

Test Report

Report no.: 20018



**DANISH
TECHNOLOGICAL
INSTITUTE**

Gregersensvej
DK-2630 Taastrup
Tel. +45 72 20 20 00
Fax +45 72 20 20 19

info@teknologisk.dk
www.teknologisk.dk

Assignor: Sika Denmark A/S
Attn. Sanne Thrane
Industrivej 20 B, DK-8800 Viborg
Thrane.sanne@dk.sika.com

Notified body no. 1235

Page 1 of 2
axs/pabe/hk
Order no. 927136

Subject: **Skaltherm Insulation plates**
See details on page 2.

Sampling: The test material was forwarded by the client and received at the Danish Technological Institute on the dates given on page 2. Marking, information and the labelling are given by the assignor.

Method: See page 2.

Equipment NBY: 1) Horizontal GHP 270-T-2076, encapsulated in a thermostatic controlled box, 2) Thermometer for box temperature sensor 270-T-2092, 3) Shunt resistor ID140924, 4) Data logger ID6187, 5) Slide calliper 270-T-2052 and telescoping gauge, 6) Balance 270-T-2054 for weight of the sample, 7) Laboratory temperature 270-T-2070 and 8) Laboratory air humidity 270-T-2088.

Result: The test results are given on page 2.

Terms: This test was conducted accredited in accordance with international requirements (ISO/IEC 17025:2017) and in accordance with the General Terms and Conditions of Danish Technological Institute. The test results solely apply to the tested item. This test report may be quoted in extract only if Danish Technological Institute has granted its written consent.

Construction product regulation: The Danish Technological Institute guarantees that employees carrying out tests to be used together with harmonized standards under notification no. 1235 according to EU regulation 305/2011, article 43, satisfy all the requirements made for capability, integrity and impartiality. You find the CPR here: <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=uriserv:OJ.C .2017.267.01.0016.01.ENG>

Date/place: 2020.05.13, Danish Technological Institute, Energy and Climate, Taastrup

Signature: Test responsible
Alexander Souproun, Senior Consultant
Thermal Laboratory TELA

Test results

Report no. 20018

Page 2 of 2

Manufacturer
Skalflex

Sampled by
-

Invoice to
Sika Denmark A/S
Attn. Dorte Buus Kristensen
Hirsemarken 5
3520 Farum

Test sample
Material: Skaltherm Insulation plates
Dimensions [mm]: 500 x 500 x 50
Client marking: -
Id. no.: - Order reference: -
Receipt control no.: -

Table 1: Test samples

| | | 1 | 2 |
|----------------------------|-------------------|-------|-------|
| Length | mm | 0,498 | 0,499 |
| Width | mm | 0,497 | 0,498 |
| Weight at arrival | kg | - | - |
| Weight before test | kg | 3,857 | 3,855 |
| Weight after test | kg | 3,857 | 3,855 |
| Change of mass during test | kg | 0,000 | 0,000 |
| Density during test | kg/m ³ | 310,0 | 307,7 |
| Thickness during test | mm | 50,3 | 50,4 |
| Thickness before test | mm | 50,3 | 50,4 |
| Thickness after test | mm | 50,3 | 50,4 |
| Change of thickness | mm | 0,0 | 0,0 |
| Moisture during test | weight % | - | - |

Test specimen: Two boards.

Method

Test is carried out according to:

| | |
|----------------------------|--|
| DS/EN 14306:2013 + A1:2015 | Thermal insulation products for building equipment and industrial installations - Factory made calcium silicate (CS) |
|----------------------------|--|

Conditioning
None

Dates
Sampled: -
Test sample received at DTI: 2020.05.04
Testing: 2020.05.06

Results
See table 2. Measurement uncertainty: $\pm 2\%$

Table 2: Test results

| Test no. | | 1 |
|--------------------------------------|---------------------|--------|
| Mean surface temperature of specimen | Hot side °C | 19,87 |
| | Cold side °C | 0,45 |
| Mean temperature difference | K | 19,42 |
| Mean temperature | °C | 10,16 |
| Temperature in cabinet | °C | 8,99 |
| Room temperature | °C | 10,14 |
| Mean thermal conductivity | W/(m·K) | 0,0794 |
| Heat flow q_{meas} | W/m ² | 30,63 |
| Thermal resistance R_{meas} | m ² ·K/W | 0,634 |

q and R at 50,35 mm

Operator
AXS

Remarks
Deviations from the standard: None.