Reaction to fire classification report

Issuing laboratory: Warringtonfire Testing and Certification Limited

Classification standard:	EN 13501-1: 2018
Sponsor(s):	Kernow Coatings Ltd
Product(s):	"KernowJet EventSharK"
Report number:	551856
Version:	1

Quality management

Version	Date	Summary of amendments including reasons		
1	26 June 2025	Description	Initial issue	
			Prepared by	Authorised by
		Name	Michael Walford	Stacey Deeming
		Signature	Signed by: 84F7BC85947E45F...	Signed by: 7C2F5D630B7D4C0...
			*Signed for and on behalf of Warringtonfire Testing and Certification Limited	

Contents

1. Introduction

This classification report defines the classification assigned to "KernowJet EventSharK", in line with the procedures given in EN 13501-1: 2018.

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

Table 1 Sponsor details

Entity	Address
Sponsor	
Kernow Coatings Ltd	Kernick Road, Penryn, Cornwall, TR10 9DQ, United Kingdom

2. Details of classified product

2.1 General

The product(s), "KernowJet EventSharK", are defined as being suitable for flooring applications.

2.2 Product description

The product(s), "KernowJet EventSharK", are described in Table 2 and in the test reports listed in Section 3.1.

Table 2 Product description

Item		Detail
General description		Textured coated polypropylene with inherent self-adhesive backing which was tested applied to fibre cement board
Product reference		“KernowJet EventSharK”
Name of manufacturer		Kernow Coatings Ltd
Overall thickness (including substrate)		8.45mm (determined by Warringtonfire)
Overall weight per unit area (including substrate)		15.97 kg/m^2 (determined by Warringtonfire)
Coated self-adhesive sheeting (Overall)	General description	Textured coated polypropylene with inherent-self adhesive backing
	Product reference	“KernowJet EventSharK”
	Thickness of composite with release liner	0.308mm (determined by Warringtonfire)
	Thickness of composite without release liner	0.160 ± 0.008mm (stated by sponsor) 0.17mm (determined by Warringtonfire)
	Weight per unit area of composite with release liner	0.28 kg/m^2 (determined by Warringtonfire)
	Weight per unit area of composite without release liner	0.142 ± 0.008 kg/m^2 (stated by sponsor) 0.14 kg/m^2 (determined by Warringtonfire)

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Item			Detail
Coated self-adhesive sheeting (continued)	Textured coating	Generic type	Textured white print receptive coating
		Product reference	“KernowJet EventSharK”
		Detailed description	Textured coating to enable finished product slip performance to be rated as R10
		Name of manufacturer	Kernow Coatings Ltd
		Application thickness	0.048 ± 0.005mm
		Application rate	0.025 ± 0.005 kg/m^2
		Colour	White
		Application method	Coating machine and meyer bar
		Specific gravity	1.05
		Flame retardant details	See Note 1 below
	Film	Generic type	Polypropylene
		Product reference	“KernowJet EventSharK”
		Detailed description	White polypropylene film
		Name of manufacturer	Kernow Coatings Ltd
		Thickness	0.092 ± 0.005mm
		Weight per unit area	0.090 ± 0.005 kg/m^2
		Colour	White
		Flame retardant details	See Note 1 below
	Adhesive	Generic type	Aqueous based pressure sensitive adhesive
		Product reference	“6459”
		Detailed description	Optimised pressure sensitive adhesive – dot pattern
		Name of manufacturer	Kernow Coatings Ltd
		Application thickness	See Note 2 below
		Application rate	See Note 2 below
		Specific gravity	1.0
		Colour	Clear
		Application method	Coating machine and gravure cylinder
		Curing process	Oven
		Flame retardant details	See Note 1 below

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Item		Detail
Brief description of manufacturing process		An anti-slip textured coating is applied to the top surface of the white polypropylene. Pressure sensitive adhesive is applied to the reverse side, in a dot pattern. This is laminated in the oven of the coating machine to polyethylene coated kraft release liner
Mounting and fixing details		The specimen was tested applied to fibre cement board (in accordance with EN 13238: 2010) using the above self-adhesive backing, and the polyethylene coated kraft release liner was removed prior to testing.
Substrate	Generic type	Fibre cement board
	Product reference	“Minerit HD”
	Name of manufacturer	Esspee
	Colour	Grey
	Thickness	8 ± 2mm
	Density	1800 ± 200 kg/m^3
	Flame retardant details	See Note 3 below

Note 1: The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the component

Note 2: 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 3: 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	Kernow Coatings Ltd	551800	07 May 2025	EN ISO 9239-1: 2010
Warringtonfire	Kernow Coatings Ltd	551799	07 May 2025	EN ISO 11925-2: 2020

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_{FL} - s1 can be found in Table 6.

Table 4 Test data

Test method Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
EN ISO 9239-1: 2010 551800	Critical heat flux, (kW/m²)	3	≥11	-
	Average smoke development, (%.min)		4	-
EN ISO 11925-2: 2020 (15s exposure - Surface) 551799	Fs ≤ 150 mm within 20 s	6	-	Compliant
EN ISO 11925-2: 2020 (15s exposure - Edge) 551799	Fs ≤ 150 mm within 20 s	6	-	Compliant

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 13501-1:2018.

4.2 Classification

The product "KernowJet EventSharK" in relation to its reaction to fire behavior is classified as:

B_{FL}

The additional classification in relation to smoke production is:

s1

The format of the reaction to fire classification for flooring applications products is:

Fire behaviour		Smoke production	
B_{FL}	-	s	1

Alternatively shown:

Reaction to fire classification: B_{FL} - s1

4.3 Field of application

The classification for the product described in Section 2.2 of this report is valid for end-use applications described in Table 5.

Table 5 End-use applications

End use	Description	Origin
Substrate	Any substrate with a density equal to or greater than 1350 kg/m³, a minimum thickness of 6 mm and a fire performance of $A2_{FL}$-s1, d0 or better.	As per EN 13238: 2010, clause 5.2 and EGOLF recommendation 045-2018.
Airgap	No air gap allowed	N/A
Joints	No joints permitted	N/A
Fixing method	Product installed using inherent self-adhesive backing	N/A

This classification is valid for the following product parameters:

- Overall thickness: 0.160 ± 0.008mm (without release liner) (No variation allowed)
- Overall weight per unit area: 0.142 ± 0.008 kg/m² (without release liner) (No variation allowed)
- Textured coating application thickness: 0.048 ± 0.005mm (No variation allowed)
- Textured coating application rate: 0.025 ± 0.005 kg/m² (No variation allowed)
- Textured coating colour: White (No variation allowed)
- Textured coating application method: Coating machine and meyer bar (No variation allowed)
- Textured coating specific gravity: 1.05 (No variation allowed)
- Film thickness: 0.092 ± 0.005mm (No variation allowed)
- Film weight per unit area: 0.090 ± 0.005 kg/m² (No variation allowed)
- Film colour: White (No variation allowed)
- Adhesive pattern: Dot pattern (No variation allowed)
- Adhesive application thickness: No variation allowed
- Adhesive application rate: No variation allowed
- Adhesive specific gravity: 1.0 (No variation allowed)
- Adhesive colour: Clear (No variation allowed)
- Adhesive application method: Coating machine and gravure cylinder (No variation allowed)
- Adhesive curing process: Oven (No variation allowed)
- Construction: No variation allowed
- Composition: No variation allowed
- Use of flame retardants: No variation allowed

4.4 Fire performance parameters for B_{FL} - s1

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 6. The test results can be found in Section 3.2.

Table 6 Fire performance parameters for B_{FL} - s1

Test method	Parameter	Continuous parameters	Compliance with parameters
EN ISO 9239-1: 2010	Critical heat flux, (kW/m²)	CHF ≥ 8,0 kW/m²	-
	Average smoke development, (%.min)	Smoke ≤ 750 %.min	-
EN ISO 11925-2: 2020 (15s exposure)	Extent of flame spread	-	Fs ≤ 150 mm within 20 s
	Flaming droplets / particles that ignite filter paper	-	N/A

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

5. Restrictions

At the time the standard EN 13501-1: 2018 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.

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

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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This document does not represent type approval or certification of the product. Warringtonfire does not give an opinion nor is it Warringtonfire's responsibility to determine or state whether the product meets any particular fire or life safety standards as set out in the Building Regulations or any other appropriate document.

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Registered office:

Warringtonfire Testing and Certification Limited
3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA, United Kingdom
Registered Company No. 11371436

Name & address of issuing laboratory:

Warringtonfire Testing and Certification Limited
Holmesfield Road, Warrington WA1 2DS, United Kingdom

Reaction to Fire laboratory locations:

Ghent, Belgium
BELAC accredited laboratory 196-TEST
T: +32 9 243 77 50
Notified Body Number 1173

Warrington, United Kingdom
a UKAS accredited testing laboratory No.0249
T: +44 (0) 1925 655 116
Approved Body Number 0833