

**Chapter 1: General Description**

Span	15,00 m
Length	6,66 m
MAC	0,649 m
Wing area	9,73 m <sup>2</sup>
Wing aspect ratio	23,1
Max All-Up weight	486 kg
Max landing mass	486 kg
Max wing loading	50,0 kg/m <sup>2</sup>
Water compartment tanks	150 kg
Fin water compartment tank	5,5 kg / 4,1 kg (with tail battery)

**Chapter 2: Operating Limitations**Airworthiness category: **Utility****Aerobatic manoeuvres** not approved

Sideslip with winglets prohibited

**Airspeed limitations:**

Max calm air speed	V <sub>NE</sub>	270 km/h
Max rough air speed	V <sub>RA</sub>	190 km/h
Max manoeuvring speed	V <sub>A</sub>	190 km/h
Max aerotow speed	V <sub>T</sub>	190 km/h
Max winch speed	V <sub>W</sub>	140 km/h

Rough air = turbulence in wave-rotors, CB-clouds, dust devils, or turbulence in ridge lift.

Airspeed indicator colours:

Green arc 73 – 190 km/h

Yellow arc 190 – 270 km/h

Red radial line 270 km/h

Yellow triangle 90 km/h

<b>Load factors:</b>	<b>Max</b>	<b>Min</b>
At manoeuvring speed V <sub>M</sub>	+5,3	-2,65
At maximum speed V <sub>NE</sub>	+4,0	-1,5
With airbrakes extended	+3,5	0,0

**Weights:**

Empty weight	approx. 2xx kg
Max all-up	486 kg
Min weight pilot	see placard
Max pilot weight	120 kg
Max baggage load	5 kg
Trimming weights	5,0 kg / lead plate

Fin tank ballast is used to compensate for a forward shift of the centre of gravity due to wing ballast, pilot mass or both.

*Note: do not use the fin tank when there is the danger of the water ballast becoming frozen.*

**Weak links:**

Aerotow      max. 5 kN      **white**  
Winch        max. 7,5 kN      **red**

**Tire pressure:**

Main wheel    3 – 3,5 bar (no water ballast)  
Main wheel    4 bar (up to 486 kg)  
Tail wheel     6,2 bar

**Crosswind:**

The maximum demonstrated crosswind component is **20 km/h (11 kts)** for aerotow and **30 km/h (16 kts)** for winch launch

**Chapter 3: Emergency Procedures****Spin recovery:**

- 1) Apply full opposite rudder
- 2) Ease the control stick forward until the rotation ceases
- 3) Centralize the rudder and smoothly recover from the dive

**Emergency Exit:**

- 1) Pull both red handles to the stops
- 2) Push the canopy off at both red and white handles
- 3) Open the safety harness
- 4) Get up and get out

**Rain:** increase approach speed with at least 10km/h

**Inadvertent Freezing / Icing:** Do not dump water below 5°C. For prolonged flights below 5°C use no water ballast or add commercial anti-freezing solution.

**Emergency landing on water:** extend landing gear and open parachute harness.

**Chapter 4: Normal operation procedures****Winch launch:**

Trim slightly nose heavy

Pronounced forward stick pressure is necessary during transition arc to prevent pitch up tendency

Minimum speed: 90 km/h (without water ballast), 100 km/h (with water ballast)

**Aerotow:**

Trim slightly nose heavy

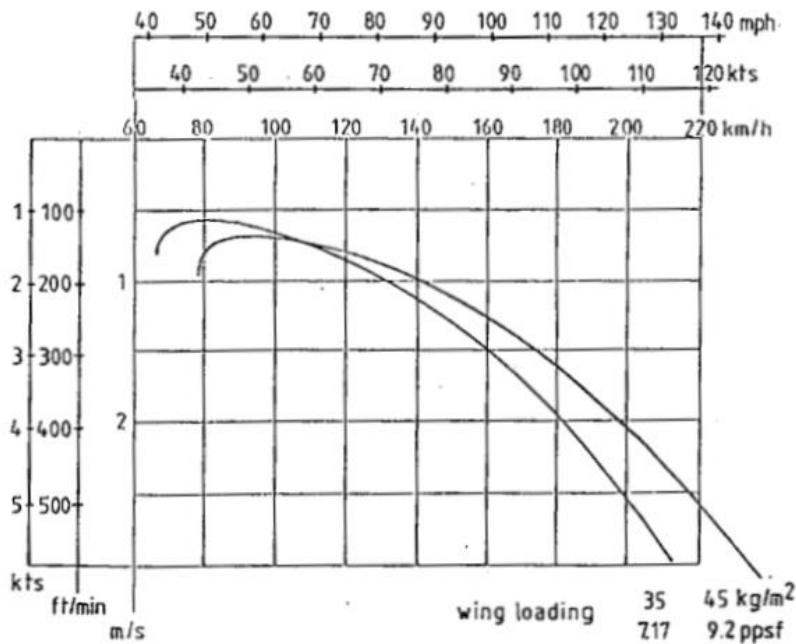
Minimum speed: 100 km/h (without water ballast), 120 km/h (with water ballast)

**Water ballast:**

Dumping the wing water ballast takes 15 seconds for every 10 litres.

*Note: before an off-field landing water ballast should always be dumped.*

### Flight polar:



### Chapter 4: Rigging and De-Rigging

#### Rigging:

- 1) Extend landing gear
- 2) Control stick neutral and water ballast lever closed, airbrakes unlocked
- 3) Left wing first, aileron slightly down (never upwards!), then right wing
- 4) Insert and lock main pins
- 5) Insert tail fin battery
- 6) When using water ballast:
  - Wings level
  - Open dump valve
  - Fill tail tank first by connecting funnel to dumping tube inside lower right rudder
  - Close dump valve and remove funnel from rudder
  - Open left wing valve through baggage compartment using knurled knot, (10 turns counter clockwise)
  - Remove ventilation plug at wingtip
  - Connect funnel to dump orifice on under side of left wing and fill with desired amount of water
  - Close ventilation at wingtip and close left wing valve using knurled knot clockwise
  - Repeat process for right wing
- 7) Install horizontal tail, secure with slotted nut against tapered pins until red marking on attachment brackets is invisible
- 8) Install winglets
- 9) Install TE-probe and mount battery in baggage compartment
- 10) Seal all gaps, furnish cockpit and complete daily inspection

**De-rigging:** Reverse assembly sequence