



SUPPLEMENTAL TYPE-CERTIFICATE

DATA SHEET

**IAI / Aviation Group Boeing 747-400 SF
Special Freighter Conversion
(EASA STC: EASA.IM.A.S.02040 Rev.1)**

Aircraft Manufacturer: Boeing

The Boeing Company
P.O. Box 3707
Seattle, WA 98124-2207
USA

**STC Holder: Israel Aircraft Industries
(Original STC : CAAI STC SA151)**

Aviation Group – Aircraft Division
Department 10901
Ben-Gurion International Airport
Israel

For variants:
B747-400

Issue 01: 07 Nov 2019

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NOTE

This Supplemental Type Certificate Data Sheet (STCDS) is supplemental to the TCDS for the basic aircraft (TCDS.IM.A.196) for the EASA STC EASA.IM.A.S.02040 Rev.1. Paragraph numbering is consistent with the TCDS of the basic aircraft. Any paragraph not included in this STCDS is therefore unchanged from the basic aircraft TCDS.

SECTION 1: GENERAL

- | | | |
|------|--|---|
| 1. | Data Sheet No: | STCDS IM.A.S.02040 |
| 2. | Airworthiness Category: | Large Transport Airplanes |
| 3. | Performance Category: | A |
| 4. | Certifying Authority, Aircraft:
(Address) | Federal Aviation Administration (USA)
Seattle Aircraft Certification Office,
2200 South 216th St.,
Des Moines, WA 98198-3529
United States of America |
| 4.1. | Certifying Authority, STC:
(Address) | Civil Aviation Authority of Israel
Golan Street, Hanegev Street corner
P.O. Box 1101
Airport City
Israel, 7019900 |
| 5. | Type Certificate Holder:
(Address) | The Boeing Company
P.O. Box 3707
Seattle, WA 98124-2207
United States of America |
| 5.1. | STC Holder:
(Address) | Israel Aerospace Industries
Aviation Group
Ben-Gurion International Airport
Israel, 7010000 |

SECTION 4 (-400 VARIANT: -400 SF)

I. General

1. **Aircraft:** Boeing 747-400 Combi converted by EASA STC (EASA.IM.A.S.02040 Rev.1) referenced as B747-400SF,
2. **EASA STC Certification Date:** 11 July 2006 (Initial Issue) / 27 June 2007 (Rev.1)

(Note: Effective date of applicable regulation is CAAI Reference Application Date)

II. STC Certification Basis

1. **CAAI Certification Date:** 30 May 2006
- 1.1 **CAAI Reference Application Date:** 02 Aug 2004
2. **CAAI Certification Basis:**
Refer to FAA Type Certificate Data Sheet 1 (TCDS) A20WE Rev. 36 dated May 16, 2005 for parts of the airplane not changed or not affected by the change.
FAR 25 Amendment 25-1 through 25-112 for changed areas except for reversions as follows:
Amendment 54 (25.365, 571)
Amendment 87 (25.831 except (g))
3. **EASA Validation Basis:** In accordance with Regulation (EC) 1702/2003 Basic aircraft as per EASA TCDS IM.A.196 for unaffected areas and CS 25 Issue 1 for changed areas.
Reversions to earlier than standard than CS 25 Issue 1 were agreed for items where compliance to latest amendments is impractical as it does not materially contribute to the level of safety for the complete aircraft.
 - **CRI A-01 EASA Joint Type Certification Basis**
 - **CRI D-03 Main Deck Cargo Compartment**
 - **CRI F-01 New, Modified or Reused Equipment Qualification Standard**
 - **CRI F-02 Complex Digital Devices**
 - **CRI F-03 CAN (Controller Area Network) Bus**
 - **CRI F-04 Software**Including the following project related special conditions, as detailed below.
Special Condition:
 - **CRI D-01 Cargo Door**Including the following project equivalent safety finding, as detailed below.
Equivalent Safety Findings:
 - **CRI D-02 Carriage of Supernumeraries on Freighter airplane in dedicated compartment (ESF with JAR 25.785(j), 25.857(e) and 25.1447(c)(1))**

III. Technical Characteristics and Operational Limitations

1. **STC Design Definition:** IAI MDL 366-00-00-A3550 Rev. P

12. **Maximum Certified Weights:**

No changes to the original weight variants are made with this conversion. If an aircraft with lower structural weights is modified, the lower weights will apply after the change.

The structural justifications are applicable up to the following maximum weights:

	-400 SF	
	lbs	Kg
MTW	873000	395986
MTOW	870000	394625
MLW	652000	295742
MZFW	610000	276691

17. **Minimum Flight Crew:** Two (2): Pilot and Co-pilot, for all types of flight

18. **Maximum Seating Capacity:**

2 Pilots plus 10 Persons on approved seats within approved seating areas for observers and supernumeraries.

Note: Not for passenger transport, persons carried are for the safe operation of the flight and cargo as defined in the IAI Airplane Flight Manual supplement.

19. **Baggage/Cargo Compartment: See Weight and Balance Manual:**

Location	Class	Usable Volume m ³ (ft ³)
Main Deck	E	736 (26000)
Fwd	C *	96 (3415)
Aft	C *	84 (2970)
Bulk	C *	20 (710)

21. **Exits:**

Main entry doors 1L and 5L are active. All other main entry doors are deactivated. No change in upper deck emergency exits.

* conversion of Class D/C is not part of this modification.

IV Operating and Servicing Instructions

1. Flight Manual Supplement:

IAI Flight Manual Supplement	366-00-00-A2911
IAI Weight and Balance Supplement	366-08-00-A3528-XXXX

2. Mandatory Maintenance Instructions:

IAI Supplemental Instructions for Continued Airworthiness - Maintenance Planning Document 366-53-00-A0315

3. Service Letters and Service Bulletins:

As published by IAI.

V Notes

1. Additional information is provided in FAA TCDS A20WE and EASA TCDS IM.A.196.
2. ANCRA STC (EASA.IM.A.S.01760, FAA ST01899LA) covers the Cargo Loading System and is required to be installed in conjunction with this STC.