

REACTION TO FIRE CLASSIFICATION REPORT

No. RA14-0368

ACCORDING TO THE EUROPEAN STANDARD

NF EN 13501-1+A1:2013

Provided the Ordinance from the Ministry of the interior, November 21, 2002 modified
Pilot laboratory approved by the Ministry of the Interior (Ordinance of February 5, 1959, modified)

Seule la version française fait foi
Only the French version is legally acceptable

Valid 5 years from December 15th, 2014

Owner: **GIRPI**
Rue Robert Ancel
76700 HARFLEUR
FRANCE

Commercial brand(s): **KRYOCLIM**

Brief description: **Pipes and fittings made of polyvinyl chloride**
(see detailed description in paragraph 2)

Date of issue: **December 15th, 2014**

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.

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

Rigid pipes and fittings made of polyvinyl chloride.

Characteristics of the pipes:

Nominal density: 1350 kg/m³.

Nominal diameters: from 20 to 200 mm.

Nominal thicknesses: from 2.3 to 11.9 mm.

Characteristics of the fittings:

Nominal density: 1350 kg/m³.

Nominal diameters: from 20 to 200 mm.

Nominal thicknesses: from 3.0 to 17.5 mm.

Colour: green (pipes and fittings).

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	GIRPI Rue Robert Ancel 76700 HARFLEUR FRANCE	ES541140531	RA14-0368	NF EN ISO 11925-2:2013 NF EN 13823:2013

3.2 Tests results

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

Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters Mean values	Compliance parameters
NF EN 13823	KRYOCLIM	3	FIGRA _{0.2MJ} (W/s) FIGRA _{0.4MJ} (W/s) LFS THR _{600s} (MJ)	2.3 2.3 - 0.6	- - Not reached -
			SMOGRA(m ² /s ²) TSP _{600s} (m ²)	3.6 30.9	- -
			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 11.6, 11.9.2 and 11.10.1 of the NF EN 13501-1+A1:2013 standard.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
B	-	s1	,	d0

Classification: B - s1, d0

4.3 Field of application

This classification is valid for the following product parameters:

- The product described in paragraph 2.
- A nominal density for the pipes and fittings of 1350 kg/m³.
- A range of nominal diameters of the pipes and fittings from 20 to 200 mm.
- A range of nominal thicknesses of the pipes from 2.3 to 11.9 mm.
- A range of nominal thicknesses of the fittings from 3.0 to 17.5 mm.
- A green colour.

This classification is valid for the following end use conditions:

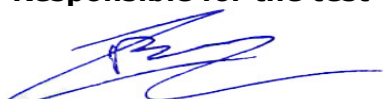
- Without substrate or with any A1 or A2-s1,d0 class substrate with a density ≥ 652 kg/m³.
- With or without air gap.

5. Limitation

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

Champs-sur-Marne, December 15th, 2014

**The Technician
Responsible for the test**



Maxime BAUER

**The Head of Reaction to Fire
Unit**



Gildas CREACH

.....END OF THE CLASSIFICATION REPORT