Classification report for roofs / roof coverings exposed to external fire

Issuing laboratory: Warringtonfire Testing and Certification Limited

Classification standards:	EN 13501-5: 2016
Report sponsor(s):	Novatik SRL
Product(s):	“Novatik Natura Slate Dark Moon”
Report number:	549625
Version:	1

Warringtonfire Testing and Certification Limited , accredited for compliance with ISO/IEC 17025:2017 – Testing

Quality management

Version	Date	Summary of amendments including reasons			
1	7 May 2025	Description	Initial issue		
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			*Signed for and on behalf of Warringtonfire Testing and Certification Limited		

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1. Introduction

This classification report defines the classification assigned to roof / roof covering “Novatik Natura Slate Dark Moon”, in accordance with the procedures given in EN 13501-5: 2016.

Warringtonfire Testing and Certification Limited (Warringtonfire) issued the classification report at the request of the report sponsor listed in Table 1.

Table 1 Sponsor details

Entity	Address
Sponsor	
Novatik SRL	Str. 9 Mai, Nr. 75, Or. Baicoi, Jud. Prahova, Romania

2. Details of classified product

2.1 General

The product, “Novatik Natura Slate Dark Moon” is defined as being suitable for roof / roof covering applications.

2.2 Product description

The roof/roof covering, “Novatik Natura Slate Dark Moon” is described in Table 2 and in the test reports listed in Section 3.1.

Table 2 Product description

Item	Detail
General description	Coated steel tiles over a vapour control layer and mineral wool insulation positioned on a wooden frame
Product reference of system	“Novatik Natura Slate Dark Moon”
Name of manufacturer of system	Novatik SRL
Overall thickness of system	190 mm (stated by sponsor) 177.67mm (determined by Warringtonfire)
Overall weight per unit area	23.52kg/m^2 (stated by sponsor) 23.72kg/m^2 (determined by Warringtonfire)
Composition details / configuration	Varnish coating Stone chips Resin coating Steel sheet Wooden battens Air and vapour control layer Timber frame Mineral wool Steel wires

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Item			Detail
Coated steel (Test face)	Generic type		Coated steel roof tiles
	Product reference		“Novatik NATURA Slate Dark Moon”
	Name of manufacturer		Novatik SRL
	Thickness		2.1mm
	Weight per unit area		5.66kg/m^2
	Varnish coat	Generic type	Acrylic varnish
		Product reference	“Acrylic Transparent Protection Varnish”
		Name of manufacturer	See Note 1 below
		Number of coats	1
		Application thickness (wet)	See Note 1 below
		Application rate (wet)	See Note 1 below
		Specific gravity	See Note 2 below
		Application method	Spray
		Curing process	Oven drying at 150°C for 60 minutes
		Colour	Transparent
		Flame retardant details	See Note 2 below
	Stone chips	Generic type	Stone chips
		Product reference	“Ceramized Coloured Basalt Stone Granules”
		Name of manufacturer	See Note 1 below
		Application thickness	2mm
		Weight per unit area	See Note 1 below
		Flame retardant details	See Note 2 below
	Resin coat	Generic type	Acrylic resin
		Product reference	“Acrylic Resin Mat”
		Name of manufacturer	See Note 1 below
		Number of coats	One
		Application thickness (wet)	See Note 1 below
		Application rate (wet)	See Note 1 below
		Specific gravity	See Note 2 below
		Application method	Spray
		Curing process	Oven drying at 150°C for 60 minutes
		Colour	Black
		Flame retardant details	See Note 2 below

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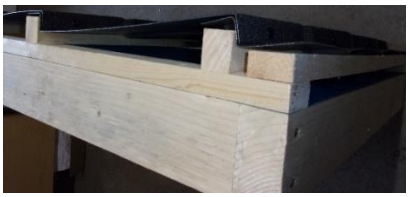
Item			Detail
Coated steel (Test face) continued	Steel sheet	Generic type	Steel
		Product reference	“DX51D + ZM250”
		Name of manufacturer	See Note 1 below
		Thickness	0.45mm
		Dimensions	840mm x 415mm (determined by Warringtonfire)
		Weight per unit area	3.737kg/m²
		Colour	Zinc
		Flame retardant details	See Note 2 below
		Steel preparation	Hot-dip galvanised with an anti corrosion zinc magnesium coating was applied at a rate of 250g/m²
	Details of joints		Type – T-joint with overlap Overlap – 60mm lateral and 40mm vertical
	Details of fixings		The panels are fixed to the wooden structure with self-tapping screws. Fixings are positioned 250mm apart laterally (determined by Warringtonfire).
Wooden battens		Generic type	Rectangular wooden battens
		Product reference	“Wooden Battens”
		Name of supplier	See Note 1 below
		Timber species	Fir
		Dimensions of lateral battens	42mm x 42mm (stated by sponsor) 3 x battens 840mm x 42mm x 42mm 1 x batten 840mm x 42mm x 25mm (at the bottom of the roof slope) (determined by Warringtonfire) 
		Dimensions of sloping battens	2 x 840mm x 50mm x 30mm (determined by Warringtonfire)
		Weight per unit length	0.71kg per linear metre
		Flame retardant details	See Note 2 below
		Details of fixings	The battens are fixed with wood screws, threaded, 5mm x 100 mm. The lateral battens are each fixed with 2 screws 800mm apart (determined by Warringtonfire). The sloping battens are each fixed with 2 screws 600mm apart (determined by Warringtonfire).

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Item		Detail
Air and vapour control layer	Generic type	Anti-condensation membrane
	Product reference	“Novatik 140”
	Name of manufacturer	See Note 1 below
	Thickness	1mm
	Weight per unit area	14g/m^2
	Density	140kg/m^3
	Air space between AVCL and coated steel layer	40mm – 75mm (determined by Warringtonfire) (Variation due to sloping steel tiles)
	Colour	Blue
	Flame retardant details	See Note 2 below
	Details of joints	Type – lap joint Overlap – 100mm
	Details of fixings	The membrane is fastened to the wooden structure with metal staples.
Timber frame	Generic type	Rectangular wooden rafters
	Product reference	“Wooden Rafter”
	Name of supplier	See Note 1 below
	Timber species	Fir
	Dimensions	92mm x 45mm (stated by sponsor) 2 x 840mm x 100mm x 45mm 2 x 745mm x 100mm x 45mm (determined by Warringtonfire)
	Density	470kg/m^3
	Flame retardant details	See Note 2 below
	Details of fixings	2 x pairs of cross head screws used per 840mm rafter. Screws spaced 50mm apart vertically and 785mm apart from the next screw pair (determined by Warringtonfire).
Air and vapour control layer	Generic type	Anti-condensation membrane
	Product reference	“Novatik 140”
	Name of manufacturer	See Note 1 below
	Thickness	1mm
	Weight per unit area	14g/m^2
	Density	140kg/m^3
	Air space between AVCL and coated steel layer	40mm – 75mm (determined by Warringtonfire) (Variation due to sloping steel tiles)
	Colour	Blue
	Flame retardant details	See Note 2 below
	Details of joints	Type – lap joint Overlap – 100mm
	Details of fixings	The membrane is fastened to the wooden structure with metal staples.

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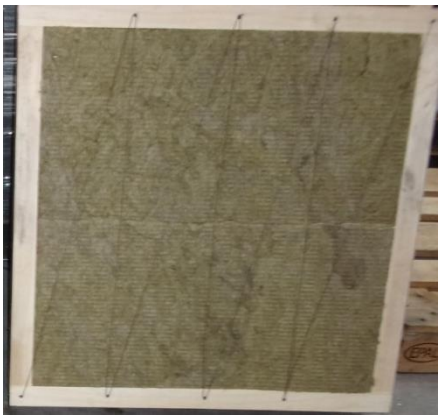
Item		Detail
Mineral wool (between rafters)	Generic type	Basalt Mineral Wool
	Product reference	See Note 1 below
	Name of manufacturer	See Note 1 below
	Colour reference	“Natur”
	Colour	Green
	Thickness	100mm
	Weight per unit area	2.89kg/m^2
	Density	28.9kg/m^3
	Resin details	See Note 2 below
	Oil details	See Note 2 below
	Flame retardant details	See Note 2 below
	Details of joints	Type – Butt joint
Steel support wires	Generic type	Low carbon steel wire
	Product reference	“Metal Wire”
	Name of manufacturer	See Note 2 below
	Diameter	1mm
	Weight per unit length	19g/m
	Colour	Dark grey (observed by Warringtonfire)
	Flame retardant details	See Note 2 below
	Details of fixings	The wires are fixed with nails to hold the mineral wool in place. The nails are spaced 200mm apart on the underside of the 840mm rafters (determined by Warringtonfire). 
Brief description of manufacturing process		After the mineral wool is installed between the rafters, it is covered with an anti-condensation membrane, which is fastened with staples. Over the vertical batten fixed in line with the rafters, the horizontal batten is secured with screws. The panels overlap in order and are fixed to the horizontal batten

Note 1: The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

Note 2: The sponsor was unable to provide this information.

3. Test reports and test results in support of classification

3.1 Test reports

Table 3 details the test reports that have been used in support of classification.

Table 3 Test reports

Name of laboratory	Name of sponsor(s)	Test report no.	Test date	Test and extended application standard
Warringtonfire	Novatik SRL	549540	5 February 2025, 6 February 2025, 11 February 2025	CEN/TS 1187: 2012

3.2 Test results

3.2.1 Official test results used for the classification

Table 4 details the test results that have been used in support of classification. The fire performance parameters for class B_{ROOF}(t4) can be found in Table 6.

Table 4 Test data

Test pitch: 45°

Supporting structure: Timber frame and battens with air control layer, mineral wool and support wires

Test method Report number	Parameter	Number of tests	Results		Compliant?
CEN/TS 1187: 2012: T4 – Preliminary test 549540	Burn time (min:sec)	1	Nil		Yes
	Flame spread distance (mm)		20		Yes
	Penetration time (min:sec)		Did not penetrate		Yes
CEN/TS 1187: 2012: T4 – Penetration test 549540	Penetration time (min:sec)	3	Specimen 1:	Did not penetrate	-
			Specimen 2:	Did not penetrate	-
			Specimen 3:	Did not penetrate	-
			Mean:	N/A	Yes

Note: '-' symbol confirms this parameter is not applicable.

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5: 2016.

4.2 Classification

The roof / roof covering “Novatik Natura Slate Dark Moon” in relation to its external fire performance is classified as:

$$B_{ROOF}(t4)$$

4.3 Field of application

The classification for the product described in Section 2.2 of this report is valid the following conditions:

Direct Field of application

End use	Description	Origin
Roof pitch	10º < pitch ≤ 70º	Table B.4 of EN 13501-5: 2016
Supporting framework	As tested: 3No. 840mm x 42mm x 42mm sloping timber battens 1No. 840mm x 42mm x 25mm (at the bottom of the roof slope) sloping timber battens 2No.840mm x 50mm x 30mm lateral timber batten Density: 470kg/m^3 The above battens are attached to a timber frame comprising 2No.840mm x 100mm x 45mm timber sections 2No. 745mm x 100mm x 45mm timber sections Density: 470kg/m^3	Table B.4 of EN 13501-5: 2016
Supporting insulation	1mm thick air and vapour control layer, weight per unit area 14g/m^2, density 140kg/m^3 Over 100mm thick mineral wool, weight per unit area 2.89kg/m^2 , density 28.9kg/m^3 With 1mm diameter low carbon steel support wires, weight per unit length 19g/m on the reverse	Table B.4 of EN 13501-5: 2016

Layer 1 – Coated steel tile "Novatik NATURA Slate Dark Moon"

End use	Description	Origin
Generic type and product reference	Coated steel roof tile comprising: - Acrylic varnish coat - 2mm thick basalt stone granules - Acrylic resin cot	N/A
Overall thickness	2.1mm – no variation allowed	N/A
Overall weight per unit area	5.66kg/m^2 – no variation allowed	N/A
Use of flame retardants	No variation allowed	N/A
Construction	No variation allowed	N/A
Composition	No variation allowed	N/A

4.4 Fire performance parameters for B_{ROOF} (t4)

All the products described in Section 2.2 and within the field of application defined in Section 0 comply with the fire performance parameters shown in Table 6. The test results can be found in Section 3.2.

Table 6 Fire performance parameters for B_{ROOF} (t4)

Test method	Parameter	Classification Criteria
Stage 1 - Preliminary test	Burn time	< 5 min
	Flame spread	< 0.38 m
	Penetration	No penetration
Stage 2 - Penetration test	Penetration	≥ 60 min

5. Restrictions

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

When this report is used to support UKCA marking under the Construction Products Regulation 2011 (retained EU law EUR 2011/305) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 and/or 'CE+UK(NI)' marking for Northern Ireland under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011, the provisions of those regulations prevail over any conflicting provisions in the designated/harmonised standards and technical specifications.

6. Limitations

According to the information mentioned by the sponsor on the technical information sheet there was no harmonised product standard for UKCA or CE+UK(NI) marking available at the time the classification report for the tested material/product was drafted. When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for UKCA or CE+UK(NI) marking.

The test laboratory played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide evidence for the traceability of the samples tested.

7. Validity

This document is the original version of this classification report and is written in English. In case of doubt the original version prevails over a translation.

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The classification results relate to the behaviour of a product under the particular conditions of the test(s); they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use, nor can the classification results be extrapolated and applied to other products, or imply suitability for use in configurations not specifically detailed in the classification report. The classification is based on the information available to Warringtonfire at the time of the report. Should conflicting or contradictory evidence become available, Warringtonfire reserves the right to unconditionally withdraw the classification report forthwith upon giving written notice of the same.

Reports are statements of fact prepared in accordance with the referenced version of the standards stated in Section 3 of this report. Test, classification and extended application are based upon the information provided to Warringtonfire. Warringtonfire takes no responsibility for the accuracy or completeness of such information.

The results stated in this classification report apply to the test specimens as received and/or specified in the referenced/supporting test reports. Any differences in composition, production process, thickness, density or colour of the product may significantly affect the performance and will therefore invalidate the application of the test and classification results to the variant product. It is recommended that any proposed variation to the tested configuration or product should be referred to the sponsor. The sponsor should then obtain appropriate documentary evidence of compliance from Warringtonfire or another accredited testing authority. The supplier of the product is responsible for ensuring that the product which is supplied for use is identical to the test specimens that were tested.

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