

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

1 Introduction

This classification report defines the classification assigned to products “Rubbol WF 33XX”, “Rubbol WP 184X with Rubbol WF 33XX” and “Axil 3000P with Rubbol WF 33XX” in accordance with the procedure given in EN 13501-1:2018.

This report replaces RISE report O100352-144390-3, dated June 30, 2021. The previous report is not valid and should be destroyed. This revision includes an update of details of the product names.

2 Details of classified product

2.1 General

The products “Rubbol WF 33XX”, “Rubbol WP 184X with Rubbol WF 33XX” and “Axil 3000P with Rubbol WF 33XX” are defined as paint systems for wooden panels. Their classification are valid for the following end use application: Painted wooden panel.

According to the owner of this classification report, this product complies with the European product specification EN 14915.

2.2 Product description

The products, “Rubbol WF 33XX”, “Rubbol WP 184X with Rubbol WF 33XX” and “Axil 3000P with Rubbol WF 33XX”, is fully described in the test reports provided in support of classification listed in Clause 3.1.

Table 1 Products.

Layer	Material	Paint amount (g/m ²)	Nominal dimensions (mm)	Nominal density (kg/m ³)
1 (top layer)	Rubbol WF 33XX	265-295 (wet), applied in 2 layers	80-90 µm (dry)	-
2	Spruce	-	145 x 18	Approx. 470
3 (backside)	Rubbol WF 33XX	100-120 (wet)	30-35 µm (dry)	-

Layer	Material	Paint amount (g/m ²)	Nominal dimensions (mm)	Nominal density (kg/m ³)
1 (top layer)	Rubbol WF 33XX	130-150 (wet)	40-45 µm (dry)	-

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2	Rubbol WP 184X	155-175 (wet)	40-45 µm (dry)	-
3	Spruce	-	145 x 18	Approx. 470

Layer	Material	Paint amount (g/m ²)	Nominal dimensions (mm)	Nominal density (kg/m ³)
1 (top layer)	Rubbol WF 33XX	265-295 (wet), applied in 2 layers	80-90 µm (dry)	-
2	Axil 3000P	80-100	-	-
3	Spruce	-	145 x 18	Approx. 470
4 (backside)	Rubbol WF 33XX	100-120 (wet)	30-35 µm (dry)	-

The products have a white colour.

The paint is applied to the wood panels by spray application or brush application.

3 Report and results in support of this classification

3.1 Test report

Table 2 Test report and field of application rules forming the basis for this classification.

Name of laboratory	Name of sponsor	Test report reference no	Accredited test methods and date
RISE	Akzo Nobel Industrial Coatings AB	O100352-144390-1rev1	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 the organic content range of the product group .

Table 3 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		5		
	$FIGRA_{0,2MJ}$ (W/s)		702	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		702	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	THR_{600s} , (MJ)		13	Compliant
	$SMOGRA$, (m^2/s^2)		8.7	Compliant
	TSP_{600s} , (m^2)		31	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 products called “Rubbol WF 33XX”, “Rubbol WP 184X with Rubbol WF 33XX” and “Axil 3000P with Rubbol WF 33XX” in relation to their reaction to fire behaviour are 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:

Product description, as specified in 2.2 in this report

Nominal thickness of spruce panel: 18 mm.

Nominal density of spruce panel: 470 kg/m³.

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 of $\geq 510 \text{ kg/m}^3$.

Mounting:

- Vertically mounted wooden panels.

Fixings:

- Mechanically fixed.

Joints:

- Horizontal and vertical joints.

Void:

- Wood scantlings creating a cavity $\geq 40 \text{ mm}$.

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.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested

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