

TEST REPORT

2023AN0813

DATE OF RECEPTION

Date Format: dd/MM/yyyy 11/04/2023

DATE TESTS

Starting: 12/04/2023

Ending: 14/04/2023

APPLICANT

PIERRE FREY SAS
47 RUE DES PETITS-CHAMPS
FR-75001 PARIS
France

Att. Adeline Jelago

IDENTIFICATION AND DESCRIPTION OF SAMPLES

Reference by AITEX	Reference by customer	AITEX sample description
2023AN0813-S01	TF - Linen on NW - 3D print - example FP007 Punta Cana	Wall covering

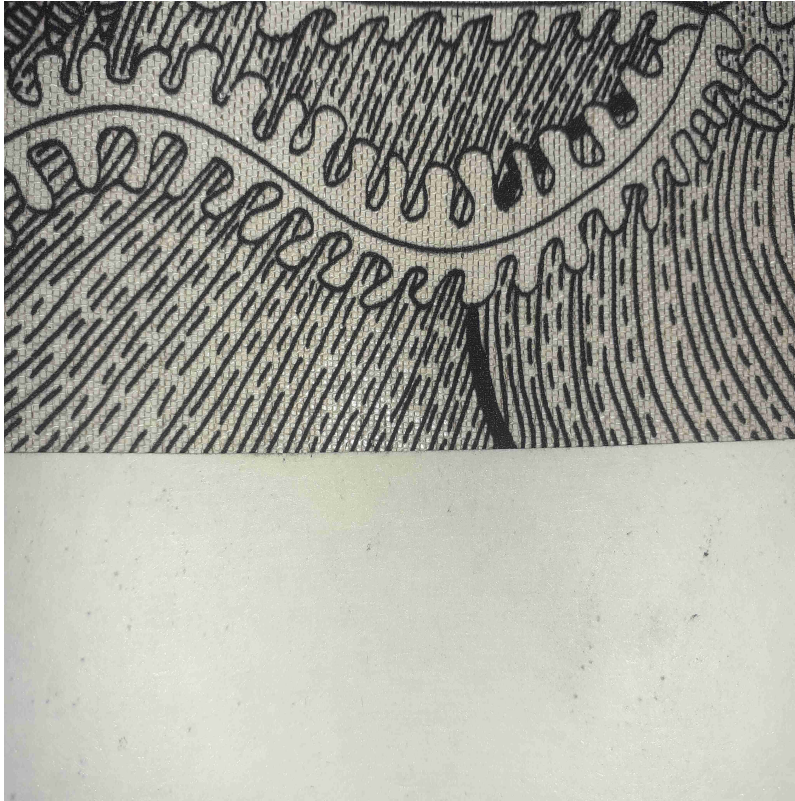
TESTS CARRIED OUT

- SAMPLE DESCRIPTION.
- IGNITABILITY WHEN SUBJECTED TO DIRECT IMPINGEMENT OF FLAME.
- DETERMINATION OF THE BURNING BEHAVIOUR USING SINGLE BURNING ITEM (SBI).

Tests marked with * are not included within the scope of the ENAC accreditation.

Rev.1 This revision cancels and replaces the previous Introduction of explanatory notes



**DESCRIPTION OF SAMPLES**

Reference by AITEX: 2023AN0813-S01

Reference by customer:

TF - Linen on NW - 3D print - example FP007 Punta Cana

AITEX sample description:

Wall covering



RESULTS

SAMPLE DESCRIPTION

Wall covering with black 3D drawing on a white background.

Customer information	
Reference	2023AN0813-S01
Application (final use)	Wall covering
Composition	Layer 1: 3D Print Layer 2: Linen Layer 3: Non woven
Weight (g/m ²)	Not provided by client.
Density (kg/m ³)	Not provided by client.
Thickness (mm)	Layer 1: 0.2 Layer 2: 0.4 Layer 3: 0.4

Mounting specifications of Ignitability PQ, according to client

On a normalized substrate of gypsum plasterboard, with a density of (700 ± 100) Kg/m³, thickness (12.5 ± 0.5) mm and Euroclass A2-s1d0 and adhered with vinyl glue.

Mounting specifications of SBI, according to client

The sample has a vertical joint 200 mm from point 0. The sample of material has been placed on a standard substrate of gypsum plasterboard, with a density of (700 ± 100) Kg/m³, thickness (12.5 ± 0.5) mm and Euroclass A2-s1d0, and adhered to it with 250 g/m² of a vinyl adhesive.

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RESULTS

IGNITABILITY WHEN SUBJECTED TO DIRECT IMPINGEMENT OF FLAME

Standard

EN ISO 11925-2:2020

Reference

2023AN0813-S01

Conditioning

23 ± 2°C and 50 ± 5%HR at least 2 weights until a constant weight that differs by no more than 0.1% or 0.1g.

Starting date and time	Ending date and time
13/04/2023 9:00:00	14/04/2023 9:00:00

Date test

14/04/2023

Environmental test conditions

23,1 °C / 39,5 % HR

Equipment

Burner and combustion chamber

Description of sampling procedure

Not applicable.

Spread of air

0,6 m/s

Thickness tested

1 mm

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**Position of flame application**

Surface

Flame application time

30 seconds

Total test duration

60 seconds

Results

Samples	Ignition (s)	The flame tip reaches 150 mm above the flame application point (s)		Ignition of the filter paper (s)
1	0	NO	0	NO
2	0	NO	0	NO

NA: No Applicable

The test results relate to the behaviour of the test specimens of a 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.

Test uncertainty $\pm 13.2\%$ **Standard deviations**

Two samples are tested, according to client.

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RESULTS

DETERMINATION OF THE BURNING BEHAVIOUR USING SINGLE BURNING ITEM (SBI)

Standard

EN 13823:2020

Reference

2023AN0813-S01

Conditioning

The conditioning is in accordance with the standard EN 13238:2010. According to this standard the conditioning must be by fixed period of time or until constant weight.

(23 ± 2)°C and (50 ± 5)%hr at least 2 weights until a constant weight that differs by no more than 0.1%.

Starting date and time	Ending date and time
13/04/2023 9:00:00	14/04/2023 9:30:00

Equipment

SBI

The test results relate to the behaviour of the test specimens of a 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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	Specimen 1
Date of testing	14/04/2023
Operator	HAN/DMG

Recorded events	Specimen 1
Lateral flame spread on the long specimen wing	NO
Surface flash	NO
Smoke not entering hood	NO
Failing of specimen parts	NO
Mutual fixing of backing board failed	NO
Tendency towards distortion / collapse of the specimen	NO
Additional events	NO
Falling of drops or particles (before or after 10s)	NO

Calculated results	Specimen 1
FIGRA _{0.2} (W/s)	450,45
FIGRA _{0.4} (W/s)	450,45
THR _{600s} (MJ) Total heat release	3,05
SMOGRA (m ² /s ²)	0,00
TSP _{600s} (m ²) (Total smoke production)	27,59

*In order to avoid possible changes at product classification due to burner release, alternative SPR_{av_burner} calculation according to clause A.6.1.2 of the test standard procedure is applied.

Test uncertainty

± 4.3%

Standard deviations

Just one sample is tested, according to client.

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Samples pictures

Original image 1



Original image 2



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Samples pictures

After. Specimen 1

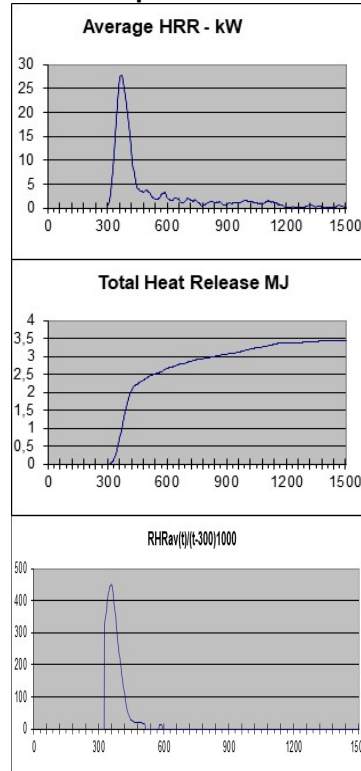


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Graphs:

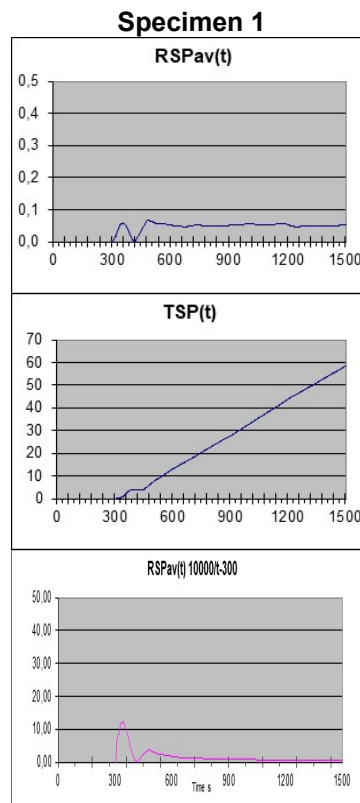
Specimen 1



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Graphs:



Remark

Wall coverings materials fire reaction classification according to EN 13501-1 standard is based on test results of at least three SBI specimens, furthermore the ignitability small flame test according to EN ISO 11925-2 fulfillment. In this case, as only one SBI specimen has been tested, a material classification can't be assessed. If hypothetically four specimens had been tested and results had been similar to the obtained results, and small flame ignitability tests criteria had been achieved, material classification would be D-s1,d0

Requirements

COMBUSTABILITY			
	B or better	C	D
Figra (W/s)	< 120	<250	<750
THR (MJ)	< 7.5	< 15	---
LFS	NO	NO	NO

SMOKE PRODUCTION			
	s1	s2	s3
Smogra (m ² /s ²)	< 30	< 180	---
TSP (m ²)	< 50	< 200	---

DANGEROUS DRIPPING			
	d0	d1	d2
Drops falling outside the burner area	NO	Extinct in less than 10s	---

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Celia Dolça
Head of Fire Behaviour lab.

Date: 16/05/2023 15:57:32

Digitally Signed by:GEMA ESTEVE SILVESTRE -

NIF:21666152Z

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