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Title:

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

Notified Body No:

0833

Product Name:

"webertherm MT 148P"

Report No:

WF 428351

Issue No:

1

Prepared for:

Saint Gobain Weber Ltd,
Maulden Road,
Dickens House,
Enterprise Way,
Flitwick,
MK45 5BY

Date:

15th May 2020

1. Introduction

This classification report defines the classification assigned to “webertherm MT 148P”, a render protected external wall cladding system adhered to plywood substrate, in line with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1 General

The product, “webertherm MT 148P”, a render protected external wall cladding system adhered to plywood substrate, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, “webertherm MT 148P”, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Render protected external wall cladding system
Product reference		“webertherm MT 048P – weberwall brick” “webertherm MT 148P – weberwall brick”
Name of manufacturer		Saint-Gobain Weber
Thickness		20mm (stated by sponsor) 20.68mm (determined by Warringtonfire)
Weight per unit area		27.24kg/m^2 (stated by sponsor) 24.75kg/m^2 (determined by Warringtonfire)
“HR001 March 2019” - Brick slip Option 1 (tested)	Generic type	Imitation brick slip bonded to mesh
	Product reference	“weberwall Brick”
	Name of manufacturer	Brickspan
	Colour reference	Any (“Hampton Rural” as tested)
	Number of coats	One
	Thickness	5mm
	Weight per unit area	5.55kg/m²
	Application method	Laid onto prepared render and pointed with weberend RBB or weberend BPM
	Flame retardant details	**See Note 1 below**
“HR001 July 2019” - Brick slip Option 2	Generic type	Acrylic polymer brick slips
	Product reference	“HR001 July 2019” / “Control”
	Name of manufacturer	Brickspan
	Colour reference	Any
	Thickness	5mm
	Weight per unit area	5.55kg/m²
	Application method	Laid onto prepared render and pointed
	Curing process per coat	28 days for pointing mortar
	Flame retardant details	**See Note 1 below**

"HR002 December 2019" – Brick Slip Option 3	Generic type	Brick slip
	Product reference	"HR002 December 2019" / "Combination of polymers in shade mix"
	Name of manufacturer	Brickspan
	Colour reference	Any
	Thickness	5mm
	Weight per unit area	5.55kg/m²
	Application method	Laid onto prepared render and pointed
	Curing process per coat	28 days for pointing mortar
	Flame retardant details	**See Note 1 below**
Pointing mortar	Generic type	Polymer modified cementitious top coat render
	Product reference	"weberend RBB"
	Name of manufacturer	Saint-Gobain Weber
	Colour reference	"Slate"
	Number of coats	One
	Thickness	5mm
	Application rate	0.83 kg/m²
	Application method	Mixed with the appropriate quantity of clean potable water and applied using into the joints using a pointing gun or 'conical plastic bag ('icing bag')
	Curing process per coat	28 days
	Flame retardant details	**See Note 1 below**
Render	Generic type	Polymer modified cementitious adhesive render
	Product reference	"weberend LAC Rapid"
	Name of manufacturer	Saint-Gobain Weber
	Colour reference	"Pale grey, un-pigmented"
	Number of coats	One
	Thickness	3mm
	Application rate	3.25kg/m²
	Application method	Mixed with the appropriate quantity of clean potable water and applied by hand with a metal trowel
	Curing process per coat	28 days
	Flame retardant details	**See Note 1 below**
Reinforcing mesh	Generic type	Glass fibre mesh cloth
	Product reference	"weber mesh standard"
	Name of manufacturer	Saint-Gobain ADFORS
	Number of layers	One
	Thickness	0.52mm
	Weight per unit area	160g/m²
	Application method	Laid over the first pass of render and laid in with a steel trowel
	Flame retardant details	**See Note 1 below**

Render	Generic type	Polymer modified cementitious adhesive render.
	Product reference	“weberend LAC”
	Name of manufacturer	Saint-Gobain Weber
	Colour reference	“Grey, un-pigmented”
	Number of coats	One
	Thickness	3mm
	Application rate	3.25kg/m²
	Application method	Mixed with the appropriate quantity of clean potable water and applied by hand with a metal trowel and combed with a notched trowel
	Curing process per coat	28 days
	Flame retardant details	**See Note 1 below**
Render Substrate Board	Generic type	Render substrate board
	Product reference	“BluClad”
	Name of manufacturer	Siniat
	Thickness	10mm
	Weight per unit area	14.2kg/m²
	Density	1180kg/m^3
	Colour reference	“Natural (grey)”
	Flame retardant details	**See Note 1 below**
Fixings	Generic type	Screw with washer for panel substrate.
	Product reference	“Self-drilling carbon tipped screw with isolating washer”
	Name of manufacturer	Ejot
Substrate	Generic type	Non flame retardant grade plywood which complied BS EN 13238: 2010
	Product reference	“Plywood”
	Name of manufacturer	Wisa
	Thickness	9mm
	Density	450kg/m³
Brief description of manufacturing process		3mm weberend LAC is applied to the render substrate board and the reinforcing mesh laid in. A further 3mm pass of weberend LAC applied and combed with a notched trowel. The weberwall brick is laid onto the surface of the render and tamped down, cur pieces as required are installed. The panel is left for a minimum of 24 hours prior to pointing with weberend RBB.

Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component.

3. Test reports & test results in support of classification.

3.1 Test reports.

Name of Laboratory	Name of sponsor	Test reports Nos.	Test method
Warringtonfire	Saint-Gobain Weber Ltd	WF 418688, WF 414704 (full) WF 422216, WF 422217 (indicative)	BS EN 13823:2010+A1:2014
Pavus A.S.	Saint-Gobain Weber Ltd	No. Pr-18-1.261-En	EN ISO 1716:2018
Warringtonfire	Saint-Gobain Weber Ltd	WF 412821, WF 412822, WF 412823, WF 412826, WF 423031, WF 423033, WF 414084	EN ISO 1716:2018
Warringtonfire	Saint-Gobain Weber Ltd	WF 428352	EN/TS 15117:2005 EN 15725:2010

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - Max/Mean (m)	Compliance parameters
EN ISO 1716*	"Weberwall brick" - Brick Slip Option 1	3	1.2328 MJ/kg	-
	"Control" - Brick Slip Option 2		1.0097 MJ/kg	-
	"Combination of polymers in shade mix" - Brick Slip Option 3		1.0201 MJ/kg	-
BS EN 13823 "webertherm MT 148P"	$FIGRA_{0.2MJ}$	3	14.24 W/s	-
	$FIGRA_{0.4MJ}$		13.56 W/S	-
	THR_{600s}		1.81 MJ	-
	SMOGRA		0.00 m^2s^2	-
	TSP_{600s}		13.43 m^2	-
	Lateral Flame Spread to End of Specimen?		-	Compliant
	Fall of Flaming Drop/Particle?		-	Compliant
	Flaming of Fallen Particle Exceeding 10s?		-	Compliant

EN ISO 1716 "webertherm MT 148P"	"Weberwall brick" Brick slip – PCS (a)	3	1.2328 MJ/kg	-
	"weberend RBB" – PCS (a)		0.0000 MJ/kg	-
	"weberend LAC Rapid"– PCS (a)		0.6619 MJ/kg	-
	Reinforcing Mesh – PCS(d)		1.1224 MJ/m^2	-
	"weberend LAC" – PCS (a)		0.4860 MJ/kg	-
	Render Substrate Board		1.3833 MJ/kg	-
	Total product – PCS (e)	N/a	1.1504 MJ/kg	-
BS EN 13823 "webertherm XM PM248/KM248" Brick Slip Colour Range Assessment**	FIGRA $_{0.2MJ}$	3 (H.Red) 1 (Buff) 1 (Black)	22.35 W/s (H.Red) 20.78 W/s (Buff) 13.53 W/s (Black)	-
	FIGRA $_{0.4MJ}$		22.35 W/S (H.Red) 20.78 W/S (Buff) 13.53 W/S (Black)	-
	THR $_{600s}$		2.60 MJ (H.Red) 2.09 MJ (Buff) 1.84 MJ (Black)	-
	LFS		-	Compliant
	SMOGRA		2.57 m^2s^2 (H.Red) 1.49 m^2s^2 (Buff) 0.00 m^2s^2 (Black)	-
	TSP_{600s}		41.73 m^2 (H.Red) 27.19 m^2 (Buff) 18.90 m^2 (Black)	-
	Fall of Flaming Drop/Particle?		-	Compliant
	Flaming droplets lasting > 10s		-	Compliant

* **Brick Slip type** - Three EN ISO 1716 tests were conducted on the three brick slip options and the BS EN 13823 test was conducted on the Brick Slip with the highest PCS (MJ/kg). This was the "HR001 March 2019". The alternative brick slip options can therefore be deemed to meet the same classification as they will only improve the fire performance of the product.

** **Colour** - BS EN 13823 testing was conducted on the three extreme colour variations within the "webertherm MT 148P " brick slip colour range when applied to a different render system manufactured by the same sponsor, "webertherm XM PM248/KM248", as per WF 418688, WF 422216 and WF 422217. The worst performing brick slip colour was identified ("Hampton Red" - WF 418688) and selected as the worst case for testing on the "webertherm MT 148P" product. Any "webertherm MT 148P" product with an alternative brick slip colour can be deemed to achieve the same fire performance.

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of BS EN 13501-1:2018, EN 15725:2010 and EN/TS 15117:2005.

4.2 Classification

The product, “webertherm MT 148P“, in relation to its reaction to fire behaviour is classified:

A2

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 applications, excluding flooring and linear pipe thermal insulation is:

Fire Behaviour		Smoke Production			Flaming Droplets	
A2	-	s	1	,	d	0

i.e. A2 – s1, d0

Reaction to fire classification: A2 – s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

i) Construction applications applied over any substrate with a minimum density of 450kg/m^3, having a minimum thickness of 9mm and a fire performance of D-s2,d0 or better
ii) Air gap details – No air gap allowed

This classification is also valid for the following product parameters:

Brick Slip colour	Any
Brick Slip Option	"HR001 March 2019" or "HR001 July 2019" or "HR002 December 2019" **as described only**
Product thickness	No variation allowed
Product density	No variation allowed
Product composition	No further variation allowed
Product construction	No further variation allowed
Air gap details	No air gap allowed
Mounting and Fixing details	Mechanical fixings only allowed Supplementary "weberend LAC" or "weberend LAC Rapid" render may be used **in addition** to the mechanical fixings as described

5. Limitations

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

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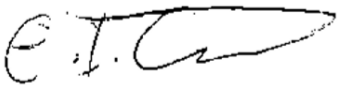

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Euan Gardner
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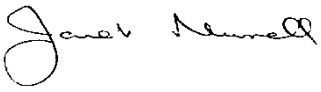

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