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Title:

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

Notified Body No:

0833

Product Name:

"Construction Type 4"

Report No:

WF 421625

Issue No:

2

Prepared for:

Forterra Building
Products Limited,
Atherstone Road,
Measham, Derbyshire,
DE12 7EL

Date:

18th November 2019

1. Introduction

This classification report defines the classification assigned to "Construction Type 4", a brick slip system, in line with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1 General

The product, "Construction Type 4", a brick slip system, is defined as being suitable for construction applications.

2.2 Product description

The product, "Construction Type 4", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

Generic type		Brick slip system
Product reference		"Construction Type 4"
Detailed description / composition details		The 22mm thick brick slips lock into and are mechanically restrained by the 0.7mm thick profiled metal rail. The 22mm thick brick slips act as the external face material of the brick slip system. The joints between the bricks are then pointed using mortar externally.
Name of manufacturer		Forterra Building Products Ltd
Thickness		22mm (stated by sponsor)
Weight per unit area		43.05kg/m² (stated by sponsor)
Pointing mortar	Generic type	Pointing mortar
	Product reference	"Parex Historic Mortar"
	Name of manufacturer	Parex
	Thickness	10-27mm (stated by sponsor)
	Weight per unit area	5.13kg/m² (stated by sponsor)
	Colour reference	"Natural" (stated by sponsor) "Beige"(observed by Warringtonfire)
	Flame retardant details	**See Note 1 Below**
Clay brick slip	Generic type	Clay Brick
	Product reference	"Chertsey Antique Blend Stock (CHEAB)"
	Name of manufacturer	Forterra Building Products Ltd
	Thickness	22mm (stated by sponsor)
	Weight per unit area	26.8kg/m² (stated by sponsor)
	Colour reference	"Red" (stated by sponsor) "Red" (observed by Warringtonfire)
	Flame retardant details	**See Note 1 Below**

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Rail	Generic type	Stainless steel
	Product reference	"Forterra 65mm Stainless Rail"
	Name of manufacturer	Hadley Group
	Thickness	0.7mm (stated by sponsor)
	Weight per unit area	11.12kg/m² (stated by sponsor)
	Colour reference	"silver" (stated by sponsor)
	Flame retardant details	**See Note 1 Below**
Brief description of manufacturing process		Standard (fired) extruded clay bricks are cut in to 22mm thick slips and then put through a profiling machine which cuts the grooves top and bottom and creates the base chamfer

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

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	Forterra Building Products Limited	WF 420407, WF 411356	EN ISO 1716
Warringtonfire	Forterra Building Products Limited	WF 421577	EN ISO 1716 – Composite Report
Warringtonfire	Forterra Building Products Limited	WF 411359, WF 420406	EN ISO 1182

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - Max/ Mean (m)	Compliance parameters
EN ISO 1182	Furnace thermocouple temperature rise	5	2.0 ºC (Clay brick slip)	Compliant
			5.3 ºC (Pointing mortar)	
	Duration of sustained flaming (seconds)		None	Compliant
	Mass Loss (%)		0.32 % (Clay brick slip)	Compliant
			3.90 % (Pointing mortar)	
EN ISO 1716	Pointing mortar – PCS (a) substantial component	3	0.0000 MJ/kg	Compliant
	Clay brick slip - PCS (a) substantial component		0.1127 MJ/kg	Compliant
	Stainless steel rail - PCS (a) substantial component)	Deemed to Satisfy - 0.0000 MJ/kg		Compliant
	For the product as a whole – PCS (e)	3	0.0694 MJ/kg	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2018.

4.2 Classification

The product, "Construction Type 4", a brick slip system, in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: A1

4.3 Field of application

This classification is valid for the following end use applications:

i) Construction applications

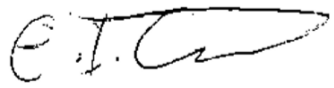
This classification is also valid for the following product parameters:

Product thickness	Any variation allowed
Product density	No variation allowed
Product construction	No variation allowed
Product composition	No variation allowed

5. Limitations

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

SIGNED



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APPROVED

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On behalf of **Warringtonfire**

Issue 2 Reissued (2nd version): Correction made to product description. Euan Gardner