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Title:

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1: 2009.

Notified Body No:

0833

Product Name:

"Norskreen M4"

Report No:

WF 400866

Issue No:

2

Prepared for:

Telling Architectural Ltd., Unit 4 E, Station Road, Four Ashes, Wolverhampton, WV10 7DB

Date:

18th June 2018



1. Introduction

This classification report defines the classification assigned to "Norskreen M4", a glass reinforced concrete with concrete top coat, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, "Norskreen M4", a polymer glass reinforced concrete, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "Norskreen M4", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Glass reinforced concrete with concrete top				
Don't all as formation		coat				
Product reference		"Norskreen M4"				
Name of manufacturer		Telling Architectural Limited				
Overall thickness		15mm				
Overall weight per unit area		40kg/m ²				
5 1	General description	Concrete				
	Product reference	"Norskreen GRC Grade 18P"				
	Detailed description	Cement /s mix				
	Name of manufacturer	Telling Architectural Limited				
Top coat	Thickness	3mm				
	Weight per unit area	6.60kg/m ²				
	Colour reference	"White" (observed by Exova				
		Warringtonfire)				
	Flame retardant details	See Note 1 below				
	Generic type	Alkali resistant glass fibre				
	Product reference	"ARG 2500/H103 Fibres"				
Reinforcement	Name of manufacturer	Fibre Technologies International Limited				
	Colour reference	"White"				
	Thickness	0.1mm - 0.5mm				
	Weight per unit area	1.65kg/m ²				
	Type of weave / cell	200 Filaments per strand				
	dimensions	,				
	Flame retardant details	See Note 1 Below				

Continued on next page

	General description	Concrete				
	Product reference	"Norskreen GRC Grade 18P"				
	Detailed description	Cement /s mix				
	Name of manufacturer	Telling Architectural Limited				
Concrete	Thickness	12mm				
	Weight per unit area	24.75kg/m ²				
	Colour reference	"White" (observed by Exova				
		Warringtonfire)				
	Flame retardant details	See Note 1 below				
Brief description of manufacturing process		See Note 2 Below				

Note 1: The sponsor of the test has confirmed no flame retardants were used in the production of this component

Note 2: The sponsor of the test was unable to provide this information.

3. Test reports & test results in support of classification

3.1 Test reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	Telling Architectural Limited	WF 390206	EN 13823
Exova warringtonfire	Telling Architectural Limited	WF 388254, WF 392031	EN ISO 1716
Exova warringtonfire	Telling Architectural Limited	WF 399755	EN ISO 1716 (Summary report)

3.2 Test results

Test method &		No.	Results		
test number	Parameter	tests	Continuous parameter - mean (m)	Compliance parameters	
	FIGRA _{0.2MJ}		0.00	Compliant	
	FIGRA _{0.4MJ}		0.00	Compliant	
EN 42000	THR _{600s}	0	0.47	Compliant	
EN 13823	LFS	3	None	Compliant	
	SMOGRA		0.00	Compliant	
	TSP _{600s}		13.58	Compliant	
EN ISO 1716	Top coat concrete PCS (a)	3	0.7424 MJ/kg	Compliant	
	Glass reinforcement PCS (a)	3	0.7671 MJ/kg	Compliant	
	Concrete PCS (a)	3	0.7424 MJ/kg	Compliant	
	For the product as a whole PCS (a)(e)	3	0.7436 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 13501-1:2007+A1: 2009.

4.2 Classification

The product, "Norskreen M4", a glass reinforced concrete with concrete top coat, 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 products 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) Wall and ceiling applications

This classification is also valid for the following product parameters:

Product thickness No variation allowed Product density No variation allowed Product composition No variation allowed

5. Limitations

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

SIGNED APPROVED

Matthew Dale Janet Murrell

Senior Certification Engineer Technical Manager on behalf of **Exova warringtonfire**

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Issue 2: 1st August 2018, change of address, amended by K.Williams