



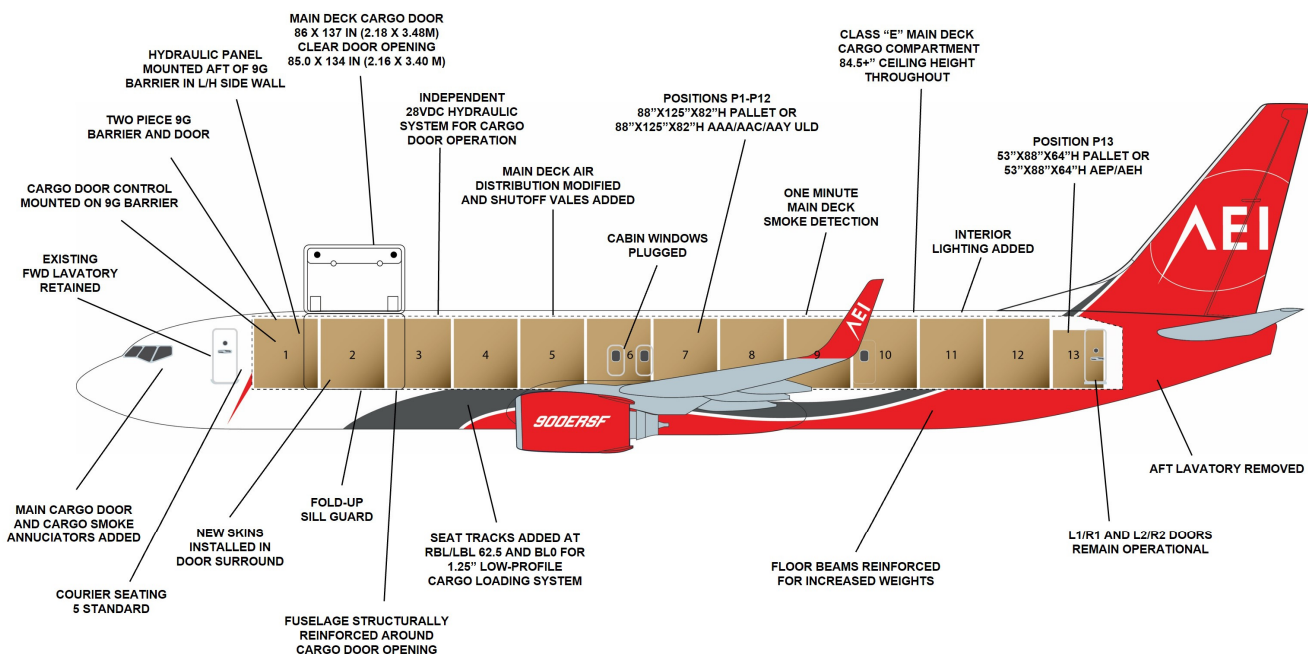
Aeronautical Engineers, Inc.
Optimum Conversion Solutions

AEI B737-900ERSF Freighter Conversion 13 Pallet Configuration Data Sheet

Freighter Conversion Data Sheet

The Aeronautical Engineers Inc. (AEI) B737-900ERSF Cargo Conversion consists of the installation of a 86"x137" cargo door on the left side of the fuselage, and modification of main deck to a Class E cargo compartment. After conversion the aircraft can carry twelve 88"x125" full height containers or pallets with pallet weights of up to 8,000 lbs. plus one AKE or AEP/AEH ULD.

AEI's cargo door has earned a reputation of being the most robust and reliable in the conversion industry. The cargo door is hydraulically operated and actuated from the inside of the aircraft by an independent system. Hydraulic pressure is available from two sources; a 28VDC electrically operated hydraulic pump or a manual hand pump. The door control and manual pump are located on the 9g barrier, allowing a single person to operate the door manually. This P to F conversion will be approved for installation on aircraft with blended or split-scutar type winglets.



Approvals

United States FAA STC is in development with validation from foreign aviation authorities expected shortly after FAA STC issuance.



Freighter Weights and Volumes

Weights	
MTW*	Up to 188,200 LB (85,366 kg)
MTOW*	Up to 187,700 LB (85,139 kg)
MZFW*	Up to 149,300 LB (67,721 kg)
MLW*	Up to 157,300 LB (71,350 kg)
BEW**	91,600 LB Est (41,549 kg Est)
Total Aircraft Payload***	Up to 57,700 LB (26,172 kg)
Fuel Capacity	6,875 USG (26,022 L)

*Aircraft as-delivered weights
**Typical BEW after conversion, depends on original aircraft configuration
***Typical Max Payload, depends on aircraft OEW and MZFW

Main Deck Usable Volume	
12 ULD's - 88"x125"x82"H 1 ULD - 53"x88"x64"H	5,415 Ft³ (153 m ³)
12 Netted Pallets 88"x125"x82"H 1 ULD - 53"x88"x64"H	5,559 Ft³ (157.0 m ³)

Main Attributes

- Thirteen Main Deck Pallet Positions, Twelve 88"x125" full height AAA/AAY ULD's plus one 53"x88"x64" Pallet or AEP/AEH or 60.4"x61.5" AKE/LD3 or 61.5"x88"x56"H AYY
- Up to 57,700 LB (26,172 KG) Maximum Payload (depending on Model & Aircraft Weight Limits)
- 86"x137" Main Deck Cargo Door
- Single Vent Door System
- Seat tracks added at BL0 and LBL/RBL62.5
- New floor beams installed aft of the wing box
- Low profile 1.25" Ancra International Cargo Loading System
- 9g rigid cargo / smoke barrier with sliding door
- Main deck converted to Class "E" Cargo Compartment, with one minute smoke detection system.
- Cabin windows replaced with lightweight aluminum window plugs
- High reliability, 28VDC, independent hydraulic system
- Stretch Formed fuselage skins
- 5 Supernumerary Seats

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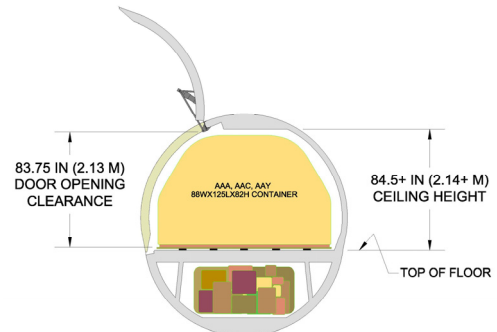
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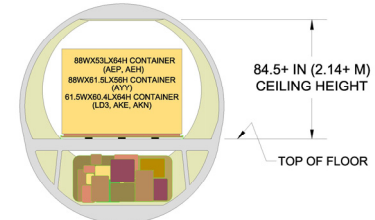
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POSITION 1 TO 12 88"x125"x82"H CONTAINERS



POSITION 1 TO 12 88"x125"x82"H CONTAINERS



POSITION 13 53"x88"x64"H Pallet AEP/AEH or 60.4"x61.5" AKE/LD3 or 61.5"x88"x56"H AYY