Kompositterrasse.dk

TEST REPORT

SCOPE OF WORK
160*25 solid fence board / first generation

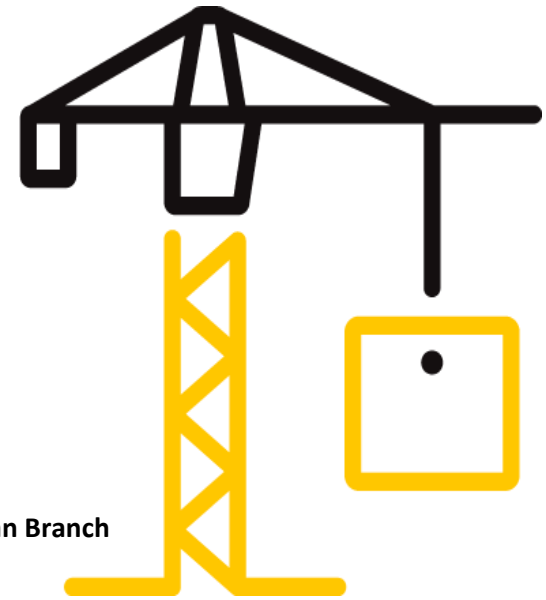
REPORT NUMBER
220517010SHF-001

TEST DATE(S)
2022-05-17 - 2022-06-14

ISSUE DATE
2022-06-14

PAGES
10

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



Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Issue Date: 2022-06-14 Intertek Report No. 220517010SHF-001

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	160*25 solid fence board / first generation	**Brand**	/
Sample Description	Good Condition	**Sample Amount**	1 box
		Received Date	2022-05-17
Sample ID	**Model**	**Specification**	
S220517010SHF.001~002	160*25 MM FENCE	160*25	

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

Name: Sally Xie Name: Lu Cheng

Title: Reviewer Title: Project Engineer

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Test Report

Issue Date: 2022-06-14 Intertek Report No. 220517010SHF-001

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	213	236	216	222
	$FIGRA_{0.4MJ}$, W/s	213	236	216	222
	THR_{600s} , MJ	28.5	30.7	29.6	29.6
	LFS < Edge of Specimen (Yes or No)	Yes	Yes	Yes	/
	SMOGRA, m^2/s^2	0	0	0	0
	TSP_{600s}, m^2	39	31	31	34
	Flaming Droplets/Particles occur within 600s (Yes or No)	No	No	No	/

Note

1. *Test item is subcontracted on accreditation by CNAS L0057.

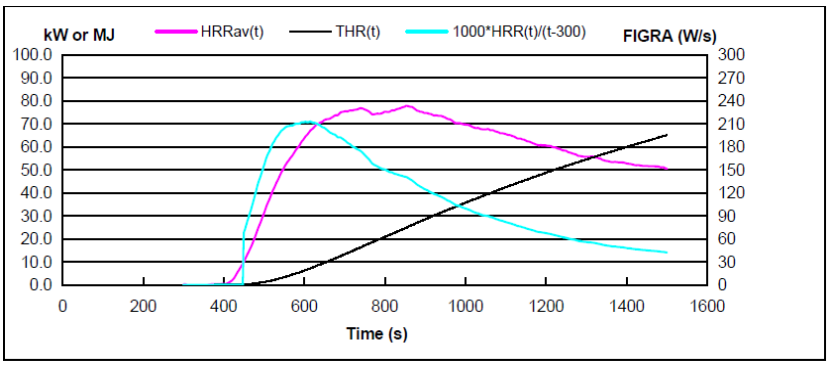
2. Per EN 13823, the samples were fixed mechanically to the substrate. Substrate was a 12mm thick calcium silicate board. The density of the calcium silicate board was 900kg/m^3.

Test Report

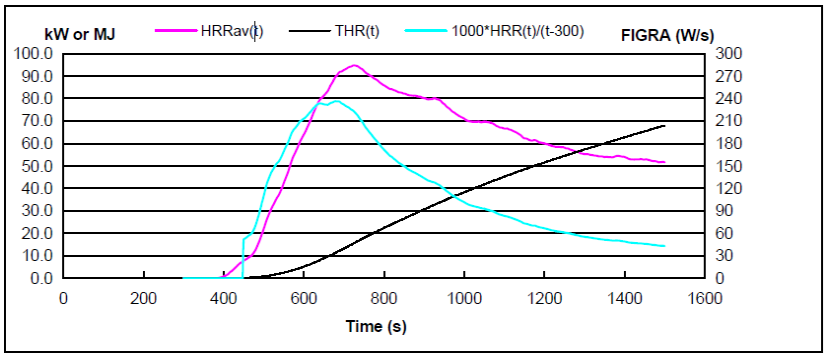
Issue Date: 2022-06-14 Intertek Report No. 220517010SHF-001

Test Items, Method and Results:

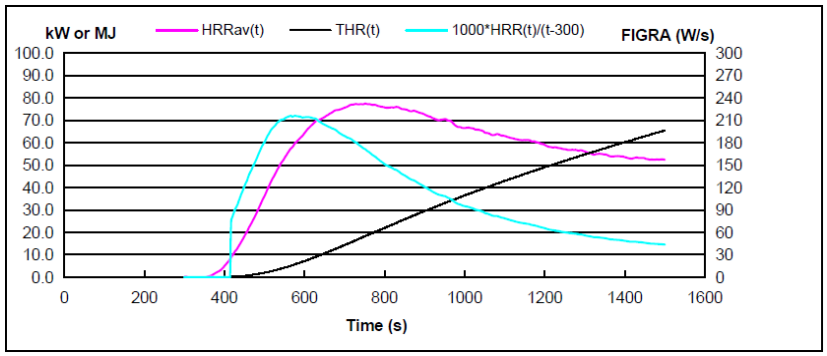
Graphs of $HRR_{av}(t)$, THR(t), 1000 × $HRR_{av}(t)/(t - 300)$ and FIGRA



Specimen 1



Specimen 2



Specimen 3

Test Report

Issue Date: 2022-06-14 Intertek Report No. 220517010SHF-001

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)

Test Report

Issue Date: 2022-06-14 Intertek Report No. 220517010SHF-001

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

Test Report

Issue Date: 2022-06-14 Intertek Report No. 220517010SHF-001

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 theirs 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	$FIGRA_{0.2MJ} \leq 120$ W/s and LFS < edge of specimen and $THR_{600s} \leq 7.5$ MJ	Smoke production[a] and Flaming droplets/particles[b]
	EN ISO 11925-2 [c] Exposure = 30 s	$F_S \leq 150$ mm within 60 s	
C	EN 13823	$FIGRA_{0.4MJ} \leq 250$ W/s and LFS < edge of specimen and $THR_{600s} \leq 15$ MJ	Smoke production[a] and Flaming droplets/particles[b]
	EN ISO 11925-2 [c] Exposure = 30 s	$F_S \leq 150$ mm within 60 s	
D	EN 13823 and	$FIGRA_{0.4MJ} \leq 750$ W/s	Smoke production[a] and Flaming droplets/particles[b]
	EN ISO 11925-2 [c] Exposure = 30 s	$F_S \leq 150$ mm within 60 s	

Note:

a. s1 = SMOGRA $\leq 30 m^2/s^2$ and $TSP_{600s} \leq 50 m^2$; s2 = SMOGRA $\leq 180 m^2/s^2$ and $TSP_{600s} \leq 200 m^2$; 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.

Test Report

Issue Date: 2022-06-14 Intertek Report No. 220517010SHF-001

Test Items, Method and Results:

CLASSIFICATION

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

Fire behaviour		Smoke production			Flaming droplets	
D	-	s	*1*	-	d	*0*

Reaction to fire classification: *D- s1, d0*

Test Report

Issue Date: 2022-06-14 Intertek Report No. 220517010SHF-001

Appendix A: Sample Received Photo

Revision:

NO.	Date	Changes
220517010SHF-001	2022-06-14	First issue