

CLASSIFICATION OF REACTION TO FIRE FIRES-CR-228-17-AUPE

Roof underlay with insulation ALUTHERMO ROOFREFLEX

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CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1: 2007 + A1: 2009 with direct field of application

FIRES-CR-228-17-AUPE

Name of the product: Roof underlay with insulation ALUTHERMO ROOFREFLEX

Sponsor: Aluthermo SA
Steinkelt, Galhausen 23
B-4780 Saint Vith
Belgium

Prepared by: FIRES, s.r.o.
Notified Body No. 1396
Osloboditeľov 282
059 35 Batizovce
Slovak Republic

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1. INTRODUCTION

This classification report defines the reaction to fire classification assigned to element Roof underlay with insulation ALUTHERMO ROOFREFLEX in accordance with the procedures given in EN 13501-1: 2007 + A1: 2009.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The element, Roof underlay with insulation ALUTHERMO ROOFREFLEX, is defined as underlay sheet for discontinuous roofing according to EN 13859-1: 2010.

2.2 PRODUCT DESCRIPTION

Specimens dimensions were (90 x 250) mm (width x length).

Composition of specimens (from the front face):

- Layer 1: High breathable membrane 131 g.m⁻²
Thermoplastic rubber based hotmelt 16 g.m⁻²
- Layer 2: Polyester fibre insulation material 630 g.m⁻²

Total mass per unit area declared by manufacturer: 780 g.m⁻².

Total mass per unit area measured by testing laboratory: 780 g.m⁻².

3. TEST REPORTS IN SUPPORT OF CLASSIFICATION

3.1 TEST REPORTS

No.	Name of laboratory	Name of sponsor	Test report No.	Date of the test	Test method
[1]	FIRES, s.r.o., Batizovce, SK	Aluthermo SA, Steinkelt, Galhausen 23, B-4780 Saint Vith, Belgium	FIRES-RF-070-17-AUNE	10. 11. 2017	EN ISO 11925-2: 2010 / AC: 2011

[1] Test specimens were conditioned according to EN 13238 before the reaction to fire tests.

3.2 TEST RESULTS

Test report number and test method	Characteristic value	Number of tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
[1] EN ISO 11925-2 surface of specimen* exposed to flame (exposure time 15 s)	$F_s \leq 150$ mm	18	(-)	compliant
flaming droplets/particles	ignition of the paper		(-)	non-compliant

* specimens main surface, bottom edge of main surface and bottom edge of the insulation thickness (specimen turned 90°) were exposed to flame. 9 specimens were cut in longitude direction, 9 specimens were cut in crosswise direction.



4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11.3 of EN 13501-1: 2007 + A1: 2009.

4.2 CLASSIFICATION

The product, Roof underlay with insulation ALUTHERMO ROOFREFLEX, in relation to its reaction to fire behaviour is classified:

E

The additional classification in relation to smoke production is:

-

The additional classification in relation to flaming droplets / particles is:

-

The format of the reaction to fire classification for construction products excluding floorings is:

Fire behaviour		Smoke production			Flaming droplets	
E	-	-	-	,	-	-

Reaction to fire classification: E

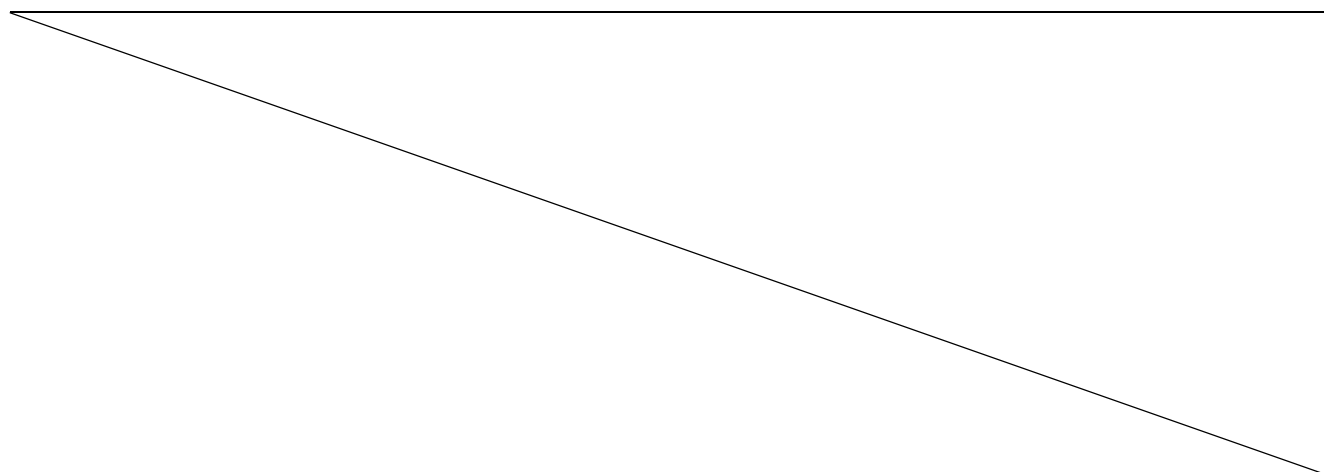
4.3 FIELD OF APPLICATION

This classification is valid for the following final use applications:

- underlay sheet with insulation with all substrates, mechanically fixed or free laid down.

This classification is also valid for the following product parameters:

Thickness	change in the thickness is allowed within production tolerances;
Product composition	change in the product composition is not allowed;
Area density	change in the area density is allowed within production tolerances;





5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

The classification is valid provided that the product, field of application and standards and regulations are not changed.

Approved:

A handwritten signature in blue ink, appearing to read 'Štefan Rástocký'.

Ing. Štefan Rástocký
leader of the testing laboratory



Signed:

A handwritten signature in blue ink, appearing to read 'Martin Král'.

Martin Král
technician of the testing laboratory