ROBIN

Robin is a development of Czerwinski's Salamandra, well known as a trainer in Poland before 1939.

Entwickelt aus Czerwinskis Salamandra, einem vor 1939 in Polen bekannten Schulungsflugzeug.

Développé du Salamandra de Czerwinski, planeur d'écolage bien connu en Pologne avant 1939.

Type designation	Robin
Country of design	Canada
Designer	W. Czerwinski
Date of first flight of prototype	September 1944
Number produced	2

Wings

Span (b)	11,35 m
Aera (s)	15,68 m²
Aspect ratio (b^2/s)	8,2
Wing root chord (C_r)	1,6 m
Wing tip chord (C_t)	0,977 m
Mean chord ($C = s/b$)	1,366 m
Wing section, root	Sikorski G.S.1
Wing section, mid	Sikorski G.S.1
Wing section, tip	Sikorski G.S.1
Dihedral	2,5°
¼ chord sweep	0,45°
Aero. twist root/tip	2°
Taper ratio (C_t/C_r)	0,61
Construction	Single spar, strutted, wooden construction with L.E. ply torsion box. 74% fabric covered. Ribs 0,305 m spacing.

Ailerons

Type	Plain
Span (total)	5,34 m
Area (total)	2,026 m²
Mean chord	0,378 m
Max. deflection up	25°
Max. deflection down	14°
Mass balance degree	Nil
Mass balance method	Nil
Construction	Wood structure, fabric covered.

Horizontal tail

Span	3,05 m
Area of elevator and fixed tail (S')	2,755 m²
Area of elevator	1,355 m²
Max. deflection up	25°
Max. deflection down	25°
Aerofoil section	Symmetrical
Tail arm (from ¼ [l'] chord m.a.c. wing to ¼ chord m.a.c. tail)	3,48 m
Elevator trimming method	Nil
Horizontal tail volume coefficient (S' l'/SC)	0,447
Construction	Wood structure, fabric covered.

Vertical tail

Area of fin and rudder	1,746 m²
Area of rudder	0,845 m²
Tail arm	3,70 m
Max. deflection	± 30
Aerofoil section	Symmetrical
Aerodynamic balance	Nil
Structure	Wood. Fabric covered.

Fuselage

Max. width	0,65 m
Max. height (at cockpit)	0,77 m
Overall length	5,8 m
Max. cross section	0,5 m²
Number seats and arrangement	1
Undercarriage type	Fixed wheel and fixed rubber mounted skid.
Structure	Frame and stringer, ply covered. Fibre glass nose cap. Open cockpit with wind shield

Lift increasing devices

Type	Nil

Drag producing devices

Type	Nil

Weights

Wings[1]	62 kg
Fuselage[2]	47 kg

[1] With struts, controls, flaps and brakes

[2] Complete with rudder and fin, less instruments and equipment