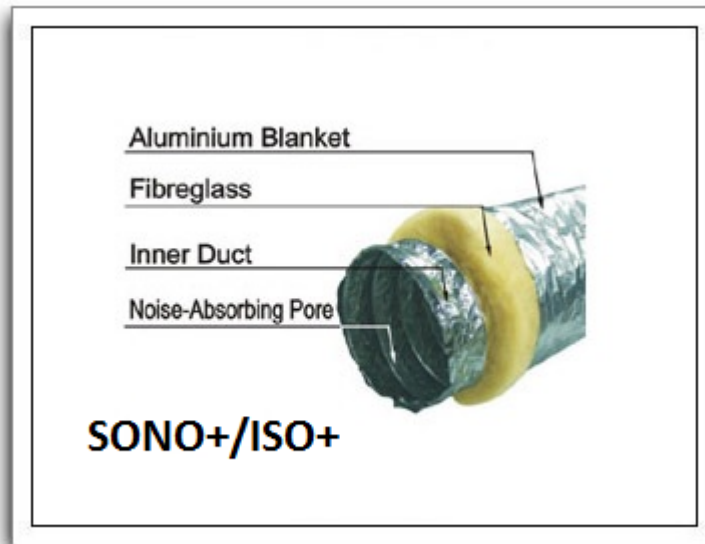


# Cardiff®

## A.C. - Accesorios

Conducto flexible aislado silencioso **SONO+/ISO+**



### Conducto flexible aislado silencio

|                                    |                         |
|------------------------------------|-------------------------|
| Funda exterior                     | Poliéster / Aluminio    |
| Color estándar de fibra de vidrio  | Amarillo                |
| Densidad de fibra de vidrio        | 16/m <sup>3</sup>       |
| Espesor de fibra de vidrio         | 25mm                    |
| Longitud estándar                  | 7.6 mts                 |
| Longitud comprimida                | 1m/1.2m                 |
| Gama del diámetro                  | 4" / 20" - 82mm / 560mm |
| Gama de temperatura                | -30/+140° C             |
| Velocidad del aire máxima          | 30m/Sec (5906pie/min)   |
| Presión positiva máxima de trabajo | 2000 pa                 |
| Embalaje                           | Una unidad por caja.    |

## ANTI-FIRE CERTIFICATION

| <b>DESCRIPTION:</b>  |                              | <b>ALUM. INSULATED FLEXIBLE DUCT</b> |                        |                       |                   |
|----------------------|------------------------------|--------------------------------------|------------------------|-----------------------|-------------------|
| <b>DIAMETER:</b>     |                              | <b>200MM</b>                         |                        |                       |                   |
| <b>TESTING DATE:</b> |                              | <b>MARCH 19-MARCH 24, 2006</b>       |                        |                       |                   |
| <b>NO.</b>           | <b>ITEM TESTED</b>           | <b>TESTING METHOD</b>                | <b>RESULT REQUIRED</b> | <b>TESTING RESULT</b> | <b>CONCLUSION</b> |
| 1                    | Minimum length after burning | GB/T 8625-88                         | >0                     | 480                   | Qualified         |
| 2                    | Average length after burning | GB/T 8625-88                         | ≥150                   | 527                   | Qualified         |
| 3                    | Average flue gas temperature | GB/T 8625-88                         | ≤200                   | 89                    | Qualified         |
| 4                    | Flame height                 | GB/T 8626-88                         | <150                   | 55                    | Qualified         |
| 5                    | Smoke density rate           | GB/T 8627-1999                       | ≤75                    | 7                     | Qualified         |

1. After testing, all the specifications of this insulated flexible duct are proved to be anti-fire.
2. According to the standard of GB8624-1997(Classification of Building Materials' Combustion Characteristics), its burning rate reaches GB 8624 B1.

**National Fire Testing Centre of China**  
**Issuing date: April 30, 2006**

**CREPIM**

Société par Actions Simplifiée -792 178 816 R.C.S. ARRAS  
Siege social : Parc de la Porte Nord - rue Christophe Colomb.  
62700 BRUAY LA BUISSIERE France  
Tél.: 03.21.61.64.00 Fax : 03.21.61.64.01  
E-mail : [contact@crepim.fr](mailto:contact@crepim.fr) [www.crepim.fr](http://www.crepim.fr)  
SIRET 792 178 816 00015 / APE 7112B / T.V.A. FR85 792 178 816

# CLASSIFICATION REPORT FOR FIRE BEHAVIOUR OF A MATERIAL

Validity 5 years from 19th of May 2016

According to the Decree of 21<sup>st</sup> of November 2002 on the reaction to fire performance of construction and furniture  
Laboratory approved by Ministry of Interior (Decree of 23/03/2010 amending the decree of 05/02/1959 as amended)

« En cas de litige, seule l'édition originale en français du présent procès-verbal fait foi »

Non official Certificate  
English translation of attached official Procès-Verbal  
n°1334/20/113 A

And annex of 1 page

**Commercial reference:** Insulated Flexible duct product, Type: ISO +

**Brief description:** Insulated Flexible duct product, Type: ISO+, material:  
Aluminium Foil (Silver, 0.0065 mm) + Glue (Clear, 0.003 mm) + PET film  
(Clear, 0.015 mm) + Glass wool (Yellow, 25 mm) + Aluminium Foil + Glue  
+ PET film.  
Field of application: Railway  
Total nominal thickness: 25 mm.  
Measured density: 23,4 kg/m<sup>3</sup>.  
Measured surface mass: 0,59 kg/m<sup>2</sup>.  
Colour: Yellow (Glass wool); Silver (aluminium).

**Type of test:** NF P 92-501 – Radiation test

**Reference of test report:** REE 1M 1334/20/113 A dated on 19/05/2016

**Classification:**

**M1**

**Durability of classification:** Not limited in theory.

Thanks to criteria resulting from tests described in the attached report.  
This certificate attests only characteristics of the tested sample and does not prejudge characteristics of similar products. It is therefore not a product certification within the meaning of article L. 115-27 of the consumer code and the act of June 3, 1994.

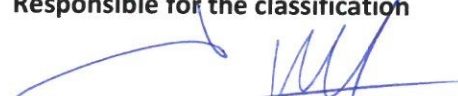
“Valid for applications not covered by EC marking”

Under approval of the President, Franck POUTCH



Skander KHELIFI

Bruay-la-Buissière, 19th of May 2016  
Responsible for the classification



Thomas TURF

Note. – Only full-reproduction and photocopy of the present classification report or the whole classification report and the attached report are authorized.

**Test Report**

**Test Report n°** REE 1M 1334/20/113 A

**Date** 19/05/16

**Manager** Skander KHELIFI

**Order number** Agreement on quote  
**Date of order** 19/04/16

**Pages** 1 on 1

*(Empty space for additional information or notes)*

**Test standard :** **NF P 92-501:1995** : Radiation test used for rigid materials, or for materials on rigid substrates of all thicknesses, and for flexible materials thicker than 5 mm.

**Accredited COFRAC test :** COFRAC accreditation attests competence of the laboratories for the only tests covered by the accreditation

**Tested Product**

**Name :** **Insulated Flexible duct product, Type: ISO +**

**Description :** Insulated Flexible duct product, Type: ISO+, material: Aluminium Foil (Silver, 0.0065 mm) + Glue (Clear, 0.003 mm) + PET film (Clear, 0.015 mm) + Glass wool (Yellow, 25 mm) + Aluminium Foil + Glue + PET film. Railway application.

**Density :** 23,4 kg/m<sup>3</sup> **Surface Mass :** 0,59 kg/m<sup>2</sup>

**Color :** Yellow (Glass wool); Silver (aluminium)

**Remarks :** /

**Size :** 400 mm x 300 mm x 25 mm

**Conditionning :** 23 ± 2 °C, 50 ± 5 % HR

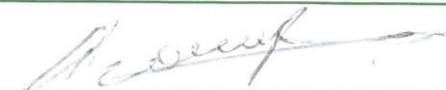

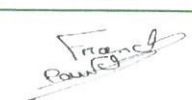
*The results are valid only for the fire-test-exposure conditions described in this procedure and for the specimens assessed.*

**Test Date :** 09/05/16 **Results**

|                         | Test 1 | Test 2 | Test 3 | Test 4 |
|-------------------------|--------|--------|--------|--------|
| ti1 (s)                 | /      | /      | /      | /      |
| ti2 (s)                 | /      | /      | /      | /      |
| td1 (s)                 | /      | /      | /      | /      |
| td2 (s)                 | /      | /      | /      | /      |
| e1 (s)                  | /      | /      | /      | /      |
| e2 (s)                  | /      | /      | /      | /      |
| Inflammation length (s) | 0      | 0      | 0      | 0      |
| Total height (cm)       | 0      | 0      | 0      | 0      |
| q value - NF P 92-507   | 0,0    | 0,0    | 0,0    | 0,0    |

ti1/td1/e1 : time of ignition / recording / extinction of the exposed face.  
 ti2/td2/e2 : time of ignition / recording / extinction of the unexposed face.

**Remarks :** /

|                                 |   |   |
|---------------------------------|---|---|
| R.AZAOUAGH<br>Test Officer      |  | F. POUTCH<br>Président  |
| S. KHELIFI<br>Technical Manager |  |  |

The reproduction of this test report is authorized only in its integral form - The test report concerns only the object submitted for testing - To declare or not, the conformity to the specification, it was not expressly kept count of the uncertainty linked to result.