

REACTION TO FIRE CLASSIFICATION REPORT No. RA15-0347 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

Product standard

NF EN 877:1999/A1:2006/AC:2008: "Cast iron pipes and fittings, their joints and accessories for the evacuation of water from buildings – Requirements, test methods and quality assurance"

Owner:	SAINT GOBAIN PAM Centre de Recherche Les Longues Raies - Maidières 54700 PONT-A-MOUSSON FRANCE
Commercial brand(s):	PAM-Global®S (SML) range
Manufacturing unit(s):	The manufacturing unit appears in the associated tests report
Brief description:	Cast iron pipes and fittings and their joints (see detailed description in paragraph 2)
Date of issue:	February 22nd, 2016

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.

Update of the document.

The report RA15-0347 dated February 22nd, 2016 cancels and replaces the report RA15-0347 dated December 16th, 2015.

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

Spheroidal or lamellar graphite cast iron pipes and fittings coated inside and outside with paints, used for the evacuation of water from buildings.

The assemblies between the different pipes of the system can include stainless steel straps and watertight gaskets made of EPDM elastomer.

References of joints: PAM GLOBAL RAPID S, PAM GLOBAL RAPID INOX, SMU RAPID 2, SMU RAPID 2 TOUT INOX, SMU PAM, SMU INOX PAM, SMU INOX PAM R, HP and HP AUTO BUTE.

Nominal thicknesses of the pipes and fittings: from 3 to 5 mm.

Nominal density of the pipes and fittings: 7150 kg/m³.

Inner nominal diameters of the pipes: from 40 to 600 mm.

Colours: red brown on the outside (cast iron pipes and fittings), stainless steel (collars of steel joints), black (elastomer gaskets).

Nominal characteristics of the coatings:

	PAM-Global®S (SML) range		
	Pipe		Fitting
	Outside	Inside	Inside/Outside
Nature	Acrylic	Bi-components epoxy	Epoxy
Colour	Red brown	Ochre	Red brown
Thickness	40 µm	130 µm	70 µm

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	SAINT GOBAIN PAM Centre de recherche Les Longues Raies - Maidières 54700 PONT-A-MOUSSON FRANCE	ES541150561	RA15-0347	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	PAM-GLOBAL®S (SML) range (PAM GLOBAL RAPID S joint)	3	FIGRA _{0.2MJ} (W/s)	0.0	-	
			FIGRA _{0.4MJ} (W/s)	0.0	-	
			LFS	-	Not reached	
				THR _{600s} (MJ)	0.2	-
				SMOGRAM _{600s} (m ² /s ²)	0.0	-
				TSP _{600s} (m ²)	12.6	-
				Flaming droplets or debris	-	None
	PAM-GLOBAL®S (SML) range (HP joint)	1	FIGRA _{0.2MJ} (W/s)	0.0	-	
			FIGRA _{0.4MJ} (W/s)	0.0	-	
LFS			-	Not reached		
			THR _{600s} (MJ)	0.5	-	
			SMOGRAM _{600s} (m ² /s ²)	0.0	-	
			TSP _{600s} (m ²)	13.8	-	
			Flaming droplets or debris	-	None	
PAM-GLOBAL®S (SML) range (SMU PAM joint)	1	FIGRA _{0.2MJ} (W/s)	0.0	-		
		FIGRA _{0.4MJ} (W/s)	0.0	-		
		LFS	-	Not reached		
			THR _{600s} (MJ)	0.3	-	
			SMOGRAM _{600s} (m ² /s ²)	0.0	-	
			TSP _{600s} (m ²)	8.3	-	
			Flaming droplets or debris	-	None	
NF EN ISO 1716	External coatings of assembled products	3 (per constituent)	PCS (MJ/m ²)	1.3	-	
	Whole product (worst case)	-	PCS (MJ/kg)	0.2	-	

(-) means: not applicable

In compliance with clause 4.1.3 of the NF EN 877:1999/A1:2006/AC:2008 standard, uncoated cast iron pipes and fittings, their joints and accessories are A1 Class without further testing according to the amended CEC Decision 96/603/EC.

Considering the products in their end-use conditions, internal coatings are not relevant as they are not exposed to fire.

Gaskets of joint are not relevant either as in the end-use conditions they are not exposed to fire and represent a very low quantity of organic material.

4. Classification and direct field of application

4.1 Reference of the classification

This classification has been carried out in accordance with clause 11.8.1 of the NF EN 13501-1+A1:2013 standard, clause 4.1.3 of the NF EN 877:1999/A1:2006/AC:2008 standard and BP01-2013 decision.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
A1	-	Non applicable	,	Non applicable

Classification: A1

4.3 Field of application

This classification is valid for the following product parameters:

- The product described in paragraph 2.
- A range of nominal thicknesses of the cast iron pipes and fittings from 3 to 5 mm.
- A nominal density of the cast iron pipes and fittings of 7150 kg/m³.

This classification is valid for the following end use conditions:

- Products assembled in a waters evacuation system.

5. Limitations

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

Champs-sur-Marne, February 22nd, 2016

The Head of Reaction to Fire Unit

Gildas CREACH

.....END OF THE CLASSIFICATION REPORT