

Manual amendments

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3	3, 32, 48	TN 384/7 Dimple-tape-turbulators on the lower wing surfaces	Dec. 2000	

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	drawing 8V 96		19.12.94

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4.7 Control surface seals and turbulators

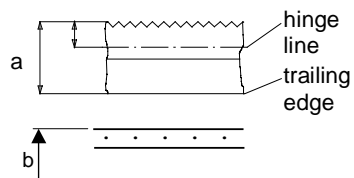
4.7.1 Wing upper surface

The sealing is installed in a groove at the trailing edge of the wing. The Mylar seal is glued into the depression with a film tape at the leading edge of the sealing. PVC tape is glued over the sealing to cover the gap between wing and sealing. The leading edge of the PVC tape shall be 8 mm (1/5 in.) in front of this gap.

4.7.2 Wing lower surface

a) Version with combi tape:
Sealing and turbulator are combined (combi sealing). The combi sealing is already equipped with selfadhesive film tape. Prior to removing the old combi sealing mark the position of the turbulator leading edge with a pencil on the wing surface, otherwise see sketch distances a. The inboard combi sealing is 7.0 m (22.97 ft.) long and 43 mm (1.7 in.) wide. The outboard part is 1.45 m (4.76 ft.) long and 38 mm (1.5 in.) wide.

b) Version with dimple tape:
Instead of combi tape a dimple tape may be installed as turbulator. The sealing of the flaperon gap is done with the internal sealing according to sect. 4.9.1. Operation without this sealing is not permitted. The leading edge of the tape is located at distances b in front of the flaperon trailing edge.



Position	y mm	a mm	b mm
flaperon root	380	155	158
contour brake	4500	130	133
parting	7250	95	98
flaperon tip	8650	78	81

4.7.3 Flaperons

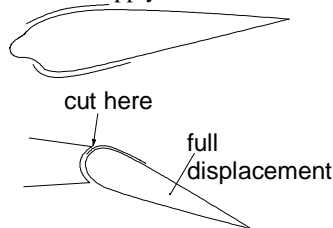
To reduce the friction as far as possible a 38 mm (1.7 in.) wide selfadhesive Teflon coated glass fabric is glued on upper and lower side of the flaperon see sketch (with internal sealing according to sect. 4.9.1 apply no fabric on the lower surface).

Prior to removing the old fabric, mark its trailing edge with pencil on the flaperon surface. The fabric must be installed so that the sealing slides always on the fabric.

Cutting the front of the fabric is easiest if the sealings are not installed.

Insert the flaperon and use full displacement. Cut the front end of the fabric with a sharp knife along the wing leading edge see sketch.

With the sealing installed, you have to measure the position of the front end. Cut it off by hand with the flaperon removed from the wing.



8 Partlist

Control surface sealings and turbulators

1. Wings - upper surface
 - 30003125 Mylar sealing 0.19 x 22 mm without glue, curved, 2x8.45 cm (27.72 ft.)
 - 70000253 Tesafix No. 4965, 9 mm wide, 50 m roll glue film
 - 70000229 Tesafilm 4104 white, 19 mm wide, 66 m roll PVC tape

 2. Wings - lower surface
 - 30003132 Combi sealing 43/19/06, 2 x 7 m (23 ft.)
 - 30003131 Combi sealing 38/19/06, 2 x 1.45 m (4.76 ft.)
 - or
 - 30003300 Noppenband 10m roll (dimple turbulator tape)

 3. Flaperons (sliding surface and internal sealing)
 - 30003136 Teflon-glassfabric 0.08 x 38 mm, 33 m roll selfadhesive

 4. Horizontal tailplane
 - 30003129 Zig-zag turbulatortape 60 degree 0.4, 2 x 2.44 m, (8.0 ft.)
 - 30003128 Mylar sealing 0.19 x 30 mm without adhesive, curved, leading edge scarfed, 2 x 2,5 m (9.2 ft.)
 - glue film see 1.
 - 70000237 Tesafilm 4104 white, 30 mm wide, 60 m roll PVC tape

 5. Vertical tailplane
 - Sealing see 4. 2 x 1.1 m (3.6 ft.)
 - glue film see 1.
 - Tesa film see 4.
- or 30003123 Combi-sealing 43/19/06 2 x 1.1m (3.6 ft)
- internal sealing
70000295 3M Scotch V-seal weatherstrip 2 x 1.05 m (3.45 ft)