

UL-EU CERTIFICATE

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Certificate Holder Neutron Fire Technologies Limited
Shire Hall
Quay Street
Lostwithiel
Cornwall
PL22 0BS

Manufacturer A/005

Certified Product Type Fire Stop – Pipe Collars & Wraps
Product Trade Name Firebreak FX 400 Collar, Firebreak FX200 Pipe Wrap/
Firebreak FX200 Sealstrip
Trademark N/A

Rating/Classification See Appendix

Harmonised Technical Specifications ETAG 026-2 / EN 13501-2
Supporting Documentation ETA 14/0060, EC – CERTIFICATE OF CONSTANCY OF
PERFORMANCE - 0843 – CPR – 0173, Classification
Report No. 4786286802
Additional information N/A
Expiry date 2024-05-26

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 FX 400 Collar, Firebreak FX200 Pipe Wrap/Firebreak FX200 Sealstrip for fire stopping where there are service penetrations through 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 for differing services and wall/floor constructions.

The products are certificated on the basis of:

- i) ETA 14/0060
- ii) EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE 0843 – CPR – 0173
- iii) Classification report No. 4786286802
- iv) Inspection and surveillance of factory production control by UL
- v) Fire resistance test data in accordance with EN 1366-3: 2009
- vi) Classification in accordance with EN 13501-2
- vii) Durability and Servicability as defined in ETAG 026-2

The durability class of Firebreak FX 400 Pipe Collar, Firebreak FX200 Pipe Wrap/Firebreak FX200 Sealstrip is Y₂ - intended for use at temperatures below 0°C, but with no exposure to rain nor UV. Includes lower use categories.

The Firebreak FX400 Pipe Collar may be supplied with powder coated steel shells incorporating a hinge and toggle latch, stainless steel half shells with slide together fixing and galvanized steel half shells with slide together fixing.



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Products: Firebreak FX400 Pipe Collar, Firebreak FX200 Pipe Wrap/Firebreak FX200 Sealstrip		
Product-type: Pipe closure		Intended use: Penetration Seal
Basic requirement for construction work	Basic Requirement	Performance
BWR 1 Mechanical resistance and stability		
-	None	Not relevant
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	Class F
EN 13501-2	Resistance to fire	See pages 4 - 9
BWR 3 Hygiene, health and environment		
EN 1026:2000	Air permeability (material property)	No performance determined
ETAG 026-2, Annex C	Water permeability (material property)	No performance determined
Submission of chemical constitution or declaration of manufacturer	Release of dangerous substances	Use categories: IA1, S/W3 Declaration of manufacturer
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	Adhesion	No performance determined
BWR 5 Protection against noise		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	No performance determined
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN 12086	Water vapour permeability	No performance determined
General aspects relating to fitness for use		
EOTA TR 024:2009, clause 3.1.11 & 3.1.12	Durability and serviceability	Y ₂
BWR 7 Sustainable use of natural resources		
-	-	No performance determined



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Firebreak FX400 Pipe Collars: Service Penetration Seals in Drywalls and Masonry Walls									
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service insulation	Fire Resistance (mins.)*			
						E	EI		
Gypsum board	100	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1					None	120	120
		Diameter 20-82 mm, wall thickness 3.2 mm	Both Sides	50 x 4 mm					
		Diameter 83-110 mm, wall thickness 6.6 mm		50 x 8 mm					
		Diameter 111-160 mm, wall thickness 3.2 – 9.5 mm		60 x 18 mm					
		Diameter 161-200 mm, wall thickness 3.9 mm		125 x 20 mm					
		Diameter 50 mm, wall thickness 2 mm		50 x 8 mm	19 mm Armaflex^	90			
		PE pipe according to EN 1519-1, EN 12201-2 and EN 1266-1, ABS pipe according to EN 1455-1 and SAN+PVC pipe according to EN 1565-1					None	120	120
		Diameter 20-40 mm, wall thickness 3.7-4.6 mm	Both Sides	50 x 4 mm					
		Diameter 41-50 mm, wall thickness 4.6 mm		50 x 8 mm					
		Diameter 75-90 mm, wall thickness 5.1 mm							
		Diameter 91-110 mm, wall thickness 6.2 mm							
		Diameter 111-160 mm, wall thickness 7 mm		60 x 18 mm					
		Copper/steel [§]					19 mm Armaflex^	120	60
		Diameter 54 mm, wall thickness 0.8-14.2 mm	Both Sides	50 x 8 mm					
		Telecoms cables in bundles up to 100 mm diameter					None	120	90
		Up to 21 mm diameter		Both Sides	50 x 8 mm				
		Up to 21 mm diameter				Single layer of 300 mm long Insulwrap material			

* all pipe classifications are pipe end configuration U/U, C/U, U/C, C/C (U=Uncapped, C=Capped) (except copper/steel pipes)

^ Pipe insulation is continuous and passes through the seal (CS)

§ C/U pipe configuration for copper pipe



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Firebreak FX400 Pipe Collars: Service Penetration Seals in Concrete Floors									
Substrate	Minimum Floor Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service insulation	Fire Resistance (mins.)*			
						E	EI		
Concrete	150	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1				None	240	240	
		Diameter 20-40 mm, wall thickness 3 mm	Soffit	50 x 4 mm					
		Diameter 41 - 55 mm, wall thickness 2 mm		50 x 6 mm					
		Diameter 56-82 mm, wall thickness 3.2 mm		50 x 8 mm					
		Diameter 83-110 mm, wall thickness 6.6 mm		60 x 18 mm					
		Diameter 111-160 mm, wall thickness 9.5 mm		125 x 20 mm					
		Diameter 161-200 mm, wall thickness 3.9 mm							
		Diameter 83-110 mm, wall thickness 3.2 mm	Recessed/cast in, within the soffit of the floor.	50 x 8 mm	90		90		
		Diameter 161-200 mm, wall thickness 3.9 mm		125 x 20 mm	240		240		
		PE pipe according to EN 1519-1, EN 12201-2 and EN 1266-1, ABS pipe according to EN 1455-1 and SAN+PVC pipe according to EN 1565-1					None	180	180
		Diameter 32-40 mm, wall thickness 3.7 mm	Both Sides	50 x 4 mm					
		Diameter 75-110 mm, wall thickness 8.2 mm		50 x 8 mm					
		Diameter 111-160 mm, wall thickness 6.2 mm		60 x 18 mm					

* all pipe classifications are pipe end configuration U/U, C/U, U/C, C/C (U=Uncapped, C=Capped)



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Firebreak FX200 Pipe Wraps/ Firebreak FX200 Sealstrip: Service Penetration Seals in Drywalls and Masonry Walls								
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Wrap size	Service insulation	Fire Resistance (mins.)*		
						E	EI	
Gypsum board	100	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1						
		Diameter 20-55 mm, wall thickness 2 mm	Both Sides	50 x 1.8 mm	None	120	90	
		Diameter 56-110 mm, wall thickness 3.7-6.6 mm				90		
		Diameter 56-125 mm, wall thickness 6.6 mm				120		
		Diameter 126-160 mm, wall thickness 9.5 mm				90		
		Diameter 161-200 mm, wall thickness 6.2 mm				90		
		Copper/steel [^]						
		Diameter 54 mm, wall thickness 0.8-14.2 mm	Both Sides	50 x 3.6 mm	19 mm Armaflex [§]	60	60	
		Telecoms cables in bundles up to 100 mm diameter (wrap/sealstrip must be in intimate contact with the cable bundle)						
		Up to 21 mm diameter	Both Sides	50 x 3.6 mm	None		30	
		Up to 21 mm diameter			Single layer of 300 mm wide Insulwrap material	120	90	

* all pipe classifications are pipe end configuration U/U, C/U, U/C, C/C (U=Uncapped, C=Capped) (except copper/steel pipes)

[§] Pipe insulation is continuous and passes through the seal (CS)

[^] C/U pipe configuration for copper pipe



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Firebreak FX200 Pipe Wraps/ Firebreak FX200 Sealstrip: Service Penetration Seals Masonry Walls							
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Wrap size	Service insulation	Fire Resistance (mins.)*	
						E	EI
Concrete/ brick/block	150	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1					
		Diameter 20-55 mm, wall thickness 2 mm	Both Sides	50 x 3.6 mm	None	240	240
		Diameter 20-82 mm, wall thickness 3.3 mm				120	120
		PE pipe according to EN 1519-1, EN 12201-2 and EN 1266-1, ABS pipe according to EN 1455-1 and SAN+PVC pipe according to EN 1565-1					
		Diameter 20-55 mm, wall thickness 3.2 mm	Both Sides	50 x 3.6 mm	None	120	120
		Copper [^]					
Diameter 25 mm, wall thickness 0.8-14.2 mm	Both Sides	50 x 1.8 mm	25 mm Armaflex [§]	120	120		

* all pipe classifications are pipe end configuration C/U, U/C, C/C (except copper pipes)

[§] Pipe insulation is continuous and passes through the seal (CS)

[^] C/U pipe configuration for copper pipe

Firebreak FX200 Pipe Wraps/ Firebreak FX200 Sealstrip: Service Penetration Seals in Masonry Walls with Firebreak 44 foam infill							
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Wrap size	Service insulation	Fire Resistance (mins.)*	
						E	EI
Concrete/ brick/block	150	Telecoms cables in bundles up to 100 mm diameter (wrap/sealstrip must be in intimate contact with the cable bundle)					
		Up to 20 mm diameter 'C3' electrical cables in accordance with HD 604.5	Central	75 x 1.8 mm	None	120	120
		Up to 15 mm diameter 'A3' electrical cables in accordance with HD 604.5					90

A3 cables – 5 x 1.5 mm² core, XPPE insulation, EVA sheath

C3 cables – 4 x 95 mm² core, XPPE insulation, EVA sheath



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Firebreak FX200 Pipe Wraps / Firebreak FX200 Sealstrip: Service Penetration Seals in Concrete Floors										
Substrate	Minimum Floor Thickness (mm)	Penetrating Services	Seal Position	Wrap Inlay	Service insulation	Fire Resistance (mins.)*				
						E	EI			
Concrete	150	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1					None	240	240	
		Diameter 20-40 mm, wall thickness 3 mm	Cast into soffit	50 x 1.8 mm	None	240				240
		Diameter 41-50 mm, wall thickness 3 mm		50 x 3.6 mm						
		Diameter 20-55 mm, wall thickness 2 mm		50 x 1.8 mm						
		Diameter 82 mm, wall thickness 3.3 mm		50 x 3.6 mm						
		Diameter 41-100 mm, wall thickness 3 mm		50 x 5.4 mm						
		Diameter 20-160 mm, wall thickness 3.2 mm		75 x 10.8						
		PE pipe according to EN 1519-1, EN 12201-2 and EN 1266-1, ABS pipe according to EN 1455-1 and SAN+PVC pipe according to EN 1565-1					None	240	240	
		Diameter 20-40 mm, wall thickness 3.7 mm	Cast into soffit	50 x 1.8 mm						
		Diameter 20-55 mm, wall thickness 2 mm		50 x 3.6 mm						
		Diameter 20-110 mm, wall thickness 6.6 mm								
		Diameter 20-125 mm, wall thickness 6.2								
		Copper/steel [%]					25 mm Armaflex [§]	240	240	
Diameter 25 mm, wall thickness 2-14.2 mm	Both Sides	50 x 1.8 mm								

* all pipe classifications are pipe end configuration U/U, C/U, U/C, C/C (U=Uncapped, C=Capped) (except copper/steel pipes and pipes marked^)

[§] Pipe insulation is continuous and passes through the seal (CS)

[%] C/U pipe configuration for copper/steel pipe

[^] C/U, U/C, C/C pipe configuration



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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.



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