

STAVATTI™

SM-455 A VIARA



SM-455 AVIARA Five Place Reciprocating Sportplane

CERTIFICATION STANDARD: FAR 23 Normal & Utility (Anticipated 2011)

PERFORMANCE & SPECIFICATIONS

POWERPLANT

Model:	Trace OE600 V-8
Manufacturer:	Trace Engines
Engine Displacement:	495 cu in
Engine Compression Ratio:	8:1
Fuel Requirements:	100LL
Max Power, SL:	600 HP
Max Cruise, SL:	500 HP
Max Crankshaft Speed:	4,400 RPM
Engine Reduction Gear Ratio:	0.4675:1
Engine FADEC:	Standard
Propeller:	MTV-16
Propeller Blades:	5
Propeller Diameter:	104 in

CAPACITIES & LOADINGS

Fuel Capacity:	210 USG
Useful Load:	2,360 lbs
Max Wing Loading:	24.66 lbs/sq ft
Max Power Loading:	8.75 lbs/HP
Design Limit Load Factor:	+10/-5

LANDING GEAR

Type:	Retractable Tricycle
Wheel Base:	12 ft 3 in
Wheel Track:	7 ft 0 in
Tip-Back Angle:	15.0°

PERFORMANCE (MTOW, Standard Day)

Max Level Speed (Vno)-SL	240 KTAS
Max Level Speed (Vno)-FL300	295 KTAS
Max Maneuvering Speed (Vo)	225 KTAS
Never Exceed Speed (Vne)	325 KTAS
Max Cruise Speed-SL	211 KTAS
Max Cruise Speed-FL300	275 KTAS
Economy Cruise Speed-SL	183 KTAS
Economy Cruise Speed-FL300	237 KTAS
Stall Speed Landing Configuration (Vso)-SL	58 KTAS
Stall Speed Clean Configuration (Vsn)-SL	74 KTAS
Best Rate-Of-Climb Speed (Vy)-SL	90 KTAS
Max Rate-Of-Climb-SL	2,700 ft/min
Max Certified Operating Altitude	35,000 ft
Range-Max Level Speed (Vno)-FL300	1,483 nm
Range-Max Cruise Speed-FL300	1,856 nm
Range-Economy Cruise Speed-FL300	2,178 nm
Take-Off Distance-Ground Roll	492 ft
Take-Off Distance-Clear 50 ft Obstacle	803 ft
Landing Distance-Ground Roll	635 ft
Landing Distance-Clear 50 ft Obstacle	837 ft

DIMENSIONS & AREAS

Overall Length:	28 ft 6 in
Overall Span:	42 ft 0 in
Overall Height:	9 ft 5 in
Reference Wing Area:	212.9 sq ft
Reference Aspect Ratio:	13.4

WEIGHTS

Empty Weight:	2,890 lbs
Max Internal Fuel:	1,260 lbs
Passenger/Cabin Load Allowance:	850 lbs
Baggage/Cargo Load Allowance:	250 lbs
Maximum Take-Off Weight (MTOW):	5,250 lbs

COMFORT & ACCOMMODATION

Seats:	5
Doors:	4
Cargo Hatches:	2
Aft Cargo Compartment:	27.7 cu ft
Forward Cargo Compartment:	22.1 cu ft
Total Cargo/Baggage Volume:	49.8 cu ft
Max Cabin Length:	146 in
Max Cabin Height:	51 in
Max Cabin Width:	67 in
Liquid, Air-Side Controlled Heating:	Standard
Digital Climate Control Air Conditioning:	Standard
Pressurized Sea Level Cabin to Altitude:	22,000 ft

