

External fire exposure to roofs extended application report

Issuing laboratory: Warringtonfire Testing and
Certification Limited

Extended applicationCEN/TS 16459: 2019
standards: EN 15725: 2023

Sponsor(s): RENOLIT UK Ltd

Product(s): “RENOLIT ALKORPLAN F CLASSIC/COLOUR” or
“RENOLIT ALKORPLAN F BRIGHT”

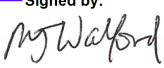
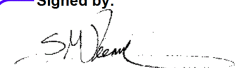
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Warringtonfire Testing and Certification Limited , accredited for compliance with ISO/IEC 17025:2017 – Testing



Quality management

Version	Date	Summary of amendments including reasons		
1	2 March 2026	Description	Initial issue	
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1. Introduction

This report extends the field of application of the test results obtained for a family of products. Extended application enables the prediction of fire performance on the basis of one or more test results to the same test standards and enables the classification of product ranges and product families.

This extended application report concerns test results obtained in accordance with test methods CEN/TS 1187: 2012: Test 4.

The extended application process is carried out in conformity with the following extended application standards:

1. CEN/TS 16459: 2019: External fire exposure of roofs and roof coverings – Extended application of test results from CEN/TS 1187.
2. EN 15725: 2023: Extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports.

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

Table 1 Sponsor details

Entity	Address
Sponsor	
RENOLIT UK Ltd	Station Road, Cramlington, Northumberland, NE23 8AQ, United Kingdom

2. Details of product

2.1 General

The nature of the product is defined as follows:

Intended application: Roof / roof covering

End use application: Roof / roof covering

2.2 Product description

The product, "RENOLIT ALKORPLAN F CLASSIC/COLOUR" or "RENOLIT ALKORPLAN F BRIGHT", is described in Table 2 and in the test reports listed in Section 3.1.

Table 2 Product description

Item		Detail
General description		Single ply membrane fixed through coated mineral fleece faced wool insulation and vapour control layer to an oriented strand board deck
Product reference		"RENOLIT ALKORPLAN F CLASSIC/COLOUR" or "RENOLIT ALKORPLAN F BRIGHT"
Name of manufacturer		RENOLIT Ibérica SA
Overall thickness		79.33 to 581.67mm (determined by Warringtonfire)
Overall weight per unit area		23.49 to 99.36kg/m ² (determined by Warringtonfire)
PVC membrane (Option 1)	Generic type	Membrane made of flexible polyvinyl chloride (PVC) with a polyester reinforcement
	Product reference	"RENOLIT ALKORPLAN F CLASSIC/COLOUR"
	Name of manufacturer	RENOLIT Ibérica SA
	Thickness	1.5mm
	Weight per unit area	1.85kg/m ²
	PVC	Generic type
		Product reference
		Name of manufacturer
		Colour reference
		Colour
		Thickness
		Weight per unit area
		Flame retardant details
		Flexible polyvinyl chloride (PVC)
		See Note 1 below
		RENOLIT Ibérica SA
		"79851"
		Grey (Charcoal)
		See Note 1 below
		1.757kg/m ²
		See Note 1 below

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Item		Detail	
PVC membrane (Option 1) (Continued)	Reinforcement (Embedded into PVC layer)	Generic type	Polyester reinforcement
		Product reference	See Note 1 below
		Name of manufacturer	See Note 1 below
		Colour	See Note 1 below
		Thickness	See Note 1 below
		Weight per unit area	93g/m ²
		Flame retardant details	See Note 1 below
	Joint details		Type - T-joint Overlap – 100mm side lap hot air welded
	Photograph of joint (Sample from 552815)		
	Generic type of fixings		4 x carbon steel fastener with sleeve held in place with screws through to the deck
	Description of fixings		Used to fix the membrane through the insulation to the deck, positioned in a row under the lap in the membrane.
	Dimensions of fixings		35mm tube – 70mm fastener
	Distance between fixing points		Approx 250mm
	Product standard		In accordance with EN 13956: 2012

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Item		Detail
PVC membrane (Option 2)	Generic type	Membrane made of flexible polyvinyl chloride (PVC) with a polyester reinforcement
	Product reference	"RENOLIT ALKORPLAN F CLASSIC/COLOUR"
	Name of manufacturer	RENOLIT Ibérica SA
	Thickness	2.0mm
	Weight per unit area	2.50kg/m ²
	PVC	Generic type
		Product reference
		Name of manufacturer
		Colour reference
		Colour
		Thickness
		Weight per unit area
		Flame retardant details
	Reinforcement (Embedded into PVC layer)	Generic type
		Product reference
		Name of manufacturer
		Colour
		Thickness
		Weight per unit area
		Flame retardant details

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Item		Detail
PVC membrane (Option 2) (Continued)	Joint details	Type - T-joint Overlap – 100mm side lap hot air welded
	Photograph of joint	
	Generic type of fixings	4 x carbon steel fastener with sleeve held in place with screws through to the deck
	Description of fixings	Used to fix the membrane through the insulation to the deck, positioned in a row under the lap in the membrane.
	Dimensions of fixings	35mm tube – 70mm fastener
	Distance between fixing points	Approx 250mm
	Product standard	In accordance with EN 13956: 2012

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Item		Detail
PVC membrane (Option 3)	Generic type	Membrane made of flexible polyvinyl chloride (PVC) with a polyester reinforcement
	Product reference	"RENOLIT ALKORPLAN F BRIGHT"
	Name of manufacturer	RENOLIT Ibérica SA
	Thickness	1.5mm
	Weight per unit area	1.85kg/m ²
	PVC	Generic type
		Product reference
		Name of manufacturer
		Colour reference
		Colour
		Thickness
		Weight per unit area
		Flame retardant details
	Reinforcement (Embedded into PVC layer)	Generic type
		Product reference
		Name of manufacturer
		Colour
		Thickness
		Weight per unit area
		Flame retardant details

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Item	Detail	
PVC membrane (Option 3) (Continued)	Joint details	Type - T-joint Overlap – 100mm side lap hot air welded
	Photograph of joint (Photo of 551613)	
	Generic type of fixings	4 x carbon steel fastener with sleeve held in place with screws through to the deck
	Description of fixings	Used to fix the membrane through the insulation to the deck, positioned in a row under the lap in the membrane.
	Dimensions of fixings	35mm tube – 70mm fastener
	Distance between fixing points	Approx 250mm
	Product standard	In accordance with EN 13956: 2012

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Item		Detail
Insulation	Generic type	Stone wool insulation board faced with a mineral coated white fleece upper surface
	Product reference	"ROCKWOOL Hardrock Multi-Fix DD"
	Name of manufacturer	ROCKWOOL Ltd
	Number of layers (as tested)	1 x 60mm, 3 x 60mm, 4 x 60mm, 1 x 185mm, 3 x 185mm
	Thickness per layer	Between 60 and 185mm
	Density	160kg/m ³
	Mineral coating	Generic type
		Product reference
		Name of manufacturer
		Colour
		Thickness
		Weight per unit area
		Flame retardant details
	Fleece	Generic type
		Product reference
		Name of manufacturer
		Colour
		Thickness
		Weight per unit area
		Flame retardant details
	Stone wool	Generic type
		Product reference
		Name of manufacturer
		Colour
		Thickness (as tested)
		Overall density
		Flame retardant details

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Item		Detail
Insulation (Continued)	Joint details	Type – Butt joint
	Generic type of fixings	4 x carbon steel fastener with sleeve held in place with screws through to the deck
	Description of fixings	Used to to fix the insulation to the deck, with 1 fixing located in each quarter of the specimen.
	Dimensions of fixings	35mm tube – 70mm fastener
	Distance between fixing points	350mm (determined by Warringtonfire)
VCL	Generic type	Low density polyethylene vapour control layer
	Product reference	“RENOLIT ALKORPLUS 81012”
	Name of manufacturer	See Note 3 below
	Thickness	0.25mm
	Weight per unit area	218g/m ²
	Colour	Blue
	Flame retardant details	See Note 4 below
	Joint details	Type - lap joint Overlap – 90 ± 10mm
OSB deck	Generic type	Oriented strand board
	Product reference	“OSB/3”
	Name of supplier	Jewson
	Thickness	18mm
	Density	680kg/m ³
	Flame retardant details	See Note 2 below
Brief description of manufacturing process		Mechanically fixed hot air welded waterproofing roof membrane, mechanical fixed insulation, loose laid VCL on 18mm OSB/3 structural deck

Note 1: The sponsor was unwilling to provide this information.

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

Note 3: 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 4: The sponsor of the test has confirmed that no flame-retardant additives were utilised in the production of the component.

3. Test reports and test results in support of this extended application

3.1 Test reports

Table 3 details the test reports that have been used in support of this extended application.

Table 3 Test reports

Name of laboratory	Name of sponsor(s)	Test report no.	Test date	Test standard
Warringtonfire Testing and Certification Limited	RENOLIT UK Ltd	552815	30 July 2025 & 29 September 2025	CEN/TS 1187: 2012: Test 4
Warringtonfire Testing and Certification Limited	RENOLIT UK Ltd	551611	12 May 2025	CEN/TS 1187: 2012: Test 4
Warringtonfire Testing and Certification Limited	RENOLIT UK Ltd	551612	14 May 2025	CEN/TS 1187: 2012: Test 4
Warringtonfire Testing and Certification Limited	RENOLIT UK Ltd	551613	15 May 2025	CEN/TS 1187: 2012: Test 4
Warringtonfire Testing and Certification Limited	RENOLIT UK Ltd	552814	30 July 2025	CEN/TS 1187: 2012: Test 4
Warringtonfire Testing and Certification Limited	RENOLIT UK Ltd	552816	10 July 2025	CEN/TS 1187: 2012: Test 4
Warringtonfire Testing and Certification Limited	RENOLIT UK Ltd	552817	15 July 2025	CEN/TS 1187: 2012: Test 4

Deviations from the test standard, if any: For test report 551611, 551612, 551613, 551614, 552816 and 552817 (indicative test report), one specimen of the system build-up under investigation was tested instead of three for the penetration testing.

3.2 Test samples

Table 4 details the sampling and conditioning details associated with each test that has been used in support of extended application.

Table 4 Sampling and conditioning details

Test report no.	Sampling procedure: Assessment and Verification of Constancy of Performance (AVCP)	Conditioning according to EN 13238: 2010	Number of specimens tested
552815	No product standard	Constant mass	4
551611	No product standard	Constant mass	2
551612	No product standard	Constant mass	2
551613	No product standard	Constant mass	2
552814	No product standard	Constant mass	2
552816	No product standard	Constant mass	2
552817	No product standard	Constant mass	2

3.3 Test results

3.3.1 Official test results used for the extended application

Table 5 details the test results that have been used in support of extended application. The fire performance parameters for the envisaged classification can be found in Table 7.

Table 5 Test data

Test pitch: 0°

Deck: Oriented strand board, 18mm thickness, 680kg/m³

Test method Report number	Parameter	Number of tests	Results		Compliant?
CEN/TS 1187: 2012: T4 – Preliminary test 552815 (3 x 60mm with Option 1 facing)	Burn time (min:sec)	1	0:00		Yes
	Flame spread distance (mm)		44		Yes
	Penetration time (min:sec)		Did not penetrate		Yes
CEN/TS 1187: 2012: T4 – Penetration test 552815 (3 x 60mm with Option 1 facing)	Penetration time (min:sec)	3	Specimen 1:	Did not penetrate	-
			Specimen 2:	Did not penetrate	-
			Specimen 3:	Did not penetrate	-
			Mean:	Did not penetrate	Yes

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

3.3.2 Comparative test results used for worst case determinations

Table 6 details the test data that has been used to determine the worst case for each product parameter.

Table 6 Test data

Test method Report number	Parameter	Number of tests	Results
CEN/TS 1187: 2012: T4 – Preliminary test 552815* (3 x 60mm with Option 1 facing)	Burn time (min:sec)	1	0:00
	Flame spread distance (mm)		44
	Penetration time (min:sec)		Did not penetrate
CEN/TS 1187: 2012: T4 – Penetration test 552815* (3 x 60mm with Option 1 facing)	Penetration time (min:sec)	1	Did not penetrate
	Measured damage depth (mm)	-	100
CEN/TS 1187: 2012: T4 – Preliminary test 551611 (1 x 60mm with Option 2 facing)	Burn time (min:sec)	1	0:00
	Flame spread distance (mm)		40
	Penetration time (min:sec)		Did not penetrate
CEN/TS 1187: 2012: T4 – Penetration test 551611 (1 x 60mm with Option 2 facing)	Penetration time (min:sec)	1	Did not penetrate
	Measured damage depth (mm)	-	3
CEN/TS 1187: 2012: T4 – Preliminary test 551612 (1 x 60mm with Option 1 facing)	Burn time (min:sec)	1	0:00
	Flame spread distance (mm)		73
	Penetration time (min:sec)		Did not penetrate
CEN/TS 1187: 2012: T4 – Penetration test 551612 (1 x 60mm with Option 1 facing)	Penetration time (min:sec)	1	Did not penetrate
	Measured damage depth (mm)	-	3

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Test method Report number	Parameter	Number of tests	Results
CEN/TS 1187: 2012: T4 – Preliminary test 551613 (1 x 60mm with Option 3 facing)	Burn time (min:sec)	1	0:01
	Flame spread distance (mm)		40
	Penetration time (min:sec)		Did not penetrate
CEN/TS 1187: 2012: T4 – Penetration test 551613 (1 x 60mm with Option 3 facing)	Penetration time (min:sec)	1	Did not penetrate
	Measured damage depth (mm)	-	2
CEN/TS 1187: 2012: T4 – Preliminary test 552814 (4 x 60mm with Option 1 facing)	Burn time (min:sec)	1	0:00
	Flame spread distance (mm)		50
	Penetration time (min:sec)		Did not penetrate
CEN/TS 1187: 2012: T4 – Penetration test 552814 (4 x 60mm with Option 1 facing)	Penetration time (min:sec)	1	Did not penetrate
	Measured damage depth (mm)	-	40
CEN/TS 1187: 2012: T4 – Preliminary test 552816 (1 x 185mm with Option 1 facing)	Burn time (min:sec)	1	0:01
	Flame spread distance (mm)		50
	Penetration time (min:sec)		Did not penetrate
CEN/TS 1187: 2012: T4 – Penetration test 552816 (1 x 185mm with Option 1 facing)	Penetration time (min:sec)	1	Did not penetrate
	Measured damage depth (mm)	-	75
CEN/TS 1187: 2012: T4 – Preliminary test 552817 (3 x 185mm with Option 1 facing)	Burn time (min:sec)	1	0:00
	Flame spread distance (mm)		35
	Penetration time (min:sec)		Did not penetrate
CEN/TS 1187: 2012: T4 – Penetration test 552817 (3 x 185mm with Option 1 facing)	Penetration time (min:sec)	1	Did not penetrate
	Measured damage depth (mm)	-	90
(*) The results of these two samples were re-used in the official test report No. 552815 (One as the sample for the preliminary test and one as test specimen 1 of the penetration test).			

4. Extended application

4.1 Principles applied for the extension of the field of application

This extended application procedure is based on:

4.1.1 Method 1

By use of additional test results which, together with the initial test result, enables consideration of a larger range of one or several product parameters and end use application parameters.

4.1.2 Method 3

By use of historical data and other relevant information, e.g. data from previous tests.

Note: Extended application rules are used to develop worst case 'build ups'. Standard 'build ups' are identified in the relevant product standard taking into account worst case 'build ups', e.g. where no specific test information is available, indicative testing is used to establish the worst case scenario.

4.2 Procedure

4.2.1 Method 1

4.2.1.1 CEN/TS 1187: 2012: Test 4

To evaluate the product parameter, insulation thickness (60mm to 555mm made up of individual sheets of thickness 60mm to 185mm) and number of layers (one layer to four layers), tests were performed according to CEN/TS 1187: 2012: Test 4 on thinnest and thickest single sheet insulation at one layer and maximum number of layers at thinnest and thickest single sheet insulation thickness as well as for option 1 facing at 1.5mm thick "RENOLIT ALKORPLAN F CLASSIC/COLOUR", option 2 facing at 2.0mm thick "RENOLIT ALKORPLAN F CLASSIC/COLOUR" and facing option 3 "RENOLIT ALKORPLAN F BRIGHT".

Indicative tests were conducted on the different faces as follows:

- 1 x indicative test with one layer of 60mm thick insulation with option 1 facing
- 1 x indicative test with one layer of 60mm thick insulation with option 2 facing
- 1 x indicative test with one layer of 60mm thick insulation with option 3 facing

Additional testing was then performed to investigate the different insulation thicknesses and number of layers utilizing the worst performing facing (Option 1) as follows::

- 1 x indicative test with one layer of 185mm thick insulation with worst performing facing
- 1 x indicative test with three layers of 60mm thick insulation with worst performing facing
- 1 x indicative test with four layers of 60mm thick insulation with worst performing facing
- 1 x indicative test with three layers of 185mm thick insulation with worst performing facing

As a conclusion, the product with option 1 facing (1.5mm thick “RENOLIT ALKORPLAN F CLASSIC/COLOUR”) with 3 x 60mm thick layers of insulation obtained the worst-case situation over the other product variation(s), due to measured damage depth (100mm) which is the closest to penetrating over the other product set-ups. All other criteria parameters were well within the limits of the envisaged B_{ROOF} (t4) classification

The results have been formally reported in test report no. 552815 and can be considered the upper limit for the results of the range insulation thickness from 60mm to 555mm (comprising between 1 to 4 layers of insulation, each having a thickness between 60mm and 185mm) with facing option 1 at 1.5mm thick “RENOLIT ALKORPLAN F CLASSIC/COLOUR”, facing option 2 at 2.0mm thick “RENOLIT ALKORPLAN F CLASSIC/COLOUR” and facing option 3 “RENOLIT ALKORPLAN F BRIGHT”.

4.3 Field of application

The extended application for the product described in Section 2.2 of this report is valid for the following conditions

End-use applications

End use	Description	Origin
Roof pitch	$0^{\circ} \leq \text{pitch} \leq 10^{\circ}$	Table B.4 of EN 13501-5: 2016
Supporting deck	As tested: - Material – OSB - Thickness – 18mm - Density – 680 kg/m³	Table B.4 of EN 13501-5: 2016

This extended application is valid for the following product parameters:

Overall product

End use	Description	Origin
Generic type and product reference	"RENOLIT ALKORPLAN F CLASSIC/COLOUR" or "RENOLIT ALKORPLAN F BRIGHT" Single ply membrane fixed through mineral wool insulation and vapour control layer comprising: waterproof membrane - Option 1 (1.5mm, 1.85kg/m²) - Option 2 (2.0mm, 2.50kg/m²) - Option 3 (1.5mm, 1.85 kg/m²) Insulation (60mm to 185mm, maximum of four layers, 160kg/m³) Vapour control layer (0.25mm, 218g/m²) - No variation allowed	N/A
Thickness (including deck)	79.33mm – 581.67mm	N/A
Weight per unit area (including deck)	23.49 to 99.36kg/m ²	N/A
Use of flame retardants	No variation allowed	N/A
Construction	No variation allowed other than detailed below	N/A
Composition	No variation allowed	N/A
Joints	No variation allowed	N/A

Layer 1 – Waterproofing membrane (Option 1)

End use	Description	Origin
Generic type and product reference	"RENOLIT ALKOPLAN F CLASSIC/COLOUR" Flexible polyvinyl chloride (PVC) with a polyester reinforcement comprising: PVC membrane (1.757kg/m²) Reinforcement (93g/m²) - No variation allowed	N/A
Total thickness	1.5mm - No variation allowed	N/A
Weight per unit area	1.85kg/m ² - No variation allowed	N/A
Colour	Any colour with an organic content level of less than was tested – (Charcoal "79851" tested) – No variation allowed	§ D.9 General rules of CEN/TS 16459:2019

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Layer 1 – Waterproofing membrane (Option 2)

End use	Description	Origin
Generic type and product reference	“RENOLIT ALKOPLAN F CLASSIC/COLOUR” Flexible polyvinyl chloride (PVC) with a polyester reinforcement comprising: PVC membrane (2.407kg/m ²) Reinforcement (93g/m ²) - No variation allowed	N/A
Total thickness	2.0mm - No variation allowed	N/A
Weight per unit area	2.50kg/m ² - No variation allowed	N/A
Colour	Any colour with an organic content level of less than was tested – (Grey “73321” tested) – No variation allowed	§ D.9 General rules of CEN/TS 16459:2019

Layer 1 – Waterproofing membrane (Option 3)

End use	Description	Origin
Generic type and product reference	“RENOLIT ALKOPLAN F BRIGHT” Flexible polyvinyl chloride (PVC) with a polyester reinforcement comprising: PVC membrane (1.757kg/m ²) Reinforcement (93g/m ²) - No variation allowed	N/A
Total thickness	1.5mm - No variation allowed	N/A
Weight per unit area	1.85kg/m ² - No variation allowed	N/A
Colour	Any colour with an organic content level of less than was tested – (White “90300” tested) – No variation allowed	§ D.9 General rules of CEN/TS 16459:2019

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Layer 2 – Insulation

End use	Description	Origin
Generic type and product reference	“ROCKWOOL Hardrock Multi-Fix DD” Stone wool insulation board faced with a mineral coated white fleece upper surface comprising: Mineral coating (54g/m ²) Fleece (300g/m ²) Stone wool insulation (60 to 185mm, 160kg/m ³) - No variation allowed	N/A
Number of layers	Maximum of four	N/A
Overall thickness	60 to 555mm	N/A
Thickness of each layer	Between 60mm and 185mm – No variation allowed	N/A
Density	160kg/m ³ - No variation allowed	N/A

Layer 3 – Vapour control layer

End use	Description	Origin
Generic type and product reference	“RENOLIT ALKORPLUS 81012” Low density polyethylene vapour control layer - No variation allowed	N/A
Thickness	0.25mm – No variation allowed	N/A
Weight per unit area	218g/m ² – No variation allowed	N/A
Colour	Blue - 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 4.3 comply with the fire performance parameters shown in Table 7. The test results can be found in Section 3.3.

Table 7 Fire performance parameters used to classify the product for B_{ROOF} (t4)

Test method	Parameter	Compliance criteria
CEN/TS 1187: 2012: Test 4	Preliminary test: Burn time	< 5 min
	Preliminary test: Flame spread distance	< 0.38 m
	Preliminary test: Penetration	None
	Penetration test: Time to penetration	≥ 60 min

5. Restrictions

The extended application results relate to the behavior of a product/product family under the particular conditions of the test. They are not intended to be the sole criteria for assessing the potential fire hazard of the product/product family in use.

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. Validity

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

This document is issued subject to Warringtonfire's standard terms and conditions, which are available at: [Terms and Conditions | Element](#).

The extended application 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 extended application results be extrapolated and applied to other products, or imply suitability for use in configurations not specifically detailed in the extended application report. The extended application 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 extended application 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 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 extended application report apply to the test specimens as received and/or specified in the referenced/supporting test and extended application 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 extended application 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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