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CLASSIFICATION

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2007+A1:2009

Classification no. 2015-Efectis-R001505[Rev.1]

Sponsor Hunter Douglas Europe BV

P.O. Box 5072

3008 AB ROTTERDAM THE NETHERLANDS

Felt ceiling, type HeartFelt® Product name

Efectis Nederland BV Prepared by

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1. INTRODUCTION

1.1 PRODUCT NAME

This classification report defines the classification assigned to **felt ceiling**, **type HeartFelt**® in accordance with the procedures given in EN 13501-1:2007+A1:2009.

1.2 REVISION INFORMATION

The colour brown for the felt ceiling added to the classification. Original date of issue: December 2015

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, felt ceiling, type HeartFelt®, is defined as a ceiling.

2.2 MANUFACTURER

Hunter Douglas Europe BV P.O. Box 5072 3008 AB ROTTERDAM THE NETHERLANDS

2.3 PRODUCT DESCRIPTION

Product description:

100% PES

(see test reports appendix Specifications: PES-FR/PES-BIFR 600 light grey)

Density: 300 kg/m³ Mass: 600 g/m² Thickness: 2 mm

Felt profile

Dimensions: approx. 40 x 53.5 mm [W x H] Mass: 113 g/m (measured on the product)

Felt colours (between):

• Grey with 3% graphite

• Grey with 42% graphite

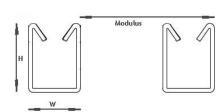
or

7575 crème
7576 light brown
7577 medium brown
7578 dark brown
40% biko white/ 20% brown/ 4% black/ 36% homo white
40% biko white/ 30% brown/ 6% black/ 24% homo white
40% biko white/ 40% brown/ 8% black/ 12% homo white

• 7579 umber 40% biko white/ 50% brown/ 10% black

 Aluminium mounting profile Modulus: between 50 - 100 mm

The product has a total thickness (assembled ceiling system) of 80 mm and a mass per unit area of felt profiles between 1130 - 565 g/m² (aluminium mounting profiles not included).





3. STANDARDS, REPORTS, RESULTS AND CRITERIA IN SUPPORT OF THIS CLASSIFICATION

3.1 APPLICABLE (PRODUCT) STANDARDS

EN ISO 11925-2:2010	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823:2010+A1:2014	Reaction to fire tests for building products - Building products, excluding floorings exposed to the thermal attack by a single burning item
EN 13501-:2007+A1:2009	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests
EN 13964:2004	Suspended ceilings – Requirements and test methods

3.2 REPORTS

Name of Laboratories	Name of sponsor	Report ref. no.	Test method
Efectis Nederland BV THE NETHERLANDS	Hunter Douglas Europe BV THE NETHERLANDS	2015-Efectis-R001503 2015-Efectis-R001504 2017-Efectis-R000472	EN ISO 11925-2:2010 EN 13823:2014 EN 13823:2014

3.3 TEST RESULTS

	Parameter					Results	
Test method and test number			No. tests	Continuous parameter – mean (m)	Compliance with parameters		
EN ISO 11925-2							
surface flame	Fs ≤150 mm		6	34	-		
impingement	Ignition of filter paper		6	-	Compliant		
Edge flame	Fs ≤150 mm Ignition of filter paper			32	-		
Impingement			6	-	Compliant		
EN 13823	EN 13823						
Grey	FIGRA _{0.2MJ}	[W/s]		0	-		
Modulus: 50 mm	FIGRA _{0.4MJ}	[W/s]		0	-		
	THR _{600s}	[MJ]		0.4	-		
	LFS < edge			-	Compliant		
	SMOGRA	$[m^2/s^2]$	3	7.5	-		
	TSP _{600s}	$[m^2]$		41	-		
	Flaming debris - flaming ≤ 10 s - flaming > 10 s			- -	Compliant Compliant		

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Grey	FIGRA _{0.2MJ}	[W/s]		0	-
Modulus: 100 mm	FIGRA _{0.4MJ}	[W/s]		0	-
	THR _{600s} [MJ]			0.4	-
	LFS < edge			-	Compliant
	SMOGRA	$[m^2/s^2]$	1	0.0	-
	TSP _{600s} [m ²]			32	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s				Compliant Compliant
Dark grey	FIGRA _{0.2MJ}	[W/s]		0	-
Modulus: 50 mm	FIGRA _{0.4MJ}	[W/s]		21	-
	THR _{600s} [MJ]			0.5	-
	LFS < edge			-	Compliant
	SMOGRA	$[m^2/s^2]$	1	10.5	-
	TSP _{600s} [m ²]			48	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s				Compliant Compliant
Dark brown	FIGRA _{0.2MJ}	[W/s]		0	-
Modulus: 50 mm	FIGRA _{0.4MJ}	[W/s]		0	-
	THR _{600s}	[MJ]		0.7	-
	LFS < edge			-	Compliant
	SMOGRA	$[m^2/s^2]$	3	11.0	-
	TSP _{600s}	[m ²]		46	-
	Flaming debris - flaming ≤ 10 s - flaming > 10 s			- -	Compliant Compliant



3.4 CLASSIFICATION CRITERIA

Fire classification of construction products and building elements Excluding floorings and linear pipe thermal insulation products					
Classification crit	Classification criteria				
Class Test method(s)		В	С	D	
EN ISO 11925-2 Exposure = 30 s	$F_s \le 150$ mm within 60 s Ignition of the paper in EN ISO 11925-2 results in a d2 classification.				
EN 13823	FIGRA _{0.2 MJ} \leq 120 W/s LFS $<$ edge of specimen THR _{600s} \leq 7.5 MJ		FIGRA _{0.4 MJ} ≤ 250 W/s LFS < edge of specimen THR _{600s} ≤ 15 MJ	FIGRA _{0.4 MJ} ≤ 750 W/s	
Additional classification					
Smoke production	s1 = SMOGRA \leq 30 m ² /s ² and TSP _{600s} \leq 50 m ² ; s2 = SMOGRA \leq 180 m ² /s ² and TSP _{600s} \leq 200 m ² ; s3 = not s1 or s2				
Flaming Droplets/particles	 d0 = no flaming droplets/ particles in EN 13823 within 600 s; d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s; d2 = not d0 or d1. 				

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11 of EN 13501-1:2007+ A1:2009.

4.2 CLASSIFICATION

The product, **felt ceiling, type HeartFelt**[®], in relation to its reaction to fire behaviour is classified:

В

The additional classification in relation to smoke production is:

S1

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

d0

Reaction to fire classification: B - s1, d0



4.3 FIELD OF APPLICATION

This classification is valid for the following product parameters:

Thickness Total ceiling system Felt profile Felt material	80 mm Approx. 53.5 mm 2 mm
Surface density (felt profiles only)	1570 g/m ²
Other properties • Colours	Between: Grey with 3% graphite Grey with 42% graphite or Crème Dark brown
ModulusNumber of profiles per m	50 - 100 20 - 10

This classification is valid for the following end use applications:

Substrate	Not applicable
Application	Free standing
Methods and means of fixing	Felt profiles are clicked in to aluminium profiles, which are screwed to the structure
Joints	Including joints
Other aspects of end use conditions	Used as ceiling

4.4 DURATION OF THE VALIDITY OF THIS CLASSIFICATION REPORT

There are no limitations in time on the validity of this report.

5. LIMITATIONS

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

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