

UL-EU CERTIFICATE

Certificate No. UL-EU-00643-A1-M1
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Certificate Holder Neutron Fire Technologies
Shire Hall
Quay Street
Lostwithiel
Cornwall
PL22 0BS
United Kingdom

Manufacturer A/002

Certified Product Type Fire Stop - Mortar
Product Trade Name Firebreak Compound
Trademark N/A
Rating/Classification See Appendix

Harmonised Technical Specifications ETAG 026-2 / EN 13501-2
Supporting Documentation ETA 13/0387, EC – CERTIFICATE OF CONFORMITY -
0843 – CPD – 0132
Additional information Additional test evidence is held on file
Expiry date 2024-09-29

Director, Global Market Access Operations

Helena Y. Wolf

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Firebreak Compound for fire stopping where there are service penetrations through floors and walls. The detailed scope is given in pages 3 to 12 of this Certificate. This shows the thickness and acceptable dimensions, substrates and orientations required to provide fire resistance periods of up to 240 minutes for differing services and wall/floor constructions.

The product is certificated on the basis of:

- i) ETA 13/0387
- ii) EC – CERTIFICATE OF CONFORMITY - 0843 – CPD – 0132
- iii) Inspection and surveillance of factory production control by UL
- iv) Fire resistance test data in accordance with EN 1366-3: 2009
- v) Classification in accordance with EN 13501-2
- vi) Durability and Servicability as defined in ETAG 026-2, Clause 2.4.12*

* Firebreak Compound has demonstrated its suitability for use in internal conditions, including temperatures below 0°C, without exposure to rain or UV. These conditions are designated Y₂, Z₁ & Z₂ in ETAG 026-2.



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Firebreak Compound Cable Penetrations - Walls							
Supporting Construction	Min. Thickness (mm)	Maximum Opening Size [h x w] (mm)	Penetrating Service	Seal Thickness (mm)	Insulation	Fire Resistance (mins)	
						E	EI
Flexible Partition or Concrete/Masonry	100	400 x 600	1.5mm Steel Cable Tray/Ladder	100	None	120	60
			Type A1 cables**		None		90
					300mm Firebreak Insulwrap*		120
			Type A2 cables**		None		90
					300mm Firebreak Insulwrap*		120
			Type A3 cables**		None		90
					300mm Firebreak Insulwrap*		120
			Type B cables**		None		60
					300mm Firebreak Insulwrap*		120
			Type C1 cables**		None		60
					300mm Firebreak Insulwrap*		120
Type C2 cables**	None	60					
	300mm Firebreak Insulwrap*	120					
Type C3 cables**	None	60					
	300mm Firebreak Insulwrap*	120					
Type E cables**	None	45					
	300mm Firebreak Insulwrap*	120					

* Non-fire side only

** Specification as detailed in BS EN 1366-3: 2009 Annex A



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Firebreak Compound Cable Penetrations - Walls							
Supporting Construction	Min. Thickness (mm)	Opening Size [h x w] (mm)	Penetrating Service	Seal Thickness (mm)	Insulation	Fire Resistance (mins)	
						E	EI
Concrete/ Masonry	150	1500 x unlimited width	1.5mm Steel Cable Tray/Ladder	150	None	240	120
					300mm Firebreak Insulwrap*		240
			Type A1 cables**		None		120
					300mm Firebreak Insulwrap*		240
			Type A2 cables**		None		120
					300mm Firebreak Insulwrap*		240
			Type A3 cables**		None		120
					300mm Firebreak Insulwrap*		240
			Type B cables**		None		60
					300mm Firebreak Insulwrap*		120
			Type C1 cables**		None		60
					300mm Firebreak Insulwrap*		90
			Type C2 cables**		None		90
					300mm Firebreak Insulwrap*		120
			Type C3 cables**		None		60
					300mm Firebreak Insulwrap*		120
			Type D1 cables**		None		60
					300mm Firebreak Insulwrap*		120
			Type D2 cables**		None		120
					300mm Firebreak Insulwrap*		240
Type D3 cables**	None	60					
	300mm Firebreak Insulwrap*	120					
Type E cables**	None	45					
	300mm Firebreak Insulwrap*	120					
Type G1 cables**	None	60					
	300mm Firebreak Insulwrap*	240					
Type G2 cables**	None	45					
	300mm Firebreak Insulwrap*	180					
Type F cable bunches**	None	120					
	300mm Firebreak Insulwrap*	180	120				

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Cable Penetrations – Concrete Floors Min. 150 mm Thickness								
Max. Opening Size [l x w] (mm)	Penetrating Service	Seal	Seal Thickness (mm)	Backing	Backing Thickness (mm)	Insulation	Fire Resistance (mins)	
							E	EI
Unlimited length x 700	1.5mm Steel Tray/Ladder	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool***	50	None	120	120
	Type A1 cables**					None		90
						300mm Firebreak Insulwrap*	120	120
	Type A2 cables**					None		120
						300mm Firebreak Insulwrap*	120	
	Type A3 cables**					None	90	
						300mm Firebreak Insulwrap*	120	
	Type B cables**					None	30	
						300mm Firebreak Insulwrap*	90	
	Type C1 cables**					None	60	
						300mm Firebreak Insulwrap*	90	
	Type C2 cables**					None	60	
						300mm Firebreak Insulwrap*	90	
	Type C3 cables**					None	30	
						300mm Firebreak Insulwrap*	60	
	Type D1 cables**					None	30	
300mm Firebreak Insulwrap*		90						
Type D2 cables**	None	60						
	300mm Firebreak Insulwrap*	120						
	None	30						
	300mm Firebreak Insulwrap*	90						

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Cable Penetrations – Concrete Floors Min. 150 mm Thickness								
Max. Opening Size [l x w] (mm)	Penetrating Service	Seal	Seal Thickness (mm)	Backing	Backing Thickness (mm)	Insulation	Fire Resistance (mins)	
							E	EI
Unlimited length x 700	Type E cables**	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool***	50	None	120	15
						300mm Firebreak Insulwrap*		90
	Bunch of Type F cables**	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool***	50	None	90	30
						300mm Firebreak Insulwrap*		90
	Type G1 cables*	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool***	50	None	120	30
						300mm Firebreak Insulwrap*		90
	Type G2 cables*	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool***	50	None	120	15
						300mm Firebreak Insulwrap*		90
Unlimited length x 1400 Or Unlimited length x 700 where no steel supports are used	1.5mm Steel Ladder	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	240
						300mm Firebreak Insulwrap*		240
	500 x 60 x 1.5mm Perforated Steel Tray	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	120
						300mm Firebreak Insulwrap*		240
	500 x 60 x 1.5mm Non-perforated Steel Tray	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	120	60
						300mm Firebreak Insulwrap*		240
	Type A1 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	120
						300mm Firebreak Insulwrap*		180
	Type A2 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	90
						300mm Firebreak Insulwrap*		180
	Type A3 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	120
						300mm Firebreak Insulwrap*		120
	Type B cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	90
						300mm Firebreak Insulwrap*		120
Type C1 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	90	
					300mm Firebreak Insulwrap*		120	

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Cable Penetrations – Concrete Floors Min. 150 mm Thickness								
Max. Opening Size [l x w] (mm)	Penetrating Service	Seal	Seal Thickness (mm)	Backing	Backing Thickness (mm)	Insulation	Fire Resistance (mins)	
							E	EI
Unlimited length x 1400 Or Unlimited length x 700 where no steel supports are used	Type C2 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	60
						300mm Firebreak Insulwrap*		90
	Type C3 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	60
						300mm Firebreak Insulwrap*		90
	Type D1 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	120
						300mm Firebreak Insulwrap*		240
	Type D2 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	60
						300mm Firebreak Insulwrap*		120
	Type D3 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	60
						300mm Firebreak Insulwrap*		180
	Type E cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	240	60
						300mm Firebreak Insulwrap*		120
	Bunch of Type F cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	50	Mineral Wool***	50	None	120	60
						300mm Firebreak Insulwrap*		90
	Type G1 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	120	30
						300mm Firebreak Insulwrap*		60
	Type G2 cables**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	120	30
						300mm Firebreak Insulwrap*		60
Type H copper conduits**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	120	15	
					300mm Firebreak Insulwrap*		60	
Type I plastic conduits**	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool***	50	None	90	15	
					300mm Firebreak Insulwrap*		60	

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*** 140kg/m³



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Firebreal Compound Pipe Penetrations – Drywalls, Concrete & Masonry Walls Minimum 100 mm Thickness									
Opening Size [h x w] (mm)	Service	Max. O.D (mm)	Minimum Wall Thickness (mm)	Seal Thickness (mm)	Insulation	Insulation Length / Minimum Thickness (mm)	Item	Fire Resistance (mins.)	
								E	EI
400 x 600	Copper/Steel Pipe	22	1	100	Nitrile Rubber**	500/19	Pipe	120	90
							500mm Insulation*		120
							Continuous Insulation		120
	Copper/Steel Pipe	38	1.2	100	Nitrile Rubber**	500/19	Pipe	120	15
							500mm Insulation*		120
							Continuous Insulation		120
	Copper/Steel Pipe	93	1.6	100	Nitrile Rubber**	500/25	Pipe	120	30
							500mm Insulation*		120
							Continuous Insulation		120
	Steel Pipes	19	1.2	100	Nitrile Rubber**	500/19	Pipe	120	120
							500mm Insulation*		120
							Continuous Insulation		120
	Steel Pipes	38	1.2	100	Nitrile Rubber**	500/25	Pipe	120	60
							500mm Insulation*		120
							Continuous Insulation		120
	Steel Pipes	193.7	6.3	100	Nitrile Rubber**	500/25	Pipe	120	15
							500mm Insulation*		60
							Continuous Insulation		90
Copper Pipe	93	1	100	Mineral Wool	Cont/25	Continuous Insulation	120	120	

* Non-fire side only

** Only the actual service passes through the seal, the service insulation is interrupted



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Firebreak Compound Pipe Penetrations – Concrete/Masonry Wall Min. 150 mm Thickness									
Maximum Opening Size (mm)	Service	Max. O.D (mm)	Minimum Wall Thickness (mm)	Seal Thickness (mm)	Insulation	Insulation Length / Min. Thickness (mm)	Item	Fire Resistance (mins.)	
								E	EI
Unlimited width x 1500 mm high	Copper/Steel Pipe	22	1	150	Nitrile Rubber**	500/20	Pipe	240	90
							500mm Insulation*		120
							Continuous Insulation		240
	Copper/Steel Pipe	42	1.2	150	Nitrile Rubber**	500/25	Pipe	240	30
							500mm Insulation*		120
							Continuous Insulation		240
	Copper/Steel Pipe	89	1.6	150	Nitrile Rubber**	500/25	Pipe	240	15
							500mm Insulation*		60
							Continuous Insulation		90
	Steel Pipe	38	1.2	150	Nitrile Rubber**	500/25	Pipe	240	180
							500mm Insulation*		240
							Continuous Insulation		240
	Steel Pipe	194	5	150	Nitrile Rubber**	500/25	Pipe	240	15
							500mm Insulation*		120
							Continuous Insulation		240

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Pipe Penetrations – Concrete Floors Minimum 150 mm thick												
Max. Opening Size (mm)	Service	Max. O.D (mm)	Minimum Wall Thickness (mm)	Seal	Seal Thickness (mm)	Backing	Backing Thickness (mm)	Insulation	Insulation Length / Minimum Thickness (mm)	Item	Fire Resistance (mins.)	
											E	EI
Unlimited length x 700 mm width	Copper/Steel Pipe	22	1	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool**	50	Nitrile Rubber**	500/19	Pipe		0
										500mm Insulation*	120	120
										Continuous Insulation		120
	Copper/Steel Pipe	42	1.2	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool**	50	Nitrile Rubber**	500/25	Pipe		0
										500mm Insulation*	120	120
										Continuous Insulation		120
	Copper/Steel Pipe	89	1.6	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool**	50	Nitrile Rubber**	500/25	Pipe		0
										500mm Insulation*	120	30
										Continuous Insulation		30
	Steel Pipes	19	1	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool**	50	Nitrile Rubber**	500/19	Pipe		60
										500mm Insulation*	120	120
										Continuous Insulation		120
	Steel Pipes	40	1.2	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool**	50	Nitrile Rubber**	500/25	Pipe		0
										500mm Insulation*	120	120
										Continuous Insulation		120
	Steel Pipes	194	8	Firebreak Compound over unsupported mineral wool slab	50	Mineral Wool**	50	Nitrile Rubber**	500/25	Pipe		15
										500mm Insulation*	120	30
										Continuous Insulation		120

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Pipe Penetrations – Concrete Floors Minimum 150 mm thick												
Max. Opening Size (mm)	Service	Max. O.D (mm)	Minimum Wall Thickness (mm)	Seal	Seal Thickness (mm)	Backing	Backing Thickness (mm)	Insulation	Insulation Length / Minimum Thickness (mm)	Item	Fire Resistance (mins.)	
											E	EI
Unlimited length x 1500 Or Unlimited length x 700 where no steel supports are used	Copper/Steel Pipe	22	1	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool**	50	Nitrile Rubber**	500/20	Pipe	240	240
										500mm Insulation*		240
										Continuous Insulation		240
	Copper/Steel Pipe	42	1.2	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool**	50	Nitrile Rubber**	500/25	Pipe	240	90
										500mm Insulation*		240
										Continuous Insulation		240
	Copper/Steel Pipe	89	1.6	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool**	50	Nitrile Rubber**	500/25	Pipe	240	15
										500mm Insulation*		30
										Continuous Insulation		60
	Steel Pipes	194	5	Firebreak Compound over mineral wool slab supported on 60 x 60 x 6mm steel angles	90	Mineral Wool**	50	Nitrile Rubber**	500/22	Pipe	240	15
										500mm Insulation*		60
										Continuous Insulation		240

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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 Certificate 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.

