

TEST REPORT

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REPORT NUMBER : TURT240077416
APPLICANT NAME Akgün Yapı ve Zemin Kaplama San. ve Dış Tic.Ltd.Şti.
ADDRESS Ömerli Mahallesi, Ilgaz Sokak No:7 Arnavutköy / İstanbul
Attention : İsmail AYCAN (qc@areafloors.com.tr)
SAMPLE DESCRIPTION : One sample of Grey Wall Panels
PRODUCT NAME : Wall Class Bs2d0
DATE IN : 01 July, 2024 (10:26)
DATE OUT : 10 September, 2024

TEST	Sample
EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests (+)	#

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / #:SEE RESULT

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240077416

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

EN 13823:2020+A1:2022 and EN ISO 11925-2:2020

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 in a room corner near to the product.

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.

1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class B with its corresponding fire performance is 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	$FIGRA_{0.2MJ} \leq 120 \text{ W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5 \text{ MJ}$	Smoke production ^a and Flaming droplets/particles ^b
	EN ISO 11925-2 ^c Exposure = 30 s	$F_s \leq 150 \text{ mm}$ within 60 s	

Note:

a. $s1 = SMOGRA \leq 30 \text{ m}^2/\text{s}^2$ and $TSP_{300s} \leq 50 \text{ m}^2$; $s2 = SMOGRA \leq 180 \text{ m}^2/\text{s}^2$ and $TSP_{300s} \leq 200 \text{ m}^2$; $s3 = \text{not } s1 \text{ or } s2$

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:

2 RESULTS AND OBSERATIONS

Method	Parameter	Result
EN 13823:2020+A1:2022	FIGRA _{0.2MJ} , W/s	73.6
	THR _{600s} , MJ	4.06
	LFS, m	<Edge of Specimen
	SMOGR _A , m ² /s ²	54.8
	TSP _{600s} , m ²	424
	Flaming Droplets/Particles	No flaming droplets/particles occur within 600s
EN ISO 11925-2:2020 Exposure = 30 s	F _S ≤ 150 mm within 60 s	Yes
	Ignition of the paper	No

Note

1. 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 850kg/m³.

3 CLASSIFICATION

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

Fire behaviour		Smoke production			Flaming droplets	
<i>B</i>	-	<i>s</i>	<i>3</i>	-	<i>d</i>	<i>0</i>

Reaction to fire classification:

B-s3, d0

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2 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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Appendix A: Sample Received Photo



Front view (test side)



Back view

(‡) The test was performed by an approved subcontractor laboratory which is part of the Intertek Group.

END OF TEST REPORT