

Test Report No. 23372C

Sponsor

SABETOFLEX APS
Hesthøjvej 13
7870 Roslev
Denmark

Trade name of the roof covering

Sabetoflex roofing PIB Cold roof

Manufacturer of the roof covering

SABETOFLEX APS
Hesthøjvej 13
7870 Roslev
Denmark

Supplier of the roof covering

SABETOFLEX APS
Hesthøjvej 13
7870 Roslev
Denmark

Nature of the tests

Test methods for external fire exposure to roofs: Test method 2: Method with burning brands and wind. The test has been carried out according to CEN/TS 1187:2012 and is assessed to fully comply with ENV 1187/A1:2005.

PREPARED BY

APPROVED BY

This report consists of 6 pages including 1 annex

This document is the original version of this test report and is written in English.

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1. DATA CONCERNING THE TEST SPECIMENS

Type of specimen: Covering and sealing systems including any insulating layers or vapour barriers.

The firm SABETOFLEX APS has provided the laboratory, on 05/02/2024, with material to mount 6 specimens. These roof specimens were prepared conforming to the prescriptions of the above-mentioned standard. The laboratory supervised the specimen fabrication. The tests have been carried out at WFRGent NV, located at Ottergemsesteenweg-Zuid 711, 9000 Ghent, Belgium.

Sampling by	:	Ed Steijn (the sponsor)
Sampling date	:	14-02-2024
Sample ID	:	Not communicated by the sponsor
Production place	:	7870 Roslev Denmark
Production line	:	1
Production date	:	11-01-2024
Identification within the quality system	:	Not communicated by the sponsor

2. CONDITIONING

Before testing, the samples have been conditioned according to the specifications of the standards mentioned above.

Start conditioning	:	20/03/2024
End conditioning	:	25/03/2024

3. DESCRIPTION OF THE TEST ROOF DECK

This description is based on information given by the sponsor.

		Nominal values (1)	Measured values (2)
SUBSTRATE			
Material		Wood particle board according to § 5.4.2 of CEN/TS 1187:2012	
ADHESIVE			
Material		SBR rubber contact glue	
Trade name		EasyFlex Adhesive	
Manufacturer / Supplier		Easyflex APS	
Applied amount, wet (g/m²)		150	
Solid content (m%)		29	
Use of flame retardants		No	
Curing time		5 minutes	
Application method		Spray	
ROOF COVERING			
Material		Top foil made of UV-resistant polyisobutylene	
Trade name		Sabetoflex roofing PIB with FR	
Manufacturer/ Supplier		Sabetoflex APS	
Total thickness (mm)		1,3	(3)
Total surface weight (g/m²)		1761	(3)
Flame retardants		None	(3)
Organic content (m%)		Not communicated by the sponsor	
Fixing method		Adhered	
Joints		None	

(1) Based on the information given by the sponsor

(2) Values verified by the laboratory

(3) Unverifiable by the laboratory, since the sponsor did not provide the laboratory with samples for measurement.

4. TEST RESULTS AND OBSERVATIONS

Test date: 25/03/2024

Roof pitch: 30°

Ambient temperature: 17 °C

Test roof		1	2	3	4	5	6
Air velocity below (m/s)		2,00	2,00	2,00	4,10	4,10	4,10
Air velocity above (m/s)		5,90	5,90	5,90	5,90	5,90	5,90
Observations during the test							
Time of ignition	(min:s)	01:25	01:20	01:18	00:59	01:01	00:54
Time when flames die out	(min:s)	09:28	09:14	09:49	08:16	09:14	08:56
Time when glow dies out	(min:s)	08:36	09:46	10:09	07:35	07:55	09:47
Observations during and after the test							
Melting	(yes/no)	No	No	No	No	No	No
Foaming	(yes/no)	No	No	No	No	No	No
Charring	(yes/no)	Yes	Yes	Yes	Yes	Yes	Yes
Expansion	(yes/no)	Yes	Yes	Yes	Yes	Yes	Yes
Shrinkage	(yes/no)	Yes	Yes	Yes	Yes	Yes	Yes
Delamination	(yes/no)	No	No	No	No	No	No
Observations after the test							
Damaged length roof covering (mm)		430	290	330	270	510	230
Damaged length substrate (mm)		430	290	300	270	510	230
Damaged area roof covering (mm ²)		23000	17000	19950	17850	31900	14175
Damaged area substrate (mm ²)		23000	17000	19950	17850	31900	14175
Maximum depth of damage (mm)		2	2	2	2	2	2

Results			
		Mean value	Max. value
2 m/s	Damaged length roof covering (mm)	350	430
	Damaged length substrate (mm)	350	430
4 m/s	Damaged length roof covering (mm)	337	510
	Damaged length substrate (mm)	337	510

5. DIRECT FIELD OF APPLICATION OF TEST RESULTS

5.1. Roof pitch

The roof as described has been tested with a roof pitch of 30°.

The test results apply for all pitches, as defined in § 5.10.5 of the standard.

5.2. Nature of the deck

The roof as described has been tested with the following supporting deck: Wood particle board in accordance with §5.4.2.2 of CEN/TS 1187:2012. The test results apply, as defined in § 5.10. of the standard, for combustible and non-combustible substrates (510 kg/m³ or more).

Photos of the test specimens before and after the test: Annex 1.

Photo of the test specimen after the test

After test at 2 m/s



After test at 4 m/s

