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Norge

Classification of reaction to fire in accordance with EN 13501-1

1 Introduction

This classification report defines the classification assigned to “V-profile” in accordance with the procedure given in EN 13501-1:2018.

2 Details of classified product

2.1 General

The product “V-profile” is defined as a coated wooden panel. Its classification is valid for the following end use application:

Outdoor cladding.

According to the owner of this classification report, this product complies with the European product specification EN 14915:2013+A2:2020.

2.2 Product description

According to the client:

Product called ”V-profile”, consisting of panels of spruce glue wood, nominal thickness 24 mm and nominal density 430 kg/m³. The panels are coated with Teknos Teknol 2881 nominal area weight 85 g/m² (wet weight) with pigment and colour coating with Teknos Nordica Eko 3330 nominal area weight 85 g/m² (wet weight). The both treatments come in all colours.

The coating is applied by mechanical brush painting.

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Confidentiality level

C2 - Internal

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Accred. No. 1002
Testing
ISO/IEC 17025

3 Reports and results in support of this classification

3.1 Test reports

Table 1 Test report forming the basis for this classification.

Name of laboratory	Name of sponsor	Test report reference no	Accredited test methods and date
RISE	Norsk Limtre AS	O100609-197103	EN 13823:2020 and EN ISO 11925-2:2020

3.2 Test results

The test results listed below show the worst case as found in the test programme performed and reported according to the table above. The tests have been carried out on products covering different colours in accordance according to EGOLF RECOMMENDATION 003-2016 as well as mounting orientation.

Table 2 Test results showing the worst case as found in the test program performed.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		12		
Edge/Surface flame attack**				
30 s exposure	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		6		
	$FIGRA_{0,2MJ}$ (W/s)		692	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		692	Compliant
	$LFS < edge$		(-)	Compliant
	THR_{600s} , (MJ)		16	Compliant
	$SMOGRA$, (m ² /s ²)		2.2	Compliant
	TSP_{600s} , (m ²)		30	Compliant
	Flaming droplets/particles		(-)	No flaming droplets/particles

** : as required to the end use application of the product

(-) : not applicable

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2018.

4.2 Classification

The product called “V-profile” in relation to its reaction to fire behaviour is classified:

D

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation product is:

Fire Behaviour		Smoke Production			Flaming Droplets	
D	-	s	1	,	d	0

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

4.3 Field of application:

This classification is valid for the following product parameters:

Coating according to product description, as specified in 2.2 in this report

Nominal wood thickness: 24 mm.

Nominal wood density: 430 kg/m³.

Wood Specie: Spruce.

This classification is valid for the following end use conditions:

Substrates

- Wood based substrates at least 10 mm thick and any end use substrate of Euroclasses A1 or A2-s1,d0 at least 6 mm thick, having a density ≥ 510 kg/m³.

Fixings

- Mechanically fixed.

Joints

- Horizontal and vertical joints.

Air gap

- Wood or metal battens creating an air gap ≥ 40 mm.

Orientation

- Vertical or horizontal mounting.

Colours

- All coating colours.

The sample was delivered by the client. RISE, Fire Technology was not involved in the sampling procedure.

5 Limitations

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

**RISE Research Institutes of Sweden AB
Fire and safety - Reaction to Fire Medium Scale Lab**

Performed by

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