

# Test Report

Report no.: 19018



**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

Page 1 of 2  
otp/axs/hk  
Ordre no. 841864

**Assignor:** Cocotec  
Attn. P. Jegathasan  
Nørregade 30, 1. sal -43  
DK-7400 Herning, Denmark  
[jjobc@hotmail.dk](mailto:jjobc@hotmail.dk)

**Subject:** **Cocosfibre Board (Dark)**  
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.

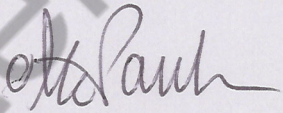
**Equipment** DYNATECH: 1) Horizontal GHP 270-T-2050, encapsulated in a thermostatic controlled box, 2) Shunt resistor 270-T-2062, 3) Data logger ID6184, 4) Slide calliper 270-T-2052 and telescoping gauge, 5) Balance 270-T-2054 for weight of the sample, 6) Laboratory temperature 270-T-2070 and 7) Laboratory air humidity 270-T-2088.

**Result:** The test results are given on page 2.

**Storage:** The test material will be destroyed after 1 month, unless otherwise agreed.

**Terms:** The accredited test was carried out according to DANAK's general conditions see [www.danak.dk](http://www.danak.dk) and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

**Date/place:** 2019.02.06, Danish Technological Institute, Energy and Climate, Taastrup

**Signature:**   
Test responsible  
Otto Paulsen, Head of Laboratory  
Thermal Laboratory TELA

## Test results

Report no. 19018

Page 2 of 2

### Manufacturer

Cocotec

### Sampled by

Dancert

### Invoice to

Cocotec

Attn. P. Jegathasan

Nørregade 30, 1. sal -43, DK-7400 Herning

Denmark

[jjobc@hotmail.dk](mailto:jjobc@hotmail.dk)

### Test sample

Material: Cocosfibre Board (Dark)

Dimensions [mm]: 600 x 600 x 35

Control no.: Sample no. 2 Marked: -

Requisition no.: -

**Table 1: Test samples**

		1	2
Length	mm	602	602
Width	mm	600	600
Weight at arrival	kg	-	-
Weight before test	kg	3,998	4,030
Weight after test	kg	3,998	4,030
Change of mass during test	kg	0,000	0,000
Density during test	kg/m <sup>3</sup>	320,1	325,8
Thickness during test	mm	34,6	34,2
Thickness before test	mm	34,6	34,2
Thickness after test	mm	34,6	34,2
Change of thickness	mm	0,0	0,0
Moisture during test	weight %	-	-

Test specimen: Two boards.

### Conditioning

Dried before test at 70 °C.

### Dates

Sampled: -

Test sample manufactured: -

Test sample received at DTI: 2019.01.17

Testing: 2019.01.25

### Results

See table 2. Measurement uncertainty: ±2%

**Table 2: Test results**

Test no.		1
Mean surface temperature of specimen	Hot side °C	18,80
	Cold side °C	1,32
Mean temperature difference	K	17,48
Mean temperature	°C	10,06
Temperature in cabinet	°C	9,61
Room temperature	°C	9,47
Mean thermal conductivity	W/(m·K)	0,0516
Heat flow $q_{meas}$	W/m <sup>2</sup>	26,99
Thermal resistance $R_{meas}$	m <sup>2</sup> ·K/W	0,667

q and R at 34,41 mm

### Operator

AXS

### Remarks

Deviations from the standard: None.

Relative moisture at delivery: 13,7%.

### Method

Test is carried out according to:

DS/EN 12667:2001	Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Products of high and medium thermal resistance
ISO 8302:1991	Thermal insulation - Determination of steady-state thermal resistance and related properties - Guarded hot plate apparatus