

# CIVIL AVIATION AUTHORITY OF THE CZECH REPUBLIC

65-02  
Change 3  
HPH spol. s.r.o.  
ORLÍK II - VT 116  
24.07.2018

## TYPE CERTIFICATE DATA SHEET No. 65-02

This data sheet which is a part of Type Certificate No. 65-02 prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Czech Republic.

<b>Model</b>	<b>Application Date</b>	<b>Certification Date</b>
ORLÍK II - VT 116	-	17.03.1965

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## Model O R L Í K II - VT 116

### I. General

1. Data Sheet No.: 65-02
2. Model: O R L Í K II - VT 116
3. Airworthiness category: Normal
4. Type Certificate Holder: HPH spol. s.r.o.  
Čáslavská 234, 284 01 Kutná Hora, Czech Republic
5. Manufacturer: Orličan, n.p.  
Choceň
6. Application Date: -
7. Certificate Date: 17.03.1965

### II. Certification Basis

1. Certification Basis: British Civil Airworthiness Requirements, BCAR  
Section E, issued May 16, 1960
2. Special Conditions: None
3. Exemptions: None
4. Equivalent Safety Findings: None

### III. Technical Characteristics and Operational Limitations

1. Type Design Definition: List of drawings for O R L Í K II - VT 116
2. Description: Wooden semi-shell design with plywood skin. The wing has plywood skin stabilised by styrofoam. Covering of control surfaces is made from fabrics. Floating elevator with trim tabs. Rigid undercarriage
3. Equipment: airspeed indicator up to 150 km/h  
altimeter  
variometer  
compass  
four-point safety harness
4. Dimensions: Span: 16,00 m  
Length: 7,55 m  
Height: 1,68 m  
Wing Area: 12,8 m<sup>2</sup>  
Aspect Ratio: 20
5. Tow hook: Nose tow release Dwg. No. VT16 – Z4
6. Air Speeds: Never exceed speed  $V_{NE}$  150 km/h  
Manoeuvring speed  $V_A$  120 km/h  
Maximum speed on aerotow  $V_T$  120 km/h  
Rough air speed  $V_{RA}$  120 km/h
7. Load factors: +4  
-1,85
8. Weights: Maximum permitted take-off weight 345 kg  
Maximum weight of all non-lifting parts 207 kg
9. Centre of Gravity Range: 26 – 48 % SAT
10. Datum: root rib leading edge of the wing
11. Mean Aerodynamic Chord (MAC): 0,817 m
12. Leveling Means: Upper side of the rear part of the fuselage
13. Weak links: 500 kg
14. Minimum Flight Crew: 1
15. Number of seats 1

16. Control surface deflections:	Ailerons	down	+15° -2°
		up	-33° -2°
	Elevator	down	+9° ±0,5°
		up	-18° ±0,5°
	Rudder		±30° -2°

17. Wheels and Tyres:: Main wheel HP 4741-Z with 135 x 350 tyre.

18. Other Limitations: The sailplane is approved for Day VFR flight.

#### IV. Operating and Service Instructions

1. Flight manual and Operating and maintenance manual for sailplanes VT 16 Orlik and VT 115 Orlik 2- in Czech language

#### V. Notes

None