

CLASSIFICATION OF REACTION TO FIRE FIRES-CR-121-14-AUPE

Facade cladding system Timbermax[®], type T 138

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CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1: 2007 + A1: 2009 with direct field of application

FIRES-CR-121-14-AUPE

Name of the product: Facade cladding system Timbermax[®], type T 138

Sponsor: newface, s.r.o.
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Slovak Republic

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Tested property: Reaction to fire
Test method: EN 13823: 2010, EN ISO 11925-2
Type of test: Accredited / Notified (NB 1396)

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1. INTRODUCTION

This classification report defines the reaction to fire classification assigned to element J Facade cladding system Timbermax®, type T 138 in accordance with the procedures given in EN 13501-1: 2007 + A1: 2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

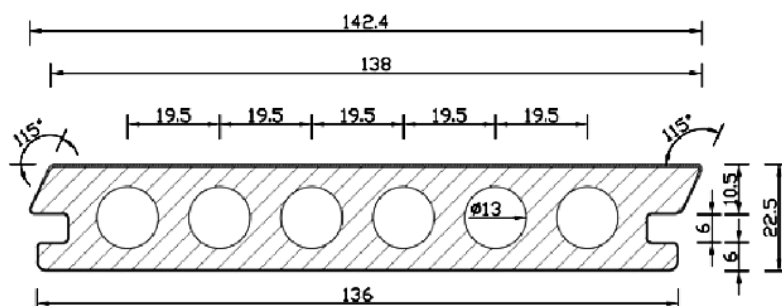
The element, Facade cladding system Timbermax®, type T 138, is defined as a decorative facade cladding system.

2.2 PRODUCT DESCRIPTION

Product is made of Facade cladding system Timbermax®, type T 138 fixed via steel clip Timbermax T on wooden load bearing beams (30 x 60) mm fixed by steel brackets to substrate. Between substrate and wooden beam is placed glass wool insulation ISOVER AKU (manufacturer: Saint-Gobain Construction Products, s.r.o.) 160 mm thick and with bulk density 40 kg.m⁻³ and with vapour barrier REWASI TOP 130 (manufacturer: BWK Dachzubehör GmbH) with mass per unit area 130 g.m⁻². Air gap 30 mm width is created by wooden load bearing beams between boards Timbermax®, type T 138 and glass wool with vapour barrier.

Timbermax®, type T 138 - wood-plastic composite boards made of plastic HDPE (40 %) and hardwood fibers (60 %):

- covering width 138 mm;
- thickness 23 mm;
- length 2745 mm
- mass per unit length 2,7 kg.m⁻¹;
- mass per unit area 19,27 kg.m⁻².



3. TEST REPORTS IN SUPPORT OF CLASSIFICATION

3.1 TEST REPORTS

No.	Name of laboratory	Name of sponsor	Test report No.	Date of the test	Test method
[1]	FIRES, s.r.o., Batizovce, SR	newface, s.r.o., Zvolenská Slatina, Slovak Republic	FIRES-RF-089-14-AUNE	21. 08. 2014	EN ISO 11925-2: 2010 / AC: 2011
[2]	FIRES, s.r.o., Batizovce, SR	newface, s.r.o., Zvolenská Slatina, Slovak Republic	FIRES-RF-093-14-AUNE	19. 08. 2014 18. 09. 2014	EN 13823: 2010

[1] - [2] Test specimens were conditioned according to EN 13238 before the fire resistance test

[1] Facade cladding Timbermax®, type T 138

[2] Facade cladding system Timbermax®, type T 138



3.2 TEST RESULTS

Test report number and test method	Characteristic value	Number of tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
[1] EN ISO 11925-2 surface/edge of specimen* exposed to flame (exposure time 30 s)	$F_s \leq 150 \text{ mm}$	12	(-)	compliant
flaming droplets/particles	ignition of the paper		(-)	non-compliant
[2] STN EN 13823	FIGRA _{0,2MJ}	3	200,9	(-)
	FIGRA _{0,4MJ}		200,9	(-)
	LFS<edge of specimen		(-)	compliant
	THR _{600s}		25,2	(-)
	SMOGRA (m ² /s ²)		5,1	(-)
	TSP600s (m ²)		48,7	(-)
	flaming droplets/particles		no flaming droplets/particles	non-compliant

* Specimens main surface and edge (bottom part of boards) were exposed to flame.

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11.4 of EN 13501-1: 2007 + A1: 2009.

4.2 CLASSIFICATION

The product, Facade cladding system Timbermax[®], type T 138, 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 droplets/particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings 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 final use applications:

- i) with substrate of reaction to fire class A1 and A2-s1, d0,
- ii) without air gap – cavity between product and substrate

This classification is also valid for the following product parameters:

Bulk density [kg.m^{-3}]	Change of bulk density of facade cladding Timbermax [®] , type T 138 and glass wool is allowed within the manufacturing tolerances
Mass per unit area [kg.m^{-2}]	Change of mass per unit area of vapour barrier is allowed within the manufacturing tolerances
Thickness [m]	Change of thickness of glass wool is allowed
Product composition	Change of product composition is not allowed

5. LIMITATIONS

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

The classification is valid provided that the product, field of application and standards and regulations are not changed.

Approved:

Signed:

Ing. Štefan Rástocký
leader of the testing laboratory



Ing. Samuel Skokan
technician of the testing laboratory