

0390-L-19/2

28 February 2020

Classification report

for roof coverings exposed to external fire

Silicone Roofing Triple Guard (TG) /
glass fleece 100 g.m⁻² / EPS 100 SE /
trapezoidal steel deck



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Project number

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Subject

classification using test data from
external fire exposure to roofs tests

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1 Introduction

By order of Global Paint Products B.V., 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 **Silicone Roofing Triple Guard (TG)** 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.	Global Paint Products B.V.	0390-L-19/1, dated 28 February 2020	CEN/TS 1187: 2012, test 1

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 Silicone Roofing Triple Guard (TG) 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, 28 February 2020

The laboratory



W.J. B. Middag
laboratory technician

Kiwa BDA Testing B.V.



K. van Zee
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Designated as Notified Body
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