

Classification report for roofs/roof coverings exposed to external fire No. 19571B-rev.1

Owner of the classification report

Italchimica SRL
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Introduction

This classification report defines the classification assigned to the roof/roof covering «**Elastorapid VK 261**» 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 classification report consists of 5 pages

1. DESCRIPTION OF THE ROOF/ROOF COVERING

	Nominal value	Measured value
SUPPORTING DECK		
Material	Free double pressed and autoclaved flat cement sheets reinforced with mineralized cellulose fibers	
Trade name	SILBONIT HA-HC	
Density (kg/m ³)	1600	(1)
Thickness (mm)	8	(1)
Reaction to fire classification according to EN 13501-1	A2-s1, d0	
ROOF COVERING		
Primer		
Material	Epoxy primer	
Trade name	EPOXPAV SL 35 PRIMER	
Manufacturer / Supplier	Italchimica	
Thickness (mm)	0,200	(1)
Surface weight (g/m ²)	250	(1)
Flame retardants	Yes	(1)
Fixing method	By Brush	
Reaction to fire classification according to EN 13501-1	Bfl – S1	
Toplayer		
Material	Pure Polyurea	
Trade name	ELASTORAPID VK 261	
Manufacturer	Italchimica	
Supplier	Italchimica	
Thickness (mm)	2,00	(1)
Surface weight (g/m ²)	2000	(1)
Flame retardants	Yes	(1)
Fixing method	Bi-mixer	
Reaction to fire classification according to EN 13501-1	Cfl – S1	

(1) Not verifiable

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 nv Ghent - Belgium	Italchimica SRL	19571A	CEN/TS 1187:2012: Test 4

b) Test results

Test conditions:

- Test pitch: 0°
- Deck: Silbonit HA-HC

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	00:00	Yes	Yes	Yes	Yes
Flame spread distance	< 0,38 m	< 0,38 m	< 0,38 m	No limit	0,07	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.

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 ETAG 005:2004.

b) Classification

The roof / roof covering « **Elastorapid VK 261** » in relation to its external fire performance is classified:

BROOF (t4)

c) Direct field of application

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

- Range of pitches: $\leq 10^\circ$

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.

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

Annex ZA of the harmonised standard

- ETAG 005:2004

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

APPROVED BY

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