

ISLANDER I600

Islander I600 is Islander Aerospace's first clean sheet design. It is a medium-range aircraft capable of seating 180 passengers in single class layout and will be the first narrowbody to be built with most of its structure made of composites.

The I600 is designed to cater to the growing low-cost carrier markets, especially in Southeast Asia. The cabin can be configured to 199 seats in dense configuration, perfect for LCC economics as it maximizes the utilization of cabin crew while being able to fit in most category C gates common in LCC terminals.

Two engine options will be available for the aircraft. The Pratt & Whitney PW1000G geared turbofans and the Harriett H140. Both feature the latest in efficient aircraft engines.

The fuselage is wider than competing aircraft allowing quicker turnaround times, which helps airlines utilize their aircraft more. The aisle will be wide enough so that people can freely pass through while others are putting their carry-ons in the overhead bins. The composite structure also enables the aircraft to have larger windows for better in-flight experience.

The wings will be the most efficient wings for any competing aircraft. The high aspect ratio reduces drag and allowing efficient cruise at higher mach. This is again possible because of the new composite materials that make the wing structure.

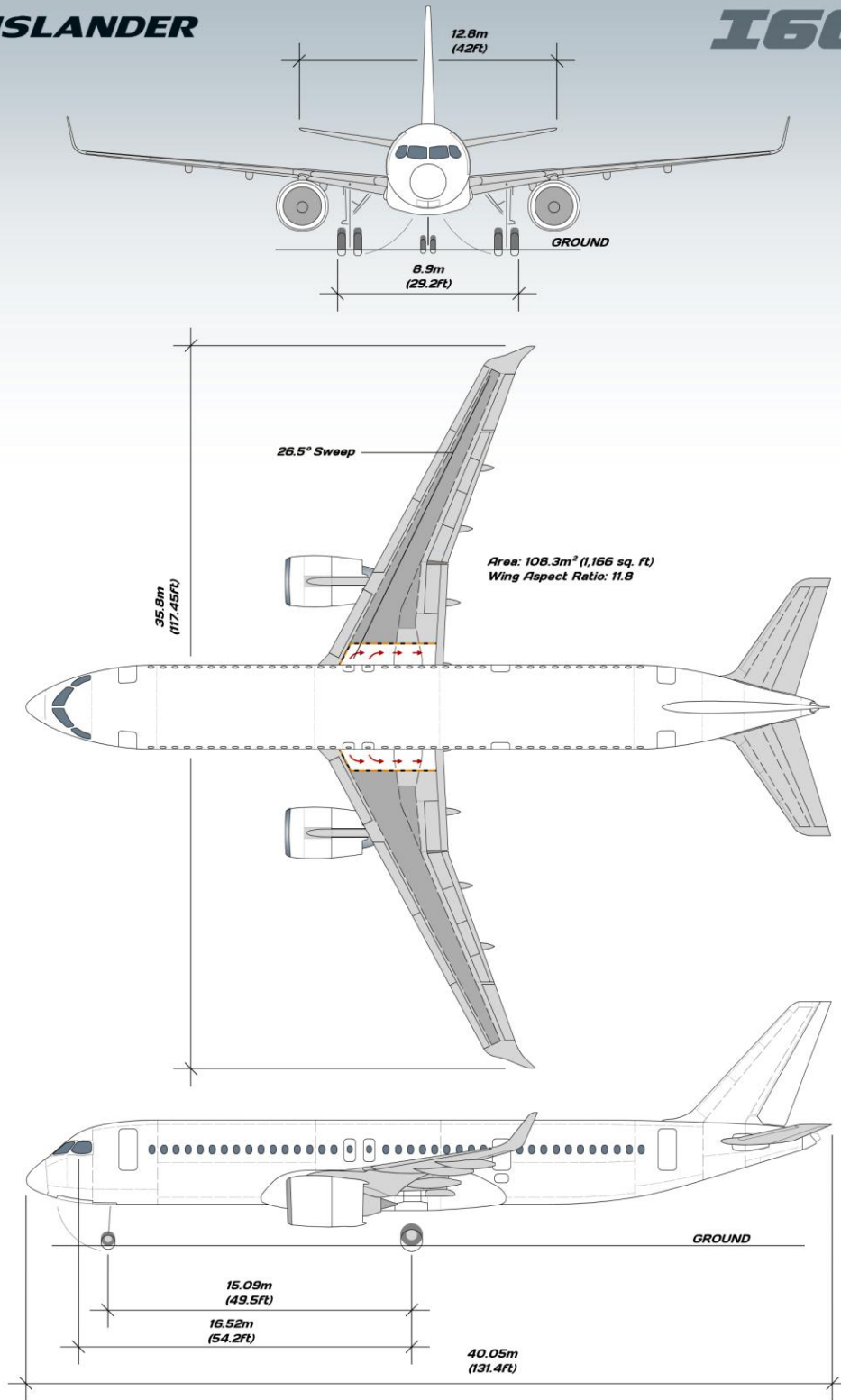
Automation will also play a key factor in the design that reduce the workload on the crew. Coupled with an overall balanced design, the I600 will have better safety than other aircraft.



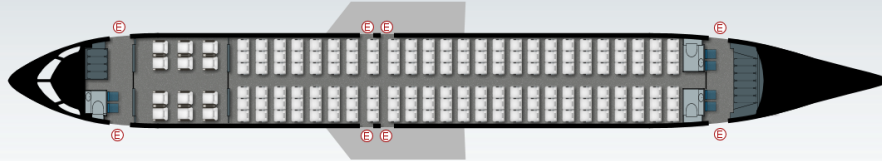
CREW		FUEL	
Cockpit	2	Volume	26,320L / 6 950 US gal
Cabin	4-6	Wing + center tank	22,720L / 6,000 US gal
PASSENGERS		Aux. tank	3,600L / 950 US gal
Maximum	199	Weight	21,319.2kg / 47,000 lb
1-class	180	PERFORMANCE	
2-class	162	Range (km)	6,200km / 3,850mi
CARGO		Speed max.	Mach 0.88
Volume	42m ³ / 1,480 cu ft	Speed cruise	Mach 0.82
ULD	8x LD3-45	Service ceiling	12,000m / 39,000 ft
OVERALL GEOMETRY		Takeoff run	2,200m / 7,220 ft
Length	40.05m / 131,4 ft	ENGINES	
Wingspan	35.8m / 117.45 ft	Harriett 140-A	
Fuselage width	4.04m / 13.24 ft	Thrust	140kN / 31,470 lbf
Cabin width	3.81m / 12.5 ft	Harriett 140-B	
Wheelbase	15.09m / 49.5 ft	Thrust	150kN / 33,720 lbf
WINGS		Harriett 140-C	
Wing area	108.3m ² / 1,166 sq. ft	Thrust	122kN / 27,430 lbf
(exposed + center box)		Pratt & Whitney PW 1130G	
Aspect ratio	11.8	Thrust	147kN / 33,050 lbf
Wing loading	759.19kg/m ² / 155.49 lb/sq. ft		
Sweep	26.5deg		
WEIGHTS			
MTOW	82,220kg / 181,260 lb		
MZFW	60,900.8kg / 134,260 lb		
OEW	42,750kg / 94,250 lb		

ISLANDER

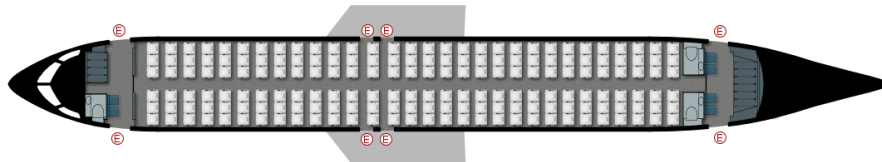
I600



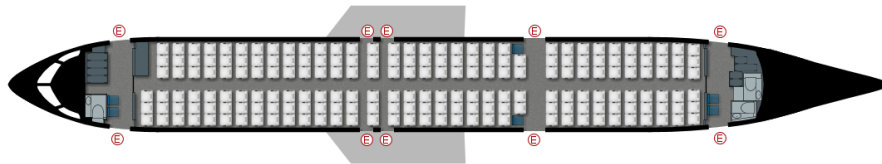
GENERAL DIMENSIONS



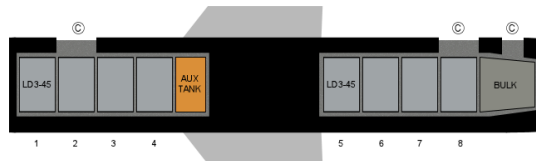
2-class 12C + 150Y



1-class 180Y



Dense 199Y



Cargo 8x LD3-45

CONTAINER MODE: 29.5m (1,040 cu ft) + 5.9m (210 cu ft) bulk
BULK MODE: 42m (1,480 cu ft)

TYPICAL CONFIGURATIONS