Additional classification report for roofs/roof coverings exposed to external fire No. 19419G

Owner of the additional classification report

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Introduction

This additional classification report defines the classification assigned to the roof/roof covering **«Paradiene SA + Parafor Solo SA»** in accordance with the procedures given in the standard EN 13501-5:2016 : Fire classification of construction products and building elements – Part 5: Classification using data from external fire exposure to roofs tests: Test 4: Method with two stages incorporating burning brands, wind and supplementary radiant heat

This additional classification report consists of 5 pages

This report is additional to that issued as No. 18586M, dated 12/10/2018. This report is drafted in accordance with the regulations of EGOLF Agreement EGA 08rev2:2013 “Application note: clause 5.10 / 4-2 – Amendment of reports: client changing product/company names (ii) for commercial reasons – Issue of additional reports”. The original report remains valid and is not replaced by this report. The product has not been retested and this report does not involve technical changes or technical reviews of the original report. The original and the new name of the product and of the company commercially responsible for the product, as well as the declarations concerning this additional report, are documented by the laboratory and maintained in the laboratory records. / The original and the new name of the sponsor, as well as the declarations concerning this additional report, are documented by the laboratory and maintained in the laboratory records.

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1. DESCRIPTION OF THE ROOF/ROOF COVERING

This description is based on information given by the sponsor.

Tested system according to CEN/TS 1187:2012

	Nominal value
SUPPORTING DECK	
Material	**Fiber cement board**
Density (kg/m³)	1850
Thickness (mm)	8
Flame retardants	No
Reaction to fire according to EN 13501-1	A2
PRIMER	
Material	Cold bituminous primer
Trade name	**Langley Primer**
Manufacturer	BMI - SIPLAST
Solid content (%)	46,5
Applied amount (g/m²) (dry)	250
Density (kg/m³) (wet)	0,92
Flame retardants	No
ROOF COVERING	
1.1 First layer	
Material	Fillerized SBS modified adhesive elastomeric bitumen vapour barrier with aluminium and glass fiber reinforcement.
Trade name	**Paradine SA**
Manufacturer	BMI - SIPLAST
Supplier	Langley Waterproofing Systems, Lda.
Reinforcement (material + g/m²)	Aluminium/ glass fiber composite, weight known by the laboratory
Thickness (mm)	1,5
Surface weight (g/m²)	1600
Flame retardants	No
Fixing method	Self-adhesive
Reaction to fire according to EN 13501-1	Not communicated
1.2 Top layer	
Material	A reinforced SBS modified elastomeric bitumen membrane with a surface finish of mineral granules or mineral slates.
Trade name	**Parafor Solo SA**
Manufacturer	BMI - SIPLAST
Supplier	Langley Waterproofing Systems, Lda.
Reinforcement (material + g/m²)	Non-woven polyester, 180 g/m²
Thickness (mm)	4,2
Surface weight (g/m²)	5000
Surface weight (g/m²) of the mineral finishing	Mineral granules or mineral slates, weight known by the laboratory
Flame retardants	Yes
Fixing method	Fully welded

(1) Not verifiable

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2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. no.	Standard
WFRGENT nv Ghent - Belgium	Known by the laboratory	18586L (13/04/2018 & 16/04/2018)	CEN/TS 1187:2012: Test 4

b) Test results

Test conditions:
- Test pitch: 0°
- Deck: Fiber cement board

PRELIMINARY TEST (STAGE 1)

Parameter	Criteria				Test [(a)] results	Compliance			
	Class $B_{ROOF}(t4)$	Class $C_{ROOF}(t4)$	Class $D_{ROOF}(t4)$	Class $E_{ROOF}(t4)$	Spec. 1	Class $B_{ROOF}(t4)$	Class $C_{ROOF}(t4)$	Class $D_{ROOF}(t4)$	Class $E_{ROOF}(t4)$
Burn time	< 5 min	< 5 min	< 5 min	< 5 min	0:03	Yes	Yes	Yes	Yes
Flame spread distance	< 0,38 m	< 0,38 m	< 0,38 m	No limit	0,09 m	Yes	Yes	Yes	Yes
Penetration	None	None	None	None	None	Yes	Yes	Yes	Yes

(a) Not for extended application.

PENETRATION TEST (STAGE 2)

Parameter	Criteria			
	Class $B_{ROOF}(t4)$	Class $C_{ROOF}(t4)$	Class $D_{ROOF}(t4)$	Class $E_{ROOF}(t4)$
Penetration	≥ 60 min	< 60 min ≥ 30 min	< 30 min	< 30 min
Parameter	**Test [(a)] results**			
	Spec. 1	Spec. 2	Spec. 3	Mean [a]
Penetration	≥ 60 min	≥ 60 min	≥ 60 min	≥ 60 min
Parameter	**Compliance**			
	Class $B_{ROOF}(t4)$	Class $C_{ROOF}(t4)$	Class $D_{ROOF}(t4)$	Class $E_{ROOF}(t4)$
Penetration	Yes	Yes	Yes	Yes

(a) If one or two of the specimens have not failed at one hour, a time of 60 min shall be used in calculating the mean time of penetration.

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3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference

This classification has been carried out in accordance with clause 9 test 4 of EN 13501-5:2016 and EN 13707:2004.

b) Classification

The roof / roof covering **« Paradiene SA + Parafor Solo SA »** in relation to its external fire performance is classified:

B_{ROOF} (t4)

c) Direct field of application

The classification is valid for the system as described in §1 for the following conditions:

- Range of pitches: ≤ 10°
- Supporting deck

Type of product:	Fiber cement board
Density:	1850 kg/m³ or higher
Thickness:	8 mm or thicker
Flame retardants:	No

4. LIMITATIONS

At the time the standard EN 13501-5:2016 was published, no decision was made concerning the duration of validity of a classification document.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonised standards and technical specifications.

5. WARNING

This classification report does not represent type approval nor certification of the product.

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6. CONCERNING DECLARATION OF PERFORMANCE (DoP) ACCORDING TO THE CONSTRUCTION PRODUCT REGULATION (CPR)

Annex ZA of the harmonised standard

- EN 13707: 2004 – "Flexible sheets for waterproofing - Reinforced bitumen sheets for roof waterproofing"

declares that a System 3 Attestation of Conformity (AoC) under the Construction Products Directive (CPD: 89/106/EEC) is required for all external fire performance declarations better than class F_{roof} (t1, t2, t3, t4). Under the Construction Products Regulation (CPR: EU 305/2011) this corresponds with a System 3 of Assessment and Verification of Constancy of Performance (AVCP) as basis for a Declaration of Performance (DoP).

The classification assigned to the product in this report is appropriate to such a Declaration of Performance of the essential characteristics of the construction product by the manufacturer within the context of a System 3 Assessment and Verification of Constancy of Performance. Under the Construction Products Regulation a Declaration of Performance (DoP) is a requirement for affixing the CE marking.

Although at the time the classification report for the tested material/product was drafted there was a product standard for CE marking available, the sponsor specifically requested not to follow the requirements given by this product standard.
Therefore, no CE marking could be affixed under the Construction Products Regulation (CPR: EU 305/2011) / Construction Products Directive (CPD: 89/106/EEC) and the classification obtained in this classification report is only valid for the tested product, without the application of any extended application rules.

PREPARED BY	APPROVED BY
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