

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 and 50
Serial Nos.: Type 33: T200001, Type 40: T200002,
Type 50: T200003
Structure: cylindrical bag made of PVC fabric canvas, with reinforced bottom,
two carrying straps made of PVC web belt welded with the bag at
both ends
Dimensions: Ø 330 mm, Ø 400 mm and Ø 500 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 19,6 kN
Bag Ø 400 mm 18,7 kN
Bag Ø 500 mm 19,1 kN

The carrying straps were torn out at the seat of the bags at a.m. breaking load.

Damages at the bottom or at the jacket couldn't be recognised.




Hamburg, 06.10.2014

Place / Date

Sign