BRE Global
Bucknalls Lane
Watford, Herts
WD25 9XX

+44 (0)333 321 8811

enquiries@bregroup.com
bregroup.com

CLASSIFICATION REPORT

Classification report for roofs/roof coverings exposed to external fire (sloping) in accordance with BS EN 13501-5: 2016 on Novatik Metal Slate Mat (RAL 9005) with 100mm Mineral Wool insulation.

Prepared for: Novatik SRL
Date: 11.07.2025
Report number: P129528-1005
Issue: 1
Status: Final - Commercial in Confidence
Test Date: 06.05.2025

Prepared for:

Novatik SRL

Str. 9 Mai, Nr. 75

Or. Baicoi

Jud. Prahova

Romania

Prepared by:

Name	Phillip Potter
Position	Senior Technician
Date	11 July 2025
Signature	

Authorised by:

Name	John Hunter
Position	Section Leader – Reaction to Fire
Date	11 July 2025
Signature	

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EXTERNAL EXPOSURE TO FIRE CLASSIFICATION (sloping) REPORT OF

Novatik Metal Slate Mat (RAL 9005) with 100mm Mineral Wool insulation

Classification report No.:	P129528-1005
Issue number:	1
Sponsor:	Novatik SRL
Product name:	Novatik Metal Slate Mat (RAL 9005)
Prepared by:	BRE Global Ltd., Bucknalls Lane, Garston, Watford, WD25 9XX, England.
Approved Body Number	0832
Date of issue:	11 July 2025

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1. Introduction

This classification report defines the classification (sloping) assigned to roof/roof covering Novatik Metal Slate Mat (RAL 9005) with 100mm Mineral Wool insulation, in accordance with the procedures given in BS EN 13501-5: 2016.

2. Sample

2.1 Traceability

The test samples were supplied by the client. BRE Global were not involved in the sample selection process and therefore cannot comment upon the relationship between samples supplied for test and the product supplied to market. The results apply to the sample as received.

2.2 Description of the roof/roof covering

Unless otherwise stated all measurements are nominal.

Test Sponsor	Novatik SRL, Str. 9 Mai, Nr. 75, Or, Baicoi, Jud. Prahova, Romania
Manufacturer of sample	Novatik SRL, Str. 9 Mai, Nr. 75, Or, Baicoi, Jud. Prahova, Romania
Sample name/reference	Novatik Metal Slate Mat (RAL 9005)
Place of manufacture	Or, Baicoi, Jud. Prahova, Romania
Sample description (as provided by test sponsor/manufacturer)	Pre-painted metal tiles on a wooden frame with mineral wool insulation A full definition of the product tested, as supplied by the test sponsor is included in Appendix A.
Description of sample (as received by BRE Global)	1. Dark grey coated metal overlapping tiles with red/orange granules (410mm X 410mm & 840mm X 410mm) with 1.02mm thickness fixed to a wooden panel with screws. 2. Rectangular wooden frame with a top layer of blue waterproofing material 1.0mm thick secured to structure with screws 3. Green mineral wool of 100mm thickness housed in the wooden frame interior directly underneath waterproofing layer. 4. Grey metal wire at bottom of structure to secure mineral wool into wooden frame interior. Photographs of the sample are included in Appendix B.

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Measured sample data, determined by BRE Global @ 23 °C ± 2 °C and 50 % ± 5 % RH	
Mean sample density (kg/m³)	115.2
Mean sample thickness (mm)	167.5
Mean sample mass per unit area (kg/m²)	19.3
Sample receipt date	23 January 2025
Test face	Dark grey metal overlapping slopped tiles
Test format	The test was carried out in the sloping (45°) position
Date of test	06 May 2025
Test operator	P Potter

3. Reports in support of classification

Name of Laboratory	Name of sponsor	Test report ref. no.	Test method
BRE Global	Novatik SRL	P129528-1005	CEN/TS 1187: 2012 Test 4

4. Test results in support of classification

4.1 Test conditions

Test pitch: Sloping

Deck: As product description, Section 2

Supporting structure: As product description, Section 2

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4.2 Preliminary test (Stage 1)

Parameter	Criteria				Test result	Compliance			
	Class $B_{ROOF}(t4)$	Class $C_{ROOF}(t4)$	Class $D_{ROOF}(t4)$	Class $E_{ROOF}(t4)$		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	0:00 min:sec	Y	-	-	-
Flame spread distance	< 0,38m	< 0,38m	< 0,38m	No limit	0 mm	Y	-	-	-
Penetration	None	None	None	None	None	Y	-	-	-

4.3 Penetration test (Stage 2)

Parameter	Criteria				Test results				Compliance			
	Class $B_{ROOF}(t4)$	Class $C_{ROOF}(t4)$	Class $D_{ROOF}(t4)$	Class $E_{ROOF}(t4)$	Specimen 1	Specimen 2	Specimen 3	Mean*	Class $B_{ROOF}(t4)$	Class $C_{ROOF}(t4)$	Class $D_{ROOF}(t4)$	Class $E_{ROOF}(t4)$
Penetration time	≥ 60 min	< 60 min ≥ 30 min	<30 min	< 30 min	≥ 60 min	≥ 60 min	≥ 60 min	≥ 60 min	Y	-	-	-
* 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												

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5. Classification and field of application

5.1 Reference of classification

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

5.2 Classification

The roof / roof covering Novatik Metal Slate Mat (RAL 9005) with 100mm Mineral Wool insulation, as described in Section 2 above and Appendix A, in relation to its external fire performance is classified:

$B_{ROOF}(t4)$

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

5.3 Field of application

This classification is valid for the following conditions:

Range of pitches	10° < pitch ≤ 70°
Substrate / deck	No deck. As tested, no variation allowed
Supporting structure	As tested, no variation allowed
Product configuration	As tested, no variation allowed
Product composition	As tested, no variation allowed
Product application method	As tested, no variation allowed
Product thickness	As tested, no variation allowed
Product colour	As tested, no variation allowed
Joints	As tested, no variation allowed

6. Limitations

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

The information in section 2.2 and Appendix A of this report, other than that indicated otherwise, has been supplied by the test sponsor and has not been independently verified by BRE Global. The validity of the results is conditional on the accuracy of that data.

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7. References

1 BS EN 13501-5: 2016 Fire classification of construction products and building elements – Part 5: Classification using data from external fire exposure to roofs tests. BSI, London. 2016

2 CEN/TS 1187: 2012 Test methods for external fire exposure to roofs. Test 4 – Two stage method incorporating burning brands, wind and supplementary radiant heat. BSI, London. 2012

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Appendix A – Product definition provided by the test sponsor

Product Definition

Test sponsor (Company name and address): Novatik SRL Str. 9 Mai, Nr. 75, Or. Baicoi, Jud. Prahova, Romania	
Product name of roof covering tested	Novatik METAL Slate
Product reference/number	Novatik Metal Slate Mat (RAL 9005)
General description of roofing product tested and build up	Prepainted metal tiles on a wooden frame with mineral wool insulation
Manufacturer of the roofing product (Company name and address)	Novatik SRL Str. 9 Mai, Nr. 75, Or. Baicoi, Jud. Prahova, Romania
Place of manufacture	Or. Baicoi, Jud. Prahova, Romania
Test specimens assembled by (if not by roof product manufacturer)	Assembled by roof product manufacturer
Thickness (overall depth of roof structure tested)	Aprox 180 mm
Mass per unit area (overall value for the roof structure tested)	22 kg
Fire retardant treatment added, or organic content limited during production (yes/no), if yes give details	NO
Harmonised EN product standard, and AVCP System No. if applicable	NO
Test face (Layer 1) - Name/reference - Manufacturer - Type - Thickness - Colour	- Organic coating - Note 2 - Polyester - 35 microns - Black (RAL 3009)
Layer 2 - Name/reference - Manufacturer - Type - Thickness - Mass per unit area	- hot-dip galvanised steel strip - Note 2 - steel + anti-corrosion protection - aprox 0.5 mm - Aprox 4610 g/m2
Layer 3 - Name/reference - Manufacturer - Type - Thickness - Colour	- Organic coating - Note 2 - Polyester - 7 microns - White
Details of joints	The panels are joined by overlapping.
Details of fixings	The panels are fixed to the wooden structure with self-tapping screws.

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Test sponsor (Company name and address): Novatik SRL Str. 9 Mai, Nr. 75, Or. Baicoi, Jud. Prahova, Romania		
Product name of roof covering tested		Novatik METAL Slate
Timber frame 1	- Generic type - Product reference - Name of supplier - Timber species - Dimensions - Weight per unit area or density - Details of fixings	- Rectangular wooden battens - wooden battens - Note 2 - Fir - 42mm x 42mm - 470 kg/m^3 - The battens are fixed with wood screws, threaded, 5 x 100 mm
Air and vapour control layer	- Generic type - Product reference - Name of supplier/ manufacturer - Thickness - Weight per unit area or density - Colour - Details of joints - Details of fixings	- Anti-condensation membrane - “Novatik 140” - Note 2 - Approx. 1 mm - 140 g/m2 - Blue - The membrane is joined by overlapping. - The membrane is fastened to the wooden structure with metal staples.
Mineral wool	- Generic type - Product reference - Name of manufacturer - Colour reference - Colour - Thickness - Weight per unit area or density - Details of joints	- Basalt Mineral Wool - Note 2 - Note 2 - Natur - Green - 100 mm - 2.89 kg/m2 - Mineral wool is joined by butting together.
Timber frame 2	- Generic type - Product reference - Name of manufacturer / supplier -Timber species - Dimensions - Weight per unit area or density	- Rectangular wooden rafters - Wooden rafter - Note 2 - Fir - 92mm x 45mm - 470 kg/m3
Metal support wires	- Generic type - Product reference - Thickness / diameter - Density / weight per unit length - Colour - Details of fixings	- Metal wire - Metal wire. - 1mm - 19 g/m - Grey - It is fixed with nails to hold the mineral wool in place

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Test sponsor (Company name and address): Novatik SRL Str. 9 Mai, Nr. 75, Or. Baicoi, Jud. Prahova, Romania	
Product name of roof covering tested	Novatik METAL Slate
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: This information was not provided by the test sponsor.

Note 2: At the request of the test sponsor this commercially sensitive information which forms part of the definition of the product tested/classified has been withheld from the report and is held on a confidential client file by BRE Global.

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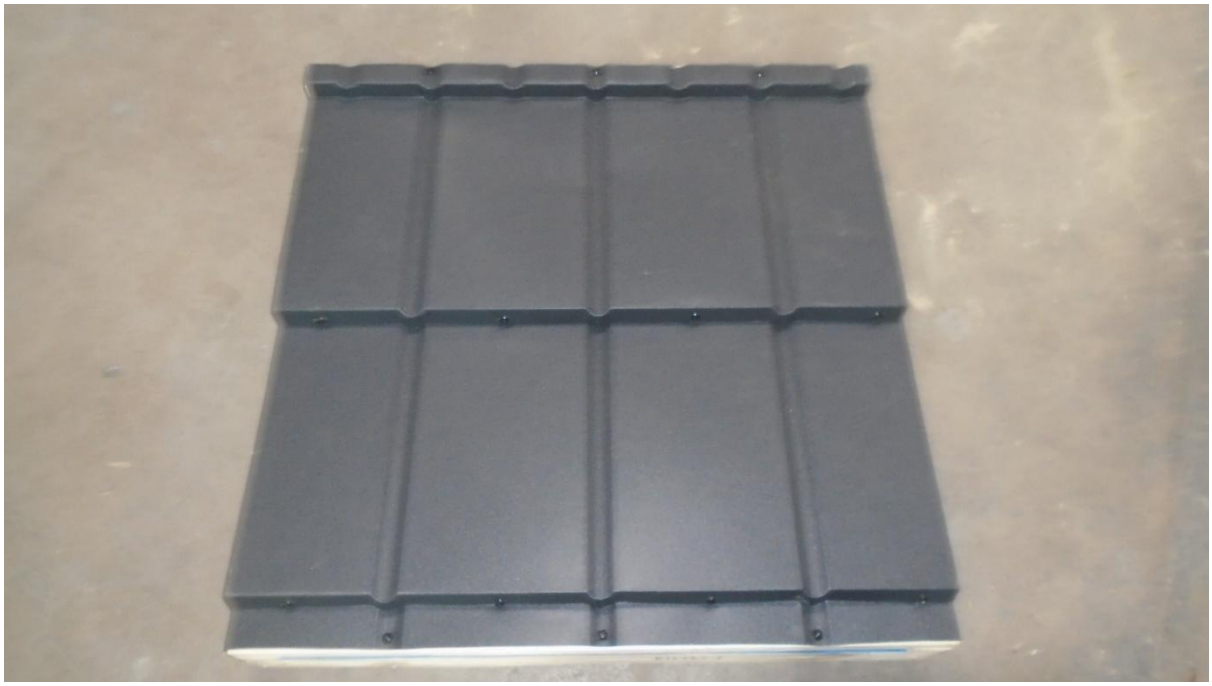
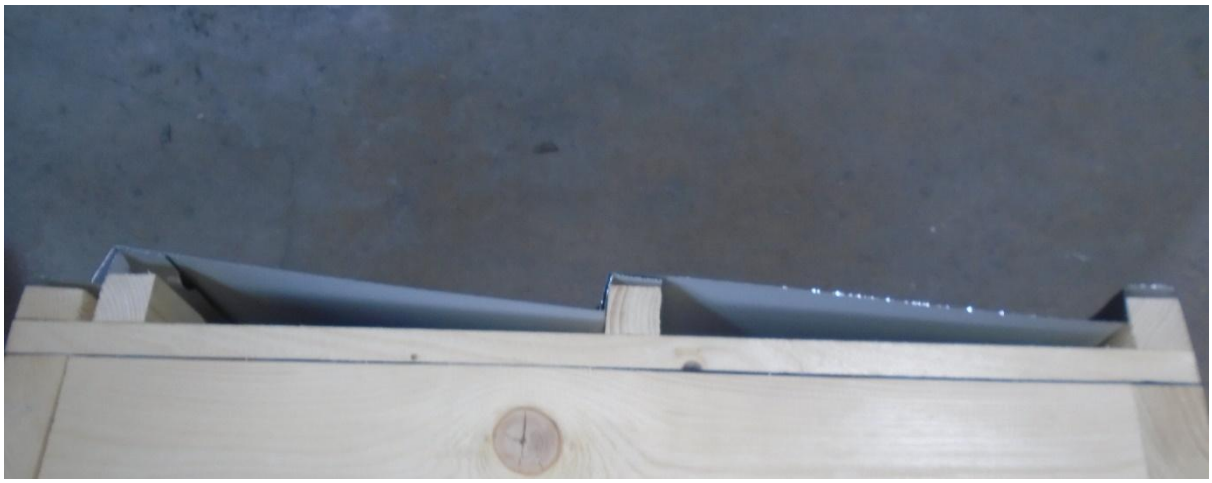
Appendix B – Photographs of the test specimens



Test Face



Report Ends

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