

Classification of reaction to fire in accordance with EN 13501-1

1 Introduction

This classification report defines the classification assigned to “DELTA®-MAXX PLUS” in accordance with the procedure given in EN 13501-1:2018.

This report replaces RISE report O100609-195051-1, dated January 21, 2022. In this revision has the sentence "According to the manufacturer the product conforms to DIN EN 13859-1" been added. And the report has been issued as Notified Body, System 3.

2 Details of classified product

2.1 General

The product “DELTA®-MAXX PLUS” is defined as a Roofing membrane. Its classification is valid for the following end use application: Surface lining.
According to the manufacturer the product conforms to DIN EN 13859-1.

2.2 Product description

The product, DELTA®-MAXX PLUS, is fully described below.

Roofing membrane called “DELTA®-MAXX PLUS”, consisting of TPU: 37% and PET Nonwoven: 63%. The product has a nominal area weight of 0.19 kg/m².

3 Reports and results in support of this classification

3.1 Test report

Table 1 Test report.

Name of laboratory	Name of sponsor	Test report reference no	Accredited test methods and date
RISE	Dörken GmbH & Co. KG	O100609-195051rev1	EN 13823:2020 and EN ISO 11925-2:2020

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3.2 Test results

Table 2 Test results showing the worst case as found in the test program performed.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		6		
Surface flame attack*				
30 s exposure	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	Yes
EN 13823		3		
	$FIGRA_{0,2MJ}$ (W/s)		0	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		0	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	THR_{600s} , (MJ)		0.3	Compliant
	$SMOGRA$, (m ² /s ²)		0	Compliant
	TSP_{600s} , (m ²)		5.9	Compliant
	Flaming droplets/particles		(-)	Yes

* : as required to the end use application of the product

(-) : not applicable

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 11 and 15 of EN 13501-1:2018.

4.2 Classification

The product called “DELTA®-MAXX PLUS” in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

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

d2

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation product is:

Fire Behaviour		Smoke Production			Flaming Droplets	
B	-	s	1	,	d	2

Reaction to fire classification: *B-s1,d2*

4.3 Field of application:

This classification is valid for the following product parameters:

Product description, as specified in 2.2 in this report

This classification is valid for the following end use conditions:

Mounting

- Free standing.

Fixings

- Mechanically fixed.

Joints

- Horizontal joints.

Void

- Void ≥ 80 mm.

The sample was delivered by the client. RISE, Fire Technology was not involved in the sampling procedure.

5 Limitations

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

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

RISE Research Institutes of Sweden AB **Fire and safety - Reaction to Fire Material Lab**

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