

# Test report

REPORT NUMBER:  
879552

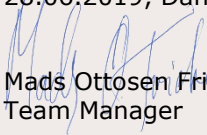
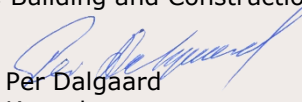


**DANISH  
TECHNOLOGICAL  
INSTITUTE**

Teknologiparken  
Kongsvang Allé 29  
DK-8000 Aarhus C  
+45 72 20 20 00

Info@teknologisk.dk  
www.teknologisk.dk

Page 1 of 3  
Init.: MFRI/PD  
Appendices: 1

- Customer:** Nordic Construction Solutions ApS  
N P Danmarksvej 93  
DK-8732 Hovedgård
- Material:** 3 walls delivered, each with dimensions of approximate 78 x 78 cm., and marked 1-3. Specimen 3 has an embedded box/power socket for electricals. See photo 3-4
- Sampling:** The test material was forwarded by the client and received at the Danish Technological Institute on 2019-06-11. The test material was labelled 1-3.
- Period:** The testing was carried out on 17-19.6.2019.
- Method:** Test method is described and performed according to the request of the customer.
- Result:** The results of the test are given on page 3.
- Storage:** The sample will be destroyed after 2 months if nothing else has been agreed in writing.
- Terms:** The test has been performed according to the general terms and conditions of The Danish Technological Institute. The results from DTI's work in this report, i.e. analyses, assessments and instructions may only be used or reported in their entirety. The customer may not mention or refer to DTI or DTI's employees for advertising or marketing purposes unless the DTI has granted its written consent in each case.
- Place:** 28.06.2019, Danish Technological Institute, Building and Construction, Aarhus
- Signatures:**
- |  |   |
|--|---|
| <br>Mads Ottosen Fricke<br>Team Manager | <br>Per Dalgaard<br>Konsulent |
| Telephone: +45 7220 1851<br>E-mail: mfri@teknologisk.dk  | Telephone.: +45 7220 1149<br>E-mail: pd@teknologisk.dk  |



## Test

Danish Technological Institute, Building and Construction has been requested to do this test according to the customer's described method.

## Initial preparation

### Specimen 1.

A hole of 4 mm is drilled, and a standard "NKT 5.0 x 50/35 mm SPUN+ HIGH-SPEED CLIMATE -G3" screw is mounted.

### Specimen 2.

A hole of 4 mm is drilled, and a standard "NKT 5.0 x 50/35 mm SPUN+ HIGH-SPEED CLIMATE -G3" screw is mounted.

### Specimen 3.

A matrice is prepared and mounted in the embedded box in the wall. This is done to be able to make a pull in the box.

## Method

Following procedure is performed according to the request of the customer.

All three walls are fixed to a test rig.

### Specimen 1

A vertical pull in the screw is done, to a maximum force.

### Specimen 2

A horizontal pull in the screw is done, to a maximum force.

### Specimen 3

1. A horizontal pull in the matrices (mounted in the embedded box) is done, with 200 N (approx. 20 kg) in an 45° angle from the plane with a rotation of 360° (cone shade). The rotation is done in 1 minute. This is to simulate torsion.
2. After this a horizontal pull is done, to a maximum force.



## Test results

Maximum forced measured are given in the table below.

Test no.	Specimen	Description	Result - Force [Kg]
1	1	Vertical pull	174
2	2	Horizontal pull	93
3	3	45° cone shaped 360° 20 kg pull	Ok
4	3	Horizontal pull	62

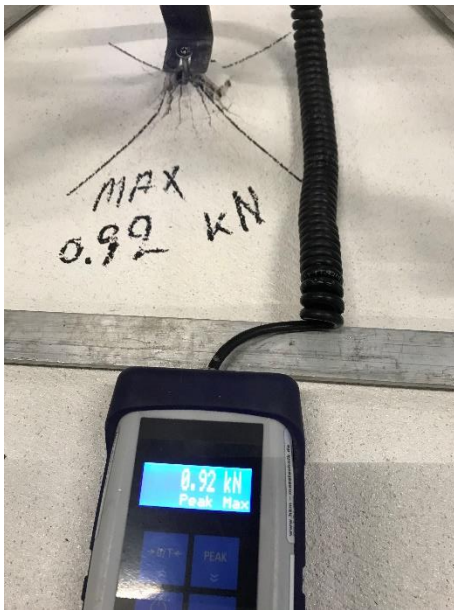


Photo 1 – Test 2 Specimen 2



Photo 2 - Test 2 Specimen 2



Photo 3 - Test 4 Specimen 3



Photo 4 - - Test 4 Specimen 3



The general conditions pertaining to assignments accepted by Danish Technological Institute shall apply in full to the technical testing or calibration at Danish Technological Institute and to the completion of test reports or calibration certificates within the relevant field.