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Title:

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

Product Name:

"Gripsure Shera Decking"

Report No:

WF 514424

Issue No:

1

Prepared for:

Gripsure (UK) Ltd.,
Rockhill Business Park,
Bugle,
Cornwall,
PL26 8RA

Date:

7th March 2022

1. Introduction

This classification report defines the classification assigned to “Gripsure Shera Decking”, a family of coated cement fibre decking products, in line with the procedures given in EN 13501-1: 2018.

2. Details of classified product

2.1 General

The products, “Gripsure Shera Decking”, are defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The products, “Gripsure Shera Decking”, are fully described below and in the test reports provided in support of classification listed in Clause 3.1.

Item		Detail
General description		Coated cement fibre decking
Product reference of system		“Gripsure Shera Decking”
Name and address of manufacturer of system		SHERA, 18, Monis Machera Street, 3020 Limassol, Cyprus
Overall thickness of system		25mm
Weight per unit area or density of system		37kg/m^2
Coating	Generic type	Water based acrylic paint
	Product reference	“Gripsure SHERA paint”
	Name of manufacturer	SHERA
	Number of coats	1
	Application thickness of amount per unit area	35µm
	Application method	Spray
	Curing process	Air
	Colour reference	“Brown Wenge”
	Flame retardant details	See Note 1 below

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Item		Detail
Substrate	Generic type	Cement fibre decking
	Product reference	“Gripsure SHERA”
	Name of manufacturer	SHERA
	Thickness	25mm
	Weight per unit area or density	37kg/m^2
	Colour reference	“Brown Wenge”
	Flame retardant details	See Note 1 below
Mounting and fixing details		An 80mm ventilated cavity was situated between the reverse face of the specimens and the calcium silicate substrate as defined in EN 13238:2010
Orientation of planks		Horizontal or Vertical
Brief description of manufacturing process		Coated cement fibre board

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 / extended application reports & test results in support of classification

3.1 Test reports / extended application reports

Name of Laboratory	Name of sponsor	Test reports / classification report Nos.	Test method / classification rules & date
Warringtonfire	Gripsure (UK) Ltd	510897 511652 (Issue 2)	EN ISO 1716: 2018
		512435	EN ISO 1716: 2018 Composite Summary
Warringtonfire		Formal: 510161 Indicative: 508242	EN 13823: 2020
Warringtonfire		WF 514424	EN 13501-1: 2018

3.2 Test results

Test method & test number	Parameter	No. tests	Report	Results	
				Continuous parameter - mean (m)	Compliance parameters
EN 13823	FIGRA $_{0.2MJ}$	3	510161	6 W/s	-
		1	508242	3 W/s	-
	FIGRA $_{0.4MJ}$	3	510161	5 W/s	-
		1	508242	3 W/s	-
	THR $_{600s}$	3	510161	0.6 MJ	-
		1	508242	0.2 MJ	-
	LFS	3	510161	-	Compliant
		1	508242	-	Compliant
	SMOGRA	3	510161	0 m^2/s^2	-
		1	508242	0 m^2/s^2	-
	TSP_{600s}	3	510161	11 m^2	-
		1	508242	1 m^2	-
	Fall of Flaming Droplet/Particle?	3	510161	-	Compliant
		1	508242	-	Compliant
	Flaming of Fallen Particle Exceeding 10s?	3	510161	-	Compliant
		1	508242	-	Compliant
EN ISO 1716 composite calculation, (as per composite summary report)	Coating - PCS (b)		3	0.5 MJ/m^2 23.5 MJ/kg	-
	Cement Board – PCS (a)		3	0.7 MJ/kg	-
	For the product as a whole PCS (e)		Summary result	0.7 MJ/kg	-

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, BS EN 15725: 2010 and EN/TS 15117: 2005.

4.2 Classification

The products, “Gripsure Shera Decking”, a family of coated cement fibre decking products, in relation to their reaction to fire behaviour are 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 used over any substrate with a density equal to or greater than 652.5kg/m^3, having a minimum thickness of 9mm and a fire performance of A2-s1,d0 or better (excluding paper faced gypsum plasterboard).
ii) Freestanding applications
iii) Applications with an air gap of 80mm or more

This classification is also valid for the following product parameters:

Coating type	No variation allowed
Coating thickness	No variation allowed
Coating weight per unit area	No Variation allowed
Product thickness	No variation allowed
Product weight per unit area	No variation allowed
Product colour	No variation allowed
Product composition	No variation allowed
Product construction	No variation allowed
Product orientation	Vertical or Horizontal allowed

5. Limitations

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

SIGNED

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Katie Williams
Certification Engineer
Technical Department

APPROVED

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Stacey Deeming
Principal Engineer
Technical Department
on behalf of Warringtonfire