

UL-EU CERTIFICATE

Certificate No. UL-EU-00913-CPR
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Date of Issue 2015-10-09
Revised 2017-08-14

Certificate Holder Polyseam AS
Ravneveien 7
Linnestad Næringsområde
N-3174 Revetal
Norway

Manufacturer A/007

Certified Product Type Fire Stop – Pipe Collar
Product Trade Name Protecta FR Collar
Trademark N/A

Rating/Classification See Appendix

Harmonised Technical Specifications ETAG 026-2 / EN 13501-2
Supporting Documentation ETA 14/0249, EC – CERTIFICATE OF CONSTANCY OF
PERFORMANCE - 0843 – CPR – 0204, Classification
Report No. 4787998110

Additional information N/A
Expiry date 2025-10-08



A handwritten signature in purple ink, appearing to read 'Chris Miles', is located to the left of the Head of Notified Body section.

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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Protecta FR Collar 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 products are certificated on the basis of:

- ii) ETA 14/0249
- iii) EC – CERTIFICATE OF CONSTANCY OF PERFORMANCE 0843 – CPR – 0204
- iv) Classification report No. 4787998110
- v) Inspection and surveillance of factory production control by UL
- vi) Fire resistance test data in accordance with EN 1366-3: 2009
- vii) Classification in accordance with EN 13501-2
- viii) Durability and Servicability as defined in ETAG 026-2

The durability class of Protecta FR Collar is Z_2 - intended for use at internal conditions with humidity classes other than Z_1 , excluding temperatures below 0°C.

The Protecta FR Collar may be supplied with powder coated steel or stainless steel shells.



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Product-type: Protecta FR Collar		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	Performance not assessed
EN 13501-2	Resistance to fire	See pages 4 - 12
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	R _w (C;C _{tr}): 58(-1;-7)
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	Z ₂
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	PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1								
		Diameter 32 mm, wall thickness 1.2-3.7 mm*	Both Sides	None	30 x 3.0 mm	90	60			
		Diameter 40 mm, wall thickness 1.2-3.7 mm*								
		Diameter 50 mm, wall thickness 1.2-3.7 mm*								
		Diameter 55 mm, wall thickness 2.7-6.6 mm*								
		Diameter 63 mm, wall thickness 2.7-6.6 mm*								
		Diameter 75 mm, wall thickness 2.7-6.6 mm*								
		Diameter 82 mm, wall thickness 2.7-6.6 mm*								
		Diameter 90 mm, wall thickness 2.7-6.6 mm*								
		Diameter 110 mm, wall thickness 2.7-6.6 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*	90	90						
		Diameter 32 mm, wall thickness 2.4-4.6 mm**	Both Sides	None	30 x 3.0 mm	90	60			
		Diameter 40 mm, wall thickness 2.4-4.6 mm**								
		Diameter 50 mm, wall thickness 2.4-4.6 mm**								
		Diameter 55 mm, wall thickness 2.7-6.6 mm**								
		Diameter 63 mm, wall thickness 2.7-6.6 mm**								
		Diameter 75 mm, wall thickness 2.7-6.6 mm**								
		Diameter 82 mm, wall thickness 2.7-6.6 mm**								
		Diameter 90 mm, wall thickness 2.7-6.6 mm**								
		Diameter 110 mm, wall thickness 2.7-6.6 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**						60	60	
		Diameter 315 mm, wall thickness 9.2 mm***						75 x 18 mm	60	60

All pipe classifications marked ‘**’ are pipe end configuration U/C and C/C - U=Uncapped, C=Capped
 All pipe classifications marked ‘***’ are pipe end configuration U/U, C/U, U/C and 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	PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1						
		Diameter 32 mm, wall thickness 3.0-5.6 mm*	Both Sides	None	30 x 3.0 mm	90	60	
		Diameter 40 mm, wall thickness 3.0-5.6 mm*			30 x 3.2 mm			
		Diameter 50 mm, wall thickness 3.0-5.6 mm*			30 x 3.6 mm			
		Diameter 55 mm, wall thickness 3.4-10.0 mm*			30 x 4.2 mm			
		Diameter 63 mm, wall thickness 3.4-10.0 mm*			30 x 4.6 mm			
		Diameter 75 mm, wall thickness 3.4-10.0 mm*			30 x 5.0 mm	60	60	
		Diameter 82 mm, wall thickness 3.4-10.0 mm*			30 x 6.0 mm			
		Diameter 90 mm, wall thickness 3.4-10.0 mm*			50 x 9.0 mm			
		Diameter 110 mm, wall thickness 3.4-10.0 mm*			50 x 11.5 mm			
		Diameter 125 mm, wall thickness 6.2-9.5 mm*			50 x 15.0 mm			
		Diameter 140 mm, wall thickness 6.2-9.5 mm*	None	None	30 x 3.0 mm			
		Diameter 160 mm, wall thickness 6.2-9.5 mm*			50 x 3.2 mm			
		Diameter 32 mm, wall thickness 3.0-4.6 mm**			50 x 3.6 mm	90	45	
		Diameter 40 mm, wall thickness 3.0-4.6 mm**			50 x 4.2 mm			
		Diameter 50 mm, wall thickness 3.0-4.6 mm**			50 x 4.6 mm			
		Diameter 55 mm, wall thickness 3.4-10.0 mm**			50 x 5.0 mm			
		Diameter 63 mm, wall thickness 3.4-10.0 mm**			50 x 6.0 mm			
		Diameter 75 mm, wall thickness 3.4-10.0 mm**			60 x 9.0 mm	90	60	
		Diameter 82 mm, wall thickness 3.4-10.0 mm**			60 x 11.5 mm			
		Diameter 90 mm, wall thickness 3.4-10.0 mm**			60 x 15.0 mm	90	90	
		Diameter 110 mm, wall thickness 3.4-10.0 mm**	75 x 10.8 mm					
		Diameter 125 mm, wall thickness 4.9-14.6 mm**	75 x 12.6 mm	60	60			
		Diameter 140 mm, wall thickness 4.9-14.6 mm**						
		Diameter 160 mm, wall thickness 4.9-14.6 mm**						
		Diameter 200 mm, wall thickness 18.2 mm***						
		Diameter 250 mm, wall thickness 22.7 mm***						

All pipe classifications marked ‘*’ are pipe end configuration U/C and 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	PP pipe according to EN 1451-1					None				
		Diameter 32 mm, wall thickness 3.0-5.6 mm*	Both Sides	30 x 3.0 mm	90	60					
		Diameter 40 mm, wall thickness 3.0-5.6 mm*									
		Diameter 50 mm, wall thickness 3.0-5.6 mm*									
		Diameter 55 mm, wall thickness 3.4-6.3 mm*							30 x 3.2 mm	90	60
		Diameter 63 mm, wall thickness 3.4-6.3 mm*									
		Diameter 75 mm, wall thickness 3.4-6.3 mm*									
		Diameter 82 mm, wall thickness 3.4-6.3 mm*									
		Diameter 90 mm, wall thickness 3.4-6.3 mm*							30 x 4.2 mm	90	60
		Diameter 110 mm, wall thickness 3.4-6.3 mm*									
		Diameter 125 mm, wall thickness 4.9-14.6 mm*							30 x 4.6 mm	90	60
		Diameter 140 mm, wall thickness 4.9-14.6 mm*									
		Diameter 160 mm, wall thickness 4.9-14.6 mm*		30 x 5.0 mm	90	60					
		Diameter 32 mm, wall thickness 1.8-4.6 mm**									
		Diameter 40 mm, wall thickness 1.8-4.6 mm**		30 x 3.0 mm	90	60					
		Diameter 50 mm, wall thickness 1.8-4.6 mm**									
		Diameter 55 mm, wall thickness 3.4-6.6 mm**		50 x 3.2 mm	90	60					
		Diameter 63 mm, wall thickness 3.4-6.6 mm**									
		Diameter 75 mm, wall thickness 3.4-6.6 mm**		50 x 3.6 mm	90	60					
		Diameter 82 mm, wall thickness 3.4-6.6 mm**									
		Diameter 90 mm, wall thickness 3.4-6.6 mm**		50 x 4.2 mm	90	60					
		Diameter 110 mm, wall thickness 3.4-6.6 mm**									
		Diameter 125 mm, wall thickness 4.9-14.6 mm**		50 x 4.6 mm	90	60					
		Diameter 140 mm, wall thickness 4.9-14.6 mm**									
Diameter 160 mm, wall thickness 4.9-14.6 mm**	50 x 5.0 mm	90		60							
Diameter 32 mm, wall thickness 1.8-4.6 mm**											
Diameter 40 mm, wall thickness 1.8-4.6 mm**	50 x 6.0 mm	90	60								
Diameter 50 mm, wall thickness 1.8-4.6 mm**											
Diameter 55 mm, wall thickness 3.4-6.6 mm**	60 x 9.0 mm	60	60								
Diameter 63 mm, wall thickness 3.4-6.6 mm**											
Diameter 75 mm, wall thickness 3.4-6.6 mm**	60 x 11.5 mm	60	60								
Diameter 82 mm, wall thickness 3.4-6.6 mm**											
Diameter 90 mm, wall thickness 3.4-6.6 mm**	60 x 15.0 mm	60	60								
Diameter 110 mm, wall thickness 3.4-6.6 mm**											
Diameter 125 mm, wall thickness 4.9-14.6 mm**											
Diameter 140 mm, wall thickness 4.9-14.6 mm**											
Diameter 160 mm, wall thickness 4.9-14.6 mm**											

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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service Insulation	Fire Resistance (mins.)		
						E	EI	
Concrete/ Masonry	150	PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1						
		Diameter 32 mm, wall thickness 2.0-3.7 mm**	Both Sides	50 x 3.0 mm	None	240	180	
		Diameter 40 mm, wall thickness 2.0-3.7 mm**						
		Diameter 50 mm, wall thickness 2.0-3.7 mm**						
		Diameter 55 mm, wall thickness 2.7-6.6 mm**						
		Diameter 63 mm, wall thickness 2.7-6.6 mm**		50 x 3.2 mm	180	180		
		Diameter 75 mm, wall thickness 2.7-6.6 mm**		50 x 3.6 mm				
		Diameter 82 mm, wall thickness 2.7-6.6 mm**		50 x 4.2 mm				
		Diameter 90 mm, wall thickness 2.7-6.6 mm**		50 x 4.6 mm				
		Diameter 110 mm, wall thickness 2.7-6.6 mm**		50 x 5.0 mm	240	240		
		Diameter 125 mm, wall thickness 4.0-9.5 mm**		50 x 6.0 mm				
		Diameter 140 mm, wall thickness 4.0-9.5 mm**		60 x 9.0 mm				
		Diameter 160 mm, wall thickness 4.0-9.5 mm**		60 x 11.5 mm				
		Diameter 315 mm, wall thickness 9.2 mm***			60 x 15.0 mm	120	120	
		75 x 18 mm						

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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service Insulation	Fire Resistance (mins.)					
						E	EI				
Concrete/ Masonry	150	PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1									
		Diameter 32 mm, wall thickness 3.0-4.6 mm**	Both Sides	None	50 x 3.0 mm	None	240	240			
		Diameter 40 mm, wall thickness 3.0-4.6 mm**									
		Diameter 50 mm, wall thickness 3.0-4.6 mm**									
		Diameter 55 mm, wall thickness 3.4mm**					50 x 3.2 mm	240	180		
		Diameter 63 mm, wall thickness 3.4 mm**					50 x 3.6 mm				
		Diameter 75 mm, wall thickness 3.4mm**					50 x 4.2 mm				
		Diameter 82 mm, wall thickness 3.4 mm**					50 x 4.6 mm				
		Diameter 90 mm, wall thickness 3.4 mm**					50 x 5.0 mm				
		Diameter 110 mm, wall thickness 3.4 mm**					50 x 6.0 mm				
		Diameter 125 mm, wall thickness 4.9-9.5 mm**					60 x 9.0 mm			180	180
		Diameter 140 mm, wall thickness 4.9-9.5 mm**					60 x 11.5 mm				
		Diameter 160 mm, wall thickness 4.9-9.5 mm**					60 x 15.0 mm				
		Diameter 200 mm, wall thickness 18.2 mm***					75 x 10.8 mm				
Diameter 250 mm, wall thickness 22.7 mm***	75 x 12.6 mm	120					90				

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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service Insulation	Fire Resistance (mins.)			
						E	EI		
Concrete/ Masonry	150	PP pipe according to EN 1451-1							
		Diameter 32 mm, wall thickness 1.6-5.5 mm*	Both Sides	None	50 x 3.0 mm	240	240		
		Diameter 40 mm, wall thickness 1.6-5.5 mm*							
		Diameter 50 mm, wall thickness 1.6-5.5 mm*							
		Diameter 55 mm, wall thickness 2.7-10.0 mm*							
		Diameter 63 mm, wall thickness 2.7-10.0 mm*							
		Diameter 75 mm, wall thickness 2.7-10.0 mm*							
		Diameter 82 mm, wall thickness 2.7-10.0 mm*							
		Diameter 90 mm, wall thickness 2.7-10.0 mm*							
		Diameter 110 mm, wall thickness 2.7-10.0 mm*							
		Diameter 125 mm, wall thickness 4.9-14.6 mm*							
		Diameter 140 mm, wall thickness 4.9-14.6 mm*	240	180					
		Diameter 160 mm, wall thickness 4.9-14.6 mm*							
		Diameter 32 mm, wall thickness 1.6-5.5 mm**	Both Sides	None	30 x 3.0 mm	240	240		
		Diameter 40 mm, wall thickness 1.6-5.5 mm**							
		Diameter 50 mm, wall thickness 1.6-5.5 mm**							
		Diameter 55 mm, wall thickness 2.7-10.0 mm**							
		Diameter 63 mm, wall thickness 2.7-10.0 mm**							
		Diameter 75 mm, wall thickness 2.7-10.0 mm**							
		Diameter 82 mm, wall thickness 2.7-10.0 mm**							
		Diameter 90 mm, wall thickness 2.7-10.0 mm**							
		Diameter 110 mm, wall thickness 2.7-10.0 mm**							
		Diameter 125 mm, wall thickness 4.9-14.6 mm**							
		Diameter 140 mm, wall thickness 4.9-14.6 mm**	240	60					
		Diameter 160 mm, wall thickness 4.9-14.6 mm**							
		Diameter 32 mm, wall thickness 1.6-5.5 mm**	Both Sides	None	60 x 9.0 mm	240	180		
Diameter 40 mm, wall thickness 1.6-5.5 mm**									
Diameter 50 mm, wall thickness 1.6-5.5 mm**									
Diameter 55 mm, wall thickness 2.7-10.0 mm**									
Diameter 63 mm, wall thickness 2.7-10.0 mm**									
Diameter 75 mm, wall thickness 2.7-10.0 mm**									
Diameter 82 mm, wall thickness 2.7-10.0 mm**									
Diameter 90 mm, wall thickness 2.7-10.0 mm**									
Diameter 110 mm, wall thickness 2.7-10.0 mm**									
Diameter 125 mm, wall thickness 4.9-14.6 mm**									
Diameter 140 mm, wall thickness 4.9-14.6 mm**	240	180							
Diameter 160 mm, wall thickness 4.9-14.6 mm**									

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Protecta FR Collar: Service Penetration Seals in Concrete Floors															
Substrate	Minimum Wall 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 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1					120	120							
		Diameter 32 mm, wall thickness 2.0-3.7 mm*	Soffit	None	50 x 3.0 mm										
		Diameter 40 mm, wall thickness 2.0-3.7 mm*			50 x 3.2 mm										
		Diameter 50 mm, wall thickness 2.0-3.7 mm*			50 x 3.6 mm										
		Diameter 55 mm, wall thickness 6.3 mm*			50 x 4.2 mm										
		Diameter 63 mm, wall thickness 6.3 mm*			50 x 4.6 mm										
		Diameter 75 mm, wall thickness 6.3 mm*			50 x 5.0 mm										
		Diameter 82 mm, wall thickness 6.3 mm*			50 x 6.0 mm										
		Diameter 90 mm, wall thickness 6.3 mm*			60 x 9.0 mm										
		Diameter 110 mm, wall thickness 6.3 mm*			60 x 11.5 mm										
		Diameter 125 mm, wall thickness 4.0-9.5 mm*			60 x 15.0 mm										
		Diameter 140 mm, wall thickness 4.0-9.5 mm*			50 x 15.0 mm										
		Diameter 160 mm, wall thickness 4.0-9.5 mm*			30 x 3.0 mm										
		Diameter 160 mm, wall thickness 3.2-9.5 mm*				60			90						
		Diameter 32 mm, wall thickness 1.9-3.7 mm**					30 x 3.2 mm	60							
		Diameter 40 mm, wall thickness 1.9-3.7 mm**	30 x 3.6 mm												
		Diameter 50 mm, wall thickness 2.0-3.7 mm**		30 x 4.2 mm											
		Diameter 55 mm, wall thickness 3.2-6.6 mm**								30 x 4.6 mm					
		Diameter 63 mm, wall thickness 3.2-6.6 mm**									30 x 5.0 mm				
		Diameter 75 mm, wall thickness 3.2-6.6 mm**										30 x 6.0 mm			
		Diameter 82 mm, wall thickness 3.2-6.6 mm**											60 x 9.0 mm		
		Diameter 90 mm, wall thickness 3.2-6.6 mm**												60 x 11.5 mm	
		Diameter 110 mm, wall thickness 3.2-6.6 mm**													60 x 15.0 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**													

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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service Insulation	Fire Resistance (mins.)				
						E	EI			
Concrete	150	PE pipe according to EN 1519-1, EN 12201-2 and EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1					120	120		
		Diameter 32 mm, wall thickness 3.0-4.6 mm*	Soffit	50 x 3.0 mm	None					
		Diameter 40 mm, wall thickness 3.0-4.6 mm*								
		Diameter 50 mm, wall thickness 3.0-4.6 mm*								
		Diameter 55 mm, wall thickness 3.4-10.0 mm*				50 x 3.2 mm				
		Diameter 63 mm, wall thickness 3.4-10.0 mm*				50 x 3.6 mm				
		Diameter 75 mm, wall thickness 3.4-10.0 mm*				50 x 4.2 mm				
		Diameter 82 mm, wall thickness 3.4-10.0 mm*				50 x 4.6 mm				
		Diameter 90 mm, wall thickness 3.4-10.0 mm*				50 x 5.0 mm				
		Diameter 110 mm, wall thickness 3.4-10.0 mm*				50 x 6.0 mm				
		Diameter 125 mm, wall thickness 4.9-14.7 mm*				50 x 9.0 mm				
		Diameter 140 mm, wall thickness 4.9-14.7 mm*				50 x 11.5 mm				
		Diameter 160 mm, wall thickness 4.9-14.7 mm*				50 x 15.0 mm			180	120
		Diameter 32 mm, wall thickness 3.0-4.6 mm**				Soffit			30 x 3.0 mm	None
		Diameter 40 mm, wall thickness 3.0-4.6 mm**								
		Diameter 50 mm, wall thickness 3.0-4.6 mm**								
		Diameter 55 mm, wall thickness 3.4-10.0 mm**	50 x 3.2 mm							
		Diameter 63 mm, wall thickness 3.4-10.0 mm**	50 x 3.6 mm							
		Diameter 75 mm, wall thickness 3.4-10.0 mm**	50 x 4.2 mm							
		Diameter 82 mm, wall thickness 3.4-10.0 mm**	50 x 4.6 mm							
		Diameter 90 mm, wall thickness 3.4-10.0 mm**	50 x 5.0 mm							
		Diameter 110 mm, wall thickness 3.4-10.0 mm**	50 x 6.0 mm							
		Diameter 125 mm, wall thickness 4.9-14.6 mm**	60 x 9.0 mm							
		Diameter 140 mm, wall thickness 4.9-14.6 mm**	60 x 11.5 mm							
		Diameter 160 mm, wall thickness 4.9-14.6 mm**	60 x 15.0 mm	60	60					

All pipe classifications marked ‘*’ are pipe end configuration U/C and C/C - U=Uncapped, C=Capped
 All pipe classifications marked ‘**’ are pipe end configuration U/U, C/U, U/C and C/C - U=Uncapped, C=Capped



Appendix UL-EU CERTIFICATE

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Protecta FR Collar: Service Penetration Seals in Concrete Floors												
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Service Insulation	Fire Resistance (mins.)						
						E	EI					
Concrete	150	PP pipe according to EN 1451-1										
		Diameter 32 mm, wall thickness 1.9-2.9 mm*	Soffit	30 x 3.0 mm	None	120			120			
		Diameter 40 mm, wall thickness 1.9-2.9 mm*										
		Diameter 50 mm, wall thickness 1.9-2.9 mm*										
		Diameter 55 mm, wall thickness 2.7-6.6 mm*								50 x 3.2 mm		
		Diameter 63 mm, wall thickness 2.7-6.6 mm*										
		Diameter 75 mm, wall thickness 2.7-6.6 mm*										
		Diameter 82 mm, wall thickness 2.7-6.6 mm*										
		Diameter 90 mm, wall thickness 2.7-6.6 mm*										
		Diameter 110 mm, wall thickness 2.7-6.6 mm*										
		Diameter 125 mm, wall thickness 9.5-14.6 mm*								50 x 9.0 mm	60	60
		Diameter 140 mm, wall thickness 9.5-14.6 mm*										
		Diameter 160 mm, wall thickness 9.5-14.6 mm*										
		Diameter 125 mm, wall thickness 4.9-14.6 mm*		60 x 9.0 mm	120	120						
		Diameter 140 mm, wall thickness 4.9-14.6 mm*										
		Diameter 160 mm, wall thickness 4.9-14.6 mm*										
		Diameter 32 mm, wall thickness 1.8-4.6 mm**		30 x 3.0 mm	60	60						
		Diameter 40 mm, wall thickness 1.8-4.6 mm**										
		Diameter 50 mm, wall thickness 1.8-4.6 mm**										
		Diameter 55 mm, wall thickness 2.7-6.6 mm**							50 x 3.2 mm			
		Diameter 63 mm, wall thickness 2.7-6.6 mm**										
		Diameter 75 mm, wall thickness 2.7-6.6 mm**										
		Diameter 82 mm, wall thickness 2.7-6.6 mm**										
		Diameter 90 mm, wall thickness 2.7-6.6 mm**										
Diameter 110 mm, wall thickness 2.7-6.6 mm**												

All pipe classifications marked ‘*’ are pipe end configuration U/C and C/C - U=Uncapped, C=Capped
 All pipe classifications marked ‘**’ are pipe end configuration U/U, C/U, U/C and C/C - U=Uncapped, C=Capped



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 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.

27-CP-F0855 Issue: 1.0

