

0390-L-19/4

2 April 2020

Additional classification report

for roof coverings exposed to external fire

Cantex Silicone Roof Coating / glass
fleece 100 g.m⁻² / EPS 100 SE /
trapezoidal steel deck



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Details

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Date of order	26 September 2019
Project number	0390-L-19/4
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Subject	classification using test data from external fire exposure to roofs tests

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This classification report is additional to the original classification report issued as order number 0390-L-19/2, dated 28 February 2020. The original classification report remains valid and has not been replaced by this additional classification report.

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1 Introduction

By order of Cantex Dakrenovatie BV, Kiwa BDA Testing B.V. has drawn a classification report with reference to a fire test according to CEN/TS 1187:2012, test 1. This concerns the classification of the **Cantex Silicon Roof Coating** waterproofing sheet in combination with **EPS** insulation, in accordance with the procedures given in EN 13501-5:2016 – Fire classification of construction products and building elements – Part 5: Classification using data from external fire exposure to roofs tests.

2 Description of the roof

The roof is fully described in the test report in support of this classification listed in table 1.

3 Test report and test results in support of this classification

Table 1

Name of laboratory	Name of sponsor	Number test report	Test method
Kiwa BDA Testing B.V.	Cantex Dakrenovatie BV	0390-L-19/3, dated 2 April 2020	CEN/TS 1187: 2012, test 1

This product has not been retested. This additional classification report is no technical review of the original classification report 0390-L-19/2, dated 28 February 2020.

4 Results

Test conditions

- Test pitch : 15°
- Supporting deck : trapezoidal profiled steel deck, 106-profile, thickness 0,75 mm.

Table 2

Parameter	Criteria	Test results on test specimen				Compliance
		1	2	3	4	
Internal fire spread upwards	< 0,700 m	150 mm	140 mm	150 mm	150 mm	yes
External fire spread upwards	< 0,700 m	95 mm	20 mm	50 mm	110 mm	yes
Internal fire spread downwards	< 0,600 m	170 mm	140 mm	160 mm	140 mm	yes
External fire spread downwards	< 0,600 m	140 mm	90 mm	130 mm	95 mm	yes
Maximum burned length internal	< 0,800 m	320 mm	280 mm	310 mm	290 mm	yes
Maximum burned length external	< 0,800 m	235 mm	110 mm	180 mm	205 mm	yes
Burning, droplets/debris falling from exposed side	none	none	none	none	none	yes
Burning, glowing particles penetrating the roof	none	none	none	none	none	yes
Single through opening	< 25 mm ²	none	none	none	none	yes
Sum of all through openings	< 4500 mm ²	0 mm ²	0 mm ²	0 mm ²	0 mm ²	yes
Lateral fire spread, left	< edges ¹⁾	20 mm	45 mm	20 mm	60 mm	yes
Lateral fire spread, right	< edges ¹⁾	125 mm	35 mm	50 mm	70 mm	yes
Internal glowing combustion	none	none	none	none	none	yes
Radius of fire spread (horizontal roof)	< 0,200 m	-	-	-	-	n.a.

¹⁾ Edges of the measuring zone.

5 Classification and field of application

Reference

This classification has been carried out in accordance with EN 13501-5:2016.

Classification

The roof covering Cantex Silicone Roof Coating in combination with EPS insulation and a separation layer of uncoated glass fleece in relation to its external fire performance is classified: **B_{ROOF} (t1)**.

Field of application

This classification is valid for the following conditions:


- range of pitches: < 20°.
- range of decks:
 - any continuous non combustible board (thickness ≥ 10 mm) without gaps;
 - any trapezoidal profiled not perforated steel deck.

6 Limitations

This document is not valid as type approval or as certificate of the product.

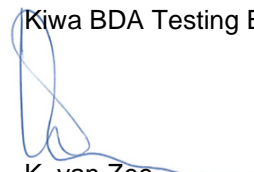
Gorinchem, 2 April 2020

The laboratory



W.J. B. Middag
laboratory technician

Kiwa BDA Testing B.V.



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