

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

Classification no.	2026-Efectis-R000979
Sponsor	Sihl GmbH Kreuzauer Straße 33 52355 Düren GERMANY
Product name	3521 WallGrafX Plus 170 FR Matt
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1. INTRODUCTION

This classification report defines the classification assigned to **3521 WallGrafX Plus 170 FR Matt** in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, **3521 WallGrafX Plus 170 FR Matt**, is defined as a self-adhesive fabric.

2.2 MANUFACTURER

Sihl GmbH
Kreuzauer Straße 33
52355 Düren
GERMANY

2.3 PRODUCT DESCRIPTION

According to the sponsor the product is composed of:

- Woven self-adhesive fabric made from 100% polyester with an integrated blackout layer
- Adhesive: removable

The product has a total thickness of 0.16 ± 0.02 mm and a mass per unit area of approx. 172 ± 2 g/m².

3. STANDARDS, REPORTS, RESULTS AND CRITERIA IN SUPPORT OF THIS CLASSIFICATION

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2020+A1:2022	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13238:2010	Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates
EN 13501-1:2018	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Sihl GmbH GERMANY	2026-Efectis-R000908 2026-Efectis-R000905	EN ISO 11925-2:2020 EN 13823:2020+A1:2022

3.3 TEST RESULTS

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – maximum	Compliance with parameters
EN ISO 11925-2				
Surface flame impingement	Fs ≤150 mm	6	50	-
	Ignition of filter paper		-	Compliant
Edge flame Impingement	Fs ≤150 mm	6	35	-
	Ignition of filter paper		-	Compliant

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
EN 13823				
	FIGRA _{0.2MJ} [W/s]	3	363	-
	FIGRA _{0.4MJ} [W/s]		199	-
	THR _{600s} [MJ]		1.8	-
	LFS < edge		-	Compliant
	SMOGR A [m²/s²]		0.0	-
	TSP _{600s} [m²]		31	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s		- -	Compliant Compliant

3.4 CLASSIFICATION CRITERIA

Fire classification of construction products and building elements Excluding floorings and linear pipe thermal insulation products			
Classification criteria			
Class Test method(s)	B	C	D
EN ISO 11925-2 Exposure = 30 s	F _s ≤ 150 mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.		
EN 13823	FIGRA _{0.2 MJ} ≤ 120 W/s LFS < edge of specimen THR _{600s} ≤ 7.5 MJ	FIGRA _{0.4 MJ} ≤ 250 W/s LFS < edge of specimen THR _{600s} ≤ 15 MJ	FIGRA _{0.4 MJ} ≤ 750 W/s
Additional classification			
Smoke production	s1 = SMOGRA ≤ 30 m ² /s ² and TSP _{600s} ≤ 50 m ² ; s2 = SMOGRA ≤ 180 m ² /s ² and TSP _{600s} ≤ 200 m ² ; s3 = not s1 or s2		
Flaming Droplets/particles	d0 = no flaming droplets/ particles in EN 13823 within 600 s; d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s; d2 = not d0 or d1.		

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2018.

4.2 CLASSIFICATION

The product, **3521 WallGrafX Plus 170 FR Matt**, in relation to its reaction to fire behaviour is classified:

C

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

Reaction to fire classification: C – s1, d0

4.3 FIELD OF APPLICATION

4.3.1 Direct field of application

This classification is valid for the following product parameters:

Thickness	0.16 ± 0.02 mm
mass per unit area	172 ± 2 g/m ²

This classification is valid for the following end use applications:

Substrate	Non-combustible (class A1/A2, $\geq 700 \pm 100$ kg/m ³ , according to EN 13238) Standard substrates density > 75% nominal density
Application	Self-adhering
Air gap	Not applicable
Methods and means of fixing	Self-adhering
Joints	Not applicable
Other aspects of end use conditions	Closed surface, no openings or gaps between components

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

Consult classification standard and national laws and regulations for limitations on the period of validity of the classification.

5. LIMITATIONS

This classification document does not represent type approval or certification of the product.



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Project Leader Reaction to Fire