



le futur en construction

SAFETY, STRUCTURES AND FIRE DEPARTMENT

Reaction to Fire

REACTION TO FIRE CLASSIFICATION REPORT No. RA15-0220 ACCORDING TO THE EUROPEAN STANDARD NF EN 13501-1+A1:2013

Notification by the French Government to the European Commission under no. 0679

Seule la version française fait foi

The French version is legally acceptable

Valid 5 years from September 22nd, 2015

Product standards

NF EN 14783:2013 "Fully supported metal sheet and strip for roofing, external cladding and internal lining - Product specification and requirements"

NF EN 14782:2006 "Self-supporting metal sheet for roofing, external cladding and internal lining - Product specification and requirement"

Owner:

**AC&CS - CRM GROUP
Allée de l'Innovation 1, B57
Quartier Polytech 3
4000 LIEGE
BELGIUM**

Commercial brand(s):

GRANITE® DEEP MAT

Brief description:

Metal sheet
(see detailed description in paragraph 2)

Date of issue:

September 22nd, 2015

This classification report certifies only the characteristics of the object submitted for testing but does not prejudice the characteristics of similar products. So it does not constitute a product certification in the sense of Articles L 115-27 to L 115-33 and R 115-1 to R 115-3 of the Consumer Code.

If this report is being issued by e-mail and/or on an electronic medium, only the hard copy of the report signed by CSTB shall prevail in the event of a dispute.

The reproduction of this classification report is only authorised in its integral form.

It comprises 4 pages.

CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT

SIÈGE SOCIAL > 84 AVENUE JEAN JAURÈS | CHAMPS-SUR-MARNE | 77447 MARNE-LA-VALLÉE CEDEX 2

TÉL. (33) 01 64 68 84 12 | FAX. (33) 01 64 68 84 79 | www.cstb.fr

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1. Introduction

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the NF EN 13501-1+A1:2013 standard.

2. Product description

Steel sheet coated on both sides as follows:

- On the external side: a polyester resin-based primer (10 or 15 µm thick) and a polyester resin-based finishing paint (25 µm thick).
- On the reverse side: two polyester resin-based backcoats (5 µm thick and 7 µm thick).

Nominal thickness of the steel sheet: 0.50 mm.

Colours: various.

3. Tests reports and tests results in support of this classification

3.1 Tests reports

Name of laboratory	Name of sponsor	Test identification	Test report No.	Test method
CSTB	AC&CS - CRM GROUP Allée de l'Innovation 1, B57 Quartier Polytech 3 4000 LIEGE BELGIUM	ES541140664	RA15-0220	NF EN 13823+A1:2015 NF EN ISO 1716:2013
	AC&CS Boulevard de Colonster, B57 4000 LIEGE BELGIUM	ES541090921	RA10-0067	NF EN 13823:2002 NF EN ISO 1716:2002

3.2 Tests results

Test method	Product	Number of tests	Parameters	Results		
				Continuous parameters Mean values	Compliance parameters	
NF EN 13823	GRANITE® DEEP MAT Brown colour (35 µm thick finish)	3	FIGRA _{0.2MJ} (W/s)	0.0	-	
			FIGRA _{0.4MJ} (W/s)	0.0	-	
			LFS	-	Not reached	
				THR _{600s} (MJ)	0.5	-
				SMOGRAM ² /s ²)	0.0	-
				TSP _{600s} (m ²)	18.8	-
			Flaming droplets or debris	-	None	
NF EN 13823	GRANITE® DEEP MAT Grey colour (40 µm thick finish)	1	FIGRA _{0.2MJ} (W/s)	0.0	-	
			FIGRA _{0.4MJ} (W/s)	0.0	-	
			LFS	-	Not reached	
			THR _{600s} (MJ)	0.3	-	
			SMOGRAM ² /s ²)	0.0	-	
			TSP _{600s} (m ²)	21.8	-	
			Flaming droplets or debris	-	None	
NF EN ISO 1716	External non substantial component (external side)	3 (per component)	PCS (MJ/m ²)	1.7	-	
	Substantial component (steel sheet)	-	PCS (MJ/kg)	0.0		
	External non substantial component (reverse side)	3 (per component)	PCS (MJ/m ²)	0.3		
	Whole product (worst case)	-	PCS (MJ/kg)	0.5		

(-) means: not applicable

4. Classification and direct field of application

4.1 Reference of the classification

This classification has been carried out in accordance with clause 11.8.2 of the NF EN 13501-1+A1:2013 standard.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
A1	-	Not applicable	,	Not applicable

Classification: A1

4.3 Field of application

This classification is valid for the following product parameters:

- The products described in paragraph 2.
- Any coating of the same type and with a Gross Heat of Combustion per unit area $\leq 1.7 \text{ MJ/m}^2$ on the external side and $\leq 0.3 \text{ MJ/m}^2$ on the reverse side.
- A nominal thickness of steel sheet $\geq 0.50 \text{ mm}$.
- Various colours.

This classification is valid for the following end use conditions:

- Without substrate or with any A1 or A2-s1,d0 class substrate with a density $\geq 652 \text{ kg/m}^3$.
- With an air gap $\geq 80 \text{ mm}$.

5. Limitations

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

Champs-sur-Marne, September 22nd, 2015

**The Technician
Responsible for the test**



Maxime BAUER

**The Head of Reaction to Fire
Unit**



Gildas CREACH

.....END OF THE CLASSIFICATION REPORT