TYPE-CERTIFICATE

DATA SHEET

EASA.A.583

P2008 JC

Costruzioni Aeronautiche TECNAM S.r.l.

Via Tasso, 478
80127 Napoli
ITALIA

CONTENT

SECTION A: P2008 JC

A.I. General

1. Data Sheet No.:	EASA.A.583
2. a) Type:	P2008 JC
3. Airworthiness Category:	CS-VLA Normal category
4. Type Certificate Holder:	Costruzioni Aeronautiche Tecnam S.R.L. Via Tasso, 478 80127 Napoli ITALIA
5. Manufacturer:	Costruzioni Aeronautiche Tecnam S.R.L. Via Tasso, 478 80127 Napoli ITALIA
6. Certification Application Date:	09 May 2011
7. (Reserved) National Certifying Authority	N/A
8. (Reserved) National Authority Type Certificate Date:	N/A

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements:	09 May 2011
2. Airworthiness Requirements:	EASA CS-VLA amdt.1 dated 5 May 2009
3 Special Conditions:	SC-VFR Night VLA 01 (CRI O-101); SC-F-1309-01 Protection from the Effect of HIRF(CRI F-101); SC-ELA.2015-01 - Lithium battery installations for ELA1 Aeroplanes (CRI F-103) (See Note 6).
3. Exemptions:	None
4. Deviations:	None
5. Equivalent Safety Findings:	None
6. Requirements elected to comply:	None
7. Environmental Standards:	CS-36 Amdt. 2 dated 31 August 2009, subpart C with reference to ICAO Annex 16, Volume 1, Chapter 10, Amdt. 9 dated 30 July 2009.
8. (Reserved) Additional National Requirements:	N/A
9. (Reserved)	N/A

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Document no. 2008/008 “Type Design Definition”
2. Description: Single-engine, fixed pitch propeller, two seats, high wing aeroplane equipped with fixed tricycle landing gear, featuring composite, aluminium and steel construction.
3. Equipment: Equipment list, AFM, doc. No. 2008/100, Section 6
4. Dimensions:

Span	9,00 m (29.5 ft)
Length	6,97 m (22.9 ft)
Height	2,67 m (8.8 ft)
Wing Area	12,16 m^2 (130.9 ft^2)

5. Engine:
   - 5.1.1 Model: No.1 Bombardier-Rotax GmbH 912 S2
   - 5.1.2 Type Certificate: EASA Type Certificate No. EASA.E.121
   - 5.1.3 Limitations: Take-Off Power 73,5 kW (98.6 HP) at 5800 RPM (5 minutes maximum)
     Max continuous power 69 kW (92.5 HP) at 5500 RPM
     Other engine’s limitations are listed in doc. No. 2008/100 “P2008 JC Aircraft Flight Manual”, Section 2
6. Load factors:

6.1 Basic:

	Flap UP	Flap DOWN
Positive	+4,0 g	+2,0 g
Negative	-2,0 g	0,0 g

6.2 Optional (see Notes 2,3):

	Flap UP	Flap DOWN
Positive	+3,8 g	+1,9 g
Negative	-1,9 g	0,0 g

7. Propeller:
   - 7.1 Model: GT propellers: GT-2/173/VRR-FW101 SRTC
     - Type Certificate: EASA Type Certificate No. EASA.P.108
     - Number of blades: 2
     - Diameter: 1,730 m (68 in) – No reduction is permitted
     - Sense of Rotation: Clockwise (pilot’s view)
   - 7.2 Model (see Notes 1,3): Hoffmann KG: HO17GHM A 174 177C
     - Type Certificate: LBA Type Certificate No. 32.110/1 (EASA Approved)
     - Number of blades: 2
     - Diameter: 1,740 m (68,5 in) – No reduction is permitted

Sense of Rotation:	Clockwise (pilot's view)
7.3 Model (see Note 5):	MT Propeller MTV-34-1-A/170-202
Type Certificate:	EASA.P.049
Number of blades:	3
Diameter:	1,70 m – No reduction is permitted

8. Fluids:

8.1 Fuel:	- MOGAS: • ASTM D4814 (min RON 95/AKI 91) • EN 228 Super/Super plus (min. RON 95/AKI 91) • MOGAS MG 95 (IS 2796:2008) (see Note 4) - AVGAS 100 LL (ASTM D910)
8.2 Oil:	Only oil with API classification "SG" or higher. Recommended by Rotax: • SHELL AeroShell Sport Plus 4 API SL Refer to Rotax SI-912-016 R4 for list of alternative recommended commercial brands and types.
8.3 Coolant:	According to Aircraft Flight Manual

9. Fluid capacities:

9.1 Fuel:	2 Tanks:	62 litres each (16.38 US gallons)
	Total:	124 litres (32.76 US gallons)
	Usable:	120 litres (32 US gallons)
9.2 Oil:	Total:	3 litres
	Minimum:	2,5 litres
9.3 Coolant system capacity:	Expansion tank:	0,25 litres
	Overflow bottle:	0,5 litres

10. Air Speeds:

10.1 Basic:	Never exceed speed V_{NE}	141 KCAS
	Maximum Structural Cruising Speed V_{NO}	111 KCAS
	Design Manoeuvring speed V_A	98 KCAS
	Operating Manoeuvring speed V_O	98 KCAS
	Maximum flaps extended speed V_{FE}	72 KCAS
10.2 Optional (see Notes 2,3):	Never exceed speed V_{NE}	139 KCAS
	Maximum Structural Cruising Speed V_{NO}	110 KCAS
	Design Manoeuvring speed V_A	97 KCAS
	Operating Manoeuvring speed V_O	97 KCAS

	Maximum flaps extended speed V_{FE} 71 KCAS
11. Maximum Operating Altitude:	13,000 ft
12. All-weather Operations Capability:	Day-VFR; Night VFR is allowed on aeroplanes with KIT P/N 28-13-1000-000 installed and operative. Refer to KOEL contained in the AFM, doc. No. 2008/100, Section 2. Flight into expected or actual icing conditions is prohibited
13. Maximum Weights:	
13.1 Basic:	Max Take-Off: 630 kg (1388 lb) Max Landing: 630 kg (1388 lb)
13.2 Optional (see Notes 2,3):	Max Take-Off: 650 kg (1433 lb) Max Landing: 650 kg (1433 lb)
14. Centre of Gravity Range:	Forward Limit: 1,841 m (20% MAC) behind datum Aft Limit: 1,978 m (30% MAC) behind datum Mean Aerodynamic Chord is 1,373 m (54 in)
15. Datum:	Propeller support flange without spacer
16. Control surface deflections:	Stabilator: 15°±2° to pitch up / 4°±2° to pitch down Stabilator Trim Tab: 12 ±1° downward / 2°±1° upward Aileron: 22°±2° upward / 14°±2° downward Rudder: 25°±2° left / 25°±2° right Flaps: 0° Fully Retracted / 35°±1° Fully Extended
17. Levelling Means:	seat track supporting beams (see procedure in doc. No. 2008/100 “P2008 JC Aircraft Flight Manual”, Section 6)
18. Minimum Flight Crew:	1
19. Maximum Passenger Seating Capacity:	1
20. Baggage/Cargo Compartments:	Max Allowable Load: 20 kg (44 lb) Location:2,42 m (95.28 in) from datum
21. Wheels and Tyres:	Nose Wheel Tyre Size: 5.00-5, Type III Main Wheel Tyre Size 5.00-5, Type III For approved Types and rating see AMM, doc No. 2008/101
22. Serial Numbers Eligible:	1002 to subsequent

A.IV. Operating and Service Instructions

1. Flight Manual: Doc. No. 2008/100 “P2008JC Aircraft Flight Manual” Last issue

2. Technical Manual: Doc. No. 2008/101 “P2008JC Aircraft Maintenance Manual” Last issue

3. Spare Parts Catalogue: Doc. No. 2008/102 “P2008JC Illustrated Parts Catalogue” Last issue

4. Instruments and aggregates: Doc. No. 2008/101 “P2008JC Aircraft Maintenance Manual” Last issue

A.**V.** **Notes:**

1) When MOD 2008/029 (EASA approval 10052448) or MOD 2008/045 (EASA approval 10056252) is installed
2) When MOD 2008/027 (EASA approval 10053015) or MOD 2008/045 (EASA approval 10056252) is installed
3) MOD description:
   - MOD2008/027: MTOW increment to 650kg;
   - MOD2008/029: Hoffmann propeller;
   - MOD2008/045: Hoffmann propeller combined with MTOW increment to 650kg;
   - MOD2008/086: MT propeller;
   - MOD2008/077: new fuel;
   - MOD2008/037: Alternative avionics package;
4) When MOD2008/077 (EASA approval 10059501) is installed;
5) When MOD2008/086 (EASA approval 10063313) is installed. MOD2008/086 can be installed only on aircraft with MTOW increased to 650 kg (as per MOD2008/027).
6) When MOD2008/037 (EASA approval 10064044) is installed

ADMINISTRATIVE SECTION

I. Acronyms

AFM – Aircraft Flight Manual
AMM – Aircraft Maintenance Manual
API – American Petroleum Industry
ASTM – American Society for Testing and Materials
CRI – Certification Review Item
CS – Certification Specification
VLA – Very Light Aircraft
EASA – European Aviation Safety Agency
ICAO – International Civil Aviation Organization
IPC – Illustrated Part Catalogue
KCAS – Knots Calibrated Air Speed
KOEL – Kind of Operations Equipment List
MAC – Mean Aerodynamic Chord
MLW – Maximum Landing Weight
MTOW – Maximum Take-Off Weight
MZFW – Maximum Zero Fuel Weight
TC – Type Certificate
TCDS – Type Certificate Data Sheet
VFR – Visual Flight Rules

II. Type Certificate Holder Record

TC Holder	**Period**
Costruzioni Aeronautiche TECNAM S.r.l. Via Tasso, 478 80127 Napoli ITALIA	Effective

III. Change Record

Issue	**Date**	**Changes**	**TC Issue No. & Date**
Issue 01	27 September 2013	Initial Issue	Is.01, 27 Sep 2013
Issue 02	24 July 2014	S/N 1001 is excluded from the TCDS	
Issue 03	23 April 2015	Increment of weight (mod2008/027) and new propeller (MOD2008/029) are added	
Issue 04	23 October 2015	Updated TC Hoffmann reference	
Issue 05	11 December 2015	Changed 8.3 (coolant type)	
Issue 06	18 January 2016	Changed notes 1, 2 and 3	
Issue 07	11 October 2016	Changed A.III - 8.1 (added fuel type) and added note 4	
Issue 08	06 October 2017	Added MT propeller	
Issue 09	18 December 2017	Changed A.II - 3 (Added Special condition for Lithium battery). Added note 6. Added description of MOD2008/077 and MOD2008/037 to note 4. Section A.III – 8 was unintentionally removed and it has been restored. Issue records removed from page 1	