

Mission Adaptable Crew Seat



Unarmored



Armored

Product Number
119100-1 (unarmored)
119000-1 (armored)

Seat Features

- Compact architecture with small floor-to-track footprint 10.24 in x 14.50 in (29 cm x 36.8 cm) allows for seat installation in spatially limited environments
- Lightweight bucket and frame design exceeds static and dynamic load requirements of 14 CFR Part 29 when occupied by fully loaded 95th percentile male, 285 lb (129.3 kg) plus armor kit, 54 lb (24.5 kg)
- VLEA has seven incremental operational mass settings from 134 to 297 lb (61 to 135 kg) providing energy attenuation, tuned for military aviators
- Vertical and horizontal adjustment levers are ergonomically designed and positioned
- Vertical adjustment has seven incremental positions that provide 4 in (10 cm) of seated vertical height adjustment
- Ergonomic seat bucket fits 5th percentile female through 95th percentile male
- Seat back and seat pan cushions include inflatable thigh and lumbar support
- 5-point restraint with dual-action rotary buckle
- Fixed headrest
- NVG compatible, seat is black
- Unarmored seat weight is 46 lb (21 kg)

KEY FEATURES

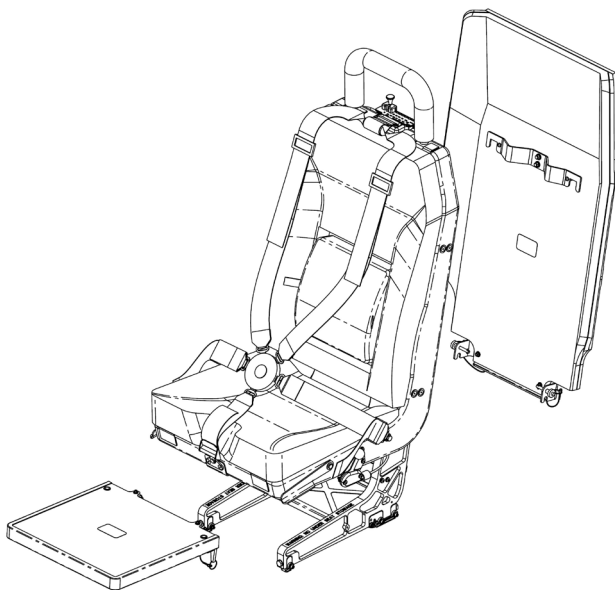
- Compact architecture includes small frame and floor-to-track footprint
- Lightweight and high-strength bucket
- Variable Load Energy Absorbers (VLEA)
- Outfitted vertical and horizontal adjustment levers
- Comfort cushioning
- 5-point restraint with dual-action rotary buckle

Armored Seat Features



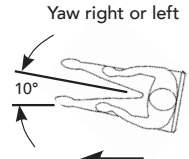
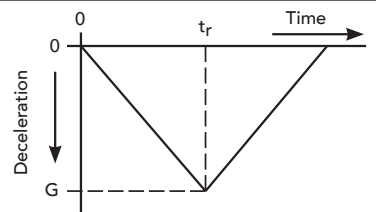
- Includes pre-installed attachment points on unarmored seat and armor kit components for quick installation or removal of armor panels
- Rear armor assembly attaches to seat frame, does not stroke
 - Load-limiting brackets are permanently mounted to rear armor assembly
- Seat pan armor assembly attaches to underside of bucket, armor moves with seat adjustment and stroke.
- Innovative attachment design allows both armor panels to be positively installed without creating excessive load strain on seat frame during crash conditions
- Advanced lightweight armor materials provide ballistic threat protection against .50 cal projectiles
- Armor kit total weight is 54 lb (24.5 kg), rear armor assembly is 42 lb (19 kg), seat pan armor assembly is 12 lb (5.4 kg)

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UNARMORED SEAT SHOWING ARMOR KIT ATTACHMENT



DYNAMIC TEST CONDITIONS PER SAE AS8049A TYPE B

Illustration shows a forward facing seat Inertial load shown by arrow 	TEST 1	TEST 2
		
Min V m/sec (ft/sec) Max. tr/sec Min. G Deform floor: Degrees roll Degrees pitch	9.14 (30) 0.031 30 10° 10°	12.80 (42) 0.071 18.4 10° 10°
Test pulse simulating aircraft floor deceleration-time history t_r = rise time V = Impact Velocity G = Deceleration measured on the test fixture or the sled near the seat position		

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