

SHEET:
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ASW 24 E
Technical Note
No. 5

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Subject: Improvement of the product by modification of the wing leading edge section. Optional retrofit mod to the outboard wing leading edge.

Serial number applicability: ASW 24 E, German Data Sheet no.859, all serial no.s.

Compliance: None, optional retrofit mod or optional when building new pair of wings for major repairs.

Reason: By rounding the leading edge the wing profile is better adapted to the low Re-Numbers in the aileron region where the wing chord is narrow and therefore Reynold's-Numbers are small. By this measure boundary layer air separation should be less in tight thermals and with strong turbulence.

Action: As shown in the drawings the wing leading edge is sanded in the area from the taper change to the aileron tip. By using templates the new leading edge contour is sanded down (max. 0.43 % of the local chord must be removed) until the first aramid (Kevlar) fibers become visible, then the area is smoothed and repainted. Because of the modified factory wing molds new production wings use automatically the new rounded leading edge.

Material and drawings: Disk containing coordinates of wing leading edge templates R 8 through R 13 (R = rib), and drawings 240.51.9001 and 240.51.9002, and wing geometry dimensions detailed in ASW 24 substantiation sheet 1402.

Mass and C.G.: The change in mass is low and, furthermore so close to the C.G. that it is not necessary to redetermine the mass and C.G. data.

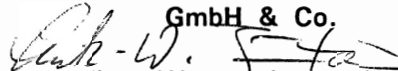
Notes: This retrofit mod can be accomplished by the manufacturer ALEXANDER SCHLEICHER, or by a licensed aircraft repairer holding the appropriate license. Because of the required molds, new wing pairs can only be built by the manufacturer. The accomplishment of this mod must be checked by a licensed aviation inspector under the conditions of a major mod and must be certified by him in the powered sailplane's inspection documents & log-book.

For this Technical Note the ASW 24 E substantiation has been supplemented by pages 6953 through 6963.

Poppenhausen, Jan. 5, 1995

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i.A.


(Lutz-Werner Juntow)

The German original of this Technical Note has been approved by the LBA under the date of JANUARY 9, 1995 (signature: H.FENDT). The translation into English has been done by best knowledge and judgement; in any case of doubt the German original is controlling.

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