

Test Certificate

Proof of Breaking Load of Hook- and Loop Collar for Rotor Blades by Tensile Test

General data

Manufacturer: Planen Service Angeln
Meiereistr. 17
24991 Mühlenbrück / Großsolt

Test location: Flensburg

Test date: 12.10.2016 / 21.10.2016

Data test specimen:

Test specimen: A Hook and Loop collar for adjusting of rotor blades

Type: Hook and Loop collar for rotor blades

Serial-Nos.: Type serial nos of test specimen
0003, 0005, 0006, 0008

Structure: collar made of PVC fabric canvas, reinforced in the middle crosswise and at the outer edges with PVC web belt as well as stitched EPDM-layer and stitched hook- and loop tape; PVC web belt with chain link; junction of PVC-web belts reinforced with a steel plate (made of stainless steel)

Dimensions: length 4275 mm, width 1500 mm

Number of test specimen: 4

Scope of testing

Test rig: Tensile test with overhead crane, max. lifting weight 5.900 kg, Load cell manufacturer HBM, Type RSCE6TC320431
Ser. No. 274096A

Required breaking load: min. 20,0 kN

Target: Determining of breaking load

Test arrangement

The collar has been imposed on a dummy (made of steel) of the rotor blade, whereas the dummy was pulled via a traverse by an overhead crane to the top. The chain link of the collar was fixed to the floor. A load cell was mounted between the load bearing hook of the crane and the traverse for determination of the lifting force.

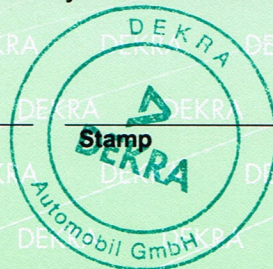
Result

The breaking load couldn't be determined because the maximum lifting capacity of the overhead crane of 5900 kg was not sufficient. After the tensile test no cracks or other damages at the collars could be recognised. Only the reinforcement (steel plate) was slightly deformed. The required breaking load of 20,0 kN could be verified by the four tensile tests.

Hamburg, 12.10. / 21.10.2016

Place / Date

Sign




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