

UL-EU CERTIFICATE

Certificate No. UL-EU-00513-CPR
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Date of Issue 2014-05-27
Revised 2017-12-19

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 Series Collars, 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, 4786100997
Additional information N/A
Expiry date 2024-05-26



Head of Notified Body
Chris Miles



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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Series Collars, 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 17 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) ETA 14/0199
- iii) EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE 0843 – CPR – 0173
- iv) EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE 0843 – CPR – 0187
- v) Classification report No. 4786286802
- vi) Classification report No. 4786100997
- vii) Inspection and surveillance of factory production control by UL
- viii) Fire resistance test data in accordance with EN 1366-3: 2009
- ix) Classification in accordance with EN 13501-2
- x) Durability and Servicability as defined in ETAG 026-2

The durability class of Firebreak FX Series Pipe Collars, 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.

Firebreak FX Series Pipe Collars comprise Firebreak FX300, Firebreak FX400 and Firebreak FX500 pipe collars.

The Firebreak FX Series Pipe Collars may be supplied with shells of stainless steel or mild steel with either a galvanized or powder coated finish. The body of the collars can be either half shells with slide together fixings; half shells with hinge and toggle latch fixings or a continuous wrap around body with slide through and fold back fixing tabs..



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Product-type: Pipe closures		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	FX300/FX500 Class E Performance not assessed for other devices
EN 13501-2	Resistance to fire	See pages 3 - 17
BWR 3 Hygiene, health and environment		
EN 1026:2000	Air permeability (material property)	No performance determined
ETAG 026-3, Annex C	Water permeability (material property)	No performance determined
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	Durability and serviceability	y2
BWR 7 Sustainable use of natural resources		
-	-	No performance determined



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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service insulation	Fire Resistance (mins.)		
						E	EI	
Gypsum board / Masonry / Concrete	100 (or * 130 mm)	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1						
		Diameter 40 mm, wall thickness 2.4-3.2 mm	Both Sides	30 x 6 mm	None	120	120	
		Diameter 55 mm, wall thickness 2.4-3.2 mm				120	60	
		Diameter 65 mm, wall thickness 2.4-3.2 mm						
		Diameter 75 mm, wall thickness 2.4-3.2 mm						
		Diameter 82 mm, wall thickness 2.4-3.2 mm				120	120	
		Diameter 65 mm, wall thickness 2.4-3.2 mm*						
		Diameter 75 mm, wall thickness 2.4-3.2 mm*						
		Diameter 82 mm, wall thickness 2.4-3.2 mm*				120	90	
		Diameter 90 mm, wall thickness 2.7-6.6 mm						
		Diameter 110 mm, wall thickness 2.7-6.6 mm						
		Diameter 90 mm, wall thickness 6.2 mm		120		120		
		Diameter 110 mm, wall thickness 6.2-9.5 mm						
		Diameter 125 mm, wall thickness 9.5 mm						
		Diameter 140 mm, wall thickness 9.5 mm		45 x 16 mm		120	90	
		Diameter 160 mm, wall thickness 9.5 mm						
		Diameter 125 mm, wall thickness 4-9.5 mm						
		Diameter 140 mm, wall thickness 4-9.5 mm						
		Diameter 160 mm, wall thickness 4-9.5 mm						
		Diameter 125 mm, wall thickness 2.5-9.5 mm*						
		Diameter 140 mm, wall thickness 2.5-9.5 mm*						
		Diameter 160 mm, wall thickness 2.5-9.5 mm *						
		Diameter 160 mm, wall thickness 2.5-9.5 mm *						
		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 40 mm, wall thickness 3.0-4.6 mm	Both Sides	30 x 6 mm	None	120	120	
		Diameter 50 mm, wall thickness 3.0-4.6 mm				120	90	
		Diameter 75 mm, wall thickness 4.5-6.8 mm*						
		Diameter 75 mm, wall thickness 4.5 mm						
		Diameter 75 mm, wall thickness 4.5-6.8 mm				120	120	
		Diameter 90 mm, wall thickness 2.7 mm*						
		Diameter 90 mm, wall thickness 2.7-6.6 mm						
		Diameter 90 mm, wall thickness 10 mm*				120	90	
		Diameter 110 mm, wall thickness 2.7 mm*						
		Diameter 110 mm, wall thickness 2.7-6.6 mm						
		Diameter 110 mm, wall thickness 10 mm*		120		90		
		Diameter 125 mm, wall thickness 4.8 mm						
		Diameter 125 mm, wall thickness 4.9-14.6 mm						
		Diameter 125 mm, wall thickness 9.5 mm*		45 x 16 mm		60	60	
		Diameter 140 mm, wall thickness 14.6 mm						
		Diameter 140 mm, wall thickness 9.5 mm*						
		Diameter 160 mm, wall thickness 14.6 mm						
		Diameter 160 mm, wall thickness 9.5 mm*						
		Diameter 160 mm, wall thickness 9.5 mm*						

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



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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service insulation	Fire Resistance (mins.)			
						E	EI		
Gypsum board / Masonry / Concrete	100 (or * 130 mm)	PP pipe according to EN ISO 15494							
		Diameter 40 mm, wall thickness 2 mm	Both Sides	30 x 6 mm	None	120	120		
		Diameter 40 mm, wall thickness 2.1-4.3 mm				120	60		
		Diameter 50 mm, wall thickness 2 mm				120	120		
		Diameter 50 mm, wall thickness 2.1-4.3 mm				120	60		
		Diameter 75 mm, wall thickness 2 mm				120	120		
		Diameter 75 mm, wall thickness 2.1-4.3 mm				120	60		
		Diameter 80 mm, wall thickness 2 mm				120	120		
		Diameter 80 mm, wall thickness 2.1-4.3 mm				120	60		
		Diameter 90 mm, wall thickness 2.7 mm				30 x 10 mm	120	120	
		Diameter 110 mm, wall thickness 2.7 mm					120	45	
		Diameter 140 mm, wall thickness 3.5 mm				45 x 16 mm	120	120	
		Diameter 140 mm, wall thickness 4.0 mm*					120	120	
		Diameter 160 mm, wall thickness 4.0 mm*					120	120	
		Diameter 140 mm, wall thickness 4.0-14.6 mm*					120	45	
		Diameter 160 mm, wall thickness 4.0-14.6 mm*							
PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1									
Masonry / Concrete	150 mm	Diameter 90 mm, wall thickness 1.8-4.2 mm	Both Sides	30 x 10 mm	None	240	240		
		Diameter 110 mm, wall thickness 1.8-4.2 mm							
		Diameter 125mm, wall thickness 2.5 mm		45 x 16 mm					
		Diameter 140mm, wall thickness 2.5 mm							
		Diameter 160 mm, wall thickness 2.5 mm							
		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 125mm, wall thickness 6.2 mm	Both Sides	45 x 16 mm		None	240	240	
		Diameter 140mm, wall thickness 6.2 mm							
		Diameter 160 mm, wall thickness 6.2 mm							
		BevEx Drinks Python							
Diameter 80 mm	Both Sides	30 x 6 mm	None	240	240				
Steel pipe, with Continuous Sustained (CS) K-Flex ST or Armaflex insulation									
Diameter 47.6 mm, wall thickness 1.5-14.2 mm		30 x 6 mm	13 mm insulation	240^	180^				
Diameter 114.3 mm, wall thickness 2-14.2 mm		45 x 16 mm	19 mm insulation	240^	120^				

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

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



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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 / Masonry / Concrete	100	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1					None	120	120			
		Diameter 32 mm, wall thickness 3-3.2 mm	Both Sides	50 x 4 mm	None	120				120		
		Diameter 38 mm, wall thickness 3-3.2 mm										
		Diameter 40 mm, wall thickness 3-3.2 mm										
		Diameter 42.2 mm, wall thickness 3.2 mm										
		Diameter 46 mm, wall thickness 3.2 mm										
		Diameter 48.3 mm, wall thickness 3.2 mm										
		Diameter 50 mm, wall thickness 3.2 mm										
		Diameter 55 mm, wall thickness 3.2 mm										
		Diameter 60.3 mm, wall thickness 3.2 mm										
		Diameter 63 mm, wall thickness 3.2 mm										
		Diameter 65 mm, wall thickness 3.2 mm										
		Diameter 70 mm, wall thickness 3.2 mm										
		Diameter 75 mm, wall thickness 3.2 mm										
		Diameter 82 mm, wall thickness 3.2 mm										
		Diameter 90 mm, wall thickness 6.6 mm										
		Diameter 110 mm, wall thickness 6.6 mm										
		Diameter 114.3 mm, wall thickness 3.2-9.5 mm										
		Diameter 125 mm, wall thickness 3.2-9.5 mm										
		Diameter 140 mm, wall thickness 3.2-9.5 mm										
		Diameter 160 mm, wall thickness 3.2-9.5 mm										
		Diameter 200 mm, wall thickness 3.9 mm										
		PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1 with 19 mm Armaflex or K-Flex-ST insulation								Continuous Sustained		
		Diameter 55 mm, wall thickness 2 mm	Both Sides	50 x 8 mm	19mm insulation (CS)	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 32 mm, wall thickness 3.7-4.6 mm	Both Sides	50 x 4 mm	None	120				120		
		Diameter 38 mm, wall thickness 3.7-4.6 mm										
		Diameter 40 mm, wall thickness 3.7-4.6 mm										
		Diameter 42.2 mm, wall thickness 4.6 mm										
		Diameter 46 mm, wall thickness 4.6 mm										
		Diameter 48.3 mm, wall thickness 4.6 mm										
		Diameter 50 mm, wall thickness 4.6 mm										
		Diameter 60.3 mm, wall thickness 3.2 mm										
Diameter 63 mm, wall thickness 3.2-6.8 mm												
Diameter 65 mm, wall thickness 3.2-6.8 mm												
Diameter 70 mm, wall thickness 3.2-6.8 mm												
Diameter 75 mm, wall thickness 6.8 mm												
Diameter 90 mm, wall thickness 5.1-6.6 mm												
Diameter 110 mm, wall thickness 10 mm												
Diameter 110 mm, wall thickness 6.2-6.6												
Diameter 114.3 mm, wall thickness 7 mm												
Diameter 125 mm, wall thickness 7 mm												
Diameter 140 mm, wall thickness 7 mm												
Diameter 160 mm, wall thickness 7 mm												
Diameter 63 mm, wall thickness 3.2-6.8 mm	Both Sides	50 x 6 mm	None	60	60							
Diameter 65 mm, wall thickness 3.2-6.8 mm												
Diameter 70 mm, wall thickness 3.2-6.8 mm												
Diameter 75 mm, wall thickness 6.8 mm												
Diameter 90 mm, wall thickness 5.1-6.6 mm												
Diameter 110 mm, wall thickness 10 mm												
Diameter 110 mm, wall thickness 6.2-6.6	Both Sides	50 x 8 mm	None	120	120							
Diameter 114.3 mm, wall thickness 7 mm												
Diameter 125 mm, wall thickness 7 mm												
Diameter 140 mm, wall thickness 7 mm												
Diameter 160 mm, wall thickness 7 mm												
Diameter 114.3 mm, wall thickness 7 mm						Both Sides	60 x 18 mm	None	120	120		
Diameter 125 mm, wall thickness 7 mm												
Diameter 140 mm, wall thickness 7 mm												
Diameter 160 mm, wall thickness 7 mm												
Diameter 114.3 mm, wall thickness 7 mm												
Diameter 125 mm, wall thickness 7 mm												

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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service insulation	Fire Resistance (mins.)		
						E	EI	
Gypsum board / Masonry / Concrete	100	PB pipe according to DIN16968/16969, EN ISO15876-2						
		Diameter 32 mm, wall thickness 3.7 mm	Both Sides	50 x 4 mm	None	120	120	
		Diameter 38 mm, wall thickness 3.7 mm						
		Diameter 40 mm, wall thickness 3.7 mm						
		Diameter 50 mm, wall thickness 6.8 mm						
		Diameter 60.3 mm, wall thickness 3.2 mm		50 x 6 mm		120	60	
		Diameter 63 mm, wall thickness 3.2 mm						
		Diameter 65 mm, wall thickness 3.2 mm						
		Diameter 70 mm, wall thickness 3.2 mm						
		Diameter 75 mm, wall thickness 6.8 mm						
		Diameter 90 mm, wall thickness 8.2 mm						
		Diameter 110 mm, wall thickness 10 mm	50 x 8 mm	45	45			
				30	30			
		PP pipe according to DIN 8077/8078, EN ISO 15494						
		Diameter 32 mm, wall thickness 3.7 mm	Both Sides	50 x 4 mm	None	120	90	
		Diameter 38 mm, wall thickness 3.7 mm						
		Diameter 40 mm, wall thickness 3.7 mm						
		Diameter 50 mm, wall thickness 6.8 mm						
		Diameter 60.3 mm, wall thickness 2.6 mm**		50 x 6 mm		120	120	
		Diameter 63 mm, wall thickness 2.6 mm**						
		Diameter 65 mm, wall thickness 2.6 mm**						
		Diameter 70 mm, wall thickness 2.6 mm**						
		Diameter 75 mm, wall thickness 2.6 mm**						
		Diameter 90 mm, wall thickness 3.8 mm**						
		Diameter 110 mm, wall thickness 3.8 mm**	50 x 8 mm	120	60			
		MLCP pipe according to ISO 21003 / DIN16836						
		Diameter 16 mm, wall thickness 3 mm	Both Sides	50 x 4 mm	None	120	120	
		Diameter 32 mm, wall thickness 3 mm						
		Diameter 40 mm, wall thickness 4 mm						
		Diameter 50 mm, wall thickness 4.5 mm						
		Copper with 19 mm thick Armaflex insulation or K-Flex-ST insulation Continuous Sustained (CS)						
		Diameter 54 mm, wall thickness 0.8-14.2 mm	Both sides	50 x 8 mm	19 mm insulation	120	120	
		Telecoms cables up to 21 mm diameter in bundles up to 100 mm diameter^						
Up to 21 mm diameter in bundles up to 100 mm diameter^	Both sides	50 x 8 mm	None	120	90			
Up to 21 mm diameter in bundles up to 100 mm diameter^						300 mm long, single layer of Insulwrap material [§]	120	120
PVC conduits								
Gypsum board / Masonry / Concrete	130	5 off 20 mm diameter PVC conduits, each filled with 1 off 16 mm diameter H624Y 10mm ² cable	Exposed/fire risk side***	50 x 4 mm	None	120	120	

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^ Collar size must be an intimate fit to the cable bundle size

§ Only required on non-fire risk side or both sides if fire risk side is unknown

** Uponor Decibel Pipe

*** This system shall only be used where the Authority Having Jurisdiction (AHJ) identifies that the fire risk is from the side of the wall that is fitted with the collar, or alternatively collars may be fitted to both sides



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Firebreak FX400 Pipe Collars: Service Penetration Seals in 50 mm Firebreak Batt 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 / Masonry / Concrete	100	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1						
		Diameter 200 mm, wall thickness 4.2 mm	Both Sides	125 x 20 mm	None	60	60	
		PB pipe according to EN ISO15876-2						
		Diameter 60.3 mm, wall thickness 6.8 mm	Both Sides	50 x 6 mm	None	45	45	
		Diameter 63 mm, wall thickness 6.8 mm						
		Diameter 65 mm, wall thickness 6.8 mm						
		Diameter 70 mm, wall thickness 6.8 mm						
		Diameter 75 mm, wall thickness 6.8 mm						
		MLCP pipe according to ISO 21003 / DIN16836						
		Diameter 16 mm, wall thickness 3 mm	Both Sides	50 x 4 mm	None	120	120	
		Diameter 32 mm, wall thickness 3 mm				120	90	
		Diameter 40 mm, wall thickness 4 mm				90	45	
		Diameter 50 mm, wall thickness 4.5 mm				120	20	
		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 60.3 mm, wall thickness 6.8 mm	Both sides	50 x 6 mm	None	30	30	
		Diameter 63 mm, wall thickness 6.8 mm						
		Diameter 65 mm, wall thickness 6.8 mm						
		Diameter 70 mm, wall thickness 6.8 mm						
		Diameter 75 mm, wall thickness 6.8 mm						
		Diameter 90 mm, wall thickness 10.0 mm						
Diameter 100 mm, wall thickness 10.0 mm								
Diameter 160 mm, wall thickness 7.0 mm	50 x 8 mm	45						45
	60 x 18 mm	120	60					

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Firebreak FX400 Pipe Collars: Service Penetration Seals in 100 mm Firebreak Batt 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 / Masonry / Concrete	100	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1					Both Sides	50 x 6 mm	None	120	60
		Diameter 60.3 mm, wall thickness 3.2 mm									
		Diameter 63 mm, wall thickness 3.2 mm									
		Diameter 65 mm, wall thickness 3.2 mm									
		Diameter 70 mm, wall thickness 3.2 mm									
		Diameter 75 mm, wall thickness 3.2 mm									
		Diameter 82 mm, wall thickness 3.2 mm									
		PB pipe according to EN ISO15876-2					Both Sides	50 x 4 mm	None	120	120
		Diameter 32 mm, wall thickness 3.7 mm									
		Diameter 38 mm, wall thickness 3.7 mm									
		Diameter 40 mm, wall thickness 3.7 mm									
		MLCP pipe according to ISO 21003 / DIN16836					Both Sides	50 x 4 mm	None	120	120
		Diameter 16 mm, wall thickness 3 mm	120	90							
		Diameter 32 mm, wall thickness 3 mm	90	45							
		Diameter 40 mm, wall thickness 4 mm	120	20							
		Diameter 50 mm, wall thickness 4.5 mm									
		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					Both sides	60 x 18 mm	None	120	15
		Diameter 160 mm, wall thickness 6.2 mm									

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Firebreak FX500 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 / Masonry / Concrete	100	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1						90	90
		Diameter 200 mm, wall thickness 10.6 mm	Both Sides	60 x 26 mm	None				
		Diameter 225 mm, wall thickness 10.6 mm							
Diameter 250 mm, wall thickness 10.6 mm									
Masonry / Concrete		Diameter 200 mm, wall thickness 10.6 mm	Both Sides	130 x 24 mm	None	240	240		
		Diameter 225 mm, wall thickness 10.6 mm							
		Diameter 250 mm, wall thickness 10.6 mm							
		Diameter 315 mm, wall thickness 12.1 mm							
Steel pipe, with Continuous Sustained (CS) K-Flex ST or Armaflex insulation									
	Diameter 219.1 mm, wall thickness 6.4-14.2 mm	Both Sides	130 x 32 mm	25 mm insulation	240 [^]	240 [^]			

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

[^] pipe classifications are pipe end configuration C/C (U=Uncapped, C=Capped)



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Firebreak FX300 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 mm	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1									
		Diameter 40 mm, wall thickness 3 mm	Soffit	30 x 6 mm	None	240	240				
		Diameter 40 mm, wall thickness 3.1-3.2 mm				120	120				
		Diameter 55 mm, wall thickness 3 mm				240	240				
		Diameter 55 mm, wall thickness 3.1-3.2 mm				120	120				
		Diameter 65 mm, wall thickness 3 mm				240	240				
		Diameter 65 mm, wall thickness 3.1-3.2 mm				120	120				
		Diameter 75 mm, wall thickness 3 mm				240	240				
		Diameter 75 mm, wall thickness 3.1-3.2 mm				120	120				
		Diameter 82 mm, wall thickness 3 mm				240	240				
		Diameter 82 mm, wall thickness 3.1-3.2 mm				120	120				
		Diameter 90 mm, wall thickness 1.8 mm				30 x 10 mm	180	180			
		Diameter 90 mm, wall thickness 1.9-10 mm					120	120			
		Diameter 110 mm, wall thickness 1.8 mm					180	180			
		Diameter 110 mm, wall thickness 1.9-10 mm					120	120			
		Diameter 125 mm, wall thickness 2.5 mm					45 x 16 mm	180	180		
		Diameter 125 mm, wall thickness 2.6-9.5 mm						90	90		
		Diameter 160 mm, wall thickness 2.5 mm				180		180			
		Diameter 160 mm, wall thickness 2.6-9.5 mm				90		90			
		PE pipe according to EN 1519-1, EN 12201-2 and EN 1266-1, ABS pipe to EN 1455-1 and SAN+PVC pipe to EN 1565-1									
		Diameter 40 mm, wall thickness 3.7 mm	Soffit	30 x 6 mm	None	180	180				
		Diameter 40 mm, wall thickness 3.8-11.6 mm				120	120				
		Diameter 50 mm, wall thickness 3.7 mm				180	180				
		Diameter 50 mm, wall thickness 3.8-11.6 mm				120	120				
		Diameter 90 mm, wall thickness 4.2mm				30 x 10 mm	180	180			
		Diameter 110 mm, wall thickness 4.2 mm					60	60	60		
		Diameter 90 mm, wall thickness 4.3-10 mm						45 x 16 mm	120	120	
		Diameter 110 mm, wall thickness 4.3-10 mm				120	120				
		Diameter 125 mm, wall thickness 6.2 mm				120	120				
		Diameter 160 mm, wall thickness 6.2 mm				120	120				
		BevEx Drinks Python									
		Diameter 80 mm				Soffit	30 x 6 mm	None	240	240	
		Steel pipe, with Continuous Sustained (CS) K-Flex ST insulation									
		Diameter 114.3 mm, wall thickness 2-14.2 mm	Soffit	4 x 16 mm	19 mm insulation	240^	240^				
		Diameter 47.6 mm, wall thickness 1.5-14.2mm		30 x 6 mm	13 mm insulation	90^	90^				
		PB pipe according to EN ISO15876-2									
		Diameter 40 mm, wall thickness 3.7-4.6 mm	Soffit	30 x 6 mm	None	240	240				
		Diameter 50 mm, wall thickness 4.6 mm				90	90				
		Diameter 75 mm, wall thickness 6.8 mm									
		PP pipe according to DIN 8077/8078, EN ISO 15494									
		Diameter 40 mm, wall thickness 1.8-3.7 mm	Soffit	30 x 6 mm	None	240	240				
		Diameter 50 mm, wall thickness 1.8 mm				120	120				
		Diameter 50 mm, wall thickness 1.8-2.8 mm				180	180				
		Diameter 75 mm, wall thickness 1.9 mm				30 x 10 mm	240	240			
		Diameter 90 mm, wall thickness 2.2-2.7 mm					240	240			
		Diameter 110 mm, wall thickness 2.7 mm									

All pipe classifications are pipe end configuration U/U, C/U, U/C, C/C (U=Uncapped, C=Capped) (except steel pipes)
 ^ pipe classifications are pipe end configuration C/C (U=Uncapped, C=Capped)



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Firebreak FX300 Pipe Collars: Service Penetration Seals in 50 mm Firebreak Compound, underplayed with Stone wool board 140/kg/m ³ in Concrete Floors							
Substrate	Minimum Floor Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service insulation	Fire Resistance (mins.)	
						E	EI
Concrete	150 mm	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1					
		Diameter 90 mm, wall thickness 2.0 mm	Soffit	30 x 10 mm	None	120	120
		Diameter 110 mm, wall thickness 2.0 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 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 mm	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1					None	240	240
		Diameter 32 mm, wall thickness 3 mm	Soffit	50 x 4 mm					
		Diameter 38 mm, wall thickness 3 mm							
		Diameter 40 mm, wall thickness 3 mm							
		Diameter 42.2 mm, wall thickness 2 mm							
		Diameter 46 mm, wall thickness 2 mm							
		Diameter 55 mm, wall thickness 2 mm							
		Diameter 82 mm, wall thickness 3.2 mm							
		Diameter 110 mm, wall thickness 6.6 mm							
		Diameter 160 mm, wall thickness 3.2-9.5 mm							
		Diameter 160 mm, wall thickness 9.5 mm							
		Diameter 200 mm, wall thickness 9.5 mm	60 x 18 mm	180	60				
		Diameter 200 mm, wall thickness 9.5 mm				125 x 20 mm	180	180	
		PE pipe according to EN 1519-1, EN 12201-2 and EN 1266-1, ABS pipe to EN 1455-1 and SAN+PVC pipe to EN 1565-1							
		Diameter 32 mm, wall thickness 3.7 mm	Soffit	50 x 4 mm	180	180			
		Diameter 38 mm, wall thickness 3.7 mm							
		Diameter 40 mm, wall thickness 3.7 mm							
		Diameter 75 mm, wall thickness 8.2 mm							
		Diameter 90 mm, wall thickness 8.2 mm		50 x 8 mm	240	240			
		Diameter 110 mm, wall thickness 8.2 mm							
		Diameter 114.3 mm, wall thickness 6.2 mm							
		Diameter 125 mm, wall thickness 6.2 mm		60 x 18 mm	180	180			
		Diameter 140 mm, wall thickness 6.2 mm							
		Diameter 160 mm, wall thickness 6.2 mm							
		Diameter 160 mm, wall thickness 6.2 mm							
		MCLP pipe according to ISO 21003 / DIN16836							
		Diameter 16 mm, wall thickness 2 mm	Soffit	50 x 4 mm	None	240	240		
		Diameter 40 mm, wall thickness 4 mm							
		PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1							
		Diameter 110 mm, wall thickness 3.2 mm	Recessed/ cast-in flush to the soffit	50 x 8 mm 125 x 20 mm	None	90	90		
		Diameter 200 mm, wall thickness 3.9 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 FX500 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 mm	PVC-U pipe according to EN 1329-1, EN 1452-2 and EN 1453-1					60	60
		Diameter 200 mm, wall thickness 10.6 mm	Soffit	60 x 26 mm	None			
		Diameter 225 mm, wall thickness 10.6 mm						
		Diameter 250 mm, wall thickness 10.6 mm		130 x 24 mm				
		Diameter 200 mm, wall thickness 10.6 mm						
		Diameter 225 mm, wall thickness 10.6 mm		130 x 32 mm		120	120	
		Diameter 250 mm, wall thickness 10.6 mm						
		Diameter 315 mm, wall thickness 12.1 mm		130 x 40 mm		60	60	
		Diameter 400 mm, wall thickness 3.2 mm						
		Steel pipe, with Continuous Sustained (CS) K-Flex ST insulation					240 [^]	240 [^]
Diameter 219.1 mm, wall thickness 6.4-14.2	Soffit	130 x 32 mm		19 mm insulation		120 ^s		

All pipe classifications are pipe end configuration U/U, C/U, U/C, C/C (U=Uncapped, C=Capped) (except where indicated otherwise)

[^] pipe classifications are pipe end configuration U/C, C/C (U=Uncapped, C=Capped)

^{\$} pipe classifications are pipe end configuration 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, XPLE insulation, EVA sheath

C3 cables – 4 x 95 mm² core, XPLE 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						
		Diameter 20-40 mm, wall thickness 3 mm	Cast into soffit	None	50 x 1.8 mm	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						
		Diameter 20-40 mm, wall thickness 3.7 mm	Cast into soffit	None	50 x 1.8 mm	240	240	
		Diameter 20-55 mm, wall thickness 2 mm						
		Diameter 20-110 mm, wall thickness 6.6 mm			50 x 3.6 mm			
		Diameter 20-125 mm, wall thickness 6.2						
		Copper/steel [®]						
		Diameter 25 mm, wall thickness 2-14.2 mm	Both Sides		50 x 1.8 mm	25 mm Armaflex [§]	240	240

* 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



Appendix UL-EU Certificate

Certification Mark	UL-EU mark
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