TYPE-CERTIFICATE DATA SHEET

No. EASA.IM.A.348

for

Gulfstream G280

Type Certificate Holder:

GULFSTREAM AEROSPACE LP (GALP)

P.O. Box 1036

7019900 Airport City

Israel

For Models: G280

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SECTION 1: Gulfstream G280

I. General

1. Type/ Model/ Variant

Gulfstream G280

2. Performance Class

A

3. Certifying Authority

Civil Aviation Authority
State of Israel Ministary of Transport
P.O. Box 1101
Airport City 70100
Israel

4. Manufacturer

Israel Aerospace Industries (IAI)
Commercial Aircraft Group
Ben Gurion International Airport
70100
Israel

5. State of Design Authority Certification Application Date

30 March 2006

6. EASA Type Certification Application Date

30 March 2006

7. State of Design Authority Type Certificate Date

30 August 2012

8. EASA Type Certification Date

07 February 2013

II. Certification Basis

1. Reference Date for determining the applicable requirements
30 August 2006

2. State of Design Airworthiness Authority Type Certification Data Sheet No.
A7IL

3. State of Design Airworthiness Authority Certification Basis
14 CFR Part 25, Amdt 25-1 trough 25-120 and Amdt 25-122 for§25.1317

4. EASA Airworthiness Requirements

- CS-25, Amendment 2
- CS-AWO initial issue
- For steep approach landing modification(G25-10059) CS 25 Amendment 13, Appendix Q
- For pitot tube modification (G25-10089) CS 25 Amendment 26 for 25.1324
- For total air temperature (TAT) probe modification (G25-20218) CS 25 Amendment 26 for 25.1324

SECTION 1: Gulfstream G280 - continued

5. Special Conditions

Original Special Conditions part of Certification Basis

B-01 Human Factors
B-02 Flight in Icing Conditions
B-09 Stall Protection System (SPS): Wing Anti-ice System (WAIS) Interaction with SPS Shaker and Pusher Settings
C-01 Fuel Tank Integrity /Fuel Tank Access Covers
C-04 Yawing Manoeuvring Conditions
D-02 High Altitude Operations/High Heat Loads
D-04 Side Facing Seats / Sofas
D-12 Pilot compartment view – Hydrophobic coatings in lieu of windshield wipers
D-14 Use of Magnesium Alloy in the Cabin
E-06 Uncontrollable high thrust
E-08 Falling and blowing snow
F-02 Towbarless Towing
F-05 Application of ARAC Proposal 25.671
F-12 HIRF Protection
F-13 Lightning Protection; Direct Effects
F-14 Lightning Protection; Indirect Effects

6. Exemptions
N/A

7. Deviations
E-13 Wing Anti Ice Deviation (see note 5)
F-42 “Speed Brakes Extended” caution message during steep approach landings (not applicable for aircraft which has MOD G25-10074 or SB 280-34-273 installed)

8. Equivalent Safety Findings
D-05 Emergency Exit Locator Signs / Marking Signs
D-06 Flammability of thermal and acoustical Insulation Materials
D-08 Fuselage Doors, Hatches and Exits
D-10 Pilot compartment view – Hydrophobic coatings reliability
D-13 Emergency Exit markings Emergency Lighting
E-02 Digital only N2 Indication
E-10 APU mounting system fireproofness
E-11 Resistance to fire of APU compartment
E-15 Turbine Engine Tailpipe Fire Detection
F-15 External LED Navigation Lights

9. Environmental Protection
Noise level:
ICAO Annex 16, Volume I, Amendment 12, Chapter 14 for Noise

Fuel and exhaust emmisions:

SECTION 1: Gulfstream G280 - continued

ICAO Annex 16, Volume II (Third Edition), Amendment 6

10. Operational Suitability Requirements
Master Minimum Equipment List (MMEL)
Certification basis as recorded in ORI 4 is JAR-MMEL Section 1 Subpart A and B Amendment 1 with the MoC specified in GALP position in the same ORI4

11. Operational Suitability Requirements
Flight Crew Data (FCD)
CS-FCD, Initial Issue

12. Operational Suitability Requirements
Cabin Crew Data (CCD)
N/A

13. Operational Suitability Requirements
Simulator Data (SIMD)
N/A

14. Operational Suitability Requirements
Maintenance Certifying Staff Data (MSCD)
N/A

III. Technical Characteristics and Operational Limitations

1. Type Design Definition
The type design defined by GALP document 30P000999900 Revision A and report 30P000/120060 Revision “New” or latest CAAI approved revisions of these documents.

2. Description
The Gulfstream G280, manufactured by Israel Aerospace Industries Ltd. (IAI) under license by the Type Certificate holder Gulfstream Aerospace LP (GALP), is a super mid-size business jet. It has a low, high swept airfoil, T-tail with trim able horizontal stabilizer and tricycle landing gear. It is a long range, high altitude, and high-speed aircraft with a range of 3600 NM at the long range cruise speed of 0.80M (with a typical passenger payload of 4), and a 45,000 ft maximum operating altitude. Two Honeywell AS907-2-1G (HTF7250G variant) turbofan engines with 34.54 kN (7,765 lbf) maximum continuous thrust, with reverse thrust capability, are rear fuselage mounted on pylons. The main landing gear is an inboard retracting, cantilever type and features two braked wheels per axle. The nose landing gear is a forward retracting, cantilever type and features two free rolling wheels. At initial certification, the maximum take-off weight (MTOW) for the aircraft is 17,962 kg (39,600 lb), and maximum landing weight (MLW) is 14,832 kg (32,700 lb).

The aircraft is certified in the “green” configuration with baggage compartment interior (but no passenger compartment interior) only. Approval of the passenger compartment interior will be independently accomplished under a Supplemental Type Certificate

SECTION 1: Gulfstream G280 - continued

3. Equipment
The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. The list of all such equipment supplied by the manufacturer with each aircraft is contained in the “G280 Master Equipment List” report no. 30P000/110634 Revision A or latest CAAI approved revision.
As the TC standard is a “Green” aircraft GALP has prepared Report 30P090/060643 Rev D "G280 Certification Specifications for Green aircraft Completion Center interface" or later approved revisions, as part of the Green Aircraft type design data.

4. Dimensions

Wingspan	19.21 meters [63 feet]
Fuselage length	20.39 meters [66.9 feet]
Fuselage Constant Diameter	2.29 meters [7.5 feet]

5. Engines
Two (2) Honeywell AS907-2-1G Turbofan Engines per EASA Type Certificate Data sheet IM.E.058 issue 05 from February 22, 2017.
Engine Limits:

Engine Limits Data Sheet EASA IM.E.058	G280 AS907-2-1G
Static thrust at sea level (Standard Day)	
Maximum continuous	32.63 kN (7,337 lbs)
Maximum Takeoff	34.54 kN (7,765 lbs)
Normal Takeoff	33.03 kN (7,425 lbs)

Other engine limitations: See the relevant Engine Type Certificate Data Sheet

6. Auxiliary Power Unit
One (1) Honeywell 36-150
Limitations and Operating Procedures - refer to EASA approved Gulfstream G280 Airplane Flight Manual (AFM) (see “Operating and Service Instructions” section for EASA approved revision)

7. Propellers
N/A

8. Fluids (Fuel, Oil, Additives, Hydraulics)
Engine Fuels: See the EASA approved Gulfstream G280 Airplane Flight Manual (AFM) for approved engine fuels (see “Operating and Service Instructions” section for EASA approved revision)

Engine Oils: See the EASA approved Gulfstream G280 Airplane Flight Manual (AFM) for approved engine oils (see “Operating and Service Instructions” section for EASA approved revision)

Hydraulic Fluids: See the Gulfstream G280 Maintenance Manual for approved hydraulic fluids (see “Operating and Service Instructions” section for EASA approved revision)

SECTION 1: Gulfstream G280 - continued

9. Fluid Capacities

Tanks	Usable Fuel			
	U.S. Gallons	Pounds*	Litres	Kilograms*
LH feed tank	79	530	299	239
LH wing tank	648	4,340	2,453	1,962
Centre tank	319	2,140	1,208	966
AFT tank	169	1,130	640	512
FWD tank	240	1,610	908	726
RH feed tank	79	530	299	239
RH wing tank	648	4,340	2,453	1,962
TOTAL	2,182	14,620	8,260	6,608

* Fuel Density is 6.7 Pounds / U.S. Gallon and 0.8 Kilograms / Litre

10. Airspeed Limits

V_{MO} / M_{MO}	**K_{IAS}**	**MACH**
Sea Level to 10,000 ft	300	-
10,000 ft to 20,000 ft	300-330	-
20,000 ft to 28,000 ft	340	-
28,000 ft to 45,000 ft	-	0.85M
V_A		
Sea Level to 20,000 ft	215-225	-
20,000 ft to 35,000 ft	225-264	-
35,000 ft to 39,000 ft	264	-
39,000 ft to 45,000 ft	-	0.85M
V_{FE}		
FLAPS 10	250	-
FLAPS 20	220	-
FLAPS LND	180	-
V_{LO} / V_{LE}	195	-

For other airspeed limitations see the approved Gulfstream G280 Airplane Flight Manual (AFM)
(see “Operating and Service Instructions” section for EASA approved revision)

11. Flight Envelope
Maximum Operating Altitude: 45,000 ft
See the EASA approved Gulfstream G280 Airplane Flight Manual (AFM)
(see “Operating and Service Instructions” section for EASA approved revision)

12. Operating Limitations

12.1 Approved Operations
See the EASA approved Gulfstream G280 Airplane Flight Manual (AFM)
(see “Operating and Service Instructions” section for EASA approved revision)
12.2 Other Limitations
none

SECTION 1: Gulfstream G280 - continued

13. Maximum Certified Masses

Maximum Taxi Weight	Maximum Take-off Weight	Maximum Landing Weight	Maximum Zero Fuel Weight
39,750 lb	39,600 lb	32,700 lb	28,200 lb
18,030 kg	17,962 kg	14,832 kg	12,791 kg

Note: The maximum weight limits may be less as limited by centre of gravity, fuel density and fuel loading limits, as given in the EASA approved Airplane Flight Manual (See Section 1).

See the approved Gulfstream G280 Airplane Flight Manual (AFM)
(see "Operating and Service Instructions" section for EASA approved revision)

14. Centre of Gravity Range
See the approved Gulfstream G280 Airplane Flight Manual (AFM)
(see "Operating and Service Instructions" section for EASA approved revision)

15. Datum
For weight and balance purposes, the zero datum is 5.633 m [221.77 inches] forward of the aft frame of main entrance.

16. Mean Aerodynamic Chord (MAC)
2.868 meters [112.92 inches] with leading edge at Fuselage Station 10305

17. Levelling Means
Longitudinal: place level on either seat rail at fuselage station 10534 (frame 34) parallel to aircraft centreline.
Lateral: place level on seat rail at cockpit floor fuselage station 4518 (frame 10) 90° to aircraft line.

18. Minimum Flight Crew
Two (2): Pilot and Co-pilot.

19. Minimum Cabin Crew
(in accordance with the emergency evacuation test)
N/A

20. Maximum Seating Capacity
Total number of occupants shall not exceed 21. The number of passengers shall not exceed 19 as determined by emergency exit requirements, nor shall the number of passengers exceed the number of seating accommodations approved for takeoff and landing.

21. Baggage/ Cargo Compartment
The baggage compartment is certified Class B. Weight limitations placards are posted on the installed baggage compartment interior.

SECTION 1: Gulfstream G280 - continued

Refer to the Weight and Balance section of the EASA approved Gulfstream G280 Airplane Flight Manual (AFM)
(see "Operating and Service Instructions" section for EASA approved revision)

22. Wheels and Tyres

Main Landing Gear (MLG)	Each MLG incorporates twin 14 inch rims and 26X6.6/14PR tyres.
Nose Landing Gear (NLG)	The NLG incorporates twin 10 inch rims and 18X4.4/12PR tyres.

Note:- The use of Re-treaded tyres is not approved.

23. ETOPS
N/A

IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)
Gulfstream G280 Airplane Flight Manual (P/N G280-1003-1) Issue 2 Revision 0 and EASA Flight Manual Supplement 7, dated 31 May, 2017 or later approved revisions, for aircraft with FADEC version V2G
Gulfstream G280 Airplane Flight Manual (P/N G280-1002-1) Issue 1 Revision 0 and EASA Flight Manual Supplement 7, dated November, 2015 or later approved revisions, for aircraft with avionics software version 3.6
Gulfstream G280 Airplane Flight Manual (P/N G280-1001-1) Issue 0, Revision 7, and EASA Flight Manual Supplement 7, dated February 2015 or later approved revisions for aircraft with avionics software version 3.2.1.

2. Instructions for Continued Airworthiness and Airworthiness Limitations
Gulfstream G280 Maintenance Manual (P/N G280-1001-3) Basic Issue, Revision 1, dated 24 October, 2012 or later approved revision

- Chapter 5-10-10 of the Gulfstream G280 Maintenance Manual (P/N G280-1001-3), contains the Airworthiness Limitations Section required by 14 CFR part 25 appendix H25.4.

- Revisions to the Chapter 5-10-10 must be EASA approved prior to incorporation into the maintenance program of airplanes operated under the type certificate.

- The Chapter 5-10-10 includes the following sections:
  - Airworthiness Limitations Section
  - Life Limited Components
  - Certification Maintenance Requirements (CMR)
  - Fuel Tank System Airworthiness Limitations
  - Fuel Tank System Critical Design Configuration Control Limitations (CDCCL)
  - Temporary Limitations and Inspection Requirements

Changes, Repairs, Service Bulletins, Continuing Airworthiness Instructions, including Airworthiness Directives (AD's) Approved Manuals, have to be approved in accordance with the Working

SECTION 1: Gulfstream G280 - continued

arrangement between CAAI and EASA, Appendix 2 “Changes to Type Certificates” dated 22 November 2004 or later ratified revisions, taking into account the EASA Certification Basis and the EASA approved Type Design of the aeroplane.

3. Weight and Balance Manual (WBM)
Refer to the "Weight and Balance" section of the approved Airplane Flight Manual (AFM) (see "Operating and Service Instructions" section for EASA approved revision).

V. Operational Suitabilita Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.IM.A.348 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014

1. Master Minimum Equipment List (MMEL)
The MMEL is defined in G280 EASA MMEL Rev.0 dated 12/02/2013 or later approved revisions.

2. Flight Crew Data (FCD)
The Flight Crew Data is defined in Gulfstream Operational Suitability Data (OSD) Flight Crew – Gulfstream/GALP G280 Revision 1 (dated 09 May 2017) or later approved revisions.

3. Cabin Crew Data (CCD)
N/A

4. Simulator Data (SIMD)
N/A

5. Maintenance Certifying Staff Data (MSCD)
N/A

VI. Part-26 Compliance Information

Compliance with point 26.300(a) of Part-26 (REGULATION (EU) 2020/1159 dated 5 August 2020) is demonstrated by complying with points:

26.301 Compliance Plan for (R)TC holders
26.304 Corrosion prevention and control programme
26.305 Validity of Continuing Structural Integrity Program

VII. Notes

Note 1 GALP letter CAAI/11140/BM, dated July 18, 2011 provides notification of a model designation change from G250 to G280. Some EASA special conditions, CRI's, and equivalent

SECTION 1: Gulfstream G280 - continued

safety finding memorandums issued prior to this date include the G250 model designation but are fully applicable to the Model Gulfstream G280.

Note 2 The type design defined by GALP drawings 30P000999900-501 Revision A or later approved revision and report 30P000/120060 Revision New or later approved revision includes approved seating for pilot and co-pilot only, and has peculiar provisions and limitations linked to this limited occupancy. A forward observer seat is not included in the approved type design.

Modifications intended to expand occupancy provisions to other than pilot and copilot seating approved under the TC must be approved. Certification guidance for interior installations is provided in GALP report 30P090/060643 Rev. D or later approved revision, "G280 Certification Specification for the Green Aircraft Completion Centre Interface."

Note 3 All required placards listed in the Limitations Section of the approved EASA Airplane Flight Manual must be installed in the appropriate locations in the airplane.

Note 4 Israel Aerospace Industries (IAI) LTD., Ben Gurion International Airport 70100, ISRAEL, is licensed by GULFSTREAM AEROSPACE LP to manufacture and obtain Airworthiness Certificates for the aircraft models listed in this Type Certificate Data Sheet.

Note 5 In accordance with the EASA Decision contained in Certification Review Items E-13 for Time-limited Deviation from certain engine installation operational limitation and engine indication provisions: no aircraft may operate after February 07, 2015 unless production modification G25-10022 or its associated service bulletin 280-30-017, and production modification G25-20061 or its associated service bulletin 280-76-111 are incorporated.

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

A/C	Aircraft
AFM	Airplane Flight Manual
AMC	Acceptable Means of Compliance
APU	Auxiliary Power Unit
CG	Center of Gravity
CRI	Certification Review Item
EASA	European Aviation Safety Agency
EFB	Electronic Flight Bag
EU	European Union
FAA	Federal Aviation Administration
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
IFR	Instrument Flight Rules
JAA	Joint Aviation Authorities
MMEL	Master Minimum Equipment List
NPA	Notice of Proposed Amendment
OSD	Operational Suitability Data
RR	Rolls Royce
RVSM	Reduced Vertical Separation Minima
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise
VFR	Visual Flight Rules

II. Type Certificate Holder Record

Gulfstream Aerospace LP

III. Change Record

Issue	Date	Changes	TC issue
Issue 01	07 February 2013	Initial Issue	Initial Issue, 07 February 2013
Issue 02	08 May 2015	Introduction of OSD information, reference to EASA AFM approvals and TC Holder Address Change	
Issue 03	27 June 2016	Added additional AFM related to avionics software version 3.6 Administrative revision of the table of content	
Issue 04	06 June 2017	Updated certification base in respect to steep approach landings capability (added CRI F-42 and elect to comply CS 25, Amdt. 13, Appendix Q) Added Revision 1 of OSD FCD Added additional AFM (Issue 2) related to FADEC version V2G Added additional AFM (Issue 2) related to FADEC version V2G	

Issue 05	10 December 2020	Used new template noise levels, changed from chapter 4 to 14 CS-25 Appendix Q for SAL moved from “elect to comply” to “EASA Airworthiness requirements” Type design definition revised	
Issue 06	26 May 2025	III./4. Dimensions, typo corrected Revised applicability of deviation F-42 II./4. EASA Airworthiness Requirements updated VI. Part-26 Compliance Information added	

-END-