

European Aviation Safety Agency

EASA TYPE-CERTIFICATE DATA SHEET FOR NOISE

Embraer ERJ 170

Manufacturer: Embraer

Empresa Brasileira de Aeronáutica SA
Av. Brig. Faria Lima. 2170
12227-901 São Jose dos Campos SP
Brasil

For models: ERJ 170-100 LR
ERJ 170-100 SE
ERJ 170-100 STD
ERJ 170-100 SU
ERJ 170-200 LR
ERJ 170-200 STD
ERJ 170-200 SU

Issue 3, 04 December 2007

List of Effective Pages:

Page	1	2	3	4	5	6	7	8	9	10
Issue	3	1	3	1	3	1	1	1	1	1

Page	11	12	13	14	15	16	17	18	19	20
Issue	1	1	1	1	1	1	1	1	1	1

Page	21	22	23	24
Issue	1	1	1	2

INTENTIONALLY LEFT BLANK

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 LR**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #1"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level *	Limit	Level *	Limit	Level *	Limit
A5125	37,200	32,800	92.3	94.2	84.1	89.0	94.9	98.2
A5128	34,850	32,800	92.4	94.0	81.6	89.0	94.9	98.0
A6639	35,990	32,800	92.3	94.1	83.0	89.0	94.9	98.1

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 LR**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #2"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **3rd Edition / Amendment 7** Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level *	Limit	Level *	Limit	Level *	Limit
A3139	37,200	33,300	92.0	94.2	83.2	89.0	94.9	98.2
A3133	37,200	32,800	92.0	94.2	83.2	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 LR**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #1"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5130	37,200	32,800	93.3	94.2	83.3	89.0	94.9	98.2
A5133	34,850	32,800	93.4	94.0	80.9	89.0	94.9	98.0
A6640	35,990	32,800	93.3	94.1	82.2	89.0	94.9	98.1

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 LR**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #2"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **3rd Edition / Amendment 7** Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A3142	37,200	33,300	93.0	94.2	82.5	89.0	94.9	98.2
A3136	37,200	32,800	93.0	94.2	82.5	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 SE**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #1"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5127	37,200	32,800	92.3	94.2	84.1	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 SE**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #2"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **3rd Edition / Amendment 7** Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level *	Limit	Level *	Limit	Level *	Limit
A3141	37,200	33,300	92.0	94.2	83.2	89.0	94.9	98.2
A3135	37,200	32,800	92.0	94.2	83.2	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 SE**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #1"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level *	Limit	Level *	Limit	Level *	Limit
A5132	37,200	32,800	93.3	94.2	83.3	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 SE**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #2"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **3rd Edition / Amendment 7** Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A3144	37,200	33,300	93.0	94.2	82.5	89.0	94.9	98.2
A3138	37,200	32,800	93.0	94.2	82.5	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 STD**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #1"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5124	35,990	32,800	92.3	94.1	83.0	89.0	94.9	98.1

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 STD**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #2"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **3rd Edition / Amendment 7** Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level *	Limit	Level *	Limit	Level *	Limit
A3147	35,990	33,300	92.1	94.1	82.2	89.0	94.9	98.1
A3145	35,990	32,800	92.1	94.1	82.2	89.0	94.9	98.1

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 STD**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #1"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (dB)	Limit (dB)	Level * (dB)	Limit (dB)	Level * (dB)	Limit (dB)
A5129	35,990	32,800	93.3	94.1	82.2	89.0	94.9	98.1

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 STD**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #2"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **3rd Edition / Amendment 7** Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level *	Limit	Level *	Limit	Level *	Limit
A3148	35,990	33,300	93.0	94.1	81.5	89.0	94.9	98.1
A3146	35,990	32,800	93.0	94.1	81.5	89.0	94.9	98.1

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 SU**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #1"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level *	Limit	Level *	Limit	Level *	Limit
A5126	37,200	32,800	92.3	94.2	84.1	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 SU**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #2"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **3rd Edition / Amendment 7** Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A3140	37,200	33,300	92.0	94.2	83.2	89.0	94.9	98.2
A3134	37,200	32,800	92.0	94.2	83.2	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 SU**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #1"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5131	37,200	32,800	93.3	94.2	83.8	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-100 SU**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain **Embraer "Engine #2"**
 the certificated noise levels *

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment **3rd Edition / Amendment 7** Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level *	Limit	Level *	Limit	Level *	Limit
A3143	37,200	33,300	93.0	94.2	82.5	89.0	94.9	98.2
A3137	37,200	32,800	93.0	94.2	82.5	89.0	94.9	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-200 LR**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels * **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5135	38,790	34,000	91.9	94.4	84.4	89.0	95.0	98.4

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-200 LR**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels * **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5138	38,790	34,000	92.9	94.4	83.6	89.0	95.0	98.4

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-200 STD**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels * **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5134	37,500	34,000	92.1	94.3	83.3	89.0	95.0	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-200 STD**

Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels * **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5137	37,500	34,000	93.0	94.3	82.5	89.0	95.0	98.2

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-200 SU**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels * **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5136	38,790	34,000	91.9	94.4	84.4	89.0	95.0	98.4

* Items so marked shall be included on EASA Form 45.

Aircraft Manufacturer * **Embraer** Aircraft Type Designation * **ERJ 170-200 SU**
 Engine Manufacturer * **General Electric** Engine Type Designation * **CF34-8E5A1**

Additional modifications essential to meet the requirements or needed to attain the certificated noise levels * **None**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter * **3**

EASA Record No.	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL	
	Take-off * (kg)	Landing * (kg)	Level * (kg)	Limit	Level * (kg)	Limit	Level * (kg)	Limit
A5139	38,790	34,000	92.9	94.4	83.6	89.0	95.0	98.4

* Items so marked shall be included on EASA Form 45.