

Classification report for roofs/roof coverings exposed to external fire Nr 14605B

Owner of the classification report

Renolit Belgium NV
Industriepark De Bruwaan 9
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Belgium

Introduction

This classification report defines the classification assigned to the roof covering «**RENOLIT ALKORPLAN F**» in accordance with the procedures given in the standard EN 13501 – 5 : 2005 + A1 : 2009 : Fire classification of construction products and building elements – Part 5: Classification using data from external fire exposure to roofs tests: Test 3: Method with burning brands, wind and supplementary radiant heat.

This classification report consists of 4 pages

1. DESCRIPTION OF THE ROOF / ROOF COVERING

Nominal value / Measured value	
SUPPORTING DECK	
Material	Trapezoidal profiled steel deck 106/750 according to §6.5.4.3 of the standard
INSULATING LAYER	
Material	Mineral wool
Trade name	Taurox Duo NP
Manufacturer	Rockwool NV
Supplier	Renolit Belgium NV
Thickness (mm)	100
Density (kg/m ³)	150
Fire retardant	No
Fixing method	Mechanically
ROOF COVERING	
Material	Polyester reinforced (90 g/m ²) flexible PVC waterproofing membrane
Trade name	RENOLIT ALKORPLAN F
Manufacturer / Supplier	Renolit Belgium NV
Thickness (mm)	2,0
Surface weight (g/m ²)	2350
Fire retardant	Yes
Fixing method	Mechanically

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	Renolit Belgium NV	14605A	ENV 1187/A1: 2005 : Test 3

b) Test results

Test conditions:

- Test pitch: 5°
- Supporting deck: Trapezoidal profiled steel deck 106/750

Parameter	Criteria			Test results		Compliance		
	Class B _{ROOF} (t3)	Class C _{ROOF} (t3)	Class D _{ROOF} (t3)	Spec. 1	Spec. 2	Class B _{ROOF} (t3)	Class C _{ROOF} (t3)	Class D _{ROOF} (t3)
External fire spread time (T _E)	≥ 30 min	≥ 10 min	N.a.	≥ 30 min	≥ 30 min	Yes	Yes	N.a.
Time to fire penetration (T _P)	≥ 30 min	≥ 15 min	≥ 5 min	≥ 30 min	≥ 30 min	Yes	Yes	Yes

N.a. = Not applicable

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference

This classification has been carried out in accordance with clause 9 test 3 of EN 13501 – 5 : 2005 + A1 : 2009 and the EN 13956:2005.

b) Classification

The roof / roof covering « **RENOLIT ALKORPLAN F** » in relation to its external fire performance is classified:

B_{ROOF} (t3)

c) Field of application

- Range of pitches: <10°
- Range of decks:
 - Any profiled and non-perforated steel deck
 - Any non-combustible continuous deck with a minimum thickness of 10 mm
- Range of insulation:



Material	Mineral wool
Thickness (mm)	100
Density (kg/m ³)	150
Fire retardant	No

4. LIMITATIONS

At the time the standard EN 13501 – 5 : 2005 + A1 : 2009 was published, no decision was made concerning the duration of validity of a classification document.

5. WARNING

This classification document does not represent type approval or certification of the product. The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of a system 3 attestation of conformity and CE marking under the Construction Products Directive. The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Report	Name	Signature*	Date
Prepared by	Ir. K. CATRY		1 8 OKT. 2010
Reviewed by	Prof. Dr. Ir. Paul VANDEVELDE		1 8 OKT. 2010
*For and on behalf of "WFRGENT N.V."			

EN 13501-5 Broof(t3) WG 5E*

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