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CLASSIFICATION REPORT : TEK- 258/20en

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CLASSIFICATION OF REACTION TO FIRE in accordance with EVS-EN 13501-1:2019

SPONSOR: **Rake AS**

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11316 Tallinn Estonia

MANUFACTURER: **Rake AS**

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PREPARED BY: TÜV EESTI OÜ

PRODUCT NAME : **Cladding panel Raketerm**

CLASSIFICATION REPORT : **TEK- 258/20en**

ISSUE NUMBER : **VÄLJA LÄINUD**
Nr. 117
23-07-2020
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DATE OF ISSUE : **05.06.2020**



1. Introduction.

This classification report defines the reaction to fire classification assigned to exterior wall finishing panels in accordance with the procedures given in EVS-EN 13501-1:2019

2. Classified product.

2.1 General

Product is defined as exterior wall finishing panel

2.2 Description

Insulation layer thickness 30...35mm: mixture of EPS and PUR with fibre mesh backing.

External surface covered with bricks, inner surface covered with MgSi board thickness 3,0mm. Nominal thickness of panel is (45±1) mm insulation layer thickness 30...35mm: mixture of EPS and PUR with fibre mesh backing. External surface covered with bricks, inner surface covered with MgSi board thickness 3,0mm. Nominal thickness of panel is (45±1) mm

3. Test reports and test results in support of the classification.

3.1. Test reports and extended application reports

Test Laboratory	Name of sponsor	Test report and date	Test method
TÜV Eesti OÜ	Rake AS	No. 001-20TM of 29.02.2016	EVS EN 13823:2020
TÜV Eesti OÜ	Rake AS	No. 006-20TM of 15.02.2016	EN ISO 11925-2:2010

3.2. Test results

Test method	Parameter	Number of tests	Results	
			Mean parameter	Compliance
EVS EN ISO 11925-2:2020	Raketherm panel surface exposure to flame	6	No ignition	
	Flaming debris	6	No	
	Glowing	6	No	
EVS-EN 13823:2010	Figra 0,2 MJ (W/s)	3	16,2	
	Figra 0,4 MJ (W/s)		15,6	
	THR 600 s (MJ)		2,1	
	Lateral flame spread (LFS) reach to edge?		No	
	SMOGRA (cm ² /s ²)		Threshold not reached	
	TSP 600 (m ²)		64,1	
	Flaming droplets/particles (flaming ≤ 10s)		No	
Flaming droplets/particles (flaming > 10s)	No			

4. Classification and field of application

4.1 Reference on classification.

This classification has been carried out in accordance with clause 8 of EVS-EN 13501-1:2007+A1:2009

4.2 Classification.

The exterior wall finishing panel is classified according to the following combination of performance parameters and classes as appropriate.

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	l	-	d	0

Reaction to fire classification: B-s1, d0

4.3 Field of direct application.

This classification is valid to exterior wall finishing panels for the following end use applications:

- fixed to vertical and horizontal surfaces, with air gap up to 50mm between finishing panel and back wall;
- steel framework can be used;
- timber framework can be used;
- fixing special clamps (6 pcs) on framework screws on the centerlines (2 pcs), panel joints filled with fire silicone

5. Limitations

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

On behalf and by authority of TÜV Eesti OÜ.

Approved by

