Barrier Free Access for Public Buildings & Toilets

Barrier Free Access
Freeing Up the Way-Automatically

"Barrier-free access is the key to ensuring that disabled individuals and persons of limited mobility enjoy self-sufficiency and participate in the normal life of society. The creation of a barrier-free environment has become a core mission in government, political and business circles alike."

Buildings and other infrastructure, means of transport, items of technical equipment, IT systems, sources of audiovisual information, communications devices and other factors of day-to-day life are regarded as "barrier-free" if disabled persons can use them in a normal way without special difficulty and, generally, without any outside help.

Barrier-free construction and living is increasingly significant to, and being accepted more and more by, society as a whole. Indeed, barrier-free construction has become an integral part of forward-looking planning and design.

Gilgen Door Systems belongs to the FTA (the German professional association of door-automation suppliers). The FTA encourages this approach to barrier-free thinking, and was a key contributor to the new DIN standard 18040("Barrier-free Construction"), which appeared in late 2010/early 2011.
Barrier-free construction is not just designed to benefit disabled persons and the elderly, but also those experiencing temporary difficulties, such as parents trying to deal with small children and prams, persons handling large items of shopping, or people having to walk crutches, etc.

Application for Public Buildings

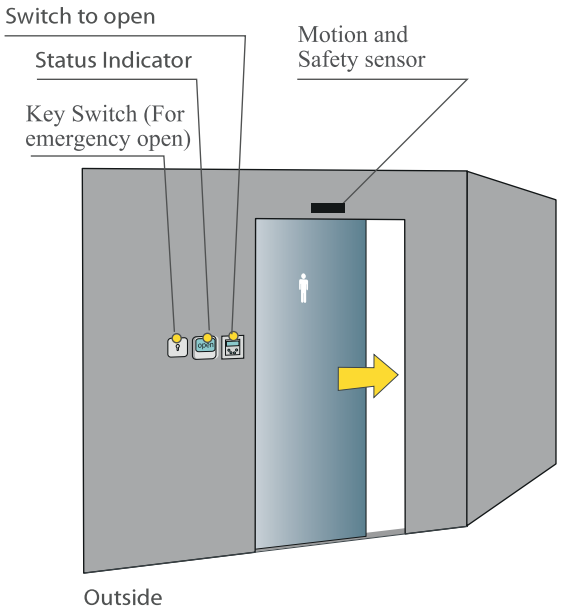
Disabled Toilet Solution

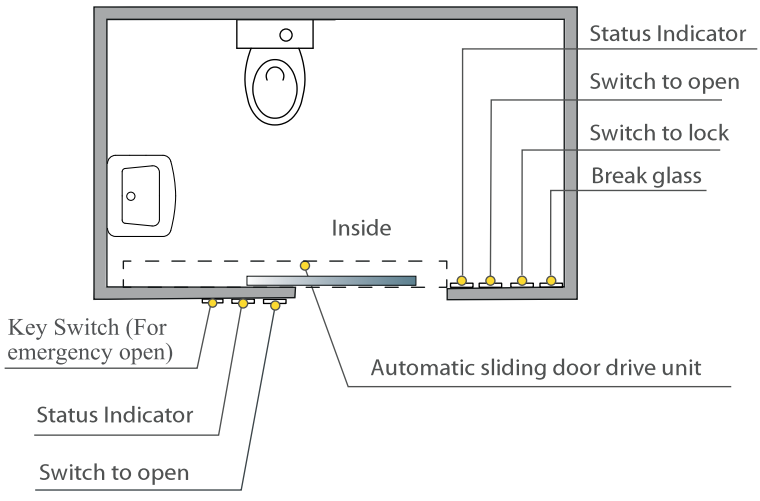
Sliding Door Application

Inside

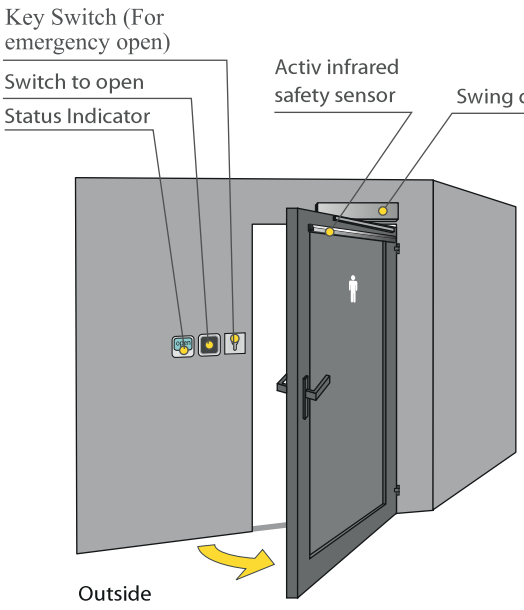
Hong Kong Airport

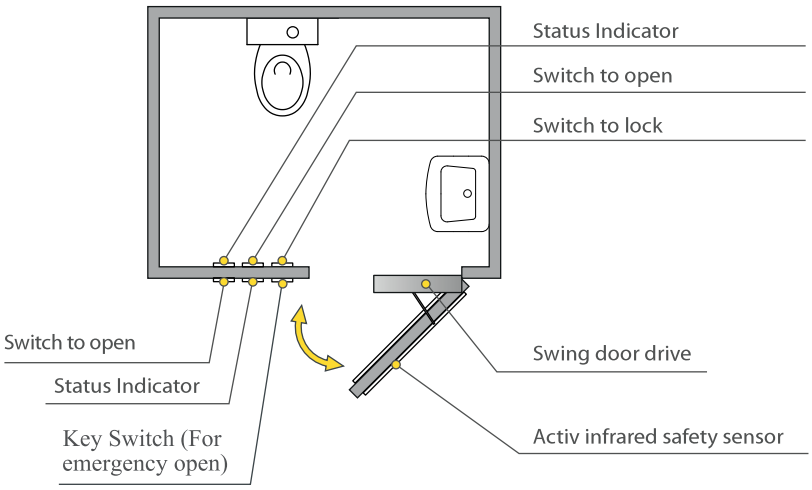
Outside





Swing Door Application





Operation Description

While the toilet is vacant, occupied/vacant indicator on the outside is green (vacant). User can use the door open button on the outside to trigger the automatic swing door operator. Door will close automatically after user enter toilet or expiry of the adjusted hold-open time. User press door lock button on inside to activate the electro-magnetic lock. The occupied / vacant indicator on outside turns from green (vacant) to red (occupied). At the same time, the occupied / vacant indicator on inside turns from green (unlock) to red (locked). User releases the electro-magnetic lock and open door by pressing the internal door open button. Then, user can leave the toilet.

The door will be closed automatically after expiry of the adjusted hold open time. The occupied/vacant indicator on the outside is maintaining green (vacant). It shows that toilet is empty.

Portfolio of Equipment

Drive Unit:

Gilgen SLA Sliding drive

Label Evolus Sliding drive

Gilgen FD20 swing drive

Label Neptis swing drive

Sensor:

Crystal Presence
(For sliding door application)

EYE tech (For swing door application)

Electro-magnetic Lock
(For swing door application)

Switches & Readers:

3 in 1 Indicator box
(Include magic switch inside)

Status indicator with light

Press button

Evolo Readers (RFID)

Break glass

Key switch

DT001 disabled toilet
logic control box

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