United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA5795NM

This certificate, issued to **Israel Aircraft Industries Intl., Ltd.**

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 *of the* Federal Aviation *Regulations.* See Page 2 of this STC for the Certification Basis.

Original Product—Type Certificate Number: A20WE

Make: Boeing

Model: 747-100 Series

Description of the Type Design Change:

Modification of Boeing 747-100 passenger to 747-100 Special Freighter airplane including, but not limited to, installation of a main deck side cargo door, main deck floor, powered cargo loading system, interior and associated systems in accordance with FAA Approved Israel Aircraft Industries (IAI) Intl. Ltd.'s Master Drawing List Document No. 366-53-00-19901 Revision J, dated December 11, 1992, or equipment removals per alternate Master Drawing List Document No. TR-366-53-00-28467 Revision B, dated April 13, 1995, or later FAA approved revisions, and reclassification of the lower lobe cargo compartments from Class C to Class E.

Limitations and Conditions:

Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect on the airworthiness of that aircraft. A copy of this amended Certificate, IAI Master Drawing List Document No. 366-53-00-19901, and alternate Master Drawing List TR-366-53-00-28467, and an approved Airplane Flight Manual Supplement must be maintained as part of the permanent records for the modified aircraft. (See Continuation Sheet 2).

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: March 20, 1991

Date of issuance: November 25, 1992

Date reissued:

Date amended: May 25, 1993; April 14, 1995

By direction of the Administrator

(Signature)

Acting Manager, Seattle Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding $1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

FAA Form 8110-2(10-68)

Supplemental Type Certificate
(Continuation Sheet)

Number **SA5795NM**

LIMITATIONS AND CONDITIONS (Continued):

Limitations and Conditions of Type Certificate Data Sheet A20WE apply except as outlined below:

Eligible Serial Numbers:	All Boeing Model 747-100 Series airplanes listed in the IAI Airplane Flight Manual Supplement 306-91-00-19903 with maximum weight limitations as follows: Taxi Weight - 738,000 lbs. Landing Weight - 585,000 lbs. Zero Fuel Weight - 526,500 lbs.
C.G. Range:	See the FAA approved Israel Aircraft Industries' Airplane Flight Manual Supplement 366-91-00-19903. The vertical C.G. of the total payload is restricted to WL 250.00 or below.
Maximum Weights:	See the FAA approved Airplane Flight Manual Supplement 366-91-00-19903.
Maximum Cargo:	See the FAA approved Weight & Balance Control and Loading Manual Boeing Document D6-13700 and the IAI Supplement referenced in the AFM Supplement 366-91-00-19903.
Fuel and Oil Capacity:	See the FAA approved Weight & Balance Control and Loading Manual Boeing Document D6-13700 and the IAI Supplement referenced in the applicable AFM Supplement.
Certification Basis:	For unmodified structures and systems, the same as shown on Type Certificate Data Sheet A20WE for the Model 747-100 Series Airplanes. For new or extensively modified systems and structures, the same as shown on Type Certificate Data Sheet A20WE for the Model 747-100 Series airplane except where superseded by the following Sections of Part 25 as amended by Amendments 25-1 through: 25-38 (Section 25.685 Control System Details) 25-72 (Section 25.783 Doors for Main Deck Side Cargo Door only) 25-54 (Section 25.1529 Instructions for Continued Airworthiness) Part 36 See Type Certificate Data Sheet A20WE and the AFM Supplement.
Production Basis:	None

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(Continuation Sheet)

Number **SA5795NM**

LIMITATIONS AND CONDITIONS (continued):

Required Equipment: The basic equipment as prescribed in the applicable airworthiness regulations must be installed in the aircraft.

Service Information: Applicable Boeing documents and Israel Aircraft Industries Intl., Ltd.'s Supplemental Structural Inspection Documents (SSID) 366-5300-1921-0, 336-53-00-15047, Structural Repair Manual (SRM) 366-53-0028149 and Maintenance Manual Supplement 30'6-53-00-19904 applicable to all 747-100 modified in accordance with the STC. Israel Aircraft Industries Service Bulletins and other service information when FAA approved will carry a statement to that effect.

NOTES:

1. The aircraft loading instructions are provided in Weight & Balance Control and Loading Manual Boeing Document D6-13700 and the IAI Supplement 366-08-00-19204. This manual must be in each aircraft at the time of original certification and at all times thereafter, except in the case of operators having an approved weight control system.

2. The 747-100 Special Freighter operations must be in accordance with the FAA approved Israel Aircraft Industries Airplane Flight Manual Supplement 366-91-00-19903. Each approved AFM Supplement lists the applicable airplane Serial Numbers. All placards required in either the FAA approved AFM Supplement, the applicable operating rules or the certification basis must be installed in the airplane.

3. Required structural inspections for all models 747-100 modified in accordance with this STC are contained in the Israel Aircraft Industries Supplemental Structural Inspection Documents.(SSID) 366-53-00-19216 and 366-53-00-15047.

4. Information essential to proper maintenance of the aircraft modified in accordance with this STC is contained in the IAI's Maintenance Manual Supplement 366-53-00-19904.

5. The IAI's Model designation for airplanes modified in accordance with this STC is "B747-100 Series Special Freighter." This model designation appears on the FAA approved IAI's AFM supplements, Structural Repair Manual Supplement 366-53-00-28149 and Maintenance Manual Supplement 366-53-00-19904 and all other service documents. This model designation does not alter or replace the original Boeing 747-100 Series Model designation.

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LIMITATIONS AND CONDITIONS (continued):

6. Modifications installed per the following STC's require compatibility with the modifications installed per this STC, SA5795NM.

a. Installation of Cargo Transfer System per STC SA5865NM.

b. Installation of Cargo Conveyer System per STC ST11CH.

c. Installation of the Smoke Door and Ladder in the upper deck floor at the crew ladder hatch per STC SA2580SW-D.

d. Installation of Galleys per STC SA148ONM.

7. Operational Requirements: The Federal Aviation Regulations (FAR) 21.50 requires that maintenance procedures for continued airworthiness (maintenance and inspection program), as applicable to this change in type design, be made available to the U.S. operators and their regulatory authority at the time the aircraft is returned to service.

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