

Kompositterrasse.dk

TEST REPORT

SCOPE OF WORK

145*13 solid exterior cladding / coextrusion

REPORT NUMBER

220517010SHF-002

TEST DATE(S)

2022-05-17 - 2022-06-14

ISSUE DATE

2022-06-14

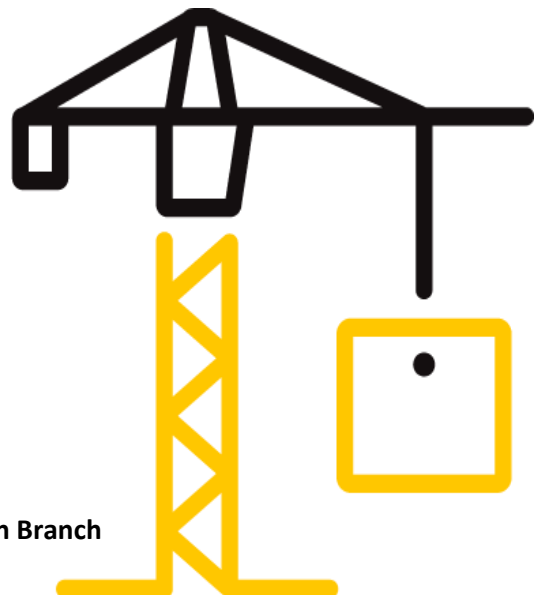
PAGES

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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(May 1, 2021)

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Test Report

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Test Report

Issue Date: 2022-06-14 Intertek Report No. 220517010SHF-002
 Applicant: Kompositterrasse.dk
 Address: Lilleringvej 2, 8462 harlev j, Denmark
 Attn: Mr. Shi
 Test Type : Performance test, samples provided by the applicant.

Product Information

Product Name	145*13 solid exterior cladding / coextrusion	Brand	/
Sample Description	Good Condition	Sample Amount	1 box
		Received Date	2022-05-17
Sample ID	Model	Specification	
S220517010SHF.003~004	145*13MM cladding	145*13	

Test Methods And Standards

Test Standard	EN 13823:2010+A1:2014 and EN ISO 11925-2:2020
Specification Standard	EN 13501-1:2018
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized

Sally Xie

Name: Sally Xie

Title: Reviewer



Lu Cheng

Name: Lu Cheng

Title: Project Engineer

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Test Items, Method and Results:

EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

1.1 SINGLE BURNING ITEM TEST

The test was conducted in accordance with EN 13823. This test evaluates the potential contribution of a product to the development of a fire, under a fire situation simulating a single burning item near to the product.

RESULTS AND OBSERATIONS

Method	Parameter	Specimen 1	Specimen 2	Specimen 3	Average
EN 13823:2010 +A1:2014*	FIGRA _{0.2MJ} , W/s	362	366	354	361
	FIGRA _{0.4MJ} , W/s	362	366	354	361
	THR _{600s} , MJ	39.8	40.7	38.7	39.7
	LFS < Edge of Specimen (Yes or No)	Yes	Yes	Yes	/
	SMOGR _A , m ² /s ²	9	7	7	8
	TSP _{600s} , m ²	64	64	60	63
	Flaming Droplets/Particles occur within 600s (Yes or No)	No	No	No	/

Note

- *Test item is subcontracted on accreditation by CNAS L0057.
- Per EN 13823, the samples were fixed mechanically to the substrate. Substrate was a 12mm thick calcium silicate board. The density of the calcium silicate board was 900kg/m³.

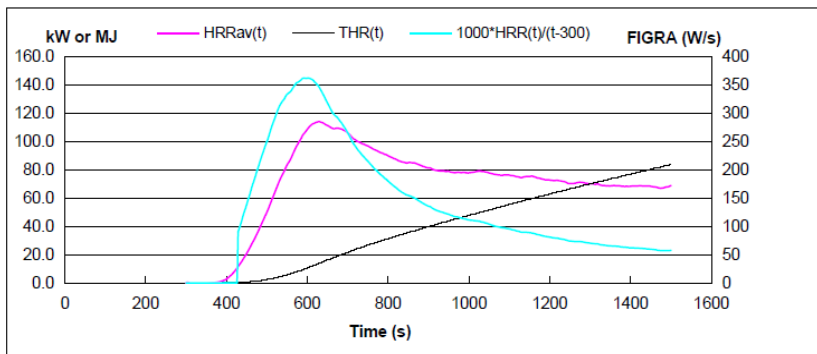
Test Report

Issue Date: 2022-06-14

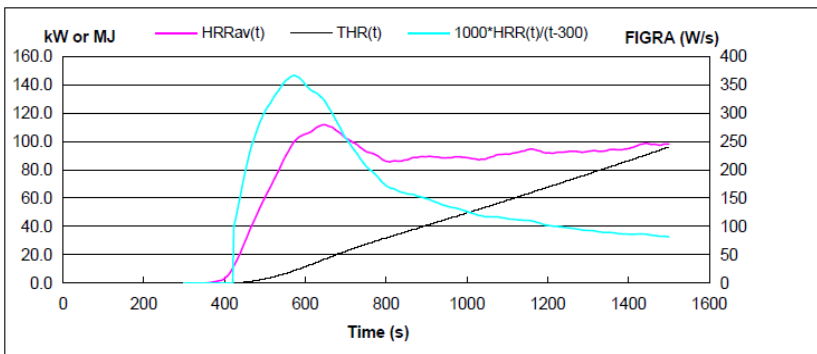
Intertek Report No. 220517010SHF-002

Test Items, Method and Results:

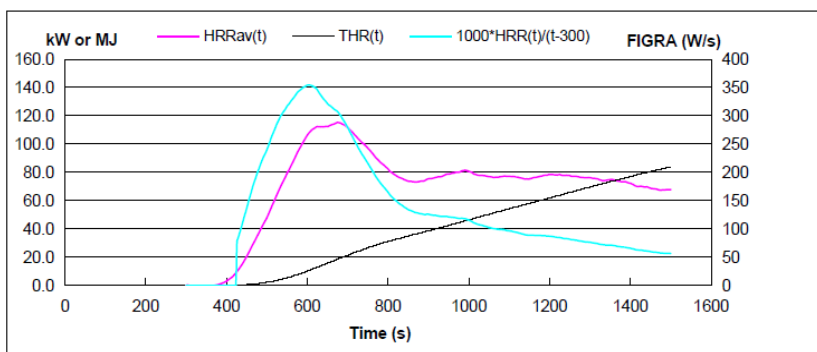
Graphs of $HRR_{av}(t)$, $THR(t)$, $1000 \times HRR_{av}(t)/(t - 300)$ and FIGRA



Specimen 1



Specimen 2



Specimen 3

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Test Items, Method and Results:

Test Photos of EN 13823



Before test (Long wing)



Before test (Short wing)



After test (Long wing)



After test (Short wing)

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Test Items, Method and Results:

1.2 IGNITABILITY TEST

The test was conducted in accordance with EN ISO 11925-2. This test evaluates the ignitability of a product under exposure to a small flame.

RESULTS AND OBSERATIONS

Method	Exposure conditions		Occurrence of ignition (Yes/No)	Whether to reach 150mm (Yes/No)	Time to reach 150mm (s)	Ignition of the filter paper (Yes/No)
EN ISO 11925-2:2020* Exposure=30 s	Edge exposure	lengthwise 1	Yes	No	/	No
		lengthwise 2	Yes	No	/	No
		lengthwise 3	Yes	No	/	No
		crosswise 1	Yes	No	/	No
		crosswise 2	Yes	No	/	No
		crosswise 3	Yes	No	/	No
	Surface exposure	lengthwise 1	Yes	No	/	No
		lengthwise 2	Yes	No	/	No
		lengthwise 3	Yes	No	/	No
		crosswise 1	Yes	No	/	No
		crosswise 2	Yes	No	/	No
		crosswise 3	Yes	No	/	No

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Test Items, Method and Results:

1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class B, C, D with their corresponding fire performance are given in the table below.

Table - Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products.

Class	Test Method(s)	Classification criteria	Additional classifications
B	EN 13823 and	FIGRA _{0.2MJ} ≤ 120 W/s and LFS < edge of specimen and THR _{600s} ≤ 7.5 MJ	Smoke production ^a and Flaming droplets/particles ^b
	EN ISO 11925-2 ^c Exposure = 30 s	F _s ≤ 150 mm within 60 s	
C	EN 13823	FIGRA _{0.4MJ} ≤ 250 W/s and LFS < edge of specimen and THR _{600s} ≤ 15 MJ	Smoke production ^a and Flaming droplets/particles ^b
	EN ISO 11925-2 ^c Exposure = 30 s	F _s ≤ 150 mm within 60 s	
D	EN 13823 and	FIGRA _{0.4MJ} ≤ 750 W/s	Smoke production ^a and Flaming droplets/particles ^b
	EN ISO 11925-2 ^c Exposure = 30 s	F _s ≤ 150 mm within 60 s	

Note:

a. s1 = SMOGRA ≤ 30m²/s² and TSP_{600s} ≤ 50m²; s2 = SMOGRA ≤ 180m²/s² and TSP_{600s} ≤ 200m²; s3 = not s1 or s2

b. d0 = No flaming droplets/particles in EN 13823 within 600s;

d1 = no flaming droplets/particles persisting longer than 10s in EN 13823 within 600s;

d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

c. Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.

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Test Items, Method and Results:

CLASSIFICATION

The classification has been carried out in accordance with EN 13501-1.

Fire behaviour		Smoke production			Flaming droplets	
<i>D</i>	-	<i>s</i>	<i>2</i>	-	<i>d</i>	<i>0</i>

Reaction to fire classification: *D- s2, d0*



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Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
220517010SHF-002	2022-06-14	First issue

