SAFETY, STRUCTURES AND FIRE DEPARTMENT
Reaction to fire

REACTION TO FIRE CLASSIFICATION REPORT No. RA09-0185 ACCORDING TO THE EUROPEAN STANDARD NF EN 13501-1

Notification by the French Government to the European Commission under no 0679.
Seule la version française fait foi.
The french version is legally acceptable

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

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

Owner:	**ArcelorMittal Liege Research** **Bld de Colonster, B57** **4000 LIEGE** **BELGIUM**
Commercial brand(s):	**SOLANO**
Manufacturing unit(s):	**ArcelorMittal Ramet** **1 rue de Sompre** **4400 IVOZ RAMET** **BELGIUM**
Brief description:	**Metal sheet** (see detailed description in paragraph 2)
Date of issue:	**June 15th, 2009**

The indicated classification does not prejudge the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 article of the consumption's code and of the law dated June 3rd, 1994.
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.

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 standard.

2. Product description

Steel sheet coated on the back side with an epoxy/polyester resin-based backcoat (12 µm) and on the top side with a polyester resin-based primer (7 µm) and with a finishing coat made of phtalate-free plasticized polyvinyl chloride (200 µm).
Nominal thickness of the steel sheet: 0.6 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 Nos.	Test method
CSTB	**ArcelorMittal Liege Research Bld de Colonster, B57 4000 LIEGE BELGIUM**	**ES541080639**	RA09-0185	EN ISO 11925-2 EN 13823

3.2 Tests results

Test method	Product	Number of tests	Parameters	Results Compliance parameters
EN ISO 11925-2 30s surface exposure	SOLANO	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s edge exposure	SOLANO	6	Fs > 150 mm Filter paper	Not reached Not ignited

Test method	Product	Number of tests	Parameters	Results Continuous parameters : mean value	Results Compliance parameters
EN 13823	SOLANO	3	$FIGRA_{0.2MJ}$(W/s) $FIGRA_{0.4MJ}$(W/s) LFS THR_{600s}(MJ)	**216.1** **158.2** **-** **1.6**	**-** **-** **Not reached** **-**
			SMOGRA(m²/s²) TSP_{600s}(m²)	**42.0** **71.8**	**-** **-**
			Flaming droplets or debris	**-**	**None**

(-) 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 clauses 11.5, 11.9.3 and 11.10.1 of the NF EN 13501-1 standard.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
C	**-**	**s2**	**,**	**d0**

Classification: C - s2, d0

4.3 Field of application

This classification is valid for the following product parameters:

- A nominal steel sheet thickness ≥ 0.6 mm.
- Various colours of phtalate-free plasticized polyvinyl chloride finish (primer 7 µm + finish 200 µm) on the exposed side.
- A maximum epoxy/polyester backcoat thickness of 12 µm on the non-proposed side.

Champs-sur-Marne, June 15th, 2009

The Technician responsible for the test

Olivier BRAULT

The Head of Reaction to Fire laboratory

Gildas CREACH

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