

(Translation)

Service Bulletin 3E
=====

Edition 2

Affected Aircraft: Motorglider type H-36 DIMONA

SNo's 3601-3616

3618-3619

3501-3503

Subject: Sandwich shell of the wings

Occasion: An imperfect bonding between the outer fibre-glass-skin of the wing and its supporting structure has been observed at one aircraft.

Required actions: 1. The maximum allowable speed V_{NE} must be reduced to 93 kts. Placards have to be attached on the data sheet and on the air-speed indicator.

2. Measurements of the bonding strength are to be performed according to the working instruction appended.

3. If a sufficiently good bonding is observed, action 1 has to be withdrawn.

4. If an unsufficiently bonding is observed,
the wings are subject of an extensive
examination by the manufactures.

Urgency: Action 1: before next flight

Action 2: until 1983 o2 28

Action 4: until 1983 o4 30

Weight and balance: not affected

Remarks: Action 2 has to be performed by a competent person
and must be certified in the logbook.

Action 2 and if necessary action 3 are to be performed
by the manufacturer, or a person who ist outhorized
by the manufacturer.and must be certified in the
logbook.

Action 4 has to be performed by the manufacturer.

Friesach/Hirt 1983 o2 o2

BAZ approved on 1983 o2 o8

Dipl.-Ing. D. Oppel

Baha

(Translation)

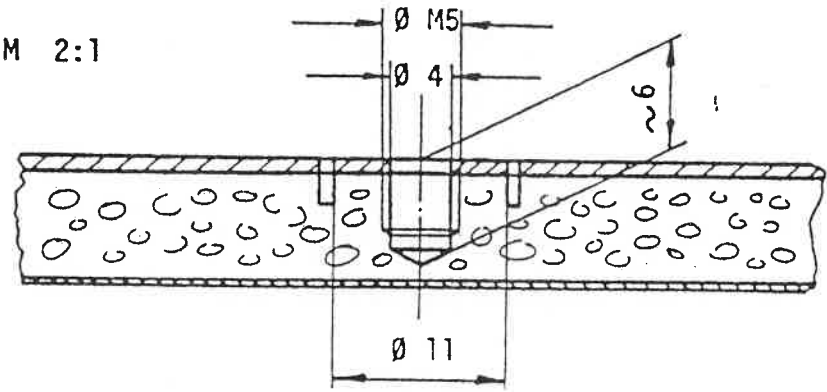
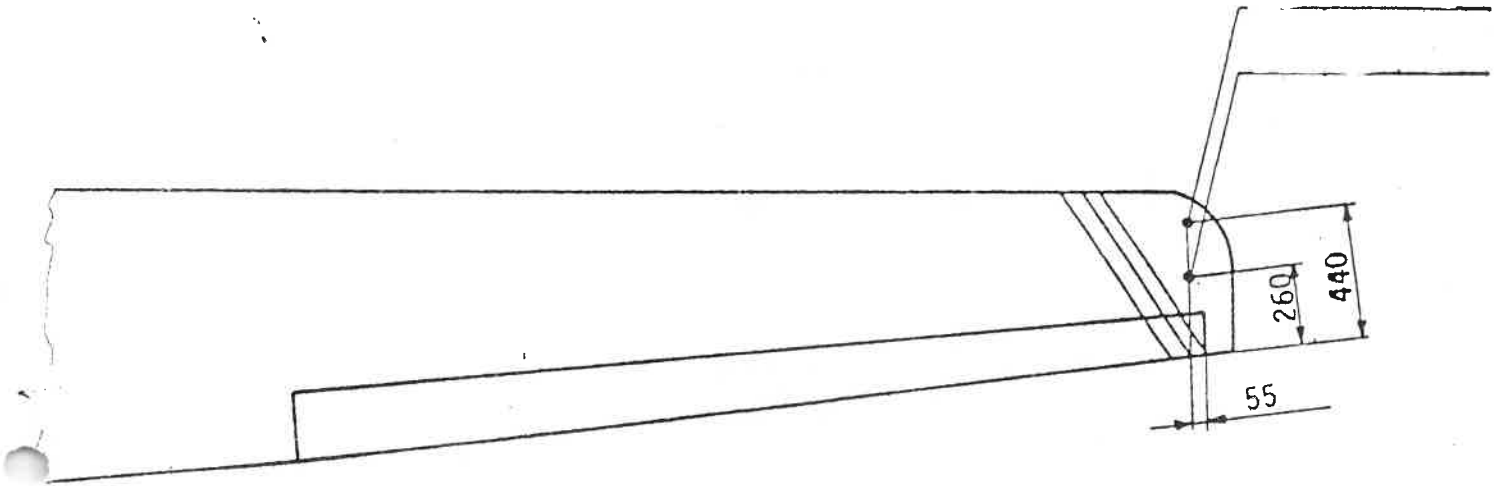
working instruction
=====

Holes with a diameter of 4 mm are drilled into the upper side and lower side of the wing on the locations D and E which are shown in the sketch below. Threads M 5 are to be cut into these holes. During drilling and cutting of the threads has to be worked exactly in a normal angle for not to disturb the interface between fibre glass and compositing structure lying below. With a ring shaped milling cutter of a diameter of 11 mm (see sketch below) the fibre glass has to be cut through with a low squeeze applied and a speed of 200 Rev/min. Then the tie rod will be wound into the boring with 2 revolutions and the force measuring device put over. The tie rod which emerges on the upper edge of the spindle must be tightendet with an M5 nut, whereas a low squeeze should be exerted into the handwheel. Now the handwheel must be turned until failure, and simultaneously the scale must be observed.

The maximal observed value must be multiplied by 1.33. The result is the ultimate load expressed in N/cm^2 . If the ultimate load is below 70 N/cm^2 , the wing must be examined in more detail by the manufacturer.

If a sufficient bonding is observed, the locations of measurement must be closed with epoxy resin.

working instruction
=====



Force Measuring Device
=====

