

UL-EU CERTIFICATE

Certificate No. UL-EU-01137-CPR
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Date of Issue 2020-04-29

Certificate Holder Bostik BV
Denariusstraat 11
4903 RC Oosterhout
The Netherlands

Manufacturer A/003

Certified Product Type Fire Stop - Pipe Collar
Product Trade Name Bostik FP 330 Pipe Collar
Trademark N/A
Rating/Classification See Appendix

Expiry date 2030-04-28



A handwritten signature in blue ink, appearing to read 'Chris Miles'.

Authorized Certification Decision Maker
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shall remain valid through the Expiration date, unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.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 Bostik FP 330 Pipe Collar for fire stopping where there are service penetrations through floors and walls. The detailed scope is given in pages 3 to 23 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) Inspection and surveillance of factory production control by UL
- ii) Fire resistance test data in accordance with EN 1366-3: 2009
- iii) Classification in accordance with EN 13501-2
- iv) Durability and Servicability as defined in EAD 350454-00-1104

The durability class of Bostik FP 330 Pipe Collar is Z₂ - intended for use at internal conditions with humidity classes other than Z₁, excluding temperatures below 0°C.

The Bostik FP 330 Pipe Collar may be supplied with powder coated steel or stainless steel shells.



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Product-type: Pipe Collar		Intended use: Penetration Seal
Assessment method	Essential characteristic	Product Performance
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 - 23
BWR 3 Hygiene, health and environment		
EN 1026	Air permeability	No performance determined
EAD 350454-00-1104, Annex C	Water permeability	No performance determined
Declaration of manufacturer & EN 16516	Content, emission and/or 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
EAD 350454-00-1104, Clause 2.2.9	Durability	Z ₂
BWR 5 Protection against noise		
EN 10140-1,2,4,5/ EN ISO 717-1	Airborne sound insulation	R _w (C;Ctr): 58 (-1;-7)
BWR 6 Energy economy and heat retention		
EN 12664, EN 12667, EN 12939, EN ISO 8990, EN ISO 6946, EN ISO 14683, EN ISO 10211, EN ISO 10456	Thermal properties	No performance determined
EN ISO 12572, EN 12086, EN ISO 10456	Water vapour permeability	No performance determined



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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	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	30 x 3.0 mm	90	60				
		Diameter 40 mm, wall thickness 1.2-3.7 mm*								
		Diameter 50 mm, wall thickness 1.2-4.6 mm*								
		Diameter 55 mm, wall thickness 1.3-4.7 mm*								
		Diameter 63 mm, wall thickness 1.5-5.0 mm*								
		Diameter 75 mm, wall thickness 1.8-5.4 mm*								
		Diameter 82 mm, wall thickness 2.0-5.6 mm*								
		Diameter 90 mm, wall thickness 2.2-5.9 mm*								
		Diameter 110 mm, wall thickness 2.7-6.6 mm*								
		Diameter 110 mm, wall thickness 2.7-6.6 mm**								
		Diameter 125 mm, wall thickness 2.9-7.4 mm**	90	50 x 6.0 mm	60	60				
		Diameter 140 mm, wall thickness 3.0-8.3 mm**								
		Diameter 160 mm, wall thickness 3.2-9.5 mm*								
		Diameter 32 mm, wall thickness 2.4-4.6 mm**								
		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 2.5-4.7 mm**								
		Diameter 63 mm, wall thickness 2.5-5.0 mm**								
		Diameter 75 mm, wall thickness 2.6-5.4 mm**								
		Diameter 82 mm, wall thickness 2.6-5.6 mm**								
		Diameter 90 mm, wall thickness 2.6-5.9 mm**	90	50 x 6.0 mm	60	60				
		Diameter 110 mm, wall thickness 2.7-6.6 mm**								
		Diameter 110 mm, wall thickness 2.7-6.6 mm**								
		Diameter 125 mm, wall thickness 2.9-7.4 mm**								
		Diameter 140 mm, wall thickness 3.0-8.3 mm**								
		Diameter 160 mm, wall thickness 3.2-9.5 mm**								
		Diameter 315 mm, wall thickness 9.2 mm~								
							60	50 x 3.2 mm	60	60
	60	50 x 3.6 mm	60	60						
					60	30 x 4.2 mm	60	60		
	60	30 x 4.6 mm	60	60						
					60	30 x 5.0 mm	60	60		
	60	30 x 6.0 mm	60	60						
					60	50 x 8.8 mm	60	60		
	60	50 x 11.5 mm	60	60						
					60	50 x 15.0 mm	60	60		
	60	75 x 18 mm	60	60						

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	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 3.0-4.6 mm**	Both Sides	30 x 3.0 mm	90	45		
		Diameter 40 mm, wall thickness 3.0-4.6 mm**						
		Diameter 50 mm, wall thickness 3.0-4.6 mm**						
		Diameter 32 mm, wall thickness 3.0-5.6 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 3.0-6.0 mm*		30 x 3.2 mm	60	60		
		Diameter 63 mm, wall thickness 3.1-6.6 mm*						
		Diameter 75 mm, wall thickness 3.2-7.5 mm*						
		Diameter 82 mm, wall thickness 3.2-8.0 mm*						
		Diameter 90 mm, wall thickness 3.3-8.6 mm*						
		Diameter 110 mm, wall thickness 3.4-10.0 mm*						
		Diameter 110 mm, wall thickness 3.4-10.0 mm**		50 x 6.0 mm	90	60		
		Diameter 125 mm, wall thickness 4.2-9.8 mm*						
		Diameter 140 mm, wall thickness 5.1-9.6 mm*						
		Diameter 160 mm, wall thickness 6.2-9.5 mm*						
		Diameter 32 mm, wall thickness 3.0-4.6 mm**	50 x 3.0 mm				120	90
		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 3.1-5.0 mm**		90	60			
		Diameter 63 mm, wall thickness 3.1-5.7 mm**						
		Diameter 75 mm, wall thickness 3.2-6.8 mm**						
		Diameter 82 mm, wall thickness 3.2-7.4 mm**						
		Diameter 90 mm, wall thickness 3.3-8.1 mm**						
		Diameter 110 mm, wall thickness 3.4-10.0 mm**						
		Diameter 125 mm, wall thickness 4.0-11.5 mm**		60 x 6.0 mm	90	60		
		Diameter 140 mm, wall thickness 4.4-12.8 mm**						
		Diameter 160 mm, wall thickness 4.9-14.6 mm**						
		Diameter 200 mm, wall thickness 18.2 mm~					75 x 10.8 mm	90
Diameter 250 mm, wall thickness 22.7 mm~								
		75 x 12.6 mm	60	60				

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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Fire Resistance (mins.)	
					E	EI
Gypsum board/ Masonry/ Concrete	100	PP pipe according to EN 1451-1	Both Sides	30 x 3.0 mm	90	60
		Diameter 32 mm, wall thickness 3.0-5.6 mm*				
		Diameter 40 mm, wall thickness 3.0-5.6 mm*				
		Diameter 50 mm, wall thickness 3.0-5.6 mm*		30 x 3.0 mm	90	60
		Diameter 32 mm, wall thickness 1.8-4.6 mm**				
		Diameter 40 mm, wall thickness 1.8-4.6 mm**				
		Diameter 50 mm, wall thickness 1.8-4.6 mm**		30 x 3.0 mm	90	60
		Diameter 50 mm, wall thickness 1.8-5.6 mm*				
		Diameter 55 mm, wall thickness 2.0-5.7 mm*				
		Diameter 63 mm, wall thickness 2.2-5.8 mm*		30 x 3.6 mm	90	60
		Diameter 75 mm, wall thickness 2.5-5.9 mm*				
		Diameter 82 mm, wall thickness 2.7-6.0 mm*				
		Diameter 90 mm, wall thickness 2.9-6.1 mm*		30 x 4.2 mm	90	60
		Diameter 110 mm, wall thickness 3.4-6.3 mm*				
		Diameter 50 mm, wall thickness 1.8-5.6 mm*				
		Diameter 55 mm, wall thickness 2.0-6.0 mm*		30 x 5.0 mm	90	60
		Diameter 63 mm, wall thickness 2.2-6.6 mm*				
		Diameter 75 mm, wall thickness 2.5-7.6 mm*				
		Diameter 82 mm, wall thickness 2.7-8.2 mm*		30 x 6.0 mm	90	60
		Diameter 90 mm, wall thickness 2.9-8.9 mm*				
		Diameter 110 mm, wall thickness 3.4-10.5 mm*				
		Diameter 125 mm, wall thickness 3.8-11.7 mm*		50 x 3.0 mm	60	60
		Diameter 140 mm, wall thickness 4.2-12.9 mm*				
		Diameter 160 mm, wall thickness 4.9-14.6 mm*				
		Diameter 50 mm, wall thickness 1.8-4.6 mm**		50 x 3.2 mm	90	60
		Diameter 55 mm, wall thickness 2.0-4.7 mm**				
		Diameter 63 mm, wall thickness 2.2-5.0 mm**				
		Diameter 75 mm, wall thickness 2.5-5.4 mm**		50 x 3.6 mm	90	60
		Diameter 82 mm, wall thickness 2.7-5.6 mm**				
		Diameter 90 mm, wall thickness 2.9-5.9 mm**				
		Diameter 110 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 3.9-9.0 mm**				
Diameter 140 mm, wall thickness 4.4-11.4 mm**	50 x 4.6 mm	90	60			
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 125 mm, wall thickness 3.9-9.0 mm**	50 x 5.0 mm	90	60			
Diameter 140 mm, wall thickness 4.4-11.4 mm**						
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 140 mm, wall thickness 4.4-11.4 mm**	50 x 5.0 mm	90	60			
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 140 mm, wall thickness 4.4-11.4 mm**	50 x 6.0 mm	90	60			
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 140 mm, wall thickness 4.4-11.4 mm**	60 x 6.0 mm	90	60			
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 140 mm, wall thickness 4.4-11.4 mm**	60 x 9.0 mm	90	60			
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 140 mm, wall thickness 4.4-11.4 mm**	60 x 11.5 mm	90	60			
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 140 mm, wall thickness 4.4-11.4 mm**	60 x 15.0 mm	90	60			
Diameter 160 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	Fire Resistance (mins.)			
					E	EI		
Gypsum board/ Masonry/ Concrete	100	Wavin SiTech + PP-M B according to EN 13501-1						
		32-40 mm diameter/ 1.8 mm wall thickness*	Both Sides	50 x 3.0 mm	120	120		
		50 mm diameter/ 1.8 mm wall thickness *		50 x 3.2 mm				
		75 mm diameter/ 1.8-2.5 mm wall thickness*		50 x 4.2 mm	120	60		
		90 mm diameter/ 1.8-2.9 mm wall thickness*		50 x 5.0 mm				
		110 mm diameter/ 1.8-3.4 mm wall thickness *		50 x 6.0 mm				
		Aquatherm Green SDR9 MF PP-RP according to ISO 21003						
		32 mm diameter/3.0-5.6 mm wall thickness**	Both Sides	30 x 3.0 mm	120	120		
		40 mm diameter/3.0-5.6 mm wall thickness**		50 x 3.0 mm				
		50 mm diameter/3.0-5.6 mm wall thickness**		50 x 3.2 mm				
		63 diameter/3.6-7.0 mm wall thickness**		50 x 3.6 mm	120	60		
		75 diameter/4.1-8.4 mm wall thickness**		50 x 4.2 mm				
		90 diameter/4.7-10.1 mm wall thickness**		50 x 5.0 mm				
		110 diameter/5.6-12.3 mm wall thickness**		50 x 6.0 mm				
		Geberit Silent PP according to DIN 4102						
		32-50 mm diameter/ 1.8 mm wall thickness*	Both Sides	50 x 3.0 mm	120	120		
		75 mm diameter/1.8-2.5 mm wall thickness*		50 x 4.2 mm	120	60		
		90 mm diameter/1.8-2.9 mm wall thickness*		50 x 5.0 mm				
		110 mm diameter/1.8-3.4 mm wall thickness*		50 x 6.0 mm				
		Polo-Kal NG Poloplast PP-MV according to DIN 4102						
		32-40 mm diameter/1.8-2.0 mm wall thickness*	Both Sides	50 x 3.0 mm	120	120		
		50 mm diameter/1.8-2.0 mm wall thickness*		50 x 3.2 mm				
		75 mm diameter/1.9-2.6 mm wall thickness*		50 x 4.2 mm	120	90		
		90 mm diameter/1.9-2.9 mm wall thickness*		50 x 5.0 mm				
		110 mm diameter/2.0-3.4 wall thickness*		50 x 6.0 mm				
		Diameter 125 mm, wall thickness 3.9 mm*		60 x 9.0 mm	120	120		
		Diameter 160 mm, wall thickness 4.9 mm*		60 x 15 mm	120	120		
		Rehau Raupiano Plus PP-DD according to DIN 4102						
		40 mm diameter/1.8 mm wall thickness*	Both Sides	50 x 3.0 mm	120	90		
		50 mm diameter/1.8 mm wall thickness*		50 x 3.2 mm				
		75 mm diameter/1.8-2.2 mm wall thickness*		50 x 4.2 mm	120	60		
		90 mm diameter/1.8-2.4 mm wall thickness*		50 x 5.0 mm				
		110 mm diameter/1.8-2.7 mm wall thickness*		50 x 6.0 mm				
		Diameter 125 mm, wall thickness 3.1 mm*		60 x 9.0 mm	120	120		
		Diameter 160 mm, wall thickness 3.9 mm*		60 x 15.0 mm				

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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Fire Resistance (mins.)	
					E	EI
Gypsum board/ Masonry/ Concrete	100	BluePower Multilayer pipe – TR02-PP according to EN 1451-1				
		32-40 mm diameter/1.8 mm wall thickness**	Both Sides	50 x 3.0 mm	120	90
		50 mm diameter/1.8 mm wall thickness**		50 x 3.2 mm		
		75 mm diameter/1.8-2.5 mm wall thickness*		50 x 4.2 mm		
		90 mm diameter/1.8-2.9 mm wall thickness*		50 x 5.0 mm	120	60
		110 mm diameter/1.8-3.4 mm wall thickness*	50 x 6.0 mm			
		125 mm diameter/2.3-3.8 mm wall thickness*	60 x 9.0 mm	60	60	
		160 mm diameter/3.4-4.9 mm wall thickness*	60 x 15.0 mm	90	90	

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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Fire Resistance (mins.)		
					E	EI	
Gypsum board/ Masonry/ Concrete	120	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 32-50 mm, wall thickness 2.4-3.7 mm	Both Sides	50 x 3.0 mm			
		Diameter 55 mm, wall thickness 2.4-3.9 mm		50 x 3.2 mm			
		Diameter 63 mm, wall thickness 2.5-4.3 mm		50 x 3.6 mm			
		Diameter 75 mm, wall thickness 2.5-4.9 mm		50 x 4.2 mm			
		Diameter 82 mm, wall thickness 2.6-5.2 mm		50 x 4.6 mm			
		Diameter 90 mm, wall thickness 2.6-5.6 mm		50 x 5.0 mm			
		Diameter 110 mm, wall thickness 2.7-6.6 mm		50 x 6.0 mm			
		Diameter 125 mm, wall thickness 3.1-7.5 mm		60 x 8.8 mm			
		Diameter 140 mm, wall thickness 3.5-8.4 mm		60 x 11.5 mm			
		Diameter 160 mm, wall thickness 4.0-9.5 mm		60 x 15.0 mm			
		Diameter 50 mm, wall thickness 2.4 mm #		60 x 15.0 mm	90	90	
		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	90
		Diameter 32-50 mm, wall thickness 3.0-4.6 mm	Both Sides	50 x 3.0 mm			
		Diameter 55 mm, wall thickness 3.1-5.0 mm		50 x 3.2 mm			
		Diameter 63 mm, wall thickness 3.1-5.7 mm		50 x 3.6 mm			
		Diameter 75 mm, wall thickness 3.2-6.8 mm		50 x 4.2 mm			
		Diameter 82 mm, wall thickness 3.2-7.5 mm		50 x 4.6 mm			
		Diameter 90 mm, wall thickness 3.3-8.2 mm		50 x 5.0 mm			
		Diameter 110 mm, wall thickness 3.4-10.0 mm		50 x 6.0 mm			
		Diameter 110 mm, wall thickness 3.4 mm		50 x 6.0 mm			
		Diameter 125 mm, wall thickness 3.9-9.8 mm		60 x 8.8 mm			
		Diameter 140 mm, wall thickness 4.4-9.7 mm		60 x 11.5 mm			
		Diameter 160 mm, wall thickness 4.9-9.5 mm		60 x 15.0 mm	90	90	
		Diameter 160 mm, wall thickness 9.5 mm	60 x 15.0 mm	120	120		
		PP pipe according to DIN 8077/8078				120	90
		Diameter 32-50 mm, wall thickness 2.9-4.6 mm	Both Sides	50 x 3.0 mm			
		Diameter 55 mm, wall thickness 2.9-5.0 mm		50 x 3.2 mm			
		Diameter 63 mm, wall thickness 2.9-5.7 mm		50 x 3.6 mm			
		Diameter 75 mm, wall thickness 2.8-6.8 mm		50 x 4.2 mm			
		Diameter 82 mm, wall thickness 2.8-7.5 mm		50 x 4.6 mm			
		Diameter 90 mm, wall thickness 2.8-8.2 mm		50 x 5.0 mm			
		Diameter 110 mm, wall thickness 2.7-10 mm		50 x 6.0 mm			
		Diameter 125 mm, wall thickness 3.3-11.3 mm		60 x 8.8 mm			
		Diameter 140 mm, wall thickness 4.0-12.8 mm		60 x 11.5 mm			
		Diameter 160 mm, wall thickness 4.9-14.6 mm		60 x 15.0 mm	120		

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 #Pipe fitted at 45° to the face of the partition in a horizontal plane



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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar	Collar Inlay	Fire Resistance (mins.)		
						E	EI	
Gypsum board/ Masonry/ Concrete	120	Cables up to 21 mm Ø, in partial or fully filled tied bundles up to 110 mm Ø (Collar internal diameter to match cable bundle size)	Both Sides	Up to 110 mm collar at 30 mm height	Between 3.0 and 6.0 mm	120	60	
		Cables up to 80 mm Ø, in partial or fully filled tied bundles up to 160 mm Ø (Collar internal diameter to match cable bundle size)		Up to 110 mm collar at 50 mm height, 125-160 mm at 60 mm height	Between 3.0 and 15.0 mm	120	60	
		None (blank). Hole behind collar to be fitted with minimum 25 mm thick stone mineral wool insulation at minimum 33 kg/m ³ .		Up to 110 mm collar at 30 mm height	Between 3.0 and 6.0 mm	120	60	
		None (blank). Hole behind collar to be fitted with minimum 25 mm thick stone mineral wool insulation at minimum 33 kg/m ³ .		160 mm collar at 60 mm height	15.0 mm	120	120	
		Uponor Aqua PEX pipe in pipe system						
	Diameter up to 25 mm pipes, wall thickness 0.6 mm, in bundles up to 55 mm	Both Sides	55 mm collar at 30 mm height	3.2 mm	120	90		



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Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar	Service Insulation	Fire Resistance (mins.)		
						E	EI	
Gypsum board/ Masonry/ Concrete	120	Copper pipe or mild steel						
		Diameter 54 mm, wall thickness 1.2 mm	Both Sides	Ø 110 x 50 x 6.0 mm	19 mm thick Elastomeric insulation minimum class B-s3,d0	120	90	
		Diameter 54 mm, wall thickness 1.2 mm		Ø 110 x 50 x 6.0 mm	25 mm thick Phenolic Foam insulation	120	60	
		Diameter 54 mm, wall thickness 1.2 mm		Ø 110 x 50 x 6.0 mm	20 mm thick PE foam insulation	120	90	

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Bostik FP 330 Pipe Collar: Service Penetration Seals Comprising 1x 50 mm Bostik FP 320 Fire Batt 2-S in Drywalls and Masonry Walls - Maximum aperture size 1200 mm x 600 mm								
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Fire Resistance (mins.)			
					E	EI		
Gypsum board/ Masonry/ Concrete	120	PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1						
		32-50 mm diameter / 1.9-3.7 mm wall thickness*	Both Sides	50 x 3.0 mm	90	60		
		55 mm, / 1.9-4.0 mm wall thickness*		50 x 3.2 mm				
		63 mm, / 2.0-4.4 mm wall thickness*		50 x 3.6 mm				
		75 mm, / 2.2-4.9 mm wall thickness*		50 x 4.2 mm				
		82 mm, / 2.3-5.3 mm wall thickness*		50 x 4.6 mm				
		90 mm, / 2.4-5.7 mm wall thickness*		50 x 5.0 mm				
		110 mm diameter / 2.7-6.6 mm wall thickness*		50 x 6.0 mm				
		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						
		32-50 mm diameter / 3.0-4.6 mm wall thickness*	Both Sides	50 x 3.0 mm	90	60		
		55 mm, / 3.0-5.2 mm wall thickness**		50 x 3.2 mm				
		63 mm, / 3.0-5.9 mm wall thickness**		50 x 3.6 mm				
		75 mm, / 3.1-6.9 mm wall thickness**		50 x 4.2 mm				
		82 mm, / 3.1-7.6 mm wall thickness**		50 x 4.6 mm				
		90 mm, / 3.2-8.3 mm wall thickness**		50 x 5.0 mm				
		110 mm, / 3.4-10.0 mm wall thickness**		50 x 6.0 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 C/C only - C=Capped



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Bostik FP 330 Pipe Collar: Service Penetration Seals in Masonry Walls								
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Fire Resistance (mins.)			
					E	EI		
Masonry/ 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				Both Sides	240	180
		Diameter 32 mm, wall thickness 2.0-3.7 mm**	50 x 3.0 mm					
		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 2.1-3.9 mm**						
		Diameter 63 mm, wall thickness 2.2-4.3 mm**						
		Diameter 75 mm, wall thickness 2.3-4.9 mm**						
		Diameter 82 mm, wall thickness 2.4-5.2 mm**						
		Diameter 90 mm, wall thickness 2.5-5.6 mm**						
		Diameter 110 mm, wall thickness 2.7-6.6 mm**						
		Diameter 125 mm, wall thickness 3.1-7.5 mm**						
		Diameter 140 mm, wall thickness 3.5-8.4 mm**						
		Diameter 160 mm, wall thickness 4.0-9.5 mm**						
		Diameter 315 mm, wall thickness 9.2 mm~		75 x 18 mm	120	120		
		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				Both Sides	240	180
		Diameter 32 mm, wall thickness 3.0-4.6 mm**	50 x 3.0 mm					
		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 3.1-4.5 mm**						
		Diameter 63 mm, wall thickness 3.1-4.3 mm**						
		Diameter 75 mm, wall thickness 3.2-4.1 mm**						
		Diameter 82 mm, wall thickness 3.3-3.9 mm**						
		Diameter 90 mm, wall thickness 3.3-3.8 mm**						
		Diameter 110 mm, wall thickness 3.4 mm**						
		Diameter 125 mm, wall thickness 3.9-5.2 mm**						
		Diameter 140 mm, wall thickness 4.3-7.0 mm**						
		Diameter 160 mm, wall thickness 4.9-9.5 mm**						
		Diameter 200 mm, wall thickness 18.2 mm~		75 x 10.8 mm	60			
Diameter 250 mm, wall thickness 22.7 mm~	75 x 12.6 mm	120		90				

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
 All pipe classifications marked ‘~’ are pipe end configuration C/C only - C=Capped



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Bostik FP 330 Pipe Collar: Service Penetration Seals in Masonry Walls								
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Fire Resistance (mins.)			
					E	EI		
Masonry/ Concrete	150	PP pipe according to EN 1451-1						
		Diameter 32 mm, wall thickness 1.6-5.5 mm*	Both Sides	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 1.7-5.9 mm*						
		Diameter 63 mm, wall thickness 1.8-6.5 mm*						
		Diameter 75 mm, wall thickness 2.1-7.3 mm*						
		Diameter 82 mm, wall thickness 2.2-7.9 mm*						
		Diameter 90 mm, wall thickness 2.3-8.5 mm*						
		Diameter 110 mm, wall thickness 2.7-10.0 mm*						
		Diameter 125 mm, wall thickness 3.3-11.4 mm*						
		Diameter 140 mm, wall thickness 4.0-12.8 mm*						
		Diameter 160 mm, wall thickness 4.9-14.6 mm*						
		Diameter 32 mm, wall thickness 1.6-5.5 mm**	Both Sides	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 50 mm, wall thickness 1.6-5.5 mm**						
		Diameter 55 mm, wall thickness 1.7-5.9 mm**						
		Diameter 63 mm, wall thickness 1.8-6.5 mm**						
		Diameter 75 mm, wall thickness 2.1-7.3 mm**						
		Diameter 82 mm, wall thickness 2.2-7.9 mm**						
		Diameter 90 mm, wall thickness 2.3-8.5 mm**						
		Diameter 110 mm, wall thickness 2.7-10.0 mm**						
		Diameter 55 mm, wall thickness 1.7-5.6 mm**					Both Sides	50 x 3.2 mm
		Diameter 63 mm, wall thickness 1.8-5.7 mm**						
		Diameter 75 mm, wall thickness 2.0-5.9 mm**						
		Diameter 82 mm, wall thickness 2.1-6.0 mm**						
		Diameter 90 mm, wall thickness 2.3-6.1 mm**						
		Diameter 110 mm, wall thickness 2.7-6.3 mm**						
		Diameter 110 mm, wall thickness 2.7-10.0 mm**						
		Diameter 125 mm, wall thickness 3.3-11.4 mm**						
		Diameter 140 mm, wall thickness 4.0-12.8 mm**						
		Diameter 160 mm, wall thickness 4.9-14.6 mm**						
Diameter 55 mm, wall thickness 1.7-5.6 mm**	Both Sides	50 x 3.6 mm	240	90				
Diameter 63 mm, wall thickness 1.8-5.7 mm**								
Diameter 75 mm, wall thickness 2.0-5.9 mm**								
Diameter 82 mm, wall thickness 2.1-6.0 mm**								
Diameter 90 mm, wall thickness 2.3-6.1 mm**								
Diameter 110 mm, wall thickness 2.7-6.3 mm**								
Diameter 110 mm, wall thickness 2.7-10.0 mm**								
Diameter 125 mm, wall thickness 3.3-11.4 mm**								
Diameter 140 mm, wall thickness 4.0-12.8 mm**								
Diameter 160 mm, wall thickness 4.9-14.6 mm**								
Diameter 55 mm, wall thickness 1.7-5.6 mm**					Both Sides	50 x 4.2 mm	240	180
Diameter 63 mm, wall thickness 1.8-5.7 mm**								
Diameter 75 mm, wall thickness 2.0-5.9 mm**								
Diameter 82 mm, wall thickness 2.1-6.0 mm**								
Diameter 90 mm, wall thickness 2.3-6.1 mm**								
Diameter 110 mm, wall thickness 2.7-6.3 mm**								
Diameter 110 mm, wall thickness 2.7-10.0 mm**								
Diameter 125 mm, wall thickness 3.3-11.4 mm**								
Diameter 140 mm, wall thickness 4.0-12.8 mm**								
Diameter 160 mm, wall thickness 4.9-14.6 mm**								
Diameter 55 mm, wall thickness 1.7-5.6 mm**	Both Sides	50 x 4.6 mm	240	180				
Diameter 63 mm, wall thickness 1.8-5.7 mm**								
Diameter 75 mm, wall thickness 2.0-5.9 mm**								
Diameter 82 mm, wall thickness 2.1-6.0 mm**								
Diameter 90 mm, wall thickness 2.3-6.1 mm**								
Diameter 110 mm, wall thickness 2.7-6.3 mm**								
Diameter 110 mm, wall thickness 2.7-10.0 mm**								
Diameter 125 mm, wall thickness 3.3-11.4 mm**								
Diameter 140 mm, wall thickness 4.0-12.8 mm**								
Diameter 160 mm, wall thickness 4.9-14.6 mm**								
Diameter 55 mm, wall thickness 1.7-5.6 mm**					Both Sides	50 x 5.0 mm	240	180
Diameter 63 mm, wall thickness 1.8-5.7 mm**								
Diameter 75 mm, wall thickness 2.0-5.9 mm**								
Diameter 82 mm, wall thickness 2.1-6.0 mm**								
Diameter 90 mm, wall thickness 2.3-6.1 mm**								
Diameter 110 mm, wall thickness 2.7-6.3 mm**								
Diameter 110 mm, wall thickness 2.7-10.0 mm**								
Diameter 125 mm, wall thickness 3.3-11.4 mm**								
Diameter 140 mm, wall thickness 4.0-12.8 mm**								
Diameter 160 mm, wall thickness 4.9-14.6 mm**								
Diameter 55 mm, wall thickness 1.7-5.6 mm**	Both Sides	60 x 6.0 mm	240	180				
Diameter 63 mm, wall thickness 1.8-5.7 mm**								
Diameter 75 mm, wall thickness 2.0-5.9 mm**								
Diameter 82 mm, wall thickness 2.1-6.0 mm**								
Diameter 90 mm, wall thickness 2.3-6.1 mm**								
Diameter 110 mm, wall thickness 2.7-6.3 mm**								
Diameter 110 mm, wall thickness 2.7-10.0 mm**								
Diameter 125 mm, wall thickness 3.3-11.4 mm**								
Diameter 140 mm, wall thickness 4.0-12.8 mm**								
Diameter 160 mm, wall thickness 4.9-14.6 mm**								
Diameter 55 mm, wall thickness 1.7-5.6 mm**					Both Sides	60 x 8.8 mm	240	60
Diameter 63 mm, wall thickness 1.8-5.7 mm**								
Diameter 75 mm, wall thickness 2.0-5.9 mm**								
Diameter 82 mm, wall thickness 2.1-6.0 mm**								
Diameter 90 mm, wall thickness 2.3-6.1 mm**								
Diameter 110 mm, wall thickness 2.7-6.3 mm**								
Diameter 110 mm, wall thickness 2.7-10.0 mm**								
Diameter 125 mm, wall thickness 3.3-11.4 mm**								
Diameter 140 mm, wall thickness 4.0-12.8 mm**								
Diameter 160 mm, wall thickness 4.9-14.6 mm**								
Diameter 55 mm, wall thickness 1.7-5.6 mm**	Both Sides	60 x 11.5 mm	240	180				
Diameter 63 mm, wall thickness 1.8-5.7 mm**								
Diameter 75 mm, wall thickness 2.0-5.9 mm**								
Diameter 82 mm, wall thickness 2.1-6.0 mm**								
Diameter 90 mm, wall thickness 2.3-6.1 mm**								
Diameter 110 mm, wall thickness 2.7-6.3 mm**								
Diameter 110 mm, wall thickness 2.7-10.0 mm**								
Diameter 125 mm, wall thickness 3.3-11.4 mm**								
Diameter 140 mm, wall thickness 4.0-12.8 mm**								
Diameter 160 mm, wall thickness 4.9-14.6 mm**								
Diameter 55 mm, wall thickness 1.7-5.6 mm**					Both Sides	60 x 15.0 mm	240	180
Diameter 63 mm, wall thickness 1.8-5.7 mm**								
Diameter 75 mm, wall thickness 2.0-5.9 mm**								
Diameter 82 mm, wall thickness 2.1-6.0 mm**								
Diameter 90 mm, wall thickness 2.3-6.1 mm**								
Diameter 110 mm, wall thickness 2.7-6.3 mm**								
Diameter 110 mm, wall thickness 2.7-10.0 mm**								
Diameter 125 mm, wall thickness 3.3-11.4 mm**								
Diameter 140 mm, wall thickness 4.0-12.8 mm**								
Diameter 160 mm, wall thickness 4.9-14.6 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



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Bostik FP 330 Pipe Collar: Service Penetration Seals in Floors							
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	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					
		Diameter 32 mm, wall thickness 1.9-3.7 mm**	Fitted to soffit of floor	30 x 3.0 mm	90	60	
		Diameter 40 mm, wall thickness 1.9-3.7 mm**					
		Diameter 50 mm, wall thickness 2.0-3.7 mm**					
		Diameter 55 mm, wall thickness 2.1-3.9 mm**					
		Diameter 63 mm, wall thickness 2.2-4.3 mm**			60	60	
		Diameter 75 mm, wall thickness 2.5-4.9 mm**					
		Diameter 82 mm, wall thickness 2.6-5.2 mm**					
		Diameter 90 mm, wall thickness 2.8-5.6 mm**					
		Diameter 110 mm, wall thickness 3.2-6.6 mm**					
		Diameter 32 mm, wall thickness 2.0-3.7 mm*			50 x 3.0 mm	120	120
		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 2.4-3.9 mm*					
		Diameter 63 mm, wall thickness 3.0-4.3 mm*					
		Diameter 75 mm, wall thickness 3.8-4.8 mm*					
		Diameter 82 mm, wall thickness 4.3-5.1 mm*					
		Diameter 90 mm, wall thickness 4.9-5.4 mm*					
		Diameter 110 mm, wall thickness 6.3 mm*					
		Diameter 50 mm, wall thickness 2.0-3.7 mm*					
		Diameter 55 mm, wall thickness 2.1-4.0 mm*					
		Diameter 63 mm, wall thickness 2.2-4.4 mm*					
		Diameter 75 mm, wall thickness 2.4-5.0 mm*					
		Diameter 82 mm, wall thickness 2.4-5.4 mm*					
		Diameter 90 mm, wall thickness 2.5-5.8 mm*					
		Diameter 110 mm, wall thickness 2.7-6.9 mm*					
		Diameter 125 mm, wall thickness 2.9-7.6 mm*					
		Diameter 140 mm, wall thickness 3.0-8.4 mm*					
		Diameter 160 mm, wall thickness 3.2-9.5 mm*					
		Diameter 160 mm, wall thickness 3.2-9.5 mm*			50 x 15.0 mm	180	90
		Diameter 110 mm, wall thickness 6.3 mm*					
		Diameter 125 mm, wall thickness 5.6-7.3 mm*					
		Diameter 140 mm, wall thickness 5.0-8.2 mm*			60 x 11.5 mm	120	120
		Diameter 160 mm, wall thickness 4.0-9.5 mm*					
		Diameter 110 mm, wall thickness 2.7-6.3 mm*					
		Diameter 125 mm, wall thickness 2.8-7.2 mm*			60 x 8.7 mm	60	60
		Diameter 140 mm, wall thickness 3.0-8.2 mm*					
		Diameter 160 mm, wall thickness 3.2-9.5 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



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Bostik FP 330 Pipe Collar: Service Penetration Seals in Floors							
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	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				60	60
		Diameter 110 mm, wall thickness 3.2-6.6 mm**	Fitted to soffit of floor	60 x 6.0 mm			
		Diameter 125 mm, wall thickness 3.2-7.4 mm**		60 x 8.7 mm			
		Diameter 140 mm, wall thickness 3.2, 8.3 mm**		60 x 11.4 mm			
		Diameter 160 mm, wall thickness 3.2-9.5 mm**		60 x 15.0 mm			
		Diameter 110 mm, wall thickness 2.7-6.6 mm~		50 x 6.0 mm			
		Diameter 125 mm, wall thickness 2.8-7.4 mm~		60 x 8.7 mm			
		Diameter 140 mm, wall thickness 3.0-8.3 mm~		60 x 11.4 mm			
		Diameter 160 mm, wall thickness 3.2-9.5 mm~		60 x 15.0 mm			
		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				60	60
		Diameter 32 mm, wall thickness 3.0-4.6 mm**	Fitted to soffit of floor	30 x 3.0 mm			
		Diameter 40 mm, wall thickness 3.0-4.6 mm**		30 x 6.0 mm			
		Diameter 50 mm, wall thickness 3.0-4.6 mm**		30 x 3.2 mm			
		Diameter 110 mm, wall thickness 10.0 mm*		30 x 3.6 mm			
		Diameter 55 mm, wall thickness 3.0-5.2 mm**		30 x 4.2 mm			
		Diameter 63 mm, wall thickness 3.0-5.9 mm*		30 x 4.6 mm			
		Diameter 75 mm, wall thickness 3.1-6.9 mm*		30 x 5.0 mm			
		Diameter 82 mm, wall thickness 3.1-7.6 mm*		30 x 6.0 mm			
		Diameter 90 mm, wall thickness 3.2-8.3 mm*		50 x 3.0 mm			
		Diameter 110 mm, wall thickness 3.4-10.0 mm*		50 x 3.2 mm			
		Diameter 32-40 mm, wall thickness 3.0-4.6 mm**		50 x 3.0 mm			
		Diameter 50 mm, wall thickness 3.0-4.6 mm**		50 x 3.2 mm			
		Diameter 32-40 mm, wall thickness 3.0 mm**		50 x 3.0 mm			
		Diameter 50 mm, wall thickness 3.0 mm**		50 x 3.2 mm			
		Diameter 50 mm, wall thickness 3.0-4.6 mm**		50 x 3.0 mm			
		Diameter 55 mm, wall thickness 3.1-5.1 mm**		50 x 3.2 mm			
		Diameter 63 mm, wall thickness 3.1-5.8 mm**		50 x 3.6 mm			
		Diameter 75 mm, wall thickness 3.2-6.9 mm**		50 x 4.2 mm			
		Diameter 82 mm, wall thickness 3.3-7.5 mm**		50 x 4.6 mm			
		Diameter 90 mm, wall thickness 3.3-8.2 mm**		50 x 5.0 mm			
		Diameter 110 mm, wall thickness 3.4-10.0 mm**		50 x 6.0 mm			
		Diameter 110 mm, wall thickness 3.4-10.0 mm**		60 x 6.0 mm			
		Diameter 125 mm, wall thickness 3.9-11.3 mm**		60 x 8.8 mm			
		Diameter 140 mm, wall thickness 4.3-12.7 mm**		60 x 11.5 mm			
		Diameter 160 mm, wall thickness 4.9-14.6 mm**		60 x 15.0 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
 All pipe classifications marked '~' are pipe end configuration C/U, U/C and C/C - U=Uncapped, C=Capped



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Bostik FP 330 Pipe Collar: Service Penetration Seals in Floors									
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	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*	Fitted to soffit of floor	50 x 3.0 mm					
		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 3.1-5.0 mm*							
		Diameter 63 mm, wall thickness 3.1-5.8 mm*							
		Diameter 75 mm, wall thickness 3.2-6.9 mm*							
		Diameter 82 mm, wall thickness 3.3-7.5 mm*							
		Diameter 90 mm, wall thickness 3.3-8.2 mm*							
		Diameter 110 mm, wall thickness 3.4-10.0 mm*							
		Diameter 125 mm, wall thickness 3.9-11.3 mm*							
		Diameter 140 mm, wall thickness 4.4-12.7 mm*							
		Diameter 160 mm, wall thickness 4.9-14.7 mm*							
		PP pipe according to EN 1451-1						180	120
		Diameter 32 mm, wall thickness 1.8-4.6 mm**			Fitted to soffit of floor	30 x 3.0 mm			
		Diameter 40 mm, wall thickness 1.8-4.6 mm**							
		Diameter 50 mm, wall thickness 1.8-4.6 mm**							
		Diameter 50 mm, wall thickness 2.9 mm**							
		Diameter 50 mm, wall thickness 1.8-4.6 mm**							
		Diameter 55 mm, wall thickness 1.9-4.8 mm**							
		Diameter 63 mm, wall thickness 2.0-5.0 mm**							
		Diameter 75 mm, wall thickness 2.2-5.4 mm**							
		Diameter 82 mm, wall thickness 2.3-5.6 mm**							
		Diameter 90 mm, wall thickness 2.4-5.9 mm**							
		Diameter 110 mm, wall thickness 2.7-6.6 mm**							
		Diameter 55 mm, wall thickness 1.9-4.8 mm*	60	50 x 3.2 mm					
		Diameter 63 mm, wall thickness 2.0-5.0 mm*							
		Diameter 75 mm, wall thickness 2.2-5.4 mm*							
		Diameter 82 mm, wall thickness 2.3-5.6 mm*							
		Diameter 90 mm, wall thickness 2.4-5.9 mm*							
Diameter 110 mm, wall thickness 2.7-6.6 mm*									
Diameter 55 mm, wall thickness 1.9-4.8 mm*	120	50 x 3.6 mm							
Diameter 63 mm, wall thickness 2.0-5.0 mm*									
Diameter 75 mm, wall thickness 2.2-5.4 mm*									
Diameter 82 mm, wall thickness 2.3-5.6 mm*									
Diameter 90 mm, wall thickness 2.4-5.9 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



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Bostik FP 330 Pipe Collar: Service Penetration Seals in Floors								
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Fire Resistance (mins.)			
					E	EI		
Concrete	150	PP pipe according to EN 1451-1					60	60
		Diameter 50 mm, wall thickness 1.8-4.6 mm*	Fitted to soffit of floor	30 x 3.0 mm				
		Diameter 55 mm, wall thickness 1.9-5.1 mm*		50 x 3.2 mm				
		Diameter 63 mm, wall thickness 2.0-5.8 mm*		50 x 3.6 mm				
		Diameter 75 mm, wall thickness 2.2-6.9 mm*		50 x 4.2 mm				
		Diameter 82 mm, wall thickness 2.3-7.5 mm*		50 x 4.6 mm				
		Diameter 90 mm, wall thickness 2.5-8.2 mm*		50 x 5.0 mm				
		Diameter 110 mm, wall thickness 2.7-10.1 mm*		50 x 6.0 mm				
		Diameter 125 mm, wall thickness 4.7-11.4 mm*		50 x 8.8 mm				
		Diameter 140 mm, wall thickness 6.8-12.8 mm*		50 x 11.5 mm				
		Diameter 160 mm, wall thickness 9.5-14.6 mm*		50 x 15.0 mm				
		Diameter 110 mm, wall thickness 2.7-6.6 mm*		60 x 6.0 mm				
		Diameter 125 mm, wall thickness 3.4-8.9 mm*		60 x 8.8 mm				
		Diameter 140 mm, wall thickness 4.1-11.2 mm*		60 x 11.5 mm				
		Diameter 160 mm, wall thickness 4.9-14.6 mm*		60 x 15.0 mm				
		Diameter 110 mm, wall thickness 2.7-6.6 mm**		50 x 6.0 mm	60	60		
		Diameter 125 mm, wall thickness 3.6-8.9 mm**	60 x 8.8 mm					
		Diameter 140 mm, wall thickness 4.7-11.3 mm**	60 x 11.5 mm					
		Diameter 160 mm, wall thickness 6.2-14.7 mm**	60 x 15.0 mm	90	90			
		Diameter 160 mm, wall thickness 6.2 mm**	60 x 15.0 mm					
		Wavin SiTech + PP-M B according to EN 13501-1					240	240
		32-40 mm diameter/ 1.8 mm wall thickness**	Fitted to soffit of floor	50 x 3.0 mm				
		50 mm diameter/ 1.8 mm wall thickness**		50 x 3.2 mm				
		75 mm diameter/ 1.8-2.5 mm wall thickness~		50 x 4.2 mm				
		90 mm diameter/ 1.8-2.9 mm wall thickness~		50 x 5.0 mm				
		110 mm diameter/ 1.8-3.4 mm wall thickness~		50 x 6.0 mm				
		Aquatherm Green SDR9 MF PP-RP according to ISO 21003					240	240
		32 mm diameter/3.6-5.6 mm wall thickness^	Fitted to soffit of floor	30 x 3.0 mm				
		40 mm diameter/3.6-5.6 mm wall thickness^		50 x 3.0 mm				
		50 mm diameter/3.6-5.6 mm wall thickness^		50 x 3.2 mm				
63 diameter/5.6-12.3 mm wall thickness^	50 x 3.6 mm							
75 diameter/4.4-8.4 mm wall thickness^	50 x 4.2 mm							
90 diameter/4.9-10.0 mm wall thickness^	50 x 5.0 mm							
110 diameter/5.6-12.3 mm wall thickness^	50 x 6.0 mm	120		120				

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



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Bostik FP 330 Pipe Collar: Service Penetration Seals in Floors								
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Fire Resistance (mins.)			
					E	EI		
Concrete	150	Geberit Silent PP according to DIN 4102					240	240
		32-40 mm diameter/ 1.8 mm wall thickness**	Fitted to soffit of floor	50 x 3.0 mm				
		50 mm diameter/ 1.8 mm wall thickness**		50 x 3.2 mm				
		75 mm diameter/1.8-2.4 mm wall thickness~		50 x 4.2 mm				
		90 mm diameter/1.8-2.8 mm wall thickness~		50 x 5.0 mm				
		110 mm diameter/1.8-3.4 mm wall thickness~		50 x 6.0 mm				
		Polo-Kal NG Poloplast PP-MV according to DIN 4102					240	240
		32-40 mm diameter/1.8-2.0 mm wall thickness**	Fitted to soffit of floor	50 x 3.0 mm				
		50 mm diameter/1.8-2.0 mm wall thickness**		50 x 3.2 mm				
		75 mm diameter/1.9-2.6 wall thickness~		50 x 4.2 mm				
		90 mm diameter/2.0-2.9 wall thickness~		50 x 5.0 mm				
		110 mm diameter/2.0-3.4 wall thickness~		50 x 6.0 mm				
		Diameter 125 mm, wall thickness 3.9 mm*		60 x 9.0 mm				
		Diameter 160 mm, wall thickness 4.9 mm~		60 x 15 mm				
		Rehau Raupiano Plus PP-DD according to DIN 4102					240	240
		40 mm diameter/1.8 wall thickness**	Fitted to soffit of floor	50 x 3.0 mm				
		50 mm diameter/1.8 wall thickness**		50 x 3.2 mm				
		75 mm diameter/1.8-2.2 mm wall thickness~		50 x 4.2 mm				
		90 mm diameter/1.8-2.4 mm wall thickness~		50 x 5.0 mm				
		110 mm diameter/1.8-2.7mm wall thickness~		50 x 6.0 mm				
		Diameter 125 mm, wall thickness 3.1 mm~		60 x 9.0 mm				
		Diameter 160 mm, wall thickness 3.9 mm~		60 x 15.0 mm				
		BluePower Multilayer pipe – TR02-PP according to EN 1451-1					180	180
		32-40 mm diameter/1.8 mm wall thickness**	Fitted to soffit of floor	50 x 3.0 mm				
		50 mm diameter/1.8 mm wall thickness**		50 x 3.2 mm				
		75 mm diameter/1.8-3.4 mm wall thickness~		50 x 4.2 mm				
		90 mm diameter/1.8-3.4 mm wall thickness~		50 x 5.0 mm				
		110 mm diameter/1.8-3.4 mm wall thickness~		50 x 6.0 mm				
		125 mm diameter/3.4-4.9 mm wall thickness~		60 x 9.0 mm				
		160 mm diameter/3.4-4.9 mm wall thickness~		60 x 15.0 mm				

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



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Bostik FP 330 Pipe Collar: Service Penetration Seals in Floors							
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	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	Fitted to soffit of floor	50 x 3.0 mm			
		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 2.1-3.9 mm					
		Diameter 63 mm, wall thickness 2.2-4.3 mm					
		Diameter 75 mm, wall thickness 2.3-4.8 mm					
		Diameter 82 mm, wall thickness 2.4-5.1 mm					
		Diameter 90 mm, wall thickness 2.5-5.4 mm					
		Diameter 110 mm, wall thickness 2.7-6.3 mm					
		Up to 200 mm diameter/ 4.9-11.9 mm wall thickness			60 x 18 mm	120	60
		Up to 250 mm diameter/ 6.1-11.9 mm wall thickness	75 x 24 mm	60	60		
		Up to 315 mm diameter/ 7.7-12.1 mm wall thickness	75 x 30 mm				
		Up to 400 mm diameter/ 15.3 mm wall thickness	100 x 39 mm				
		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				240	120
		Up to 200 mm diameter/ 6.2-18.2 mm wall thickness	Fitted to soffit of floor	60 x 18 mm			
		Up to 250 mm diameter/ 11.5-18.4 mm wall thickness					
		Up to 315 mm diameter/ 18.7 mm wall thickness					
		Up to 400 mm diameter/ 36.3 mm wall thickness			100 x 39 mm	90	90
		PP pipe according to EN 1451-1				120	120
		Up to 200 mm diameter / 4.9-18.2 mm wall thickness	Fitted to soffit of floor	60 x 18 mm			
		Up to 250 mm diameter / 15.1-22.7 mm wall thickness					
		Up to 315 mm diameter / 28.6 mm wall thickness					
		Up to 400 mm diameter / 9.8-22.7 mm wall thickness			100 x 39 mm	30	30

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Bostik FP 330 Pipe Collar: Service Penetration Seals in Floors							
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar	Service Insulation	Fire Resistance (mins.)	
						E	EI
Concrete	150	Copper pipe or mild steel					
		Diameter 54 mm, wall thickness 1.2 mm	Fitted to soffit of floor	Ø 110 x 50 x 6.0 mm	19 mm thick Elastomeric insulation minimum class B-s3,d0	240	60

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Bostik FP 330 Pipe Collar: Service Penetration Seals in Floors								
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar	Fire Resistance (mins.)			
					E	EI		
Concrete	150	None (blank)	Fitted to soffit of floor	Ø 55 x 30 x 3.2 mm	240	60		
		None (blank)		Ø 160 x 60 x 15.0 mm	120	120		
		Cables up to 21 mm Ø, in bundles up to 55 mm Ø		Ø 55 x 30 x 3.2 mm	120	120		
		Cables up to 21 mm Ø, in bundles up to 100 mm Ø		Ø 110 x 50 x 6.0 mm	90	90		
		Cables up to 21 mm Ø, in bundles up to 160 mm Ø		Ø 160 x 60 x 15.0 mm	180	180		
		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 1.9-3.7 mm	Fitted to top face of floor	50 x 3.0 mm	240	240		
		Diameter 40 mm, wall thickness 1.9-3.7 mm		50 x 3.0 mm				
		Diameter 50 mm, wall thickness 1.9-3.7 mm		50 x 3.2 mm				
		Diameter 55 mm, wall thickness 2.0-4.0 mm		50 x 3.2 mm				
		Diameter 63 mm, wall thickness 2.1-4.4 mm		50 x 3.6 mm	120	120		
		Diameter 75 mm, wall thickness 2.4-5.0 mm		50 x 4.2 mm				
		Diameter 82 mm, wall thickness 2.5-5.3 mm		50 x 4.6 mm				
		Diameter 90 mm, wall thickness 2.7-5.7 mm		50 x 5.0 mm				
		Diameter 110 mm, wall thickness 3.2-6.6 mm		50 x 6.0 mm				
		Diameter 125 mm, wall thickness 5.0-7.5 mm		60 x 8.8 mm			240	180
		Diameter 140 mm, wall thickness 6.9-8.3 mm	60 x 11.5 mm					
		Diameter 160 mm, wall thickness 9.5 mm	60 x 15 mm					
		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	Fitted to top face of floor	50 x 3.0 mm	240	240		
		Diameter 40 mm, wall thickness 3.0-4.6 mm		50 x 3.0 mm				
		Diameter 50 mm, wall thickness 3.0-4.6 mm		50 x 3.2 mm				
		Diameter 55 mm, wall thickness 3.0-5.1 mm		50 x 3.2 mm	240	60		
		Diameter 63 mm, wall thickness 3.0-5.8 mm		50 x 3.6 mm				
		Diameter 75 mm, wall thickness 3.1-6.9 mm		50 x 4.2 mm				
		Diameter 82 mm, wall thickness 3.2-7.5 mm		50 x 4.6 mm				
		Diameter 90 mm, wall thickness 3.2-8.2 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 5.2-9.9 mm		60 x 8.8 mm	60	60		
		Diameter 140 mm, wall thickness 7.0-9.7 mm		60 x 11.5 mm				
		Diameter 160 mm, wall thickness 9.5 mm		60 x 15 mm				

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Bostik FP 330 Pipe Collar: Service Penetration Seals in Floors								
Substrate	Minimum Wall Thickness (mm)	Penetrating Services	Seal Position	Collar Inlay	Fire Resistance (mins.)			
					E	EI		
Concrete	150	PP pipe according to EN 1451-1						
		Diameter 32 mm, wall thickness 2.9-4.6 mm	Fitted to top face of floor	50 x 3.0 mm	240			180
		Diameter 40 mm, wall thickness 2.9-4.6 mm		50 x 3.0 mm				
		Diameter 50 mm, wall thickness 2.9-4.6 mm		50 x 3.2 mm				
		Diameter 55 mm, wall thickness 3.5-5.1 mm		50 x 3.2 mm	180			90
		Diameter 63 mm, wall thickness 4.4-5.8 mm		50 x 3.6 mm				
		Diameter 75 mm, wall thickness 5.8-6.9 mm		50 x 4.2 mm				
		Diameter 82 mm, wall thickness 6.6-7.5 mm		50 x 4.6 mm				
		Diameter 90 mm, wall thickness 7.5-8.2 mm		50 x 5.0 mm				
		Diameter 110 mm, wall thickness 10.0 mm		50 x 6.0 mm	240			60
		Diameter 125 mm, wall thickness 11.3 mm		60 x 8.8 mm				
		Diameter 140 mm, wall thickness 12.7 mm		60 x 11.5 mm				
		Diameter 160 mm, wall thickness 14.6 mm		60 x 15 mm				

All pipe classifications are pipe end configuration U/C and C/C - U=Uncapped, C=Capped



Appendix UL-EU Certificate

Certification Mark	UL-EU mark
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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.

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