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# TYPE-CERTIFICATE DATA SHEET

NO. EASA.A.637

**for**  
P2012

**Type Certificate Holder**  
Costruzioni Aeronautiche TECNAM SPA

Via S. D'acquisto, 62  
80042 Boscotrecase (Na)  
ITALIA

For models: P2012 Traveller



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## **SECTION A: P2012 TRAVELLER**

### **A.I. General**

|                                   |  |
|-----------------------------------|--|
| 1. Type/ Model/ Variant           |  |
| 1.1 Type                          | P2012  |
| 1.2 Model                         | P2012 Traveller  |
| 1.3 Variant                       | -----  |
| 2. Airworthiness Category         | CS-23 Normal Category  |
| 3. Manufacturer                   | Costruzioni Aeronautiche TECNAM SPA.<br>Via S. D'acquisto, 62<br>80042 Boscotrecase (NA)<br>ITALIA |
| 4. EASA Type Certification        |  |
| Application Date                  | 29 November 2015   |
| 6. State of Design Authority Type |  |
| Certificate Date                  | N/A  |
| 7. EASA Type Certification Date   | 19 December 2018   |

### **A.II. EASA Certification Basis**

|   |   |
|---|---|
| 1. Reference Date for determining the applicable requirements | 19 December 2015  |
| 2. Airworthiness Requirements                                 | EASA CS-23 amdt. 4 dated 15 July 2015.  |
| 3. Special Conditions   | SC-C23.div01 Human Factors –Integrated Avionic System (CRI B-52);<br>SC-F23.1353-02 Lithium battery installation (CRI F 58);<br>SC-CS-23.1305 Fuel low level annunciation means (CRI E-060);<br>SC-CS-23.803 Emergency evacuation for Air Medical service (CRI-D-103), see note 7;<br>SC-O23.div-01 Usage of aeroplanes for parachuting activities (CRI E-08), see note 10; |
| 4. Exemptions   | None  |
| 5. (Reserved) Deviations                                      | None  |
| 6. Equivalent Safety Findings                                 | None  |
| 7. Requirements elected to comply:                            | CS-23 Amdt.4 § 783(d)(e)<br>CS-23 Amdt.4 § 803(a)<br>CS-23 Amdt.4 § 807(d)<br>CS-23 Amdt.4 § 811(b)<br>CS-23 Amdt.4 § 813(a)<br>CS-23 Amdt.4 § 853(d)<br>FAR 23.856   |
| 8. Environmental Protection                                   | Refer to TCDSN EASA.A.637;  |

### **A.III. Technical Characteristics and Operational Limitations**



|                           |  |                     |                   |
|---------------------------|--|---------------------|-------------------|
| 1. Type Design Definition | C. A. Tecnam Aircraft P2012 report "Type design definition" 2012/003 1 <sup>st</sup> ed. and later revision                    |                     |                   |
| 2. Description            | Twin engine, 11 seats, high wing airplane, aluminium construction, fixed tricycle landing gear.                                |                     |                   |
| 3. Equipment              | Equipment list, Doc. 2012/100 AFM Section 6 latest issue   |                     |                   |
| 4. Dimensions:            | Span   | 14.0 m              | (45.9 ft)         |
|                           | Length   | 11.8 m              | (38.7 ft)         |
|                           | Height   | 4.4 m               | (14.4 ft)         |
|                           | Wing Area  | 25.4 m <sup>2</sup> | (273 sqft)        |
| 5. Engine                 |  |                     |                   |
| 5.1. Model                | No.2 Lycoming TEO-540-C1A  |                     |                   |
| 5.2 Type Certificate      | EASA TCDS n° IM.E.119<br>dated 12 December 2018  |                     |                   |
| 5.3 Limitations           | Max continuous power 280 kW (375HP) at 2575 RPM<br>Other engine's limitations are listed in doc. No. 2012/100 "AFM", Section 2 |                     |                   |
| 6. Load factors           |  |                     |                   |
| 6.1Basic                  |  | Flap UP             | Flap DOWN         |
|                           | Positive   | +3.44 g             | +2.0 g            |
|                           | Negative   | -1.37g              | 0.0 g             |
| 7. Propeller              |  |                     |                   |
| 7.1 Model                 | No.2 MT Propeller MTV-14-B-C-F/CF195-30 ( ) (see note 1)   |                     |                   |
| 7.2 Type Certificate      | EASA TCDS n° P.017   |                     |                   |
| 7.3 Number of blades      | 4  |                     |                   |
| 7.4 Diameter              | 1950 mm  |                     |                   |
| 7.5 Sense of Rotation     | Clockwise (pilot's view)   |                     |                   |
| 8. Fluids                 |  |                     |                   |
| 8.1 Fuel                  | AVGAS 100LL (ASTM D910)<br>(see Lycoming SI-1070)  |                     |                   |
| 8.2 Oil                   | Lubricant specifications and grade are detailed into the Lycoming SI-1014.   |                     |                   |
| 9. Fluid capacities       |  |                     |                   |
| 9.1 Fuel                  | Total:   | 750 litres          | (198.1 US Gallon) |
|                           | Usable:  | 728 litres          | (192.3 US Gallon) |
| 9.2 Oil                   | Maximum oil capacity:  | 11.3 litres         | (12.0 qts)        |
|                           | Minimum:   | 3.8 litres          | (4.0 qts)         |
| 10. Airspeeds (Basic)     | Design Maneuvering Speed V <sub>A</sub> : 141 KIAS (142 KCAS)  |                     |                   |



|   |   |
|---|---|
| Flap Extended Speed $V_{FE}$ :            | 119 KIAS (119 KCAS) <i>LND</i><br>124 KIAS (125 KCAS) <i>TO</i> |
| Minimum Control Speed $V_{MC}$ :          | 70 KIAS (76 KCAS) <i>TO</i><br>67 KIAS (73 KCAS) <i>LND</i>     |
| Cruising Speed $V_{NO}$ :                 | 176 KIAS (175 KCAS) (up to 15000ft)                             |
| Cruising Speed $V_{NO}$ (see note 9):     | 161 KIAS (161 KCAS) @19500ft                                    |
| Never Exceed Speed $V_{NE}$ :             | 223 KIAS (219 KCAS) (up to 15000ft)                             |
| Never Exceed Speed $V_{NE}$ (see note 9): | 204 KIAS (202 KCAS) @19500ft                                    |

10.1 Airspeeds (Optional) see note 5:

|   |   |
|---|---|
| Design Maneuvering Speed $V_A$ :          | 143 KIAS (143 KCAS)   |
| Flap Extended Speed $V_{FE}$ :            | 120 KIAS (120 KCAS) <i>LND</i><br>126 KIAS (127 KCAS) <i>TO</i> |
| Minimum Control Speed $V_{MC}$ :          | 71 KIAS (77 KCAS) <i>TO</i><br>68 KIAS (74 KCAS) <i>LND</i>     |
| Cruising Speed $V_{NO}$ :                 | 178 KIAS (177 KCAS) (up to 15000ft)                             |
| Cruising Speed $V_{NO}$ (see note 9):     | 161 KIAS (161 KCAS) @19500ft                                    |
| Never Exceed Speed $V_{NE}$ :             | 226 KIAS (222 KCAS) (up to 15000ft)                             |
| Never Exceed Speed $V_{NE}$ (see note 9): | 205 KIAS (202 KCAS) @19500ft                                    |

11. Maximum Operating Altitude: 19500 ft (see note 8)

12. Approved Operations Capability Day/Night-VFR, IFR  
Flight into expected or actual icing conditions is allowed only if Ice Protection system (MOD2012/002) is installed.  
Flight into expected or actual icing conditions is forbidden if stall warning devise (MOD2012/022) is installed

|                            |          |         |           |
|----------------------------|----------|---------|-----------|
| 13. Maximum Masses (Basic) | Take-off | 3600 kg | (7936 lb) |
|                            | Landing  | 3600 kg | (7936 lb) |

13.1 Maximum Masses (Optional) see note 5:

|  |          |         |           |
|--|----------|---------|-----------|
|  | Take-off | 3680 kg | (8113 lb) |
|  | Landing  | 3630 kg | (8003 lb) |

14. Centre of Gravity Range Forward limit:  
0.367 m (18.0 % MAC) behind Datum up to 3000Kg  
0.441 m (22.0 % MAC) behind Datum at MTOW:3600Kg



|  |  |
|--|--|
|  | 0.450 m (22.5 % MAC) behind Datum at MTOW:3680Kg (see note 5).   |
|  | Straight line variation between indicated points.  |
|  | Rear limit:  |
|  | 0.606 m (31.0 % MAC) behind Datum  |
|  | MAC is 1.839m (72.4 in)  |
| 15. Datum                              | Vertical plane tangent to wing leading edge  |
| 16. Control surface deflections        | Elevator: $23^{\circ}\pm 2^{\circ}$ to pitch up / $13^{\circ}\pm 2^{\circ}$ to pitch down<br>Elevator Trim Tab: $-8 \pm 2^{\circ}$ upward / $-21^{\circ}\pm 2^{\circ}$ downward<br>Elevator Trim Tab: $-6 \pm 4^{\circ}$ upward / $-23^{\circ}\pm 4^{\circ}$ downward (see note 5).<br>Aileron: $20^{\circ}\pm 2^{\circ}$ upward / $15^{\circ}\pm 2^{\circ}$ downward<br>Aileron Trim Tab: $30^{\circ}\pm 2^{\circ}$ upward / $28^{\circ}\pm 2^{\circ}$ downward<br>Rudder: $22^{\circ}\pm 2^{\circ}$ left / $22^{\circ}\pm 2^{\circ}$ right<br>Rudder Trim Tab: $6^{\circ}\pm 2^{\circ}$ left / $6^{\circ}\pm 2^{\circ}$ right<br>Flaps: $0^{\circ}$ Fully Retracted/ $15^{\circ}\pm 2^{\circ}$ TO / $30^{\circ}\pm 2^{\circ}$ Fully Extended |
| 17. Levelling Means                    | Seat support tracks (see AFM, 2012/100, Sect.6 for the procedure)  |
| 18. Minimum Flight Crew                | 1 (Pilot)  |
| 19. Maximum Passenger Seating Capacity | 9 (see note 6)   |
| 20. Baggage/ Cargo Compartments        | Max. allowable Loads:<br>Front 103 kg (227 lb)<br>Location 3.316m (10,88 ft) fwd of datum<br>Rear 239Kg (527 lb)<br>Location 3.518m (11,54 ft) aft of datum  |
| 21. Wheels and Tyres                   | Nose Wheel Tyre Size 6.00-6<br>Main Wheel Tyre Size 6.50-10  |
| 22. Serial Numbers Eligible:           | S/N 002 and subsequent;  |



#### **A.IV. Operating and Service Instructions**

- |                                |  |
|--------------------------------|--|
| 1. Flight Manual               | Doc. No 2012/100 "Aircraft Flight Manual" Issue. 1 or latest issue.              |
| 2. Maintenance Manual          | Doc. No 2012/101 "Aircraft Maintenance Manual" Issue. 1 or latest issue          |
| 3. Illustrated Parts Catalogue | Doc. No 2012/103 "Aircraft Illustrated Parts Catalogue" Issue. 1 or latest issue |
| 4. Instruments and aggregates: | Doc. No 2012/101 "Aircraft Maintenance Manual" Issue. 1 or latest issue          |

#### **A.V. Notes**

**Note 1:** As per Manufacturer TCDS, propellers with designation having a "small" letter in the place of the brackets (for example "MTV-14-B-C-F/CF 195-30x") may be installed since it does not affect interchangeability. A capital letter in the place of the bracket (for example MTV-14-B-C-F/CF 195-30X) may not be installed according to propeller TCDS since it may affect interchangeability

**Note 2:** Fuel Combustion Heater change (MOD2012/008) is approved as per EASA approval No. 10069738

**Note 3:** Until the completion of the Fatigue Test, the A/C is life limited as listed in Section 04 of the AMM.

**Note 4:** The following P2012 Optional Equipment are approved within Type of investigation process

##### P2012 Optional Equipment

| ID          | System Description                    |
|-------------|---------------------------------------|
| MOD2012/001 | Autopilot System                      |
| MOD2012/002 | TKS FIKI system Ice protection system |
| MOD2012/003 | Flight Management System keyboard     |
| MOD2012/004 | Weather radar                         |
| MOD2012/005 | TAS unit                              |
| MOD2012/006 | Satellite data-link                   |
| MOD2012/007 | Iridium data-link                     |
| MOD2012/009 | Air Conditioning                      |

**Note 5:** When MOD2012/017 (EASA approval 10073218) "MTOW increment up to 3680kg" is installed

**Note 6:** the maximum passenger seating capacity is limited when MOD2012/098 (EASA approval 10074612) "SMP configuration" is installed, refer to details reported in No.2012/100 "AFM Supplement S-15, Section 2".

**Note 7:** When MOD2012/027 (EASA approval 10075149) "P2012 MedEvac configuration" is installed

**Note 8:** For Flight operation above 13000ft the maximum seating capacity is reduced to 4 occupants and oxygen operational requirements must be met by operators, refer to details reported in No.2012/100 "AFM Supplement S-20, approved as per MOD2012/020 (EASA approval 10076658) "Max operating altitude at 19500ft".

**Note 9:** Airspeed value linearly reducing from 15000ft to 19500ft





**Note 10:** When MOD2012/153 (EASA approval 10077584) “P2012 configuration for parachuting operations” is installed. Maximum allowed parachutists and additional operative limitations are detailed in report No.2012/100 “AFM Supplement S-19”



## **SECTION ADMINISTRATIVE**

### **I. Acronyms & Abbreviations**

AFM – Aircraft Flight Manual  
 AMM – Aircraft Maintenance Manual  
 CRI – Certification Review Item  
 CS – Certification Specification  
 EASA – European Union 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  
 MTOW – Maximum Take-Off Weight  
 VFR – Visual Flight Rules

### **II. Type Certificate Holder Record**

| <b>TC Holder</b>  | <b>Period</b> |
|---|---------------|
| Costruzioni Aeronautiche TECNAM S.P.A.<br>Via S. D'acquisto, 62<br>80062 Boscotrecase (NA), ITALY | Effective     |

### **III. Change Record**

| <b>Issue</b> | <b>Date</b>      | <b>Changes</b>  | <b>TC Issue No. &amp; Date</b> |
|--------------|------------------|---|--------------------------------|
| 01           | 19 November 2018 | Initial Issue   | EASA.A.637                     |
| 02           | 29 April 2019    | MOD2012/008 Approval (EASA N. 10069738) and typos error removal   | /                              |
| 03           | 29 May 2019      | MOD2012/022 Approval (EASA N. 10070098) and Company business address update                             | /                              |
| 04           | 27 December 2019 | Updated propeller and engine information (field A.III (5.1 and 7.1). Amended note 1                     | /                              |
| 05           | 06 May 2020      | MOD 2012/017 (EASA N.10073218) is added   | /                              |
| 06           | 20 October 2020  | MOD 2012/098 (EASA N.10074612) (SMP) is added   | /                              |
| 07           | 14 December 2020 | Updated certification basis (filed 3 and 8 in A.II) and added MOD 2012/027 (EASA N. 10075149)           | /                              |
| 08           | 16 June 2021     | Update maximum operating altitude and airspeeds in accordance with MOD2012/020 (EASA approval 10076658) | /                              |
| 09           | 03 November 2021 | Updated certification basis (filed 3 and 8 in A.II) and notes i.a.w. MOD 2012/153 (EASA N. 10077584)    | /                              |

-END-

