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# TYPE-CERTIFICATE DATA SHEET FOR NOISE

**No. EASA.IM.A.032**

**for**

**EMB 135 and EMB 145**

**Type Certificate Holder:**

**Yaborã Indústria Aeronáutica S.A.**

Av. Brig. Faria Lima. 2170

12227-901 São Jose dos Campos SP

Brazil

For models: EMB 135  
EMB 145



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Type Certificate Holder<sup>1</sup>      **Yaborã Indústria Aeronáutica S.A.**      Aircraft Type Designation<sup>1</sup>      **EMB 135**

Engine Manufacturer<sup>1</sup>      **Rolls-Royce**      Engine Type Designation<sup>1</sup>      **AE3007 A1/3**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup>      **None**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **3**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A1904	LR	<b>19,990</b>	<b>18,500</b>	<b>84.5</b>	<b>94.0</b>	<b>79.7</b>	<b>89.0</b>	<b>92.3</b>	<b>98.0</b>	-
A1905	ER	<b>18,990</b>	<b>18,500</b>	<b>84.6</b>	<b>94.0</b>	<b>78.8</b>	<b>89.0</b>	<b>92.3</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **Yaborã Indústria Aeronáutica S.A.**      Aircraft Type Designation<sup>1</sup>      **EMB 135**  
(Commercial Designation      **Legacy 600)**

Engine Manufacturer<sup>1</sup>      **Rolls-Royce**      Engine Type Designation<sup>1</sup>      **AE3007 A1E**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup>      **None**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **3**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A1906	BJ	<b>22,500</b>	<b>18,500</b>	<b>86.8</b>	<b>94.0</b>	<b>79.7</b>	<b>89.0</b>	<b>91.3</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **Yaborã Indústria Aeronáutica S.A.**      Aircraft Type Designation<sup>1</sup>      **EMB 135**  
(Commercial Designation      **Legacy 600)**

Engine Manufacturer<sup>1</sup>      **Rolls-Royce**      Engine Type Designation<sup>1</sup>      **AE3007 A1P**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup>      **None**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **3**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A8997	BJ	<b>22,200</b>	<b>18,500</b>	<b>85.3</b>	<b>94.0</b>	<b>80.0</b>	<b>89.0</b>	<b>91.3</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **Yaborã Indústria Aeronáutica S.A.**      Aircraft Type Designation<sup>1</sup>      **EMB 135**  
(Commercial Designation      **Legacy 650)**

Engine Manufacturer<sup>1</sup>      **Rolls-Royce**      Engine Type Designation<sup>1</sup>      **AE3007 A2**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup>      **None**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **4**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A15225	BJ	<b>24,300</b>	<b>20,000</b>	<b>86.9</b>	<b>94.0</b>	<b>78.0</b>	<b>89.0</b>	<b>91.7</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **Yaborã Indústria Aeronáutica S.A.**      Aircraft Type Designation<sup>1</sup>      **EMB 135**

Engine Manufacturer<sup>1</sup>      **Rolls-Royce**      Engine Type Designation<sup>1</sup>      **AE3007 A3**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup>      **None**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **3**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A5783	LR	<b>19,990</b>	<b>18,500</b>	<b>84.5</b>	<b>94.0</b>	<b>79.7</b>	<b>89.0</b>	<b>92.3</b>	<b>98.0</b>	-
A5784	ER	<b>18,990</b>	<b>18,500</b>	<b>84.6</b>	<b>94.0</b>	<b>78.8</b>	<b>89.0</b>	<b>92.3</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **Yaborã Indústria Aeronáutica S.A.**      Aircraft Type Designation<sup>1</sup>      **EMB 145**

Engine Manufacturer<sup>1</sup>      **Rolls-Royce**      Engine Type Designation<sup>1</sup>      **AE3007 A**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup>      **None**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **3**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A8919	EP	<b>20,990</b>	<b>18,700</b>	<b>85.0</b>	<b>94.0</b>	<b>80.1</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-
A8970	ER	<b>20,600</b>	<b>18,700</b>	<b>85.1</b>	<b>94.0</b>	<b>79.8</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-
A8967	EU	<b>19,990</b>	<b>18,700</b>	<b>85.1</b>	<b>94.0</b>	<b>79.2</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.





Type Certificate Holder<sup>1</sup> **Yaborã Indústria Aeronáutica S.A.** Aircraft Type Designation<sup>1</sup> **EMB 145**

Engine Manufacturer<sup>1</sup> **Rolls-Royce** Engine Type Designation<sup>1</sup> **AE3007 A1**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup> **SB 145-53-0066 ()**

Noise Certification Basis **ICAO Annex 16, Volume I** Edition / Amendment Chapter<sup>1</sup> **3**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A1908	LR	<b>22,000</b>	<b>19,300</b>	<b>84.9</b>	<b>94.0</b>	<b>81.0</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A1909	LU	<b>21,990</b>	<b>19,300</b>	<b>84.9</b>	<b>94.0</b>	<b>81.0</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A1911	MP	<b>20,990</b>	<b>19,300</b>	<b>85.0</b>	<b>94.0</b>	<b>80.1</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A1910	EP	<b>20,990</b>	<b>18,700</b>	<b>85.0</b>	<b>94.0</b>	<b>80.1</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-
A1912	ER	<b>20,600</b>	<b>18,700</b>	<b>85.1</b>	<b>94.0</b>	<b>79.8</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-
A1914	MK	<b>19,990</b>	<b>19,300</b>	<b>85.1</b>	<b>94.0</b>	<b>79.2</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A1913	EU	<b>19,990</b>	<b>18,700</b>	<b>85.1</b>	<b>94.0</b>	<b>79.2</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **Yaborã Indústria Aeronáutica S.A.**      Aircraft Type Designation<sup>1</sup>      **EMB 145**

Engine Manufacturer<sup>1</sup>      **Rolls-Royce**      Engine Type Designation<sup>1</sup>      **AE3007 A1**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup>      **SB 145-53-0065 (MTOW reduction)**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **3**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A6758	LR	<b>21,450</b>	<b>19,300</b>	<b>94.0</b>	<b>94.0</b>	<b>81.0</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **Yaborã Indústria Aeronáutica S.A.**      Aircraft Type Designation<sup>1</sup>      **EMB 145**

Engine Manufacturer<sup>1</sup>      **Rolls-Royce**      Engine Type Designation<sup>1</sup>      **AE3007 A1/1**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup>      **SB 145-53-0066 ()**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **3**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A8979	LR	<b>22,000</b>	<b>19,300</b>	<b>84.9</b>	<b>94.0</b>	<b>81.0</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A8977	MP	<b>20,990</b>	<b>19,300</b>	<b>85.0</b>	<b>94.0</b>	<b>80.1</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A8993	EP	<b>20,990</b>	<b>18,700</b>	<b>85.0</b>	<b>94.0</b>	<b>80.1</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-
A8971	ER	<b>20,600</b>	<b>18,700</b>	<b>85.1</b>	<b>94.0</b>	<b>79.8</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-
A8968	MK	<b>19,990</b>	<b>19,300</b>	<b>85.1</b>	<b>94.0</b>	<b>79.2</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A8966	EU	<b>19,990</b>	<b>18,700</b>	<b>85.1</b>	<b>94.0</b>	<b>79.2</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.



Type Certificate Holder<sup>1</sup>      **Yaborã Indústria Aeronáutica S.A.**      Aircraft Type Designation<sup>1</sup>      **EMB 145**

Engine Manufacturer<sup>1</sup>      **Rolls-Royce**      Engine Type Designation<sup>1</sup>      **AE3007 A1P**

Additional modifications essential to meet the requirements or needed to attain the certified noise levels<sup>1</sup>      **None**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      Chapter<sup>1</sup>      **3**

EASA Record No.	Variant	Maximum Mass		Lateral EPNL		Flyover EPNL		Approach EPNL		See Note
		Take-off <sup>1</sup> (kg)	Landing <sup>1</sup> (kg)	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	Level <sup>1</sup>	Limit	
A8980	LU	<b>21,990</b>	<b>19,300</b>	<b>84.9</b>	<b>94.0</b>	<b>81.0</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A8978	MP	<b>20,990</b>	<b>19,300</b>	<b>85.0</b>	<b>94.0</b>	<b>80.1</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A8964	EP	<b>20,990</b>	<b>18,700</b>	<b>85.0</b>	<b>94.0</b>	<b>80.1</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-
A8972	ER	<b>20,600</b>	<b>18,700</b>	<b>85.1</b>	<b>94.0</b>	<b>79.8</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-
A8969	MK	<b>19,990</b>	<b>19,300</b>	<b>85.1</b>	<b>94.0</b>	<b>79.2</b>	<b>89.0</b>	<b>92.5</b>	<b>98.0</b>	-
A8965	EU	<b>19,990</b>	<b>18,700</b>	<b>85.1</b>	<b>94.0</b>	<b>79.2</b>	<b>89.0</b>	<b>92.6</b>	<b>98.0</b>	-

<sup>1</sup> See Note 1.



**TCDSN EASA.IM.A.032 Notes**

1. In cases where it is appropriate to issue a noise certificate, items so marked shall be included on EASA Form 45.

### Change Record

<b>Issue</b>	<b>Date</b>	<b>Changes</b>
Issue 1	08 January 2007	Initial Issue
Issue 2	30 April 2007	Revised
Issue 3	20 June 2008	Revised
Issue 4	07 October 2010	Model EC-135 BJ (Legacy 650) added
Issue 5	21 August 2013	EMB-135 ER MTOW revised from 19000 kg to 18990 kg. EMB-135 LR MTOW revised from 20000 kg to 19990 kg.
Issue 6	31 January 2020	Transfer of Type Certificate Holder from "Embraer S.A." to "Yaborã Indústria Aeronáutica S.A."

