Embraer ERJ-170



TYPE-CERTIFICATE DATA SHEET

No. EASA.IM.A.001

for

EMBRAER ERJ-170

Type Certificate Holder:

Embraer S.A.

Av. Brig. Faria Lima. 2170

12227-901 São Jose dos Campos SP

Brazil

For Models: ERJ 170-100 STD, ERJ 170-100 LR, ERJ 170-200 STD, ERJ 170-200 LR



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SECTION 1: EMBRAER ERJ 170-100 VARIANT

I. General

1.	Type/ Model/ Variant:	Embraer ERJ 170-100
2.	Performance Class:	A

3.	Certifying Authority:	Agência Nacional De Aviação Civil - ANAC Gerência Geral de Certificação de Produtos Aeronáuticos <u>Rua Dr. Orlando Feirabend Filho, 230 -</u> <u>Centro Empresarial Aquarius</u> Torre B Andares 14 a 18, Parque Residencial <u>Aquarius,</u> 12.246-190 - São José dos Campos - SP
4.	Manufacturer:	<u>Embraer</u> S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brasil
5.	ANAC Certification Application Date:	27 May 1999

- 6. JAA Validation Application Date: 21 May 1999 (Reference date for EASA validation)
- ANAC Type Certification Date: 19 February 2004
 EASA Type Validation Date: 20 February 2004 (JAA recommendation)

II. Certification Basis

- 1. ANAC Type Certification Data Sheet No.: 2003T05
- 2. ANAC Certification Basis:

RBHA 25 - Requisitos de Aeronavegabilidade. Avioes de Transporte (Airworthiness Standards, Transport Category Airplanes), corresponding to U.S. FAR part 25, including amendments 25-1 through 25-109, except section 25.981(c) of Amdt. 25-102, Amdt. 25.106 and section 25.735 (h) of Amdt. 25-107. (Reference to FCAR HT-01)

3. EASA Airworthiness Requirements

3.1. Applicable JAR Requirements at the Reference Date:

JAR-25 Change 14 (Effective 27 May 1994) Orange Paper OP96/1 JAR-AWO Change 2 JAA Temporary Guidance Leaflet No. 6 (RVSM) JAA Temporary Guidance Leaflet No.8 (ACAS II)



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The following NPAs have been applied:

NPA 25 B, D, G-244	Accelerate Stop Distances and Related Performances
NPA 25B215	Stall/Stall Warning Speeds and Manoeuvre Capability
NPA 25B-238	Flap Gates
NPA AWO 2	All Weather Operations
NPA AWO 5	All Weather Operations
NPA 25B, C, D-236	Flutter, Deformation and Fail Safe Criteria
NPA 25 G-255	Aircraft Flight manual
NPA 25C-260	Loads Harmonisation
NPA 25C-271	Fatigue Scatter factors
NPA 25D-279	Shock Absorption Tests
NPA 25C-282	Amendments to Gust Conditions
NPA 25E,J-287	Engine Rotor Burst

3.2. Reversions:

None Identified

4. Special Conditions

The following Special Conditions have been applied.

JAA/170/SC/CRI B-12	Angle of Attack Limiting Function
JAA/170/SC/CRI B-15	Electronic Flight Control System: Control Surface
	Position Awareness
JAA/170/SC/CRI C-03	Interaction of systems and Structure
JAA/170/SC/CRI C-15	Structural/Control Jam Conditions
JAA/170/SC/CRI C-17	Static Strength Criteria for Engine Failure Loads
JAA/170/SC/CRI D-02	Towbarless Towing
JAA/170/SC/CRI E-08	Engine Sustained Imbalance
JAA/170/SC/CRI E-10	Uncontrolled Thrust Increase
JAA/170/SC/CRI F-01	Protection from the effects of HIRF
JAA/170/SC/CRI F-14	Air Data System (Smart Probes)
JAA/170/SC/CRI F-16	IRS: Align in Motion
EASA/170/SC/CRI 170/H-01	Enhanced Airworthiness Programme for Aeroplane
	Systems - ICA on EWIS

5. Exemptions

No exemptions have been granted.

6. Equivalent Safety Findings

The following Equivalent Safety Findings have been granted:

JAA/170/ES/CRI B-17 Performance information for take-off on contaminated Runways Equivalent Safety with JAR 25x1591and AMJ 25x1591 (Issue 8 dated 19 October 2009): JAR 25x1591 and AMJ 25x1591 superseded by CS-25.1591 and AMC 25.1591 at Amdt 2



JAA/170/ES/CRI C-04	Vibration Buffet and Aeroelastic Stability
	Equivalent Safety with JAR 25.629 and NPA 25BCD-236
JAA/170/ES/CRI C-09	Design Diving Speeds
	Equivalent Safety with JAR 25.335(b)(2)
JAA/170/ES/CRI C-21	
	Equivalent Safety with JAR 25.963(d) and JAR 25.561
JAA/170/ES/CRI D-05	Hydraulic Systems
	Equivalent Safety with JAR 25.1435
JAA/170/ES/CRI D-06	Wheels and Brakes
	Equivalent Safety with JAR 25.731 and JAR 25.735
JAA/170/ES/CRID-07	Fuselage Doors
	Equivalent Salety with JAR 25.783
JAA/170/ES/CRID-17	Type and Number of Passenger Emergency Exits
	Equivalent Salety with JAR 25.783, 25.785, 25.807,
	23.609, 23.611, 23.612, 23.613, and 23.620
JAA/170/ES/CRID-10	Facks OII Take OII
	Equivalent Salety with JAR 25.051(a)
JAA/170/ES/CRI D-19	Reinorceu Security Cockpit Door Equivalant Safaty with IAP 25 205(b) 25 207(a) 25 256
	25,771,25,772,25,780(a),25,803,25,800,25,831
	25.771, 25.772 , $25.709(a)$, 25.005 , 25.009 , 25.051 , 25.853(a), 25.1301 , and 25.1309
144/170/ES/CRI E-02	Thrust Reverser Operation
	Equivalent Safety with IAR 25 933(a)
1AA/170/ES/CRI E-09	Equivalent Galety with 0/17 20.000(a)
	Equivalent Safety with JAR 25 1181(a)(6)
JAA/170/FS/CRI F-12	Equipment Systems and Installation Requirements
0,00,00,00,00,00	Equivalent Safety with JAR NPA 25F-281
JAA/170/ES/CRI F-26	Honewell Primus EPIC Integrated Modular Avionics
	System (Compliance with requirements for individual
	circuit protection)
	Equivalent Safety with JAR 25.1357(e) and JAR 25.1309
JAA/170/ES/CRI F-30	Position Light Intensities
	Equivalent Safety with JAR 25.1389(b), 25.1391,
	25.1393, and 25.1395
JAA/170/ES/CRI J-05	APU Installation
	Equivalent Safety with JAR 25 Subpart J
JAA/170/ES/CRI J-06	APU Instrument Markings
	Equivalent Safety with JAR 25J.1549

7. Environmental Protection Standards

Noise: ICAO Annex 16, Volume I (Third Edition) Fuel: ICAO Annex 16, Volume II (Second Edition)



8. EASA Operational Suitability Data

The EASA Type Certification with respect to Operational Suitability Data (OSD) is defined as follows:

- MMEL: As per CRI A-MMEL, the applicable certification basis for the establishment of Operational Suitability Data (OSD) MMEL is: JAR MMEL/MEL Amendment 1, Section 1 with CS-MMEL Book 2 Initial issue as AMC/GM.
- FCD: As per CRI A-FCD, the applicable certification basis for the establishment of Operational Suitability Data (OSD) Flight Crew is: CS-FCD, Initial Issue, dated 31 January 2014.
- CCD: As per CRI A-CCD, the applicable certification basis for the establishment of Operational Suitability Data (OSD) Cabin Crew is: CS-CCD, Initial Issue, dated 31 January 2014.



III. Technical Characteristics and Operational Limitations

1.	Production Basis:	Manufactured under <u>Production Certificate (ANAC COP</u> <u>E-7203-1)</u>	
2.	Type Design Definition:	Defined by Report 170-100TDSD_01 "Type Design Standard Document" at Revision B	
3.	Description	Low wing jet transport with a conventional tail unit configuration, powered by two high bypass turbofan engines mounted on pylons beneath the wings.	
		The structure is conventional, with an aluminum-alloy fuselage, wing, tail-plane and fin; while ailerons, flaps, spoilers, elevator, and rudder are of composite material. The landing gear is retractable tricycle type, and twin wheeled, with carbon main landing gear wheel brakes.	
4.	Equipment:	Required equipment is listed in Embraer Document Reference 170CCC003: Embraer ERJ 170 Build Standard for Airplanes to be Delivered to European Countries"	
5.	Dimensions	Length 29.9 m (98 ft 1 in) Span 26.0 m (85 ft 4 in) Height 9.82 m (32 ft 3 in) Wing Area 72.72 m ² (783 ft ²)	
6.	Engines:	Two General Electric CF-34-8E5 or -8E5A1 Turbofan Engines	
		Limitations: See JAA Engine Type Data Sheet No. JAA/E/00-23 or Airplane Flight Manual	
7.	Auxiliary Power Unit:	Hamilton Sundstrand APS2300 Limitations: Refer to the APU TCDS / TSO	
8.	Propellers:	N/A	
9.	Fluids (Fuel, Oil, Additives, Hydraulics):	Refer to applicable approved manuals	
10.	Fluid Capacities:	Refer to applicable approved manuals	
11.	Airspeed Limits:	See Airplane Flight Manual	
12.	Maximum Operating Altitude:	12, 497 m (41,000 ft) pressure altitude	
13.	All Weather Capability:	Cat II/Cat III optional * * If post-mod SB 170-22-0001 or equivalent manufacturer production modification	



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14. Maximum Certified Masses:

Phase	170-100 LR		170-100 STD	
Taxi and Ramp	82364 lb.	37360 kg	79696 lb	36150 kg
		38760 kg ⁽⁶⁾		38760 kg ⁽⁶⁾
Take-off	82011 lb.	37200 kg ⁽¹⁾	79344 lb	35990 kg
		34850 kg ⁽²⁾		38600 kg ⁽⁶⁾
		35990 kg ⁽⁴⁾		34000 kg ⁽⁷⁾
		38600 kg ⁽⁶⁾		
		34000 kg ⁽⁸⁾		
Landing	72310 lb.	32800 kg	72310 lb	32800kg
_		33300 kg ⁽³⁾⁽⁶⁾		33300 kg ⁽³⁾⁽⁶⁾
Zero Fuel	65256 lb.	29600 kg	65256 lb	29600 kg
		30140 kg ⁽⁵⁾		30140 kg ⁽⁵⁾
		30900 kg ⁽⁶⁾		30900 kg ⁽⁶⁾

⁽¹⁾ Standard weight or if post-mod SB 170-00-0006 is applied

⁽²⁾ If post-mod SB 170-00-0005 or if post-mod SB 170-00-0015

(3) If post-mod SB 170-00-0003

(4) If post-mod SB 170-00-0014

⁽⁵⁾ For airplanes S/N 17000059, 17000065 and on or post-mod SB 170-00-0024

⁽⁶⁾ If post-mod SB 170-00-0016

⁽⁷⁾ If post-mod SB 170-00-0022

⁽⁸⁾ For airplanes Post-Mod. SB 170-00-0055 or equipped with an equivalent modification factory incorporated.

- 15. Centre of Gravity Range: See Airplane Flight Manual
- 16. Datum:

A perpendicular plane to the fuselage center line located 11650,0 mm in front of the Wing Stub Spar 1. This spar is located 372,6 mm forward of the wing jacking points.

- 17. Mean Aerodynamic Chord: 3.194 m (10ft. 6 in.) (MAC)
- 18. Levelling Means: See Weight and Balance Manual
- 19. Minimum Flight Crew: Two (Pilot and Co-pilot) for all types of flight
- 20. Maximum Seating Capacity: 80 Passengers
- 21. Exits:

	Number	Туре	Size mm (inches)
1 Main Fwd LH	1	Type I	750 mm (w) x 1821 mm (h)
2 Main Aft LH	1	Type I	635 mm (w) x 1801 mm (h)
3 Service (Fwd, RH)	1	Type I	611 mm (w) x 1368 mm (h)
4 Service (Aft RH)	1	Type 1	632 mm (w) x 1381 mm (h)

Additionally, for crew emergency evacuation purposes, the following exits are available on both sides:

Cockpit side window (2)	Flight Crew Emergency Exit	483 mm x 508 mm
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22. Baggage/ Cargo Compartment

Location	Class	Volume m ³ (ft ³)
Front Fwd (Underfloor)	С	8,7 m ³ (306 ft ³)
Rear Aft (Underfloor)	С	5,8 m ³ (204 ft ³)

23. Wheels and Tyres

Nose Assy (Qty 2)Tyre/Wheel: 24 x 7.7 12PRMain Assy (Qty 4)Tyre/Wheel: H38 x 13.0-18 18PR or 20PRSpeed Rating: 225 mph

IV. Operating and Servicing Instructions

- 1. Flight Manual: Airplane Flight Manual, Document No. AFM 1479
- 2. Mandatory Maintenance Instructions:
 - 2.1 Aircraft Maintenance Manual (Customised to aircraft configuration)
 - 2.2 Maintenance Review Board Report Ref: MRB 1621, Revision 1 or Subsequent JAA approved revision
 - 2.3 Airworthiness Limitations and Certification Maintenenance Requirements:
 - MRB Report: Appendix A Part 1 (Certification Maintenance Requirements) Appendix A Part 2 (Structural Inspection Fatigue Limits ALI) Appendix A Part 3 (Fuel System Limitation Items - FSL) Appendix A Part 4 (Airframe Life Limits – ALL)
 - 2.4 Structural repair manual SRM-1583 is applicable.
- 3. Service Letters and Service Bulletins as published by Embraer and approved by ANAC.



V. Operational Suitability 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.001 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

- 1. Master Minimum Equipment List
 - a. The Master Minimum Equipment List has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-MMEL and as documented in Embraer 170/175/190/195 EASA Master Minimum Equipment List MMEL-5814, Revision Original, December 2015, or later approved revisions.
 - b. Required for entry into service by EU operator.
- 2. Flight Crew Data
 - a. The Flight Crew data has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-FCD and as documented in EASA Operational Suitability Data (OSD) Flight Crew - ERJ 170/190 Report 170MSO092, Orig. Revision, dated 04 December 2015, or later approved revisions.
 - b. Required for entry into service by EU operator.
 - c. Pilot Type Rating: The licence endorsement for the ERJ 170-100 models aircraft is "EMB170". The ERJ 170 and the ERJ 190 series aircraft are variants of the same type of aircraft.
- 3. Cabin Crew Data
 - a. The Cabin Crew data has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-CCD and as documented in Embraer 170/175/190/195 Operational Suitability Data Report, Cabin Crew Qualifications -Revision 2, dated 12 June 2014, or later approved revisions.
 - b. Required for entry into service by EU operator.
 - c. The Embraer 170/175 aircraft models are determined to be variants to the Embraer 190/195 aircraft models.

VI. Notes

Reserved



SECTION 2: EMBRAER ERJ 170-200 VARIANT

I. General

1.	Type/ Model/ Variant:	Embraer ERJ 170-200
2.	Performance Class:	A
3.	Certifying Authority:	Agência Nacional De Aviação Civil - ANAC Gerência Geral de Certificação de Produtos Aeronáuticos <u>Rua Dr. Orlando Feirabend Filho, 230 -</u> <u>Centro Empresarial Aquarius</u> <u>Torre B Andares 14 a 18, Parque Residencial</u> <u>Aquarius,</u> 12.246-190 - São José dos Campos - SP
4.	Manufacturer:	<u>Embraer</u> S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brasil
5.	ANAC Certification Application Date:	01 September 2000
6.	JAA Validation Application Date: (Reference date for EASA validation)	01 September 2000
7.	ANAC Type Certification Date:	22 December 2004
8.	EASA Type Validation Date: (JAA recommendation)	07 January 2005

II. Certification Basis

- 1. ANAC Type Certification Data Sheet No.: 2003T05 (Issue 03)
- 2. ANAC Certification Basis:

RBHA 25 - Requisitos de Aeronavegabilidade Avioes de Transporte (Airworthiness Standards Transport Category Airplanes), corresponding to U.S. FAR part 25, including amendments 25-1 through 25-109, except section 25.981(c) of Amdt. 25-102, Amdt. 25.106 and section 25.735 (h) of Amdt. 25-107. (Reference to FCAR HT-01).

3. EASA Airworthiness Requirements

3.3. Applicable JAR Requirements at the Reference Date:

JAR-25 Change 14 (Effective 27 May 1994) Orange Paper OP96/1 JAR-AWO Change 2



The following NPAs have been applied:

Accelerate Stop Distances and Related Performances Stall/Stall Warning Speeds and Manoeuvre Canability
Flap Gates
All Weather Operations
Flutter, Deformation and Fail Safe Criteria
Aircraft Flight manual
Loads Harmonisation
Fatigue Scatter factors
Shock Absorption Tests
Amendments to Gust Conditions
Engine Rotor Burst

3.4. Reversions:

None Identified

4. Special Conditions

The following Special Conditions have been applied.

JAA/170/SC/CRI B-12	Angle of Attack Limiting Function
JAA/170/SC/CRI B-15	Electronic Flight Control System: Control Surface
	Position Awareness
JAA/170/SC/CRI C-03	Interaction of systems and Structure
JAA/170/SC/CRI C-15	Structural/Control Jam Conditions
JAA/170/SC/CRI C-17	Static Strength Criteria for Engine Failure Loads
JAA/170/SC/CRI D-02	Towbarless Towing
JAA/170/SC/CRI E-08	Engine Sustained Imbalance
JAA/170/SC/CRI E-10	Uncontrolled Thrust Increase
JAA/170/SC/CRI F-01	Protection from the effects of HIRF
JAA/170/SC/CRI F-14	Air Data System (Smart Probes)
JAA/170/SC/CRI F-16	IRS: Align in Motion
EASA/170/SC/CRI 170/H-01	Enhanced Airworthiness Programme for
	Aeroplane Systems - ICA on EWIS

5. Exemptions

No exemptions have been granted.

6. Equivalent Safety Findings

The following Equivalent Safety Findings have been granted:

JAA/170/ES/CRI B-17 Performance information for take-off on contaminated Runways Equivalent Safety with JAR 25x1591and AMJ 25x1591 (Issue 8 dated 19 October 2009): JAR 25x1591 and AMJ 25x1591 superseded by CS-25.1591 and AMC 25.1591 at Amdt 2



JAA/170/ES/CRI C-04	Vibration Buffet and Aeroelastic Stability
	Equivalent Safety with JAR 25.629 and NPA 25BCD-236
JAA/170/ES/CRI C-09	Design Diving Speeds
	Equivalent Safety with JAR 25.335(b)(2)
JAA/170/ES/CRI C-21	Fuel Tank Crashworthiness
	Equivalent Safety with JAR 25.963(d) and JAR 25.561
JAA/170/ES/CRI D-05	Hydraulic Systems
	Equivalent Safety with JAR 25.1435
JAA/170/ES/CRI D-06	Wheels and Brakes
	Equivalent Safety with JAR 25.731 and JAR 25.735
JAA/170/ES/CRI D-07	Fuselage Doors
	Equivalent Safety with JAR 25.783
JAA/170/ES/CRI D-17	Type and Number of Passenger Emergency Exits
	Equivalent Safety with JAR 25.783, 25.785, 25.807,
	25.809, 25.811, 25.812, 25.813, and 25.820
JAA/170/ES/CRI D-18	Packs Off Take Off
	Equivalent Safety with JAR 25.831(a)
JAA/170/ES/CRI D-19	Reinforced Security Cockpit Door
	Equivalent Safety with JAR 25.305(b), 25.307(a), 25.356,
	25.771, 25.772, 25.789(a), 25.803, 25.809, 25.831,
	25.853(a), 25.1301, and 25.1309
JAA/170/ES/CRI E-02	Thrust Reverser Operation
	Equivalent Safety with JAR 25.933(a)
JAA/170/ES/CRI E-09	Fan Case Fire Zone
	Equivalent Safety with JAR 25.1181(a)(6)
JAA/170/ES/CRI F-12	Equipment, Systems and Installation Requirements
	Equivalent Safety with JAR NPA 25F-281
JAA/170/ES/CRI F-26	Honewell Primus EPIC Integrated Modular Avionics
	System (Compliance with requirements for individual
	circuit protection)
	Equivalent Safety with JAR 25.1357(e) and JAR 25.1309
JAA/170/ES/CRI F-30	Position Light Intensities
	Equivalent Safety with JAR 25. 1389(b), 25.1391,
	25.1393, and 25.1395
JAA/170/ES/CRI J-05	APU Installation
	Equivalent Safety with JAR 25 Subpart J
JAA/170/ES/CRI J-06	APU Instrument Markings
	Equivalent Safety with JAR 25J.1549
CRI F-48	LED position lights system overlap exceedance
	Equivalent safety with JAR 25 Amdt 14 + OP 25/96/1,
	§25.1389(b)(3) and 25.1395 for aircraft embodied with
	Enhanced Wing Tip (ref. DCA 0170-000-00088-2012)

7. Environmental Protection Standards

Noise: ICAO Annex 16, Volume I (Third Edition) ICAO Annex 16, Volume II (Second Edition) Fuel:



8. EASA Operational Suitability Data

The EASA Type Certification with respect to Operational Suitability Data (OSD) is defined as follows:

- MMEL: As per CRI A-MMEL, the applicable certification basis for the establishment of Operational Suitability Data (OSD) MMEL is: JAR MMEL/MEL Amendment 1, Section 1 with CS-MMEL Book 2 Initial issue as AMC/GM.
- FCD: As per CRI A-FCD, the applicable certification basis for the establishment of Operational Suitability Data (OSD) Flight Crew is: CS-FCD, Initial Issue, dated 31 January 2014.
- CCD: As per CRI A-CCD, the applicable certification basis for the establishment of Operational Suitability Data (OSD) Cabin Crew is: CS-CCD, Initial Issue, dated 31 January 2014.



III. Technical Characteristics and Operational Limitations

1.	Production Basis:	Manufactured under Production Certificate (ANAC COP E-7203-1)		
2.	Type Design Definition:	Defined by Report 170-200TDSD "Type Design Standard Document" at Revision A		
3.	Description	Low wing jet transport with a conventional tail unit configuration, powered by two high bypass turbofan engines mounted on pylons beneath the wings.		
		The structure is conventional, with an aluminum-alloy fuselage, wing, tail-plane and fin; while ailerons, flaps, spoilers, elevator, and rudder are of composite material. The landing gear is retractable tricycle type, and twin wheeled, with carbon main landing gear wheel brakes.		
4.	Equipment:	Required equipment is listed in Embraer Document Reference 170CCC003: Embraer ERJ 170 Build Standard for Airplanes to be Delivered to European Countruies" Issue A or later is applicable to ERJ 170-200.		
5.	Dimensions	Length 31.68 m (103 ft 11 in) Span 26.0 m (85 ft 4 in) Height 9.82 m (32 ft 3 in) Wing Area 72.72 m ² (783 ft ²)		
6.	Engines:	Two General Electric CF-34-8E5 or -8E5A1 Turbofan Engines		
		Limitations: See JAA Engine Type Data Sheet No. JAA/E/00-23 or Airplane Flight Manual		
7.	Auxiliary Power Unit:	Hamilton Sundstrand APS2300 Limitations: Refer to the APU TCDS / TSO		
8.	Propellers:	N/A		
9.	Fluids (Fuel, Oil, Additives, Hydraulics):	Refer to applicable approved manuals		
10.	Fluid Capacities:	Refer to applicable approved manuals		
11.	Airspeed Limits:	See Airplane Flight Manual		
12.	Maximum Operating Altitude:	12, 497 m (41,000 ft) pressure altitude		
13.	All Weather Capability:	Cat II/Cat III optional * * If post-mod SB 170-22-0004 or equivalent		



manufacturer production modification

14. Maximum Certified Masses:

Phase	170-200 LR		170-200 STD	
Taxi and Ramp	85870 lb	38950 kg	83026 lb	37660 kg
		40530 kg ⁽²⁾		40530 kg ⁽²⁾
Take-off	85517 lb	38790 kg	82673 lb	37500 kg
		40370 kg ⁽²⁾		35740 kg ⁽¹⁾
		_		40370 kg ⁽²⁾
				35998 kg ⁽³⁾
				34998 kg ⁽⁴⁾
				36500 kg ⁽⁵⁾
				35700 kg ⁽⁵⁾
Landing	74957 lb	34000 kg	74957 lb	34000 kg
_		34100 kg ⁽²⁾		34100 kg ⁽²⁾
Zero Fuel	74957 lb	31700 kg	69886 lb	31700 kg
		32000 kg ⁽²⁾		32000 kg ⁽²⁾

(1) If post-mod SB 170-00-0034

- (2) For airplanes Post-Mod. SB 170-00-0016 or equipped with an equivalent modification factory incorporated.
- (3) For airplanes Post-Mod. SB 170-00-0037 or equipped with an equivalent modification factory incorporated.
- (4) For airplanes Post-Mod. SB 170-00-0039 or equipped with an equivalent modification factory incorporated.

(5) For airplanes Post-Mod. SB 170-00-0049, SB 170-00-0050, SB 170-00-0051 and SB 170-00-0049 or equipped with an equivalent modification factory incorporated.

- 15. Centre of Gravity Range: See Airplane Flight Manual
- 16. Datum:

A perpendicular plane to the fuselage center line located 11650,0 mm in front of the Wing Stub Spar 1. This spar is located 372,6 mm forward of the wing jacking points.

- 17. Mean Aerodynamic Chord: 3.194 m (10ft. 6 in.) (MAC)
- 18. Levelling Means: See Weight and Balance Manual
- 19. Minimum Flight Crew: Two (Pilot and Co-pilot) for all types of flight
- 20. Maximum Seating Capacity: 88 Passengers
- 21. Exits:

	Number	Туре	Size mm (inches)
1 Main Fwd LH	1	Type I	750 mm (w) x 1821 mm (h)
2 Main Aft LH	1	Type I	635 mm (w) x 1801 mm (h)
3 Service (Fwd, RH)	1	Type I	611 mm (w) x 1368 mm (h)
4 Service (Aft RH)	1	Type 1	632 mm (w) x 1381 mm (h)

Additionally, for crew emergency evacuation purposes, the following exits are available on both sides:

Cockpit side window (2)	Flight Crew Emergency Exit	483 mm x 508 mm
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22. Baggage/ Cargo Compartment

Location	Class	Volume m ³ (ft ³)
Front Fwd (Underfloor)	С	10.06 m ³ (355 ft ³)
Rear Aft (Underfloor)	С	7.19 m ³ (254 ft ³)

23. Wheels and Tyres

Nose Assy (Qty 2)Tyre/Wheel: 24 x 7.7 12PRMain Assy (Qty 4)Tyre/Wheel: H38 x 13.0-18 18PR or 20PRSpeed Rating: 225 mph

IV. Operating and Servicing Instructions

- 1. Flight Manual: Airplane Flight Manual, Document No. AFM 1479
- 2. Mandatory Maintenance Instructions:
 - 2.1 Aircraft Maintenance Manual (Customised to aircraft configuration)
 - 2.2 Maintenance Review Board Report Ref: MRB 1621, Revision 2 or Subsequent JAA approved revision
 - 2.3 Airworthiness Limitations and Certification Maintenenance Requirements:
 - MRB Report: Appendix A Part 1 (Certification Maintenance Requirements) Appendix A Part 2 (Structural Inspection Fatigue Limits ALI) Appendix A Part 3 (Fuel System Limitation Items - FSL) Appendix A Part 4 (Airframe Life Limits – ALL)
 - 2.4 Structural repair manual SRM-1802 is applicable.
- 3. Service Letters and Service Bulletins as published by Embraer and approved by ANAC.



V. Operational Suitability 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.001 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

- Master Minimum Equipment List
 - a. The Master Minimum Equipment List has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-MMEL and as documented in Embraer 170/175/190/195 EASA Master Minimum Equipment List MMEL-5814, Revision Original, December 2015, or later approved revisions.
 - b. Required for entry into service by EU operator.
- 2. Flight Crew Data
 - a. The Flight Crew data has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-FCD and as documented in EASA Operational Suitability Data (OSD) Flight Crew - ERJ 170/190 Report 170MSO092, Orig. Revision, dated 04 December 2015, or later approved revisions.
 - b. Required for entry into service by EU operator.
 - c. Pilot Type Rating: The licence endorsement for the ERJ 170-200 models aircraft is "EMB170". The ERJ 170 and the ERJ 190 series aircraft are variants of the same type of aircraft.
- 3. Cabin Crew Data
 - a. The Cabin Crew data has been approved as per the defined Operational Suitability Data Certification Basis recorded in CRI A-CCD and as documented in Embraer 170/175/190/195 Operational Suitability Data Report, Cabin Crew Qualifications -Revision 2, dated 12 June 2014, or later approved revisions.
 - b. Required for entry into service by EU operator.
 - c. The Embraer 170/175 aircraft models are determined to be variants to the Embraer 190/195 aircraft models.

VI. Notes

The Model ERJ 170-100 XX is often referred to in Embraer marketing literature as the "Embraer 170 XX", with the appropriate model (LR, STD, etc.) substituted for the "XX". The Model ERJ 170-200 XX is often referred to in Embraer marketing literature as the "Embraer 175 XX", with the appropriate model (LR, STD, etc.) substituted for the "XX". These names are strictly marketing designations and are not part of the official model designations.



SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

ACAS	Airborne Collision Avoidance System
AFM	Airplane Flight Manual
AMC	Acceptable Means of Compliance
ANAC	Agência Nacional De Aviação Civil (CAA Brazil)
APU	Auxiliary Power Unit
AWO	All Weather Operations
CRI	Certification Review Item
CS	Certification Specification
EASA	European Union Aviation Safety Agency
ES(F)	Equivalent Safety (Finding)
EWIS	Enhanced Wiring Interconnection System
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
HIRF	High Intensity Radiated Field
ICA	Instructions for Continued Airworthiness
ICAO	International Civil Aviation Organization
JAA	Joint Aviation Authorities
JAR	Joint Aviation Requirements
MRB	Maintenance Review Board
NPA	Notice of Proposed Amendment
OSD	Operational Suitability Data
RVSM	Reduced Vertical Separation Minima
S/N	Serial Number
SB	Service Bulletin
SC	Special Condition
тс	Type Certificate
TCDS	Type Certificate Data Sheet
TSO	Technical Standards Order

II. Type Certificate Holder Record

Embraer S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil

<u>Before 1 January 2022:</u> Yaborã Indústria Aeronáutica S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil



TCDS No.: IM.A.<u>001</u> Issue: <u>13</u>

Before 31 January 2020: Embraer S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil

Before January 2011: Empresa Brasileira de Aeronáutica SA Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil



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SECTION: ADMINISTRATIVE - continued

III. Change Record

Starting with Issue 06

Issue 06 12/10/2011 Section 1.II.4 and 2.II.4: Special Condition added - EASA/170/SC/CRI 170/H-01 for ICA on EWIS Section 1.II.6 and 2.II.6: Update ESF JAA/170/ES/CRI B-17 Issue 2 Rev 1, 13/03/2009 Section 2.III.14: Take-off Weight variant and Note added for 170-200STD Section 2.III.20: Correction Maximum Seating Capacity Section 2.V:: Note added Editorial changes and new TCDS layout Issue 2 Rev 1, 13/03/2009 Issue 07 20/12/2011 Section 1.III.14: Maximum Certified Masses 170-100, Note 5 changed Section 2.III.14: Weight variants added for 170-200, Note 2 added Editorial corrections Issue 2 Rev 1, 13/03/2009 Issue 08 16/10/2014 Section 1.II.6: CRI F-48 ESF added Section 2.III.14: Weight variants added for 170-200, Note 2 added Issue 2 Rev 1, 13/03/2009 Issue 09 10/12/2015 Section 1.II.8: EASA Operational Suitability Data Section 1.V: Operational Suitability Data Section 2.III.2: EASA Operational Suitability Data Section 2.III.4: Maximum Certified Masses - Reduced MTOW introduced in accordance with DCA 0170-000-000199-2015/EASA Rev Issue 2 Rev 1, 13/03/2009 Issue 11 26/07/2016 Section 1.III.14: Maximum Certified Masses - Reduced MTOW introduced in accordance with DCA 0170-000-000199-2015/EASA Rev Issue 2 Rev 1, 13/03/2009 Issue 12 31/01/2020 Transfer of Type Certificate Holder from "Embraer S.A." to "Yaboră Indústria Aeronáutica S.A." EASA name reference changed to	Issue	Date	Changes	TC issue
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