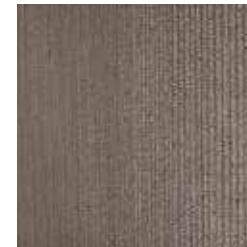
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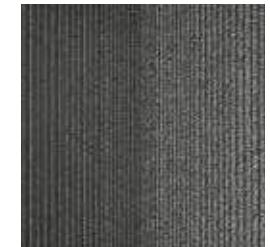
LRV 6 L 28 553



LRV 14 L 45 827



LRV 11 L 40 805



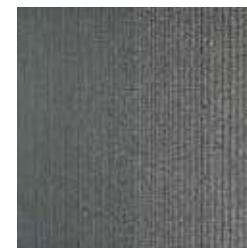
LRV 8 L 34 961



LRV 7 L 33 550



LRV 18 L 49 200



LRV 9 L 37 994



LRV 6 L 29 995



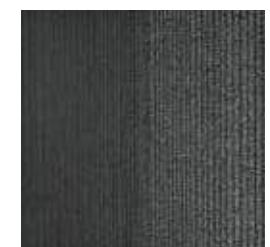
LRV 8 L 35 316



LRV 17 L 48 669



LRV 11 L 39 604



LRV 6 L 30 990

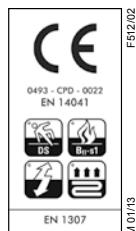
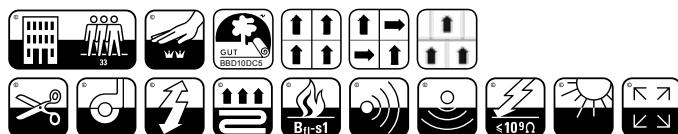
# GRADIENT

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## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 450 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 740 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.048 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 500 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 40 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.1 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.02 0.06 0.16 0.25 0.36
PILE HEIGHT	Ca. 3.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.165 g/m <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 229 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%

GUT-NR BBD10DC5  
BRE ENP 428  
LEED LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).



F512/02  
M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn  
100% PA 6.6 Antron®
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number BBD10DC5. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 40 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428n – Eco point score 0.357  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 26.0%  
MR4 Post-Industrial recycled content: 48.2%  
MR4 Post-Consumer recycled content: 2.0%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 40 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 91 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



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## FIRST ABSOLUTE

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LRV 26 L 58 912



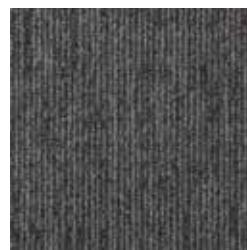
LRV 23 L 55 181



LRV 11 L 40 930



LRV 8 L 34 519



LRV 6 L 30 993



LRV 5 L 26 809



LRV 4 L 24 575



LRV 6 L 29 520

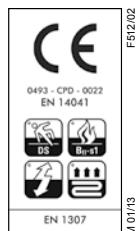
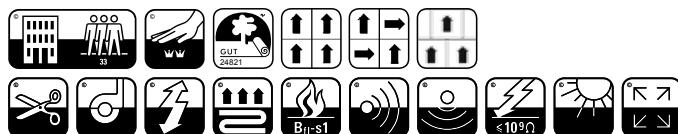
Go to page 111 for the WHITE&BLACK FIRST ABSOLUTE color palette.

# FIRST ABSOLUTE

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## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 500 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 730 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.075 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 420 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 39 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 7.2 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.00 0.05 0.07 0.25 0.26 0.25
PILE HEIGHT	Ca. 3.2 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.131 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 186 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	8
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24821
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02  
M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 51% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed Aqualon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24821.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 39 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428j, A rating – Eco point score 0.324  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 26.5%  
MR4 Post-Industrial recycled content: 49.7%  
MR4 Post-Consumer recycled content: 1.7%

- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- DGNB (DE)  
German Sustainable Building Council  
The DGNB Navigator brings designers' demands and manufacturers' product information together on a joint platform. It also provides the data required for the DGNB certification system and thereby bridges the gap between construction products and building certification. This product is verified by DGNB and features on the DGNB navigator, visit [www.dgnb-navigator.de/company/products/modulyss](http://www.dgnb-navigator.de/company/products/modulyss)

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 39 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 95 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 24

## METALLIC



LRV 5 L 20 983



LRV 13 L 43 823



LRV 9 L 35 213



LRV 7 L 32 280



LRV 11 L 39 965



LRV 14 L 44 662



LRV 12 L 41 827



LRV 16 L 48 200



LRV 16 L 47 322



LRV 19 L 50 907



LRV 15 L 46 669



LRV 11 L 39 805



LRV 6 L 30 822



LRV 7 L 33 316



LRV 4 L 13 961



LRV 8 L 34 684



LRV 10 L 38 604



LRV 7 L 32 352



LRV 7 L 31 314



LRV 9 L 37 994



LRV 7 L 32 550



LRV 11 L 39 579



LRV 6 L 30 513



LRV 5 L 27 541



LRV 5 L 28 990

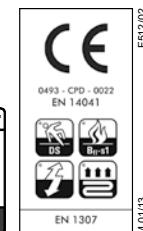
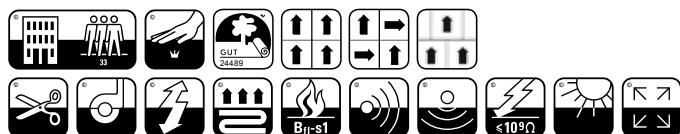
Go to page 111 for the WHITE&BLACK METALLIC color palette.

# METALLIC

100

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6.6 Antron® Brilliance™	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.041 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 400 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.02 0.08 0.21 0.27 0.35
PILE HEIGHT	Ca. 2.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.143 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 109 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	25, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24489
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/15

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn  
100% PA 6.6 Antron® Brilliance™
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-603.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24489.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428q, A rating – Eco point score 0.349  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 25.8%  
MR4 Post-Industrial recycled content: 47.7%  
MR4 Post-Consumer recycled content: 1.9%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 99 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

102



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lyss®**

# 25

## COLOR&

103



LRV 7 L 33 410



LRV 53 L 78 039



LRV 47 L 74 204



LRV 30 L 61 386



LRV 16 L 47 332



LRV 8 L 33 316



LRV 9 L 36 499



LRV 3 L 20 432



LRV 33 L 64 983



LRV 23 L 55 140



LRV 30 L 62 213



LRV 17 L 49 669



LRV 12 L 41 626



LRV 9 L 36 684



LRV 4 L 22 578



LRV 22 L 54 907



LRV 22 L 54 181



LRV 13 L 43 823



LRV 13 L 42 662



LRV 9 L 36 817



LRV 5 L 26 631



LRV 4 L 24 550



LRV 25 L 57 915



LRV 18 L 50 136



LRV 7 L 31 615



LRV 9 L 36 805



LRV 6 L 29 849



LRV 3 L 21 592



LRV 7 L 32 552



LRV 13 L 43 942



LRV 8 L 35 961



LRV 5 L 26 966



LRV 6 L 30 822



LRV 5 L 26 830



LRV 3 L 18 990

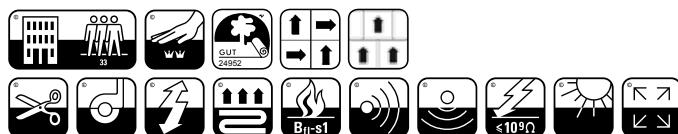


LRV 6 L 29 573

Go to page 111 for the WHITE&BLACK METALLIC color palette.

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 900 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 1 020 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.075 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 670 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 38 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.04 0.06 0.18 0.34 0.43
PILE HEIGHT	Ca. 4.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.148 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 170 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	36, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24952
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



## Sustainable datasheet

### 1. RECYCLED CONTENT

- 47% Overall recycled content.
- Yarn  
100% PA 6 Aqualon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24952.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428e, A rating – Eco point score 0.383  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC3 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 24.4%  
MR4 Post-Industrial recycled content: 45.1%  
MR4 Post-Consumer recycled content: 1.8%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 38 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 103 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 27

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CONVERSE100

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107



LRV 13 L 43

932



LRV 9 L 35

907



LRV 6 L 30

920



LRV 9 L 35

823



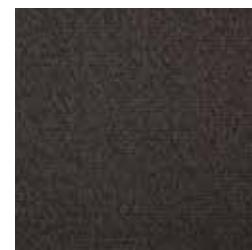
LRV 7 L 32

519



LRV 4 L 22

569



LRV 4 L 22

965



LRV 7 L 31

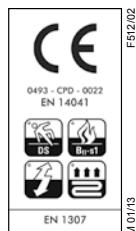
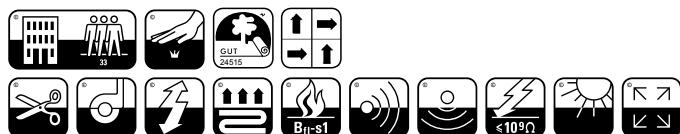
830

# CONVERSE100

108

## Technical datasheet

CONSTRUCTION	Minituft® 5/64" loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% ECONYL® yarn 100% Recycled Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 200 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 480 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.076 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 176 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 10 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.7 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.03 0.05 0.17 0.28 0.28
PILE HEIGHT	Ca. 0.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.220 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 205 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	8
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	24515
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- a. 62% Overall recycled content.
- b. Yarn  
100% ECONYL® yarn - 100% Recycled Solution Dyed Nylon  
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulys® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulys® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- a. Adhesive  
modulys® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- a. Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE  
Partnership modulys®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 24515. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)  
modulys® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulys® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulys® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 10 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428g, A\* rating – Eco point score 0.247  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 33.9%  
MR4 Post-Industrial recycled content: 55.4%  
MR4 Post-Consumer recycled content: 6.2%
- c. HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulys® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. Good Environmental Choice Australia (GECA) (AU)  
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

### 7. GREEN ENERGY

The electricity that we use at modulys® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulys® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- a. H<sub>2</sub>O  
modulys® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- a. Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals  
modulys® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour  
modulys® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 10 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 107 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 28

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## WHITE&BLACK

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111



LRV 52 L 77 WHITE&BLACK 039



LRV 17 L 48 WHITE&BLACK 001



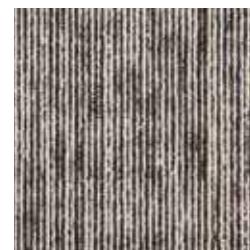
LRV 53 L 78 WHITE&BLACK 039



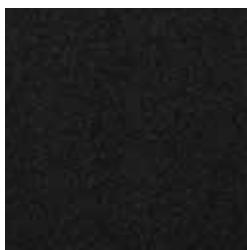
LRV 30 L 62 WHITE&BLACK 039



LRV 28 L 60 WHITE&BLACK 039



LRV 23 L 56 WHITE&BLACK 039



LRV 2 L 14 WHITE&BLACK 991



LRV 0 L 0 990



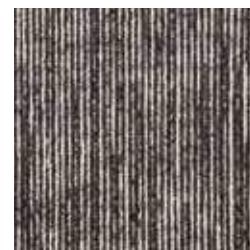
LRV 3 L 18 WHITE&BLACK 990



LRV 10 L 37 WHITE&BLACK 991



LRV 5 L 28 WHITE&BLACK 997



LRV 14 L 44 WHITE&BLACK 990

# WHITE&BLACK

## 112 Technical datasheet

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Please find the technical datasheets of WHITE&BLACK on the following pages:

	Page
Cambridge	60
Black&	40
Color&	104
On-line	20-24
Metallic	100
First Absolute	96

## Sustainable datasheet

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Please find the sustainable datasheets of WHITE&BLACK on the following pages:

	Page
Cambridge	61
Black&	41
Color&	105
On-line	21-25
Metallic	101
First Absolute	97



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## ALTERNATIVE100

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115



LRV 12 L 41

312



LRV 16 L 47

181



LRV 17 L 48

140



LRV 11 L 39

823



LRV 7 L 32

929



LRV 4 L 22

592



LRV 11 L 39

535



LRV 12 L 41

511



LRV 7 L 31

989



LRV 5 L 26

965



LRV 7 L 32

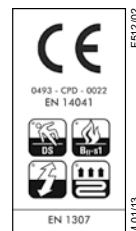
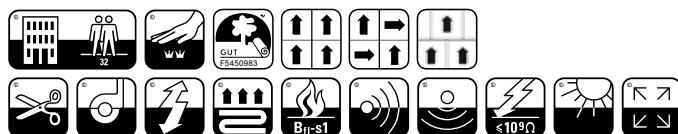
900

# ALTERNATIVE100

116

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop Tip Sheared	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% ECONYL® yarn 100% Recycled Space Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 800 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.064 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 460 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 33 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.5 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.02 0.06 0.16 0.29 0.36
PILE HEIGHT	Ca. 3.4 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.135 g/m <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 206 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 32 - LC2	NUMBER OF COLOURS	11
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	F5450983
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 66% Overall recycled content.
- Yarn  
100% ECONYL® Aquafil - 100% Recycled Space Dyed Nylon  
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number F5450983. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 33 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428b, A\* rating – Eco point score 0.264  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 38.2%  
MR4 Post-Industrial recycled content: 56.1%  
MR4 Post-Consumer recycled content: 10.1%

- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- Good Environmental Choice Australia (GECA) (AU)  
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 33 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 115 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 30

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## FIRST STRIPES

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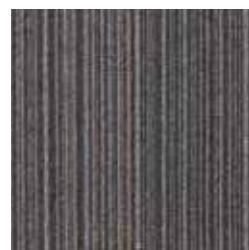
119



LRV 14 L 45 909



LRV 10 L 37 929



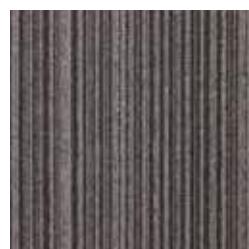
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LRV 5 L 26 328



LRV 10 L 38 883



LRV 5 L 27 989



LRV 4 L 23 965



LRV 4 L 24 572



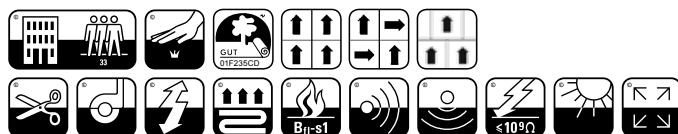
LRV 8 L 34 521

# FIRST STRIPES

120

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 540 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.047 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 330 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.114 g/m <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 156 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	9
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	01F235CD
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02  
M 01/15

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 54% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed Aqualon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 01F235CD.  
These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 4281, A rating – Eco point score 0.294  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands.  
For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 27.5%  
MR4 Post-Industrial recycled content: 52.2%  
MR4 Post-Consumer recycled content: 1.4%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- Good Environmental Choice Australia (GECA) (AU)  
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours.  
(see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 119 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 31

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FIRST WAVES

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123



LRV 15 L 45

123



LRV 9 L 36

843



LRV 11 L 39

911



LRV 9 L 36

997



LRV 4 L 22

966



LRV 3 L 20

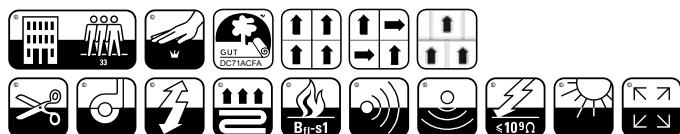
523

# FIRST WAVES

124

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 300 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 540 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.047 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 330 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.114 g/m <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 156 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
		GUT-NR	DC71ACFA
		BRE	ENP 428
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 54% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed Aqualon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number DC71ACFA. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact  
BREEAM Rating Offices  
Certificate ENP 428m, A rating – Eco point score 0.294  
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit [www.bre.co.uk/greenguide](http://www.bre.co.uk/greenguide) or [www.greenbooklive.com](http://www.greenbooklive.com)

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 27.5%  
MR4 Post-Industrial recycled content: 52.2%  
MR4 Post-Consumer recycled content: 1.4%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 123 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 32

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## FIRST BLOCKS

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127



LRV 5 L 26

575



LRV 6 L 53

993



LRV 16 L 47

930



LRV 35 L 66

912



LRV 21 L 53

181



LRV 5 L 28

809

# FIRST BLOCKS

128

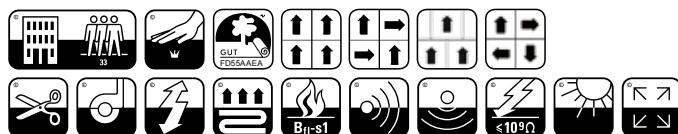
## Technical datasheet

CONSTRUCTION	Tufted 1/12" loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 400 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 600 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.064 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 335 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 36 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.8 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.01 0.06 0.18 0.27 0.37
PILE HEIGHT	Ca. 3.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.108 g/m <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>9</sup> Ohm
TUFT DENSITY	Ca. 174 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%

GUT-NR FD55AAEA

BRE In request

LEED LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).



F512/02 M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 51% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed Aqualon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number FD55AAEA. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 35 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for First Blocks but please note that a similar product has obtained an Ecopoint score of 0.29 to 0.33 and is A-rated for offices.

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).

Total MR4 recycled content: 26.2%  
MR4 Post-Industrial recycled content: 49.1%  
MR4 Post-Consumer recycled content: 1.7%

- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

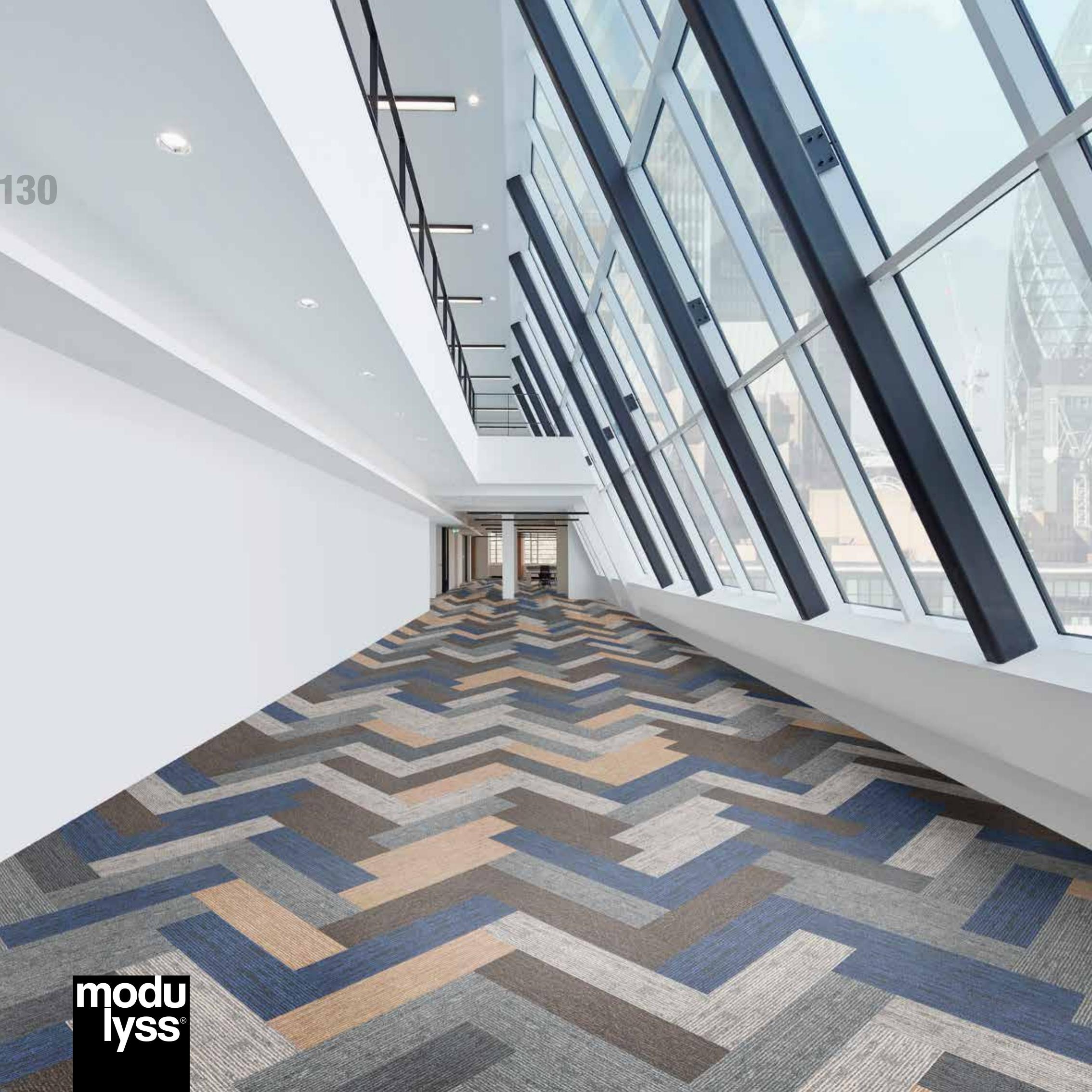
### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 36 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 127 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

130

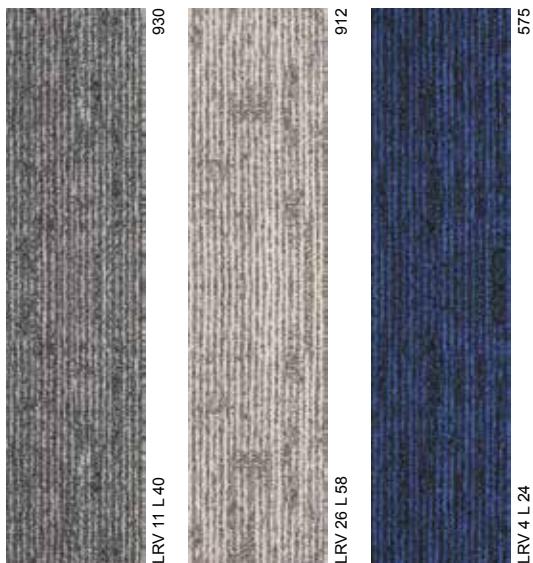


**modu  
lyss®**

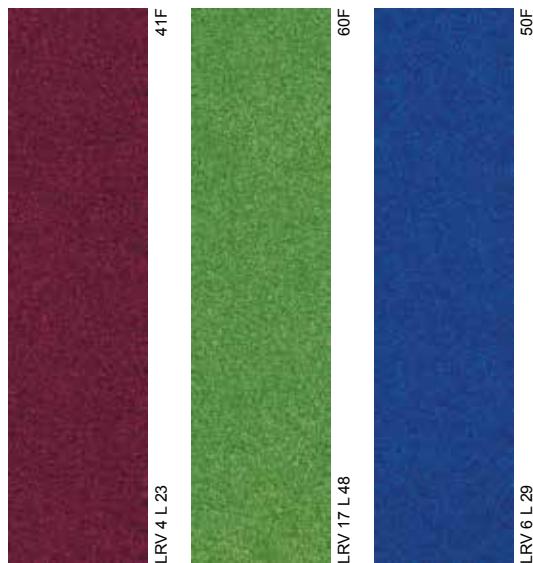
# 33

## NEW SHAPES

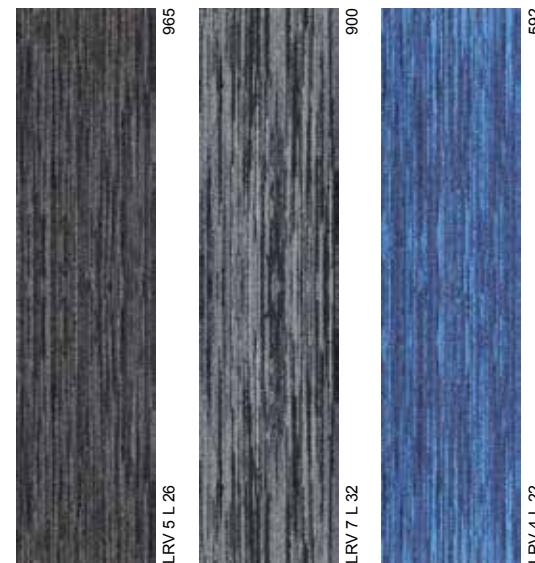
### FIRST ABSOLUTE 25x100



### XTRA CAMBRIDGE 25x100



### ALTERNATIVE100 25x100



# NEW SHAPES

## 132 Technical datasheet

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Please find the technical datasheets of ALTERNATIVE100, FIRST ABSOLUTE and XTRA CAMBRIDGE on the following pages:

	Page
Alternative100	116
First Absolute	96
Cambridge	58

## Sustainable datasheet

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Please find the sustainable datasheets of ALTERNATIVE100, FIRST ABSOLUTE and XTRA CAMBRIDGE on the following pages:

	Page
Alternative100	114
First Absolute	94
Cambridge	58



# 34

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## MARK-UP

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135



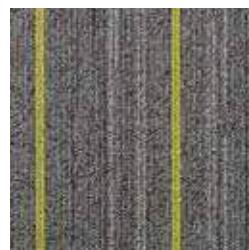
LRV 6 L 29

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LRV 10 L 37

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LRV 8 L 33

956



LRV 13 L 42

981



LRV 17 L 48

139



LRV 7 L 32

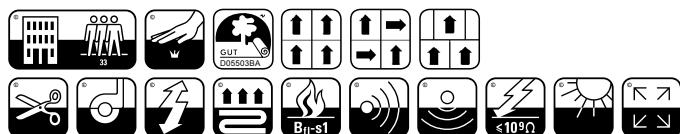
849

# MARK-UP

136

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	70% PA 6 Solution Dyed + 30% PA 6 Solution Dyed Space	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 450 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 670 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.059 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 382 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 39 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.3 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.01 0.03 0.06 0.14 0.29 0.37
PILE HEIGHT	Ca. 2.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.135 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>6</sup> Ohm
TUFT DENSITY	Ca. 166 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	D05503BA
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. Fore more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02

## Sustainable datasheet

### 1. RECYCLED CONTENT

- a. 51% Overall recycled content.
- b. Yarn  
70% PA 6 Solution Dyed + 30% PA 6 Solution Dyed Space
- c. Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- a. Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- a. Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number D05503BA. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)  
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 39 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Mark-Up but please note that a similar product has obtained an Ecopoint score of 0.323 and is A-rated for offices.

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 26.1%  
MR4 Post-Industrial recycled content: 49.2%  
MR4 Post-Consumer recycled content: 1.5%
- c. HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- a. H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- a. Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 39 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 135 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

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# PURE AIR100

**GUI Gold Certificat**

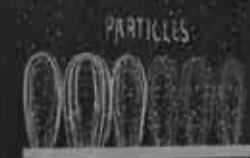


**PM10 & PM2.5**



## Beauty & Function

- 7 COLOURS
- MIX & MATCH
- INFINITE DESIGN POSSIBILITIES



ECONYL® 100% REGENERATED, STURDY, THICK, CAPTURES AND RETAINS PM

**modulyss**

Average time spent: **85% indoors**

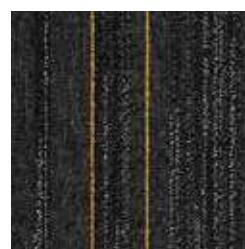


CARPET TILES FOR HEALTHY INDOORS

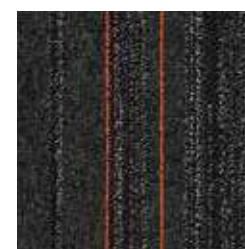
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PURE AIR100

139



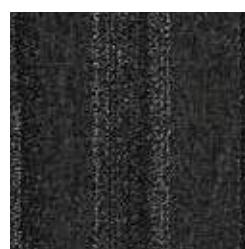
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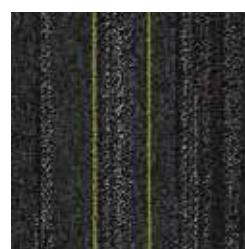
LRV 4 L 22 322



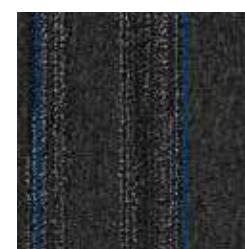
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LRV 3 L 21 900



LRV 4 L 22 609



LRV 4 L 23 504



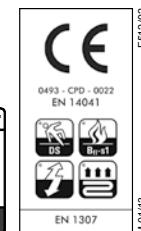
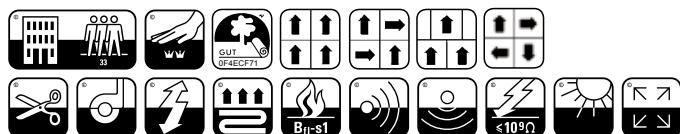
LRV 3 L 22 314

# PURE AIR100

140

## Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 ECONYL® yarn 100% Recycled Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 700 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 700 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.065 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 402 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 37 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.00 0.00 0.05 0.15 0.25 0.30
PILE HEIGHT	Ca. 3.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.134 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10° Ohm
TUFT DENSITY	Ca. 180 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	7
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	0F4ECF71
GUI CERTIFICATE	Gold Standard 	LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02  
M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- a. 66% Overall recycled content.
- b. Yarn  
100% PA 6 ECONYL® yarn - 100% Recycled Solution Dyed Nylon  
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- a. Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- b. modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- a. Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- a. Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- b. CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- c. GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 0F4ECF71. These criteria include VOC thresholds, odour and chemical substances.

- d. REACH (EU)  
modulyss® complies with the strict European REACH standards.
- e. Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- f. Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Pure Air100 but please note that a similar product has obtained an Ecopoint score of 0.264 and is A\*-rated for offices.

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).

Total MR4 recycled content: 37.5%  
MR4 Post-Industrial recycled content: 57.7%  
MR4 Post-Consumer recycled content: 8.6%

- c. HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. ECNZ (NZE)  
Environmental Choice of New Zealand  
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. Good Environmental Choice Australia (GECA) (AU)  
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- a. In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- b. The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- a. H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- b. Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- c. Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- d. Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- e. Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- f. Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- g. Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- a. Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- b. No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 37 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 139 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.



# 36

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## DSGN CLOUD

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143



LRV 19 L 51 101



LRV 20 L 52 181



LRV 12 L 40 136



LRV 25 L 57 912



LRV 7 L 32 342



LRV 13 L 43 823



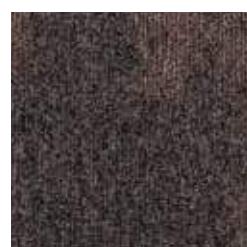
LRV 8 L 32 989



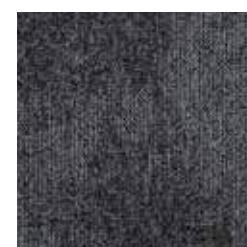
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LRV 5 L 24 575



LRV 5 L 26 809



LRV 6 L 28 993



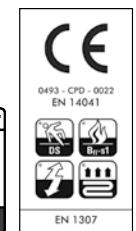
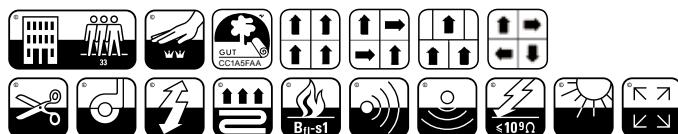
LRV 7 L 31 965

# DSGN CLOUD

144

## Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 680 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.070 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 420 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 42 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.7 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.00 0.03 0.06 0.18 0.31 0.39
PILE HEIGHT	Ca. 3.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.127 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>6</sup> Ohm
TUFT DENSITY	Ca. 193 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	CC1A5FAA
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02  
M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed Nylon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number CC1A5FAA. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 30 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for DSGN Cloud but please note that a similar product has obtained an Ecopoint score of 0.324 and is A-rated for offices.

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 25.9%  
MR4 Post-Industrial recycled content: 48.5%  
MR4 Post-Consumer recycled content: 1.6%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 42 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 143 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

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## DSGN TWEED

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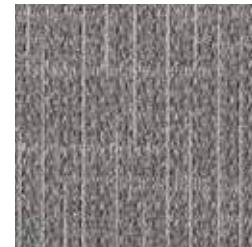
147



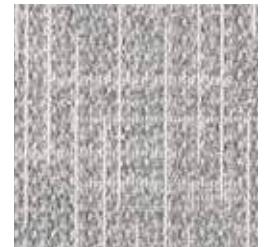
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LRV 17 L 48 181



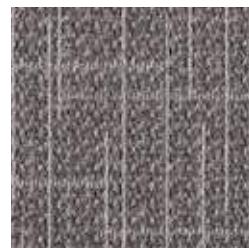
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LRV 25 L 57 912



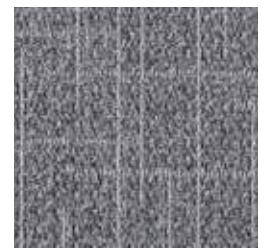
LRV 7 L 32 342



LRV 11 L 40 823



LRV 8 L 34 989



LRV 12 L 40 930



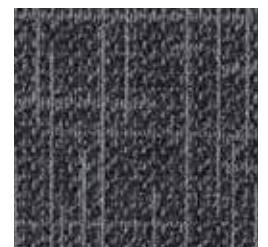
LRV 4 L 23 575



LRV 5 L 26 809



LRV 5 L 26 993



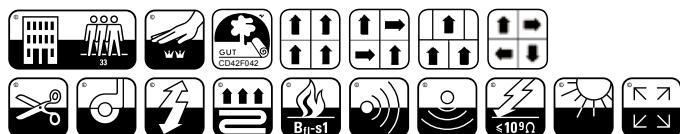
LRV 6 L 28 965

# DSGN TWEED

148

## Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 680 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.070 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 420 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 43 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.7 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.00 0.05 0.06 0.17 0.29 0.37
PILE HEIGHT	Ca. 3.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.127 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>6</sup> Ohm
TUFT DENSITY	Ca. 221 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	CD42F042
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02  
M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed Nylon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number CD42F042. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for DSGN Tweed but please note that a similar product has obtained an Ecopoint score of 0.324 and is A-rated for offices.

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 25.9%  
MR4 Post-Industrial recycled content: 48.5%  
MR4 Post-Consumer recycled content: 1.6%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 43 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 147 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

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## DSGN TRACK

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LRV 20 L 52 101



LRV 19 L 51 181



LRV 14 L 44 136



LRV 28 L 60 912



LRV 8 L 32 342



LRV 12 L 40 823



LRV 9 L 35 989



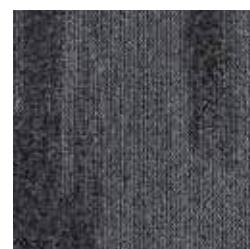
LRV 15 L 45 930



LRV 5 L 25 575



LRV 5 L 26 809



LRV 6 L 27 993



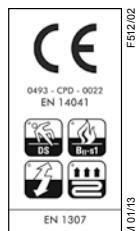
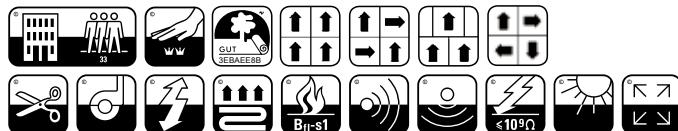
LRV 6 L 29 965

# DSGN TRACK

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## Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>1</sub> -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥4
TOTAL WEIGHT	Ca. 4 600 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥4
PILE WEIGHT	Ca. 680 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.064 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 420 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL 42 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 6.9 mm	SOUND ABSORPTION	ISO 354 Hz 125 250 500 1000 2000 4000 α <sub>s</sub> 0.00 0.01 0.07 0.19 0.31 0.40
PILE HEIGHT	Ca. 3.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤2 kV
PILE DENSITY	Ca. 0.127 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤10 <sup>6</sup> Ohm
TUFT DENSITY	Ca. 183 000 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	3EBAEE8B
		LEED	LEED® Product contributes toward satisfying Credit 4.3 under LEED®. Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



F512/02  
M 01/13

## Sustainable datasheet

### 1. RECYCLED CONTENT

- 50% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed Nylon
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- Secondary Backing – back2back  
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- Installation waste  
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in 50% recycling of our carpet tiles.

### 5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umweltfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 3EBAEE8B. These criteria include VOC thresholds, odour and chemical substances.

- REACH (EU)  
modulyss® complies with the strict European REACH standards.
- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- Sundahus (SE)  
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- BRE Global (UK)  
Building Research Establishment.  
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality  
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.  
• Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.  
• modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy internal air quality.

Hea 05 – Acoustic performance  
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 42 decibels (ΔL: 1 000 Hz - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact  
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for DSGN Track but please note that a similar product has obtained an Ecopoint score of 0.324 and is A-rated for offices.

MAT 5 – Designing for Robustness  
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management  
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit [www.usgbc.org/contact](http://www.usgbc.org/contact).  
Total MR4 recycled content: 25.9%  
MR4 Post-Industrial recycled content: 48.5%  
MR4 Post-Consumer recycled content: 1.6%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 42 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 151 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.

# Overview technical data per product – LOOP PILE

#	PAGE	PRODUCT	CONSTRUCTION	PILE MATERIAL	PILE WEIGHT	TOTAL WEIGHT	PILE ABOVE BACKING	TOTAL HEIGHT	PILE HEIGHT	PILE DENSITY	TUFT DENSITY
00	Page 2	ALPHA	Tufted 1/10" Loop	100% PA 6 Solution Dyed	Ca. 500 g/m <sup>2</sup>	Ca. 4 300 g/m <sup>2</sup>	Ca. 302 g/m <sup>2</sup>	Ca. 5.8 mm	Ca. 2.6 mm	Ca. 0.116 g/cm <sup>3</sup>	171 600 /m <sup>2</sup>
29	Page 114	ALTERNATIVE100	Tufted 1/10" Loop Tip Sheared	100% ECONYL® Yarn + 100% Recycled Space Dyed Nylon	Ca. 800 g/m <sup>2</sup>	4 400 g/m <sup>2</sup>	Ca. 460 g/m <sup>2</sup>	Ca. 6.5 mm	Ca. 3.4 mm	Ca. 0.135 g/cm <sup>3</sup>	206 000 /m <sup>2</sup>
09	Page 38	BLACK&	Tufted 1/10" Loop	50% PA 6.6 Antron® + 50% PA 6.6 Antron® SDN	Ca. 850 g/m <sup>2</sup>	4 400 g/m <sup>2</sup>	Ca. 422 g/m <sup>2</sup>	Ca. 6.8 mm	Ca. 3.5 mm	Ca. 0.121 g/cm <sup>3</sup>	154 440 /m <sup>2</sup>
03	Page 14	C-LINE	Tufted 1/10" Loop Tip Sheared	100% PA 6.6 Antron®	Ca. 1 050 g/m <sup>2</sup>	4 650 g/m <sup>2</sup>	Ca. 621 g/m <sup>2</sup>	Ca. 7.6 mm	Ca. 4.1 mm	Ca. 0.152 g/cm <sup>3</sup>	201 500 /m <sup>2</sup>
25	Page 102	COLOR&	Tufted 1/10" Loop	100% PA 6 Aqualon	Ca. 1 020 g/m <sup>2</sup>	4 900 g/m <sup>2</sup>	Ca. 670 g/m <sup>2</sup>	Ca. 8 mm	Ca. 4.5 mm	Ca. 0.148 g/cm <sup>3</sup>	170 000 /m <sup>2</sup>
27	Page 106	CONVERSE100	Minituft® 5/64" Loop	100% ECONYL® Yarn + 100% Recycled Solution Dyed Nylon	Ca. 480 g/m <sup>2</sup>	4 200 g/m <sup>2</sup>	Ca. 176 g/m <sup>2</sup>	Ca. 5.7 mm	Ca. 0.8 mm	Ca. 0.220 g/cm <sup>3</sup>	205 000 /m <sup>2</sup>
36	Page 142	DSGN CLOUD	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m <sup>2</sup>	4 600 g/m <sup>2</sup>	Ca. 420 g/m <sup>2</sup>	Ca. 6.7 mm	Ca. 3.3 mm	Ca. 0.127 g/cm <sup>3</sup>	193 000 /m <sup>2</sup>
37	Page 146	DSGN TWEED	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m <sup>2</sup>	4 600 g/m <sup>2</sup>	Ca. 420 g/m <sup>2</sup>	Ca. 6.7 mm	Ca. 3.3 mm	Ca. 0.127 g/cm <sup>3</sup>	221 000 /m <sup>2</sup>
38	Page 150	DSGN TRACK	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m <sup>2</sup>	4 600 g/m <sup>2</sup>	Ca. 420 g/m <sup>2</sup>	Ca. 6.9 mm	Ca. 3.3 mm	Ca. 0.127 g/cm <sup>3</sup>	183 000 /m <sup>2</sup>
01	Page 6	FIRST	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m <sup>2</sup>	4 300 g/m <sup>2</sup>	Ca. 330 g/m <sup>2</sup>	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm <sup>3</sup>	156 000 /m <sup>2</sup>
23	Page 94	FIRST ABSOLUTE	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 730 g/m <sup>2</sup>	4 500 g/m <sup>2</sup>	Ca. 420 g/m <sup>2</sup>	Ca. 7.2 mm	Ca. 3.2 mm	Ca. 0.131 g/cm <sup>3</sup>	186 000 /m <sup>2</sup>
32	Page 126	FIRST BLOCKS	Tufted 1/12" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 600 g/m <sup>2</sup>	4 400 g/m <sup>2</sup>	Ca. 335 g/m <sup>2</sup>	Ca. 6.8 mm	Ca. 3.1 mm	Ca. 0.108 g/cm <sup>3</sup>	174 000 /m <sup>2</sup>
19	Page 78	FIRST LINES	Tufted 1/10" Loop	92% PA 6 Solution Dyed Aqualon + 8% PA Space Dyed	Ca. 540 g/m <sup>2</sup>	4 300 g/m <sup>2</sup>	Ca. 330 g/m <sup>2</sup>	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm <sup>3</sup>	156 000 /m <sup>2</sup>
10	Page 42	FIRST RADIANT	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m <sup>2</sup>	4 300 g/m <sup>2</sup>	Ca. 330 g/m <sup>2</sup>	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm <sup>3</sup>	156 000 /m <sup>2</sup>
30	Page 118	FIRST STRIPES	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m <sup>2</sup>	4 300 g/m <sup>2</sup>	Ca. 330 g/m <sup>2</sup>	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm <sup>3</sup>	156 000 /m <sup>2</sup>
31	Page 122	FIRST WAVES	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m <sup>2</sup>	4 300 g/m <sup>2</sup>	Ca. 330 g/m <sup>2</sup>	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm <sup>3</sup>	156 000 /m <sup>2</sup>
22	Page 90	GRADIENT	Tufted 1/10" Loop	100% PA 6.6 Antron®	Ca. 740 g/m <sup>2</sup>	4 450 g/m <sup>2</sup>	Ca. 500 g/m <sup>2</sup>	Ca. 6.1 mm	Ca. 3.0 mm	Ca. 0.165 g/cm <sup>3</sup>	229 000 /m <sup>2</sup>
20	Page 82	IN-GROOVE	Tufted 1/10" Loop	100% PA 6 Aqualon HD	Ca. 740 g/m <sup>2</sup>	4 700 g/m <sup>2</sup>	Ca. 418 g/m <sup>2</sup>	Ca. 7.2 mm	Ca. 3.6 mm	Ca. 0.116 g/cm <sup>3</sup>	158 500 /m <sup>2</sup>
12	Page 50	LINE-UP	Tufted 1/10" Loop	50% PA 6 Solution Dyed + 50% PA 6 Solution Dyed Space	Ca. 550 g/m <sup>2</sup>	4 400 g/m <sup>2</sup>	Ca. 309 g/m <sup>2</sup>	Ca. 5.7 mm	Ca. 2.5 mm	Ca. 0.124 g/cm <sup>3</sup>	168 000 /m <sup>2</sup>
34	Page 134	MARK-UP	Tufted 1/10" Loop	70% PA 6 Solution Dyed + 30% PA 6 Solution Dyed Space	Ca. 670 g/m <sup>2</sup>	4 450 g/m <sup>2</sup>	Ca. 382 g/m <sup>2</sup>	Ca. 6.3 mm	Ca. 2.8 mm	Ca. 0.135 g/cm <sup>3</sup>	166 000 /m <sup>2</sup>
24	Page 98	METALLIC	Tufted 1/10" Loop	100% PA 6.6 Antron® Brilliance™	Ca. 700 g/m <sup>2</sup>	4 400 g/m <sup>2</sup>	Ca. 400 g/m <sup>2</sup>	Ca. 6.4 mm	Ca. 2.8 mm	Ca. 0.143 g/cm <sup>3</sup>	109 000 /m <sup>2</sup>
02	Page 10	MILLENNIUM100	Tufted 1/10" Loop	100% ECONYL® Yarn + 100% Recycled Solution Dyed Nylon	Ca. 580 g/m <sup>2</sup>	4 585 ---g/m <sup>2</sup>	Ca. 380 g/m <sup>2</sup>	Ca. 6.8 mm	Ca. 3.0 mm	Ca. 0.127 g/cm <sup>3</sup>	147 750 /m <sup>2</sup>
18	Page 74	NORMAL	Tufted 1/10" Loop	100% Polyolefine	Ca. 580 g/m <sup>2</sup>	4 100 g/m <sup>2</sup>	Ca. 340 g/m <sup>2</sup>	Ca. 6.2 mm	Ca. 3.4 mm	Ca. 0.100 g/cm <sup>3</sup>	156 000 /m <sup>2</sup>
18	Page 74	NEW NORMAL	Tufted 1/10" Loop	8% PA Space Dyed + 92% Polyolefine	Ca. 580 g/m <sup>2</sup>	4 100 g/m <sup>2</sup>	Ca. 340 g/m <sup>2</sup>	Ca. 6.2 mm	Ca. 3.4 mm	Ca. 0.100 g/cm <sup>3</sup>	156 000 /m <sup>2</sup>
04	Page 18	ON-LINE 1	Tufted 1/10" Loop	100% PA 6.6 Antron®	Ca. 700 g/m <sup>2</sup>	4 530 g/m <sup>2</sup>	Ca. 380 g/m <sup>2</sup>	Ca. 6.0 mm	Ca. 2.6 mm	Ca. 0.146 g/cm <sup>3</sup>	146 500 /m <sup>2</sup>
05	Page 22	ON-LINE 2	Tufted 1/10" Loop	100% PA 6.6 Antron®	Ca. 700 g/m <sup>2</sup>	4 530 g/m <sup>2</sup>	Ca. 380 g/m <sup>2</sup>	Ca. 6.0 mm	Ca. 2.6 mm	Ca. 0.146 g/cm <sup>3</sup>	146 500 /m <sup>2</sup>
15	Page 62	PERPETUAL	Tufted 1/10" Loop	100% Polyamide	Ca. 700 g/m <sup>2</sup>	4 600 g/m <sup>2</sup>	Ca. 450 g/m <sup>2</sup>	Ca. 6.9 mm	Ca. 3.5 mm	Ca. 0.128 g/cm <sup>3</sup>	104 000 /m <sup>2</sup>
35	Page 138	PURE AIR100	Tufted 1/10" Loop	100% PA 6 ECONYL® yarn	Ca. 700 g/m <sup>2</sup>	4 700 g/m <sup>2</sup>	Ca. 402 g/m <sup>2</sup>	Ca. 6.6 mm	Ca. 3.0 mm	Ca. 0.134 g/cm <sup>3</sup>	180 000 /m <sup>2</sup>
17	Page 70	REVERSE100	Minituft® 5/64" Loop	100% ECONYL® Yarn + 100% Recycled Solution Dyed Nylon + Recycled Solution Dyed Space	Ca. 650 g/m <sup>2</sup>	4 400 g/m <sup>2</sup>	Ca. 183 g/m <sup>2</sup>	Ca. 6.0 mm	Ca. 0.8 mm	Ca. 0.228 g/cm <sup>3</sup>	190 000 /m <sup>2</sup>
16	Page 66	SHINE-UP	Tufted 1/10" Loop	50% PA 6 Solution Dyed + 50% PA 6 Solution Dyed Space	Ca. 660 g/m <sup>2</sup>	4 600 g/m <sup>2</sup>	Ca. 360 g/m <sup>2</sup>	Ca. 6.2 mm	Ca. 2.8 mm	Ca. 0.129 g/cm <sup>3</sup>	168 000 /m <sup>2</sup>
06	Page 26	STEP	Tufted 1/10" Loop	100% PA 6 Aqualon	Ca. 530 g/m <sup>2</sup>	4 300 g/m <sup>2</sup>	Ca. 335 g/m <sup>2</sup>	Ca. 6.0 mm	Ca. 2.8 mm	Ca. 0.120 g/cm <sup>3</sup>	160 000 /m <sup>2</sup>
13	Page 54	STREPQES L	Tufted 1/10" Loop	100% PA 6.6 Antron® Lumena Recycled Solution Dyed	Ca. 950 g/m <sup>2</sup>	4 700 g/m <sup>2</sup>	Ca. 580 g/m <sup>2</sup>	Ca. 7.5 mm	Ca. 3.5 mm	Ca. 0.166 g/cm <sup>3</sup>	158 400 /m <sup>2</sup>
07	Page 30	AFFINITY	Tufted 1/10" cutpile Frisé	100% PA 6.6 Antron®	Ca. 850 g/m <sup>2</sup>	4 655 g/m <sup>2</sup>	Ca. 628 g/m <sup>2</sup>	Ca. 8.0 mm	Ca. 4.7 mm	Ca. 0.134 g/cm <sup>3</sup>	188 000 /m <sup>2</sup>

	CLASS EN 1307	FIRE CLASS	THERMAL RESISTANCE	$\Delta L$ 1000 Hz	$\Delta L_w$ (dB)	$\alpha_w$ (H)						
	33-LC1	B <sub>f</sub> -s1	0.067 m <sup>2</sup> K/W	30	22	0.2	■	■	■	■	■	
	32-LC2	B <sub>f</sub> -s1	0.064 m <sup>2</sup> K/W	33	23	0.2	■	■	■	■	■	
	33-LC2	B <sub>f</sub> -s1	0.055 m <sup>2</sup> K/W	37	24	0.2	■	■	■	■	■	
	33-LC3	B <sub>f</sub> -s1	0.068 m <sup>2</sup> K/W	38	24	0.2	■	■	■	■	■	
	33-LC2	B <sub>f</sub> -s1	0.075 m <sup>2</sup> K/W	38	26	0.2	■	■		■	■	
	33-LC1	B <sub>f</sub> -s1	0.076 m <sup>2</sup> K/W	10	15	0.2	■	■			■	
	33-LC2	B <sub>f</sub> -s1	0.070 m <sup>2</sup> K/W	42	26	0.2	■	■	■	■	■	■
	33-LC2	B <sub>f</sub> -s1	0.070 m <sup>2</sup> K/W	43	26	0.2	■	■	■	■	■	■
	33-LC2	B <sub>f</sub> -s1	0.064 m <sup>2</sup> K/W	42	24	0.2	■	■	■	■	■	■
	33-LC1	B <sub>f</sub> -s1	0.047 m <sup>2</sup> K/W	37	25	0.20	■	■	■	■	■	
	33-LC2	B <sub>f</sub> -s1	0.075 m <sup>2</sup> K/W	39	29	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.064 m <sup>2</sup> K/W	36	24	0.2	■	■	■	■	■	■
	33-LC1	B <sub>f</sub> -s1	0.047 m <sup>2</sup> K/W	37	25	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.047 m <sup>2</sup> K/W	37	25	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.047 m <sup>2</sup> K/W	37	25	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.047 m <sup>2</sup> K/W	37	25	0.2	■	■	■	■	■	
	33-LC2	B <sub>f</sub> -s1	0.048 m <sup>2</sup> K/W	40	24	0.2	■	■	■	■	■	
	33-LC2	B <sub>f</sub> -s1	0.050 m <sup>2</sup> K/W	36	22	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.039 m <sup>2</sup> K/W	33	22	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.059 m <sup>2</sup> K/W	39	24	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.041 m <sup>2</sup> K/W	36	24	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.055 m <sup>2</sup> K/W	38	26	0.20	■	■	■	■	■	
	31-LC1	Cfl-s1	0.045 m <sup>2</sup> K/W	39	26	0.2	■		■	■	■	
	31-LC1	Cfl-s1	0.045 m <sup>2</sup> K/W	39	26	0.2	■		■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.036 m <sup>2</sup> K/W	35	23	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.036 m <sup>2</sup> K/W	35	23	0.2	■	■	■	■	■	
	33-LC2	B <sub>f</sub> -s1	0.057 m <sup>2</sup> K/W	38	27	0.2	■	■	■	■	■	
	33-LC2	B <sub>f</sub> -s1	0.065 m <sup>2</sup> K/W	37	24	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.032 m <sup>2</sup> K/W	23	19	0.2	■	■	■		■	
	33-LC1	B <sub>f</sub> -s1	0.040 m <sup>2</sup> K/W	36	24	0.2	■	■	■	■	■	
	33-LC1	B <sub>f</sub> -s1	0.053 m <sup>2</sup> K/W	33	24	0.20	■	■	■	■	■	
	33-LC2	B <sub>f</sub> -s1	0.055 m <sup>2</sup> K/W	36	27	0.2	■	■	■	■	■	
	32-LC2	B <sub>f</sub> -s1	0.051 m <sup>2</sup> K/W	34	23	0.2	■	■	■	■		

## Overview technical data per product – CUT PILE

#	PAGE	PRODUCT	CONSTRUCTION	PILE MATERIAL	PILE WEIGHT	TOTAL WEIGHT	PILE ABOVE BACKING	TOTAL HEIGHT	PILE HEIGHT	PILE DENSITY	TUFT DENSITY	
<b>14</b>	Page 58	CAMBRIDGE	Tufted 1/10" Frisé	100% PA 6.6 Antron®	Ca. 1050 g/m <sup>2</sup>	4 650 g/m <sup>2</sup>	Ca. 728 g/m <sup>2</sup>	Ca. 8.0 mm	Ca. 5.0 mm	Ca. 0.146 g/cm <sup>3</sup>	181 102 /m <sup>2</sup>	
<b>11</b>	Page 46	ECO100 C	Tufted 1/10" CUT Velours, plain	100% ECONYL® yarn + 100% Recycled Solution Dyed Nylon	Ca. 750 g/m <sup>2</sup>	4 500 g/m <sup>2</sup>	Ca. 500 g/m <sup>2</sup>	Ca. 7.0 mm	Ca. 3.6 mm	Ca. 0.138 g/cm <sup>3</sup>	164 000 /m <sup>2</sup>	
<b>13</b>	Page 54	STREPQES C	Tufted 1/10" Velours	100% PA 6.6 Antron® Lumena Recycled Solution Dyed	Ca. 950 g/m <sup>2</sup>	4 700 g/m <sup>2</sup>	Ca. 760 g/m <sup>2</sup>	Ca. 7.9 mm	Ca. 4.4 mm	Ca. 0.173 g/cm <sup>3</sup>	150 480 /m <sup>2</sup>	
<b>08</b>	Page 34	UNIQUE	Tufted 1/10" Velours, COC	100% PA 6.6	Ca. 750 g/m <sup>2</sup>	4 600 g/m <sup>2</sup>	Ca. 465 g/m <sup>2</sup>	Ca. 7.5 mm	Ca. 4.0 mm	Ca. 0.116 g/cm <sup>3</sup>	255 000 /m <sup>2</sup>	

	CLASS EN 1307	FIRE CLASS	THERMAL RESISTANCE	$\Delta L$ 1000 Hz	$\Delta L_w$ (dB)	$\alpha_w$ (H)						
	32-LC3	B <sub>f</sub> -s1	0.071 m <sup>2</sup> K/W	43	25	0.2	■	■	■	■		
	33-LC2	B <sub>f</sub> -s1	0.050 m <sup>2</sup> K/W	43	26	0.2	■	■	■	■		
	33-LC3	B <sub>f</sub> -s1	0.050 m <sup>2</sup> K/W	36	24	0.2	■	■	■	■	■	
	32-LC2	B <sub>f</sub> -s1	0.060 m <sup>2</sup> K/W	37	25	0.2	■	■	■	■		

## NOTES

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We reserve all rights for technical improvements.

The LEED® green building certification program is the nationally accepted benchmark for the design, construction, and operation of green buildings.

modulyss®  
Zevensterrestraat 21  
9240 Zele  
BELGIUM

[info@modulyss.com](mailto:info@modulyss.com)  
[www.modulyss.com](http://www.modulyss.com)







[www.modulyss.com](http://www.modulyss.com)