

Test report

Skamotec 225

Skamol A/S
Østergade 58-60
DK-7900 Nykøbing Mors
Denmark

File: PF13386
Serial No.: 12612
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1 SPONSOR

Skamol A/S
Østergade 58-60
DK-7900 Nykøbing Mors
Denmark

2 MATERIAL

Calcium silicate board.

Trade Name

Skamotec 225.

3 NAME OF MANUFACTURER

The sponsor is the manufacturer.

4 NATURE OF TEST

With reference to DBI-Danish Institute of Fire and Security Technology's sampling report dated 2010-08-27, file No. CP00006a, the sponsor desired initial type testing (ITT) in accordance with EN ISO 1182:2010 and EN ISO 1716:2002.

5 SAMPLE

2010-09-07 DBI received the following sample:

1 board of Scamotec 225, with the dimensions 1000 x 610 x 25.5 mm.

Density at 20°C (undried): 228 kg/m³ at the state of receipt determined by weight and measures of the sample.

The sample was marked "CP00006 2010-08-26 TN".

The following information was given by the sponsor:

- Density: 225 kg/m³
- Fibre content: 4.3 %

Five specimens were prepared from the sample for the EN ISO 1182 test and the sample was also used for the determination of heat of combustion.

6 CONDITIONING

The specimens were stored in a conditioning room having an atmosphere with a relative humidity of 50 ± 5 % at a temperature of 23 ± 2 °C. The specimens were kept in this room until the tests were performed.

7 TEST METHODS

The tests were performed in accordance with

EN ISO 1182:2010 Reaction to fire tests for building products -
Non-combustibility test (ISO 1182:2010)

EN ISO 1716:2002 Reaction to fire tests for building products –
Determination of the heat of combustion
(ISO 1716:2002)

8 TEST RESULTS

8.1 EN ISO 1182:2010

Date of test: 2010-09-10.

In the following table is shown initial furnace temperature, maximum furnace temperature rise in relation to final equilibrium temperature, together with observations of flaming and the loss of mass.

Test specimen No.	Initial furnace temperature (°C)	Maximum temperature rise furnace (°C)	Duration of sustained flaming (s)	Mass loss (%)
1	746	3	0	10.3
2	749	5	0	10.2
3	746	4	0	10.5
4	747	4	0	10.4
5	748	4	0	10.4
Mean value	747	4	0	10.4



8.2EN ISO 1716:2002

Date of test: 2010-09-13

Test No.	Gross heat of combustion (pCS) in MJ/kg
1	0.64
2	0.71
3	0.66
4	-
5	-
Mean value	0.67

9 STATEMENT

The test results relate to the behaviour of the test specimens of the product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.



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