

Classification report for roofs/roof coverings exposed to external fire No. 18134C

Owner of the classification report

Tecnopol Sistemas S.L.
Finlàndia, 33
08520 Les Franqueses
Spain

Introduction

This classification report defines the classification assigned to the roof covering « **Primer EP-w-1070 + Tecnocoat P-2049 + Tecnotop 2C** » 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 2: Method with burning brands and wind.

This classification report consists of 5 pages

1. DESCRIPTION OF THE ROOF / ROOF COVERING

This description is based on information given by the sponsor.

		Nominal value
SUBSTRATE		
Standard substrate	Yes	
Material	Wood particle board according to § 5.4.2 of the standard	
Thickness (mm)		19 ± 2
Density (kg/m ³)		680 ± 50
Flame retardants	No	
ROOF COVERING		
1.1 <u>Primer</u>		
Material	Epoxy water based resin without solvents.	
Trade name	PRIMER EPW-1070	
Manufacturer / Supplier	TECNOPOL	
Thickness (mm) (dry)		0,2
Density (kg/m ³) (wet)		1000
Surface weight (g/m ²) (dry)		800
Solid content		3 %
Flame retardants	No	
Fixing method	Liquid applied by a roller	
1.2 <u>First layer</u>		
Material	100 % pure polyurea membrane is made up of two high reactive liquid components, isocyanates and amines, which are mixed together using spray equipment.	
Trade name	TECNOCOAT P-2049	
Manufacturer / Supplier	TECNOPOL	
Thickness (mm) (dry)		2
Density (kg/m ³) (wet)		1100
Surface weight (g/m ²) (dry)		2200
Solid content		100 %
Flame retardants	No	
Fixing method	Liquid applied by a spray equipment	
1.3 <u>Top layer</u>		
Material	Two component aliphatic polyurethane Resin	
Trade name	TECNOTOP 2C	
Manufacturer / Supplier	TECNOPOL	
Colour	Green	
Thickness (µm) (dry)		150
Density (kg/m ³) (wet)		1220
Surface weight (g/m ²) (dry)		150-200
Solid content		71 %
Flame retardants	No	
Fixing method	Liquid applied by roller	

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.	Test method,
WFRGENT N.V. Ghent - Belgium	Tecnopol Sistemas S.L.	18134B	CEN/TS 1187: 2012 Test 2

b) Test results

Test conditions: 18134B

- Test pitch: 30°

- Substrate: Wood particle board according to § 5.4.2

Parameter		Criteria		Test results					Compliance
		Mean	Max.	Spe. 1	Spe. 2	Spe. 3	Mean	Max.	
2 m/s	Damaged length roof covering (m)	≤0,550m	≤0,800m	0,450	0,430	0,410	0,430	0,450	Yes
	Damaged length substrate (m)	≤0,550m	≤0,800m	0,380	0,340	0,310	0,343	0,380	Yes
4 m/s	Damaged length roof covering (m)	≤0,550m	≤0,800m	0,380	0,370	0,390	0,380	0,390	Yes
	Damaged length substrate (m)	≤0,550m	≤0,800m	0,300	0,290	0,310	0,300	0,310	Yes

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference

This classification has been carried out in accordance with clause 9 test 2 of EN 13501-5:2016 and ETAG 005:2004.

b) Classification

The roof / roof covering « **TECNOTOP 2C + TECNOCOAT P-2049 + PRIMER EPW-1070** » in relation to its external fire performance is classified:

B_{ROOF} (t2)

c) Field of application

This classification is valid for the following conditions:

- Range of pitches: Valid for all pitches.
- Range of substrates:

For combustible and non-combustible substrates having a density greater than or equal to 510 kg/m³

4. RESTRICTIONS

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

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.

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


Annex ZA of the harmonised standard ETAG 005 :2004: "Guideline for European technical approval of liquid applied roof waterproofing kits" 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.

PREPARED BY


Simon Botte (Signature)
Project Assistant
2017.04.28 16:37:40
+02'00'

APPROVED BY


Bart Sette (Signature)
General Manager
2017.04.28 16:50:43
+02'00'

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