

Test Certificate

Proof of Breaking Load of Heavy-Lifting Bags by Tensile Test

General data

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

Test location: Flensburg

Test date: 18.09.2014

Data test specimen:

Test specimen: Heavy Lifting Bag / Transport Bag

Type: 33, 40, 50 and 60

Serial Nos.: Type 33: T100228, Type 40: T100201
Type 50: T100289, Type 60: T100299

Structure: cylindrical bag made of PVC fabric canvas, with reinforced bottom, carrying strap made of PVC web belt, carrying strap at one side with lifting unit consisting of lug closed by spot welding and galvanized snap-hook, fixation of belt at the bag with screwed plates of stainless steel

Dimensions: Ø 330 mm, Ø 400 mm, Ø 500 mm, Ø 600 mm
Height of test specimen 640 mm (other heights possible)

Number of test specimen: one Transport Bag per diameter

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. 10,0 kN

Target: Determining of breaking load

Test arrangement

Due to a better load distribution the bottom of the bag was provided with a strong piece of laminated wood, which has been fixed by four bolts with the concrete floor. The bags were pulled at the carrying straps by the overhead crane. A load cell was mounted between the load bearing hook and the carrying straps for determination of the lifting force. It was pulled till breakdown of the test specimen.

Result

| | | |
|----------------|--------------|---------|
| Breaking load: | Bag Ø 330 mm | 10,6 kN |
| | Bag Ø 400 mm | 10,7 kN |
| | Bag Ø 500 mm | 14,1 kN |
| | Bag Ø 600 mm | 10,5 kN |

The carrying straps were torn out of the screwed connections at all bags.
Damages at the bottom or at the jacket couldn't be recognised.



Hamburg, 06.10.2014

Place / Date

Stamp

Sign

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