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**ASW 24**  
**Technical Note**  
**No. 3**

**Alexander Schleicher**  
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Segelflugzeugbau  
D-6416 Poppenhausen

Subject: Smiley-waterbags.

Serial number applicability: All serial no.s ASW 24, Data Sheet no.366.

Compliance: None, optional mod only.

Reason: The experience of many years in the U.S.A. with other Smiley waterbags of the same design have lead us to the conclusion that the Smiley-waterbags have proven better than the bags which we have used so far. Because of the outstanding quality of these waterbags it is also possible to drop the previous requirement that the bags must be double-walled.  
Another advantage is the low mass of the Smiley bags. However, for the new Smiley bags special inspection procedures are prescribed and their service life is provisionally restricted to six years.

Action:

1. For making and installing these waterbags the following apply:  
Smiley waterbag, 4.28 m, 240.05.0201  
Installation drawing 240.51.9001 "Wing general lay-out drawing".  
The above bag corresponds in dimension and capacity to the previously installed SCHLEICHER standard factory bag.  
  
As an additional option a special U.S. waterbag version with larger capacity can be offered:  
Smiley waterbag, 5.04 m, US-version 240.76.0209  
Installation drawing 240.76.9001 "Waterballast installation in the wing, US-Version".  
The standard factory water drain valve cannot be used with the US version; instead the following must be installed:  
Water drain valve in wing, US-version 240.76.1004  
Tube for waterbag, US-version 240.76.0210  
Clamp for waterbag tube, US-version 240.76.0211.
2. The Maintenance Manual pages 0.4, 0.5, 2.20, 2.22, 2.27, 4.5, 7.6 and 12.7 must be exchanged for new pages with the revision note "TN 3" dated "27.04.90". Make the corresponding entry in the "Record of Revisions" (Page 0.2 / 0.3 of the manual).

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Material & drawings:

1. See drawings detailed in above para "Action".
2. The Smiley waterbags are made and inspected according to "Process Specification for Smiley Glider Water Bags AS (Alexander Schleicher) Model Sailplanes", dated Feb. 7, 1990, issued by SSI, Apex, NC. USA.
3. Material as shown in drawing "Cross section of Smiley waterbags".

Mass and C.G.:

It is not necessary to redetermine the mass and C.G. data because the location of the waterbags is within the permissible in flight mass C.G. range.

Notes:


The installation of the Smiley waterbags can be done by any competent person.

Pay attention to the special inspection procedures and the provisional service life restriction (stated in the ASW 24 Maintenance Manual)!

On Maintenance Manual page 12.7 the supplemental Maintenance Instructions which have been new issued, have been entered. Owners may address to the manufacturer or to the Schleicher agency in their country in order to get copies of the latest Maintenance Instructions.

Poppenhausen, April 27, 1990

**ALEXANDER SCHLEICHER**  
GmbH & Co.

i.A.   
(Lutz-W. Juntow)

The German original of this Technical Note has been approved by the LBA under the date of July 11, 1990 (signature: SCHMALJOHANN). 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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**SHEET:**  
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**SPECIFICATION for  
"Smiley"-Waterbags  
Issue I**

**Alexander Schleicher**  
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**Subject:** Specification for "Smiley"-waterbags intended for use in SCHLEICHER gliders.

**Action:** The waterbags are built according to drawing "Cross Section of Smiley Waterbags" which contains the reference to further applicable drawings for the respective glider model.

**Material:** Outside skin: Neoprene-coated Nylon in accordance with MIL-C-17415, Type 16AA (17 oz/yard<sup>2</sup>).

V-angle: Neoprene-coated Nylon in accordance with MIL-C-17415, Type 16AA (8 oz/yard<sup>2</sup>).

Glue: Adhesive, natural or synthetic rubber in accordance with MMM-A-139 (replaces MIL-C-5539 A).

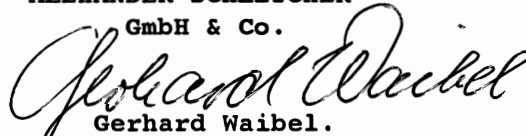
**Processing:** See Process Specification for Smiley glider water bags, for use in AS (Alexander Schleicher) Model Sailplanes, issued by Survival Systems (SSI) International Corp., Apex, NC, U.S.A., dated February 7, 1990.

**Inspection:** The waterbag ready-to-assemble, i.e. with valve and vent tube fitted, but NOT INSTALLED IN THE GLIDER, must undergo a pressure and leakage check applying 0,2 bar high pressure. After a cooling of about 2 min. the pressure drop in the following 5 min. must not exceed 1 %.

**Periodic Inspection:** Check for porosity, water seepage and leakage as specified in Section 7.1 of the ASW 24 Maintenance Manual.

Poppenhausen, May 7, 1990

**ALEXANDER SCHLEICHER**  
GmbH & Co.

  
Gerhard Waibel.

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