

# **REACTION TO FIRE CLASSIFICATION REPORT**

## **No. RA14-0359**

### **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 18<sup>th</sup>, 2014**

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

**Commercial brand(s):** **HTA**

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

**Date of issue:** **December 18<sup>th</sup>, 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: 1550 kg/m<sup>3</sup>.

Nominal diameters: from 16 to 160 mm.

Nominal thicknesses: from 1.8 to 11.8 mm.

Characteristics of the fittings:

Nominal density: 1450 kg/m<sup>3</sup>.

Nominal diameters: from 16 to 160 mm.

Nominal thicknesses: from 3.0 to 12.5 mm.

Colour: brown (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                                |
|--------------------|---|---------------------|-----------------|--|
| <b>CSTB</b>        | <b>GIRPI</b><br><b>Rue Robert Ancel</b><br><b>76700 HARFLEUR</b><br><b>FRANCE</b> | <b>ES541140648</b>  | RA14-0359       | NF EN ISO 11925-2:2013<br>NF EN 13823:2013 |

#### 3.2 Tests results

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

| Test method | Product | Number of tests | Parameters                              | Results                              |                       |
|-------------|---------|-----------------|---|--------------------------------------|-----------------------|
|             |         |                 |   | Continuous parameters<br>Mean values | Compliance parameters |
| NF EN 13823 | HTA     | 3               | FIGRA <sub>0.2MJ</sub> (W/s)            | <b>0.0</b>                           | -                     |
|             |         |                 | FIGRA <sub>0.4MJ</sub> (W/s)            | <b>0.0</b>                           | -                     |
|             |         |                 | LFS                                     | -                                    | <b>Not reached</b>    |
|             |         |                 | THR <sub>600s</sub> (MJ)                | <b>0.5</b>                           | -                     |
|             |         |                 | SMOGRA(m <sup>2</sup> /s <sup>2</sup> ) | <b>0.0</b>                           | -                     |
|             |         |                 | TSP <sub>600s</sub> (m <sup>2</sup> )   | <b>14.1</b>                          | -                     |
|             |         |                 | Flaming droplets or debris              | -                                    | <b>None</b>           |

(-) 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>B</b>       | - | <b>s1</b>        | , | <b>d0</b>                  |

**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 of 1550 kg/m<sup>3</sup>.
- A nominal density for the fittings of 1450 kg/m<sup>3</sup>.
- A range of nominal diameters of the pipes and fittings from 16 to 160 mm.
- A range of nominal thicknesses of the pipes from 1.8 to 11.8 mm.
- A range of nominal thicknesses of the fittings from 3.0 to 12.5 mm.
- A brown 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  $\geq 652$  kg/m<sup>3</sup>.
- With or without air gap.

## 5. Limitation

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

Champs-sur-Marne, December 18<sup>th</sup>, 2014

**The Technician  
Responsible for the test**



**Benoit FOREST**

**The Head of Reaction to Fire  
Unit**

**P.O. Martial BONHOMME**



**Gildas CREACH**

.....END OF THE CLASSIFICATION REPORT