

CLASSIFICATION OF REACTION TO FIRE FIRES-CR-183-10-AUPE

Ventilation duct



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CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1 + A1: 2009 with direct field of application

FIRES-CR-183-10-AUPE

Name of the product: Ventilation duct

Sponsor: Flexit A.S.
Televeien 15
1870 Orje
Norway

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1. INTRODUCTION

This classification report defines the reaction to fire classification assigned to element: ventilation duct in accordance with the procedures given in EN 13501-1 + A1: 2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The element is defined as a ventilation duct.

2.2 PRODUCT DESCRIPTION

The product is composite sheet made of Aluminium and PE layer, reinforced with steel wire. Manufacturer of product is Shanghai Yisi A/C Equipment Co.,Ltd, Room 627, No.2199 South Qilianshan Road, Shanghai, China.

Thickness of the composite sheets is 0,06 mm, area density is 300 g.cm⁻².

3. TEST REPORTS IN SUPPORT OF CLASSIFICATION

3.1 TEST REPORTS

No.	Name of laboratory	Name of sponsor	Test report No.	Date of the test	Test method
[1]	FIRES, s.r.o., Batizovce, SK	Flexit A.S., Televeien 15, 1870 Orje, Norway	FIRES-RF-114-10-AUNE	14. 12. 2010	EN 13823: 2010
[2]	FIRES, s.r.o., Batizovce, SK	Flexit A.S., Televeien 15, 1870 Orje, Norway	FIRES-RF-115-10-AUNE	14. 12. 2010	EN ISO 11925-2: 2002

[1] - [2] Test specimens were conditioned according to EN 13238: 2010 before the fire resistance test

3.2 TEST RESULTS

Test report number and test method	Characteristic value	Number of tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
[1] STN EN 13823	FIGRA _{0,2MJ}	3	641,5	(-)
	FIGRA _{0,4MJ}		512,4	(-)
	LFS<edge of specimen		(-)	compliant
	THR _{600s}		2,2	(-)
	SMOGRA (m ² /s ²)		243,8	(-)
	TSP600s (m ²)		25,6	(-)
	flaming droplets/particles		no flaming droplets/particles	non-compliant
[2] EN ISO 11925-2 surface/edge of specimen* exposed to flame (exposure time 30 s)	F _s ≤ 150 mm	12	(-)	compliant
flaming droplets/particles	ignition of the paper		(-)	non-compliant



4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11.4 of EN 13501-1 + A1: 2009.

4.2 CLASSIFICATION

The product, ventilation duct, in relation to its reaction to fire behaviour is classified:

D

The additional classification in relation to smoke production is:

s3

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings is:

Fire behaviour		Smoke production			Flaming droplets	
D	-	s	3	,	d	0

Reaction to fire classification: D-s3, d0

4.3 FIELD OF APPLICATION

This classification is valid according to standard for the following end use applications:

This classification is valid for the following final use applications:

- i) ventilation duct

This classification is also valid for the following product parameters:

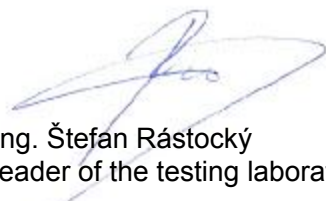
Composition	Composition of product shall not be changed;
Thickness	Thickness shall be changed within production tolerances;
Area density	Area density shall be changed within production tolerances;

5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

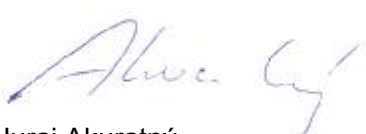
The classification is valid provided that the product, field of application and standards and regulations are not changed.

Approved:


 Ing. Štefan Rástocký
 leader of the testing laboratory



Signed:


 Ing. Juraj Akuratný
 technician of the testing laboratory