



תעודת סוג - תוספת  
**SUPPLEMENTAL TYPE CERTIFICATE No. SA160**

This certificate issued to

**Israel Aerospace Industries LTD  
BedeK Aviation Group  
LOD 70100. Israel**

תעודה זו ניתנה ל-

certifies that the change in the type design for the following product with the limitations and conditions as thereof specified herein meets the requirements of ANR Air Navigation Regulations (Takanot Teud).

מאשרת שהשינוי בתכנ הסוג של המוצר דלהגן במגבלות ובתנאים המבצעיים כמפורט להגן ממלא אחר דרישות של תקנות הטיס (נהלי תיעוד כלי טיס וחלקיהם).

**FAR Part 25**

**Original product - Type Certificate No.**

**IL-029**

המוצר המקורי - תעודת סוג מס'

**Make**

**The Boeing Company**

תוצרת

**Model**

**737-400 Series**

דגם

**Description of Type Design Change\_:**

תאור השינוי בתיכון הסוג :

This Supplemental Type Certificate (STC) approves the conversion of a Boeing 737-400 PAX airplane configuration in to a Special Freighter (SF). The special freighter design includes a main deck Class E cargo compartment, a smoke detection system, reinforcement of main deck floor beams and frames, addition of three seat tracks, floor panels replacement and rework, a new 9g rigid barrier, new cargo loading system provisions, redesign of avionics and electrical system to accommodate freighter features and accommodations for two supernumeraries in a dedicated area behind the flight deck. For details see IAI Master Document List (MDL) Number TR-365-00-00-B4200 rev New.

**Limitations and Conditions**

מגבלות ותנאים:

The following CAAI approved documents or later CAAI approved revisions, as indicated, must be maintained as part of the permanent record for each modified airplane.

(See continuation)

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 Director General, Civil Aviation Authority.

תעודה זו ונתוני הביסוס המהווים בסיס לאישור יהיו בתוקף עד ביטולם, התליתם, השעיתם או עד פקיעת תוקפם כפי שנקבע על יד מנהל רשות התעופה האזרחית.

Date of application : **June 12, 2006**

תאריך הגשת הבקשה :

Date of issuance: **February 19, 2009**

תאריך הוצאת התעודה :

Date of revision : **November 11, 2015**

תאריך שינוי התעודה :

By the direction of the Director General  
Civil Aviation Authority.

בהתאם להוראת  
מנהל רשות התעופה האזרחית.

Signed :



תואר :

Title :

Tamir Baram  
Engineering Branch Manager CAAI - Airworthiness

חתיום :

## Limitations and Conditions (Continued):

Document Number				Description	Revision
365	00	00	B4200	737-400 Conversion from PAX TO SF - Master Document List	New
365	00	00	B4206	A/C Affectivity list B737-400 - Conversion from PAX to SF	New
365	00	00	B2164	B737-400 Conversion from PAX to SF - Compliance Check List	B
365	00	00	B4014 (*)	Airplane Flight Manual Supplement for IAI 737-400 Special Freighter	0
365	00	00	B4201	Installation Drawing List B737-400SF(PAX)~A/C 401	B
365	53	00	B4016	Boeing 737-400 Special Freighter - Structural Repair Manual Supplement	A
365	00	00	B4024	737-400SF Supplemental Structural Inspection Document - SSID	A
365	00	00	B4022	737-400 Conversion from PAX to SF - Maintenance Planning Document (MPD) Supplement to Boeing Document D6-38278.	A
365	00	00	B4022-CMR	737-400 Conversion from PAX to SF - Airworthiness Limitations (AWLs) and Certification Maintenance Requirements (CMRs) Supplement to Boeing Document D6-38278-CMR	A
365	00	00	B4008	B737-400 Special Freighter - Aircraft Maintenance Manual Supplement	Sep 1, 08
365	08	00	B4052-GUI1 (*)	Boeing 737-400 Special Freighter - Supplement to Weight & Balance Control & Loading Manual	1
365	08	00	B4053 (*)	Boeing 737-400 Special Freighter - Weight & Balance Control and Loading Manual – Supplement	2
365	00	00	B4007	B737-400SF - Instructions for Continued Airworthiness	B
365	00	00	92810	737-400 Conversion from PAX/PAX to SF - AD Compliance	L

(\*) Indicated document number as certified for A/C S/N 23865 may be substituted by a new number for additional airplanes.

### STC Applicability

The design approval under this STC is applicable to the design configuration of Boeing Model 737-400, Serial Number 23865. Applicability to other Boeing Model 737-400 series airplanes is identified in the IAI document TR 365-00-00- A4206.

### STC Compatibility

The design approved under this STC is compatible with the 737-400 type design and other STC's incorporated in Boeing Model 737-400 Serial Number 23865 at the time of approval. Compatibility of this design change with other previously approved designs or modifications on any Model 737-400 Series airplanes must be determined by the user and installer of the approved data.

### Cargo Handling System

The installation of a Cargo Handling System including roller and ball trays, guides and locks manufactured by ANCRA per FAA issued STC as defined by Controlled data List (CDL) DL84980, rev B, Dated Oct 16,2008 approved by FAA has been found compatible with this STC and shall be installed for aircraft operation in freighter configuration.

### Rights to Design Data and Installation of the Approved Design Data

Possession of the STC document does not constitute rights to the design data or installation of the approved design data. The STC and its supporting data (drawings, instructions, specifications, etc.) are the property of the STC holder. It is incumbent upon the user to contact the STC holder to obtain rights for the use of the STC and the design data contained herein.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

## Limitations and Conditions (Continued):

### Availability of Copies of STC

Anyone may request a copy of the STC in writing. A CAAI response letter must accompany copies of the STC with the following statement referencing the STC number: "Possession of the Supplemental Type Certificate does not constitute rights to the installation of the modification or the design data contained therein. The STC and related information (drawings, data, and specifications) are the property of the STC holder. The Civil Aviation Authority of Israel will not release proprietary data without authorization from the holder. The user is required to obtain installation approval and/or data rights from the STC holder.

### Certification Basis

Based on 14 CFR §21.115 and §21.101, and CAAI policy for significant changes set forth in Israeli ANR Certification, chap. 4, par. 38(a) & (b) and in FAA Order 8110.48 CPR, the certification basis for Boeing Model 737-400 series PAX to freighter is as follows:

The type certification basis for Boeing Model 737-400 series airplanes is shown on TCDS A16WE for parts not changed or not affected by the change.

Based on the reference date of application, June 12, 2006, for parts changed or affected by the change the certification basis is based upon Part 25 as amended by Amendment 25-119. Based on 14 CFR §21.115 and §21.101, and FAA policy for significant changes set forth in Israeli ANR Certification, chap. 4, par. 38(a) & (b) and in FAA Order 8110.48 CPR, the certification basis for this modification was determined to be:

a. Regulations at the latest amendment 25-0 through 25-119

§25.1, §25.2, §25.21, §25.23, §25.25, §25.27, §25.29, §25.301, §25.303, §25.305(a)(b)(c), §25.307, §25.367, §25.489, §25.495, §25.503, §25.507, §25.509, §25.511, §25.561, §25.601, §25.603, §25.605, §25.607, §25.609, §25.611, §25.613(a)(b)(c)(d), §25.619, §25.623, §26.625, §25.777(a)(b), §25.787(a)(b), §25.789, §25.791, §25.793, §25.807, §25.851(a), §25.853, §25.855, §25.856(a), §25.857(e), §25.858(a), §25.869(a)(4), §25.903(d), §25.981, §25.1301(a)(b)(c)(d), §25.1309, §25.1316, §25.1322, §25.1351(a), §25.1353, §25.1355, §25.1357(a)(b)(c), §25.1381, §25.1411(a)(b)(c)(d)(e)(f)(g), §25.1415(a)(b)(c)(d), §25.1438, §25.1439(a)(b), §25.1441(c), §25.1443, §25.1445, §25.1449, §25.1453, §25.1455, §25.1501, §25.1519, §25.1529, §25.1541(a)(b), §25.1557(a)(c)(d), §25.1561(a)(b)(c)(d)(e)(f)(g)(h)(i)(j), §25.1581, §25.1583, §25.1585.

b. Regulations at an intermediate amendment

§25.571 Amdt. 25-54, §25.629 Amdt. 25-46, §25.831 Amdt. 25-87(except paragraph (g)), §25.1435 Amdt. 25-72 (for MDCD Mechanism).

c. Regulations at TCDS A16WE amendment level

§25.321, §25.331, §25.333, §25.337, §25.341, §25.343, §25.351, §25.365, §25.471, §25.473, §25.479, §25.481, §25.483, §25.485, §25.491, §25.499, §25.729(f), §25.1435 (for MDCD Hydraulic Power Supply), §25.1459. See CAAI IP S-2 for §25.365 exception justification.

### Exemptions

See CAAI IP CI-1 for 25.857(e), and the passenger requirements of 25.785(j), 25.813(b) (3) and 25.1447(c) (1)

### Special Conditions

None

### Equivalent Level of Safety Findings

See CAAI IP ES-1 for §25.855(i) Equivalent Safety Justification

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