

UL-EU CERTIFICATE

Certificate No. UL-EU-01250-CPR
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Certificate Holder Polyseam Ltd
15. St. Andrews Road
Huddersfield
West Yorkshire
HD1 6SB
United Kingdom

Manufacturer Polyseam Ltd
15. St. Andrews Road
Huddersfield
West Yorkshire
HD1 6SB
United Kingdom

Certified Product Type Fire Stop - Coating
Product Trade Name Protecta FR Coating
Trademark N/A
Rating/Classification See Appendix

Harmonised Technical Specifications EAD 350141-00-1106 / EN 13501-2
Supporting Documentation ETA 22/0307, Classification Report No. 4790364151-01
Additional information Additional test evidence is held on file
Expiry date 2032-08-11



A blue ink signature of Chris Johnson, written in a cursive style.

Authorized Certification Decision Maker
Chris Johnson

This is to certify that representative samples of the Certified Product listed above have been investigated by Underwriters Laboratories to the Standard(s) indicated on this Certificate, in accordance with the UL Global Services Agreement and the UL-EU Mark Service Terms and Conditions ("Agreement"). The Certificate Holder is entitled to use the UL-EU Mark for the Certified Product listed on the certificate and manufactured at the production site(s) listed, in accordance with the terms of the Agreement. Only those products bearing the UL-EU Mark for Europe should be considered as being covered by UL's UL-EU Mark Service. This Certificate shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



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This certificate relates to the use of Protecta FR Coating coating/sealant for fire stopping where there are joints in or between floors and walls. The detailed scope is given in pages 3 to 9 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes (EI 240).

The product is certificated on the basis of:

- i) ETA 22/0307
- ii) Inspection and surveillance of factory production control by UL
- iii) Fire resistance test data in accordance with 1366-4: 2006
- iv) Classification in accordance with EN 13501-2
- v) Durability and Servicability as defined in EAD 350141-00-1106

The movement capability of Protecta FR Coating joint seals is restricted to $\leq 7.5\%$

The durability class of Protecta FR Coating is Type Y1: Intended for use at temperatures below 0°C with exposure to UV but no exposure to rain. Includes lower classes Y2, Z1, Z2.



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Product-type: Coating		Intended use: Linear Joint & Gap Seal
Basic requirement for construction work	Essential characteristic	Performance
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	D – s1, d0
EN 13501-2	Resistance to fire	See pages 5 - 9
BWR 3 Hygiene, health and environment		
Declaration of manufacturer & EN 16516	Content, emission and/or release of dangerous substances	Use categories: IA1, S/W2 Declaration of manufacturer
EN 1026:2000	Air permeability (material property)	See page 4
EAD 350141-00-1106, Annex C & EN 12390-8	Water permeability (material property)	No performance determined
BWR 4 Safety in use		
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/movement	No performance determined
EOTA TR 001:2003 ISO 11600 & EAD 350141-00-1106, Clause 2.2.13	Adhesion	No performance determined
EAD 350141-00-1106, Clause 2.2.12	Durability	Y ₁
EAD 350141-00-1106, Clause 2.2.13	Movement capacity	No performance determined
EAD 350141-00-1106, Clause 2.2.14	Cycling of perimeter seals for curtain walls	No performance determined
EAD 350141-00-1106, Clause 2.2.15	Compression set	No performance determined
EAD 350141-00-1106, Clause 2.2.16	Linear expansion on setting	No performance determined
BWR 5 Protection against noise		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation*	R _w (C;Ctr) = 55 (-1;-1) dB
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 10456	Thermal properties	No performance determined
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour permeability	No performance determined
* Protecta FR Coating 1.0mm WFT on both sides of minimum 50mm thick stone wool mineral fibre board with density minimum 160kg/m ³		



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Product tested	1200mm high x 600mm wide Protecta FR Board 50mm 2-S		
Summary of testing procedure		Result	
	Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)
Results under negative chamber pressure	25	0.00	0.00
	50	0.01	0.01
	100	0.02	0.03
	200	0.04	0.06
	300	0.11	0.15
	450	0.49	0.68
	600	0.95	1.32
Results under positive chamber pressure	25	0.00	0.00
	50	0.01	0.01
	100	0.03	0.04
	200	0.08	0.11
	300	0.2	0.28
	450	0.63	0.88
	600	1.01	1.40



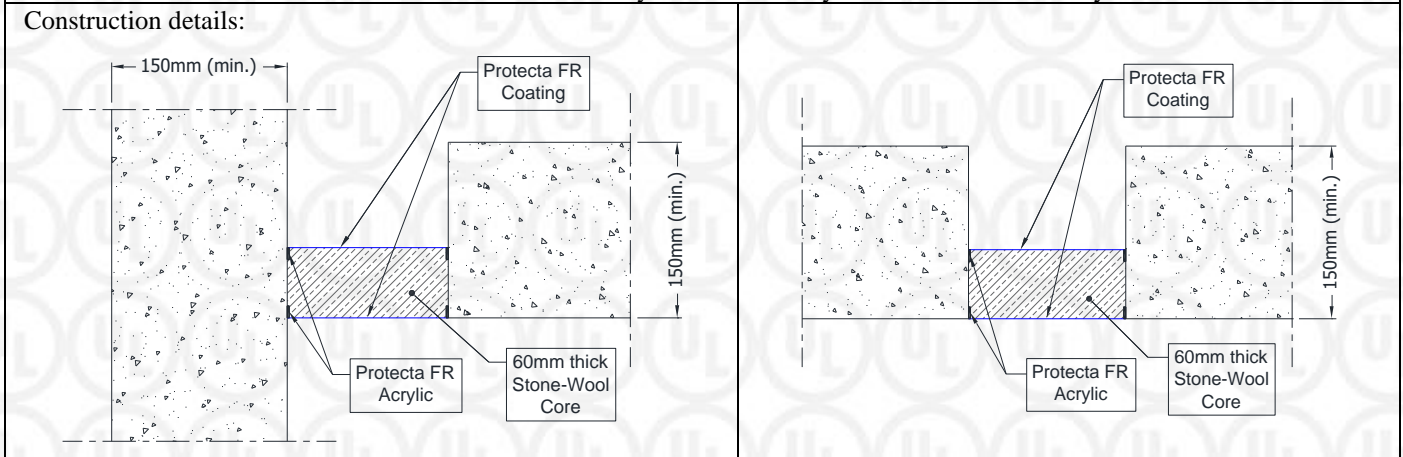
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Rigid floor constructions with thickness of minimum 150 mm

Linear joints in a horizontal construction, horizontal linear joints in a vertical construction and horizontal floor joints abutting a wall

Joint Seal: 60mm thick stone wool batt friction fitted fully within the cavity and sealed with FR Acrylic



Substrate	Depth (mm)	Backing	Classification *
masonry/ concrete	1 mm WFT min. both sides with FR Coating. Sealed at the joint and along the top and bottom edges with FR Acrylic	60 mm stone wool, mineral fibre batt min. 160 kg/m ³ at any position	E 240 – H – X – F – W120 EI 120 – H – X – F – W120
masonry/ concrete/ aluminium	1 mm WFT min. both sides with FR Coating. Sealed at the joint and along the edges on the top and bottom edges with FR Acrylic	60 mm stone wool, mineral fibre batt min. 160 kg/m ³ at any position	E 120 – H – X – F – W300 EI 60 – H – X – F – W300 ¹
masonry/ concrete/ aluminium/ steel		60 mm stone wool, mineral fibre batt min. 160 kg/m ³ top face position	E 120 – H – X – F – W600 (For EI performance recorded on the seal only, please see note ² below)

*Additional and for information only.

The classifications provided in this table considers the insulation performance of all components within the firestopping system as per the requirements of EN 1366-4. This includes temperature evaluation of the metal substrates.

In relation to each of the above classifications, temperatures recorded on the seal (exclusive of the supporting construction) exceeded the maximum allowable after the following times (rounded down):

¹ 90, ² 120



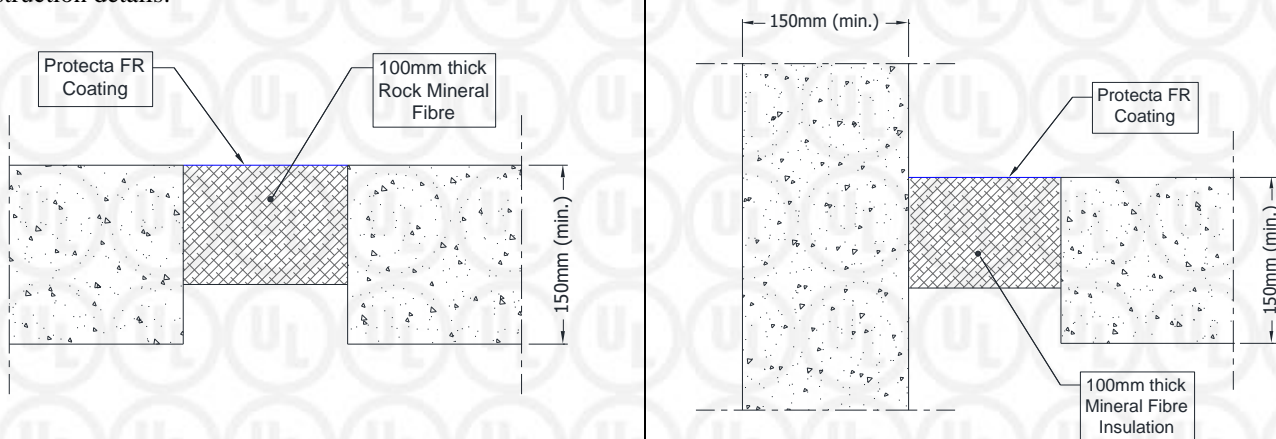
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Linear joints in a horizontal construction, horizontal linear joints in a vertical construction and horizontal floor joints abutting a wall

Joint Seal: 100mm thick Stone wool, mineral fibre insulation friction fitted at least 50 mm above the soffit and coated on the top face with Protecta FR Coating

Construction details:



Substrate	Depth (mm)	Backing	Classification *
masonry/ concrete	1 mm WFT min. top face	100 mm stone wool, mineral fibre min. 33 kg/m ³	E 240 – H – X – F – W120 EI 180 – H – X – F – W120
masonry/ concrete	1.2 mm WFT min. top face	100 mm stone wool, mineral fibre min. 80 kg/m ³ , compressed into gap by 20%	E 240 – H – X – F – W200 EI 240 – H – X – F – W200
masonry/ concrete/ aluminium/ steel			E 240 – H – X – F – W200 EI 15 – H – X – F – W200¹

*Additional and for information only.

The classifications provided in this table considers the insulation performance of all components within the firestopping system as per the requirements of EN 1366-4. This includes temperature evaluation of the metal substrates.

In relation to each of the above classifications, temperatures recorded on the seal (exclusive of the supporting construction) exceeded the maximum allowable after the following times (rounded down):

¹ 120

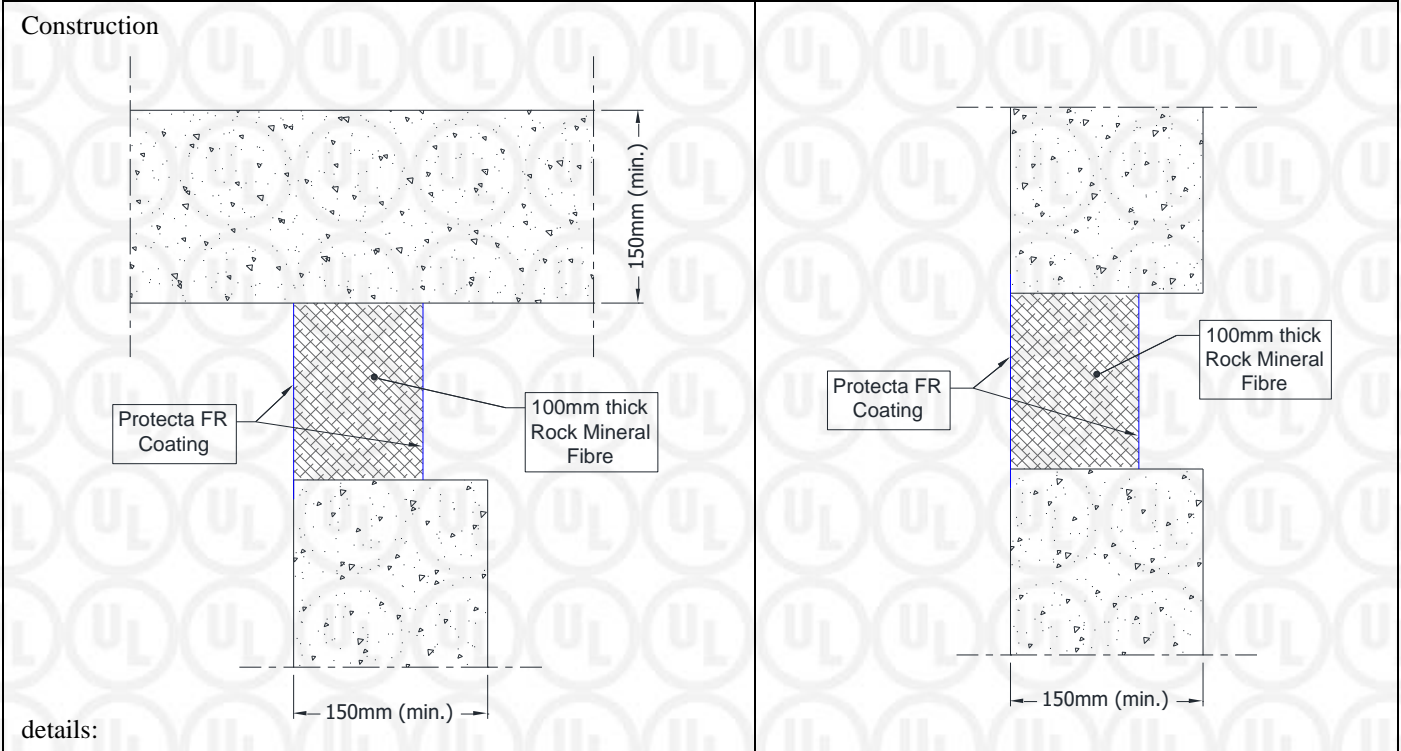


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Linear joints in a vertical construction and horizontal wall joints abutting a floor, ceiling or roof

Joint Seal: Mineral fibre insulation compression fitted to either face of the wall or at any position in between and coated with Protecta FR Coating



Substrate	Depth (mm)	Backing	Classification
masonry/ concrete	1.2 mm WFT min. both faces overlapped by 15 mm onto wall surface	100 mm stone wool, mineral fibre min. 35 kg/m ³ , compressed into gap by 40%	E 240 – T – X – F – W120 EI 180 – T – X – F – W120
	1.2 mm WFT min. single sided overlapped by 15 mm onto wall surface	100 mm stone wool, mineral fibre min. 33 kg/m ³ , compressed into gap by 40%	E 120 – T – X – F – W120 EI 30 – T – X – F – W120
	1.2 mm WFT min. both faces overlapped by 15 mm onto wall surface	100 mm stone wool, mineral fibre min. 80 kg/m ³ , compressed into gap by 10%	E 240 – V – X – F – W200 EI 120 – V – X – F – W200
	1.2 mm WFT min. single sided overlapped by 15 mm onto wall surface	100 mm stone wool, mineral fibre min. 80 kg/m ³ , compressed into gap by 10%	E 180 – V – X – F – W200 EI 30 – V – X – F – W200



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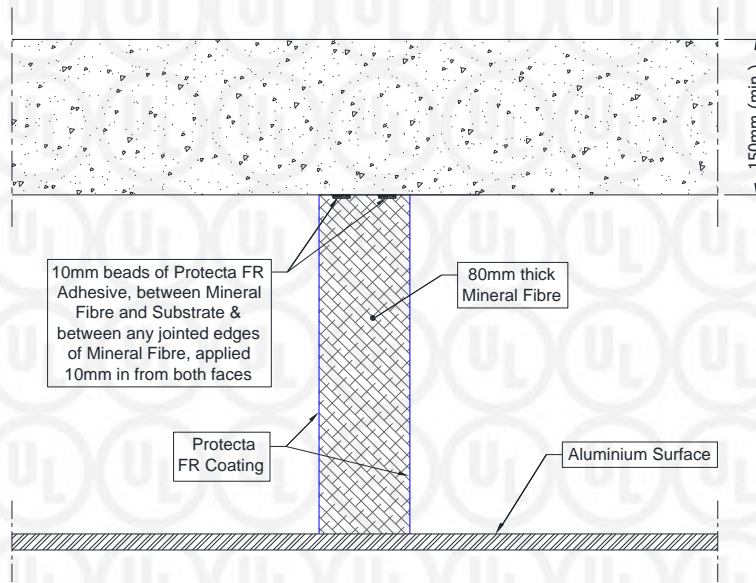
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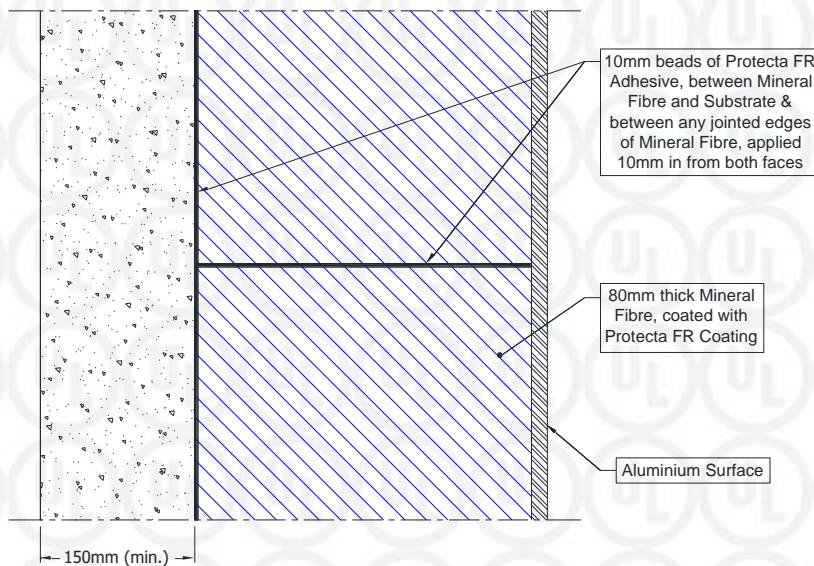
Vertical linear joints in a vertical construction

Joint Seal: Mineral fibre insulation compression fitted to either face of the wall or at any position in between and coated with Protecta FR Coating

Construction details: Plan View



Construction details: Side View



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Substrate	Depth (mm)	Backing	Classification *
masonry/ concrete/ aluminium	1 mm WFT min. both faces with FR Coating	80 mm stone wool, mineral fibre min. 80 kg/m ³ , compressed into gap by 20mm. Bonded to one vertical side of the construction and inbetween stone-wool with beads of Protecta FR Adhesive, leaving one vertical side not bonded but friction fitted	E 180 – V – X – F – W540 EI 30 – V – X – F – W540

*Additional and for information only.

The classifications provided in Table A.1.4.1 consider the insulation performance of all components within the firestopping system as per the requirements of EN 1366-4. This includes temperature evaluation of the metal substrates.

In relation to each of the above classifications, temperatures recorded on the seal (exclusive of the supporting construction) exceeded the maximum allowable after the following times (rounded down):

¹ 120



Appendix UL-EU Certificate

Certification Mark	UL-EU mark
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The UL-EU Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible. The following is suggested.



The minimum height of the registered trademark symbol ® shall be 1 mm. When the overall diameter of the UL-EU Mark is less than 9.5 mm, the trademark symbol may be omitted if it is not legible to the naked eye.

The UL-EU Mark may appear on a label, nameplate, or may be cast, stamped or molded into the product. When appearing on a label or nameplate, the Manufacturer's name or trademark along with a model number are also required on that same label or nameplate. If cast, stamped or molded, the Manufacturer's name or trademark and model number shall also appear elsewhere on the product.

All content shall be in accordance with the details provided on this UL-EU Certificate.

PROCUREMENT

The Production site may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized suppliers can be found on UL's online directory at www.ul.com.

Form-ULID-006104 (DCS:27-CP-F0855) 5.0

