

SikaSeal-627 Fire Collar+

DECLARATION OF PERFORMANCE

No. 86765665

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	86765665
2	INTENDED USE/S	EAD 350454-00-1104:2017 Fire Stopping and Sealing Product: Penetration Seals
3	MANUFACTURER:	Sika Services AG Tüffenwies 16-22 8064 Zürich
4	AUTHORISED REPRESENTATIVE:	-
5	SYSTEM/S OF AVCP:	System 1
6b	EUROPEAN ASSESSMENT DOCUMENT:	EAD 350454-00-1104:2017
	European Technical Assessment:	ETA-21/1031 of 2021/11/25
	Technical Assessment Body:	ETA-DANMARK A/S
	Notified body/ies:	2531

7 DECLARED PERFORMANCE/S

Essential Characteristics	Performance	AVCP	Harmonised Technical Specification
Reaction to fire	NPD	System 1	EAD 350454-00-1104:2017
Resistance to fire	Annex A	System 1	
Air permeability	Annex B	System 1	
Water permeability	NPD	System 1	
Content, emission and/or release of dangerous substances	NPD	System 1	
Mechanical resistance and stability	NPD	System 1	
Resistance to impact/movement	NPD	System 1	
Adhesion	NPD	System 1	
Durability	Z ₂	System 1	
Airborne sound insulation	R _w (C;Ctr): 58 (-1;-7)	System 1	
Thermal properties	NPD	System 1	
Water vapour permeability	NPD	System 1	

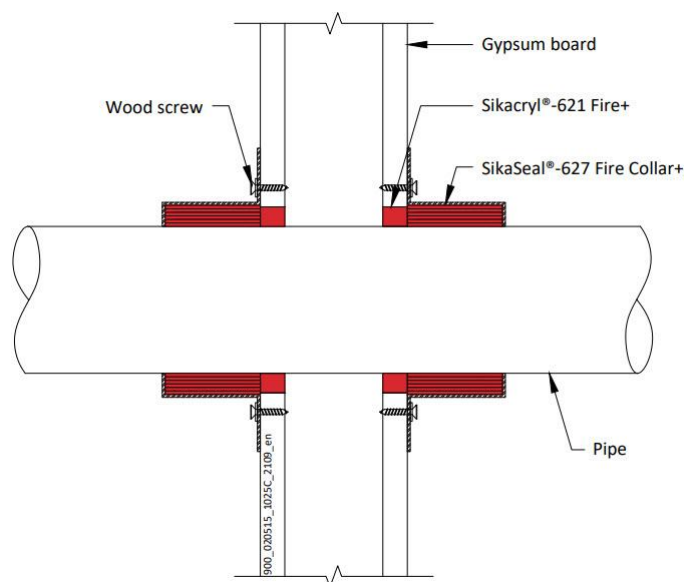
ANNEX A – RESISTANCE TO FIRE CLASSIFICATION – SIKASEAL-627 FIRE COLLAR+

A.1 Flexible or rigid wall constructions with wall thickness of minimum 75 mm

A.1.1 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



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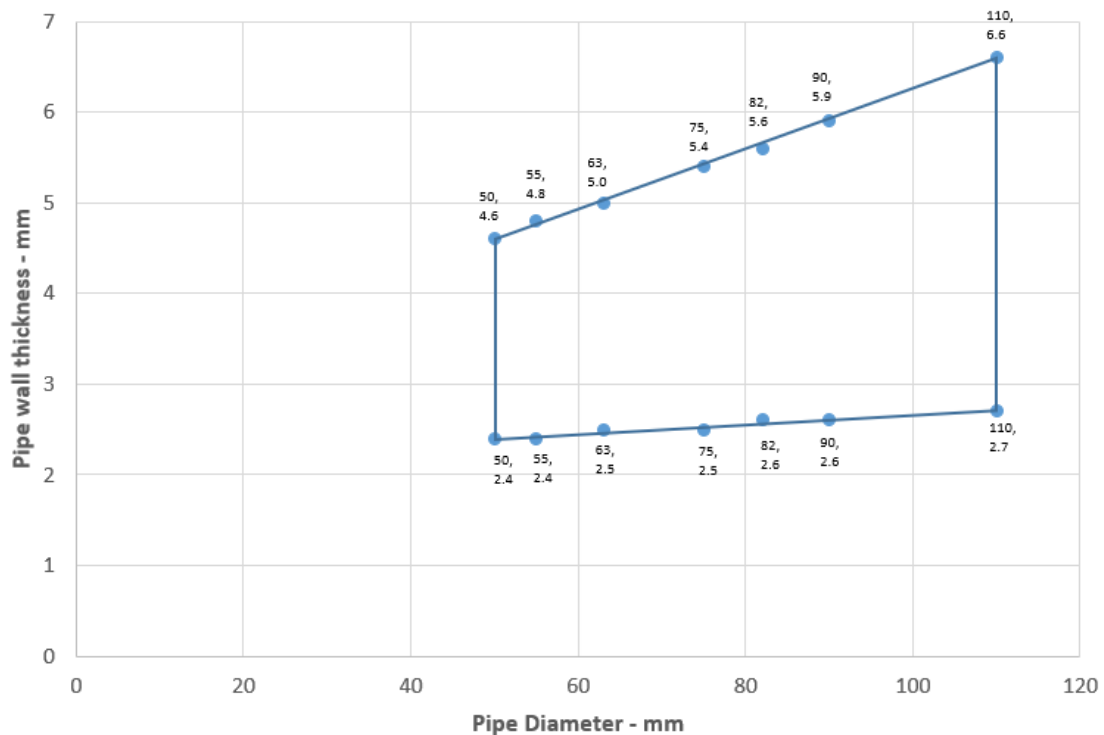
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A.1.1.1

Services	Collar Inlay	Classification
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 2.4-4.6 mm	30 x 3.0 mm	E 60 U/U, E 60 C/U, E 60 U/C, E 60 C/C EI 30 U/U, EI 30 C/U, EI 30 U/C, EI 30 C/C
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 2.4-4.8 mm*	30 x 3.2 mm	E 60 U/C, E 60 C/C EI 30 U/C, EI 30 C/C
Diameter 63 mm, wall thickness 2.5-5.0 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-5.4 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.6-5.6 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.6-5.9 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	30 x 6.0 mm	E 60 U/C, E 60 C/C EI 45 U/C, EI 45 C/C
Diameter 125 mm, wall thickness 2.9-7.4 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 3.0-8.3 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 50-110 / 30 mm Collar - U/C

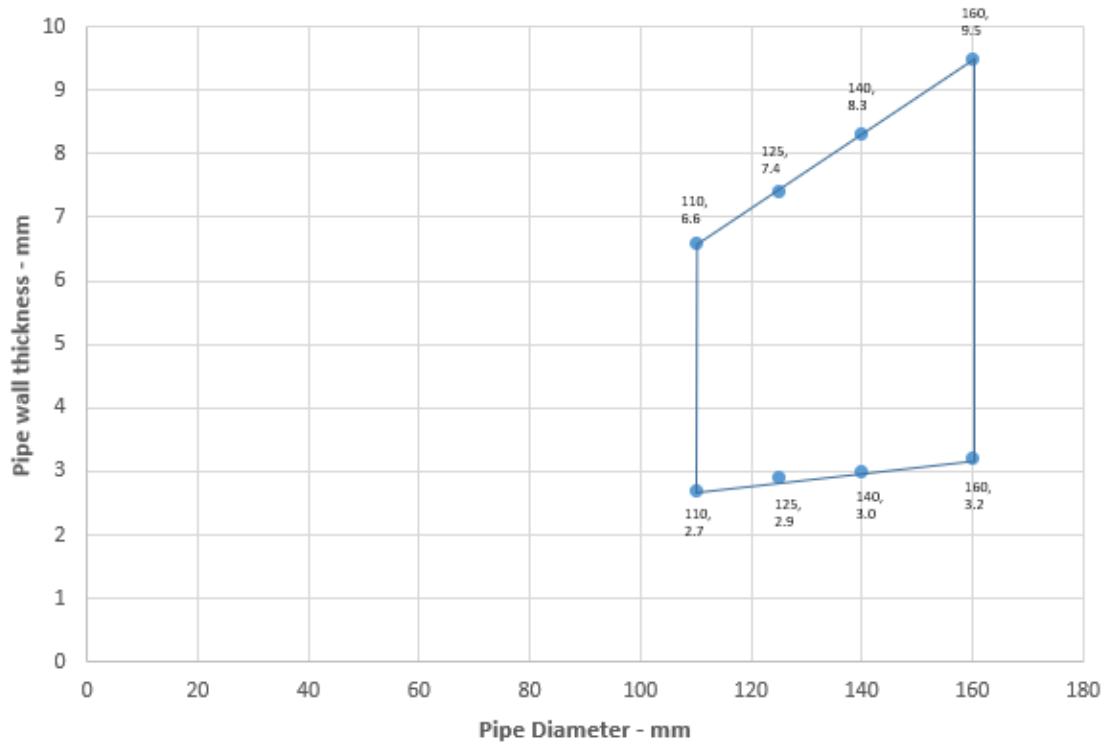


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PVC Pipes 125-160 / 60 mm Collar - U/C



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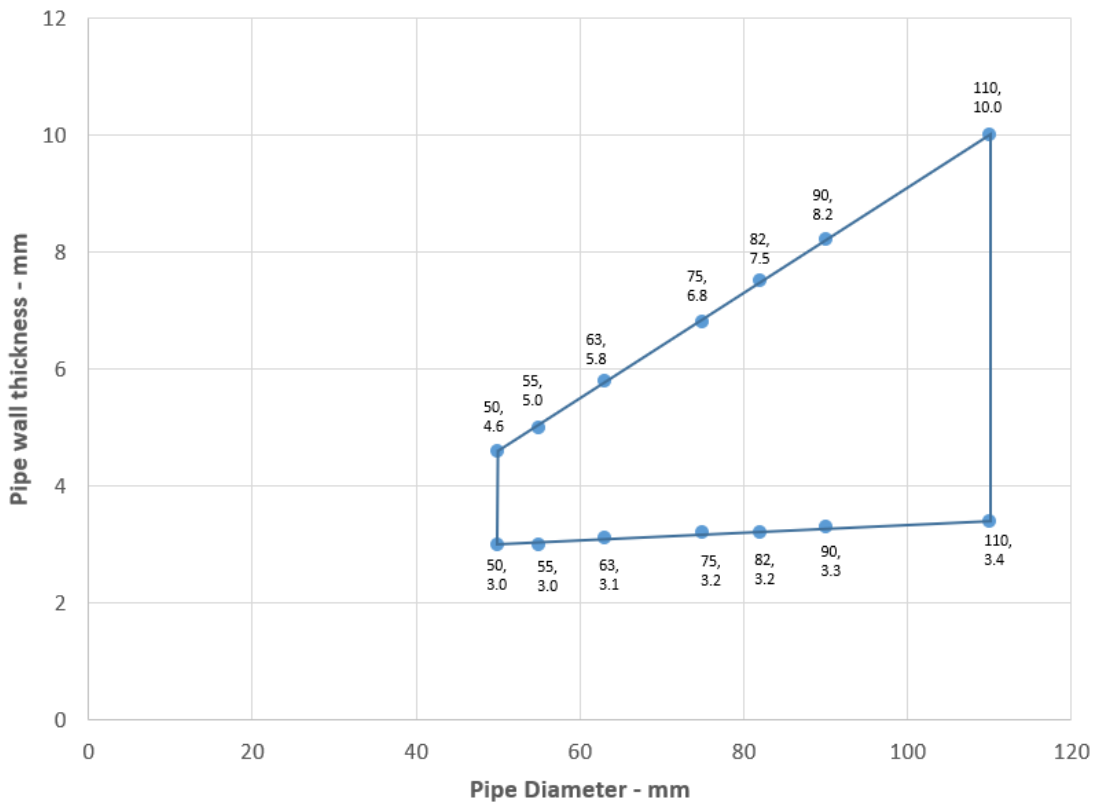


A.1.2

Services	Collar Inlay	Classification	
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	30 x 3.0 mm	E 60 U/C, E 60 C/C EI 30 U/C, EI 30 C/C	
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 3.0-5.0 mm*	30 x 3.2 mm		
Diameter 63 mm, wall thickness 3.1-5.8 mm*	30 x 3.6 mm		
Diameter 75 mm, wall thickness 3.2-6.8 mm*	30 x 4.2 mm		
Diameter 82 mm, wall thickness 3.2-7.5 mm*	30 x 4.6 mm		
Diameter 90 mm, wall thickness 3.3-8.2 mm*	30 x 5.0 mm		
Diameter 110 mm, wall thickness 3.4-10.0 mm*	30 x 6.0 mm		EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 4.2-9.8 mm*	60 x 8.8 mm		E 60 U/C, E 60 C/C EI 45 U/C, EI 45 C/C
Diameter 140 mm, wall thickness 5.1-9.6 mm*	60 x 11.5 mm		
Diameter 160 mm, wall thickness 6.2-9.5 mm*	60 x 15.0 mm		

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 30 mm Collar - U/C

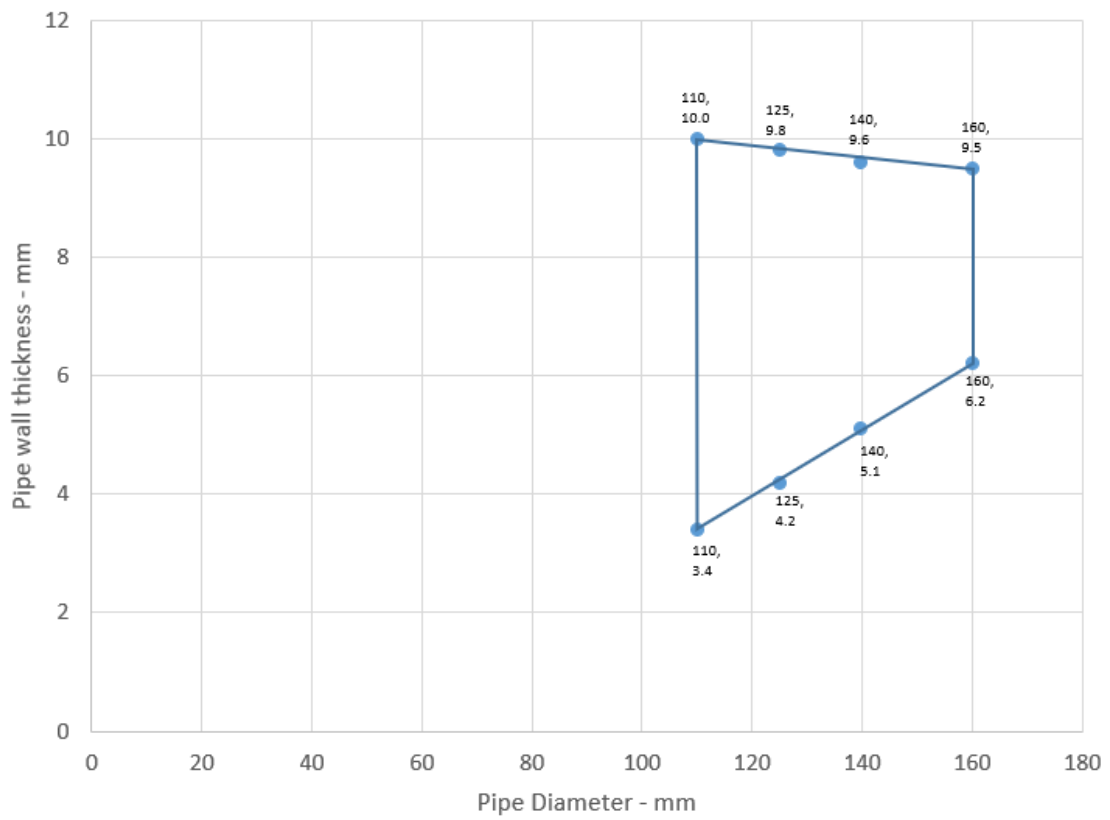


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PE Pipes 125-160 / 60 mm Collar - U/C



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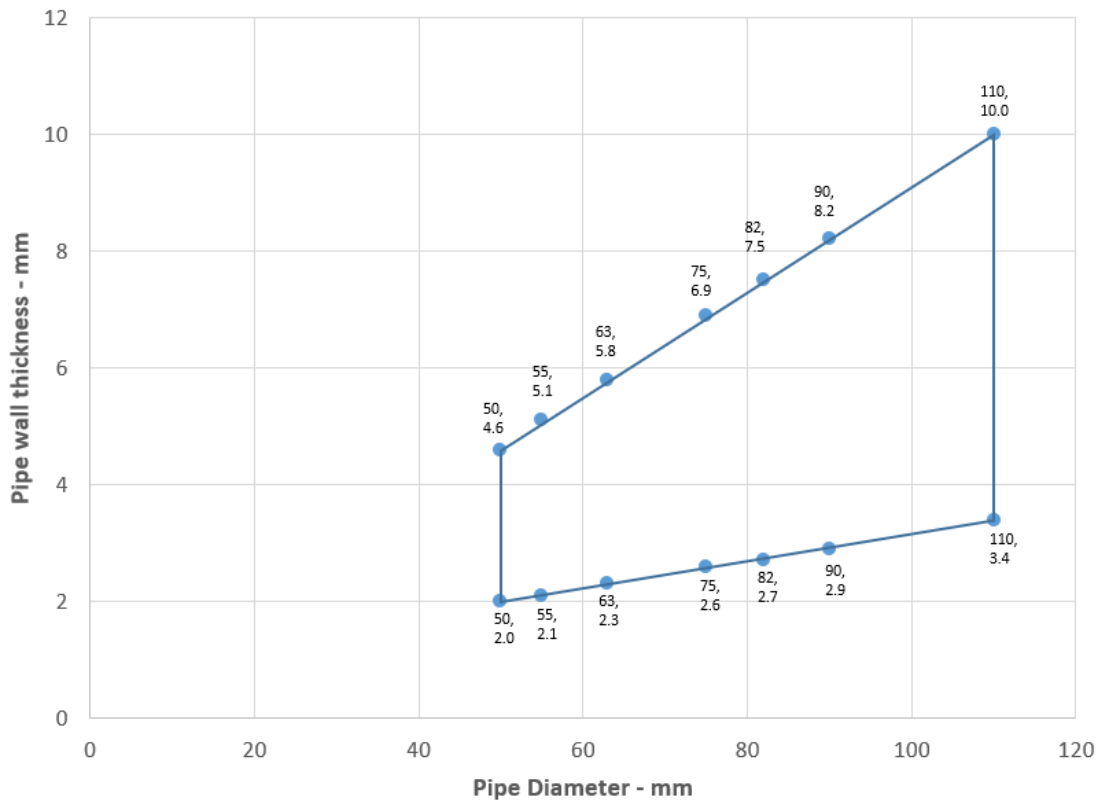


A.1.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 2.0-4.6 mm	30 x 3.0 mm	E 60 U/U, E 60 C/U, E 60 U/C, E 60 C/C EI 30 U/U, EI 30 C/U, EI 30 U/C, EI 30 C/C
Diameter 40 mm, wall thickness 2.0-4.6 mm		
Diameter 50 mm, wall thickness 2.0-4.6 mm		
Diameter 55 mm, wall thickness 2.1-5.1 mm*	30 x 3.2 mm	E 60 U/C, E 60 C/C EI 30 U/C, EI 30 C/C
Diameter 63 mm, wall thickness 2.3-5.8 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.6-6.9 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.7-7.5 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-8.2 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.0 mm*	30 x 6.0 mm	E 60 U/C, E 60 C/C EI 45 U/C, EI 45 C/C
Diameter 125 mm, wall thickness 3.9-11.4 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 4.3-12.8 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.6 mm*	60 x 15.0 mm	EI 60 U/C, EI 60 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

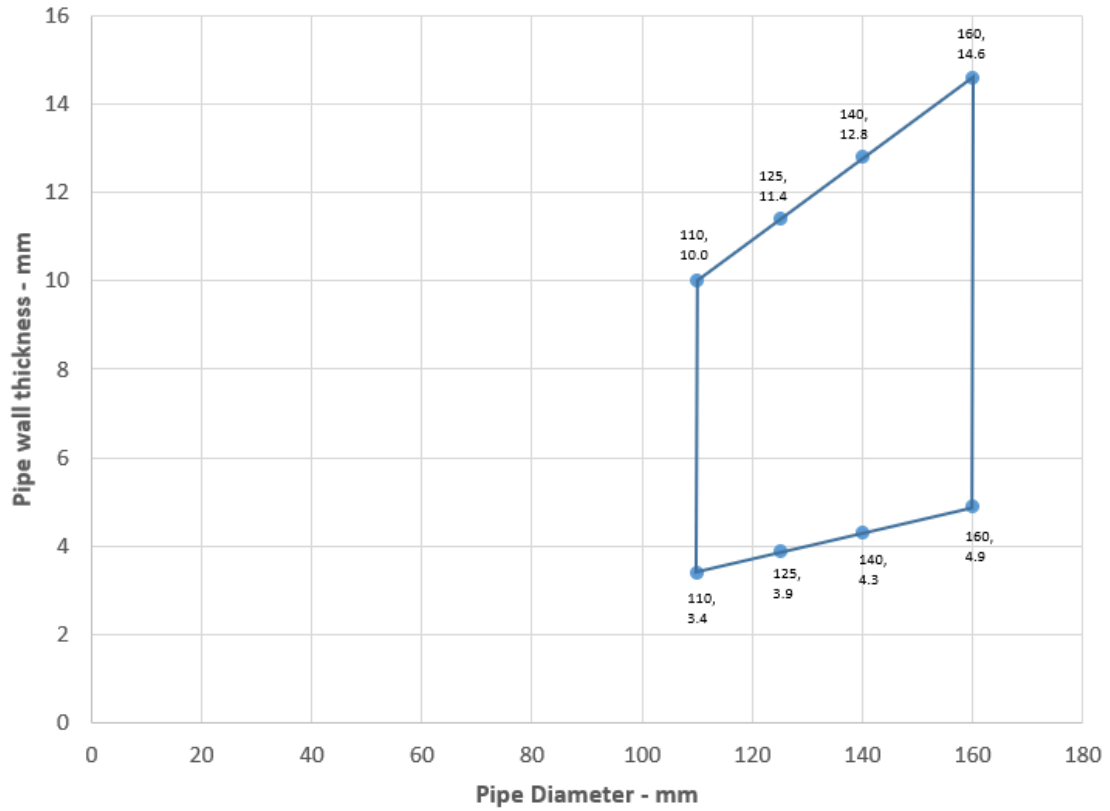
PP Pipes 50-110 / 30 mm Collar



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PP Pipes 125-160 / 60 mm Collar - U/C



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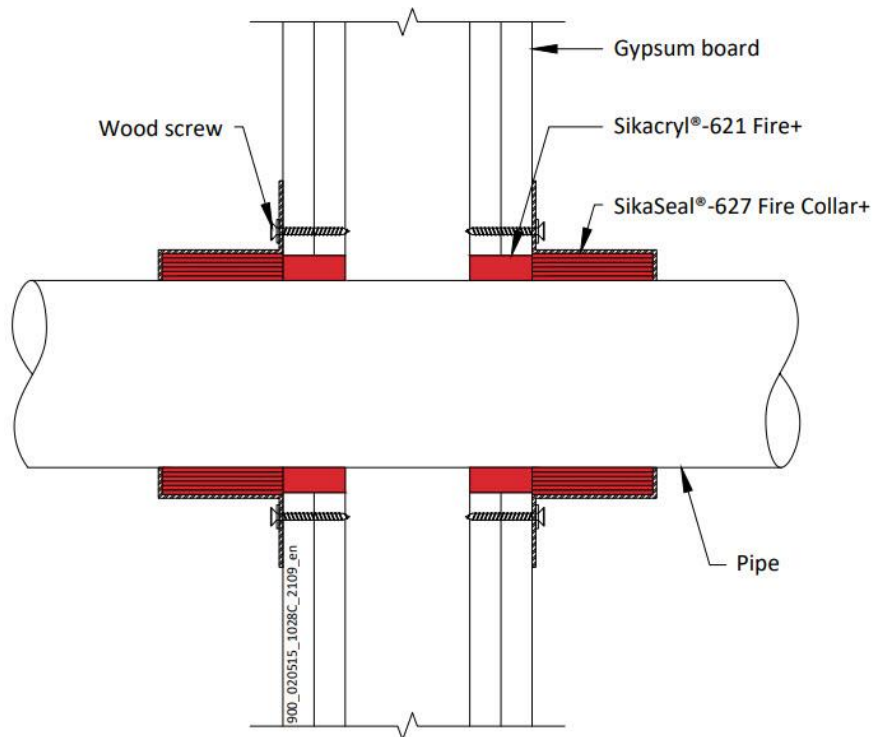


A.2 Flexible or rigid wall constructions with wall thickness of minimum 100 mm

A.2.1 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



A.2.1.1.1

Services	Collar Inlay	Classification
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	30 x 3.0 mm	E 90 U/C, E 90 C/C EI 60 U/C, EI 60 C/C
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*	30 x 3.2 mm	EI 60 U/C, EI 60 C/C
Diameter 63 mm, wall thickness 1.5-5.0 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 1.8-5.4 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.0-5.6 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.2-5.9 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	30 x 6.0 mm	

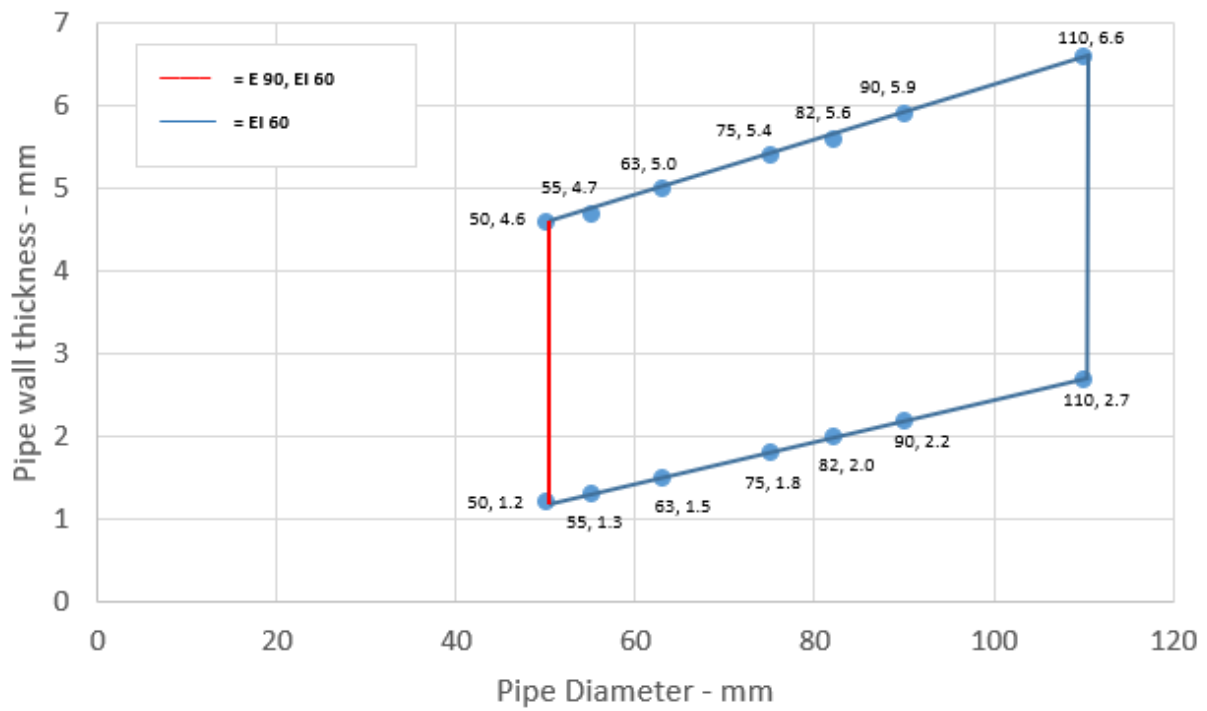
* Typical pipe diameters shown, see below graph for intermediate sizes

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PVC Pipes 50-110 / 30 mm Collar - U/C



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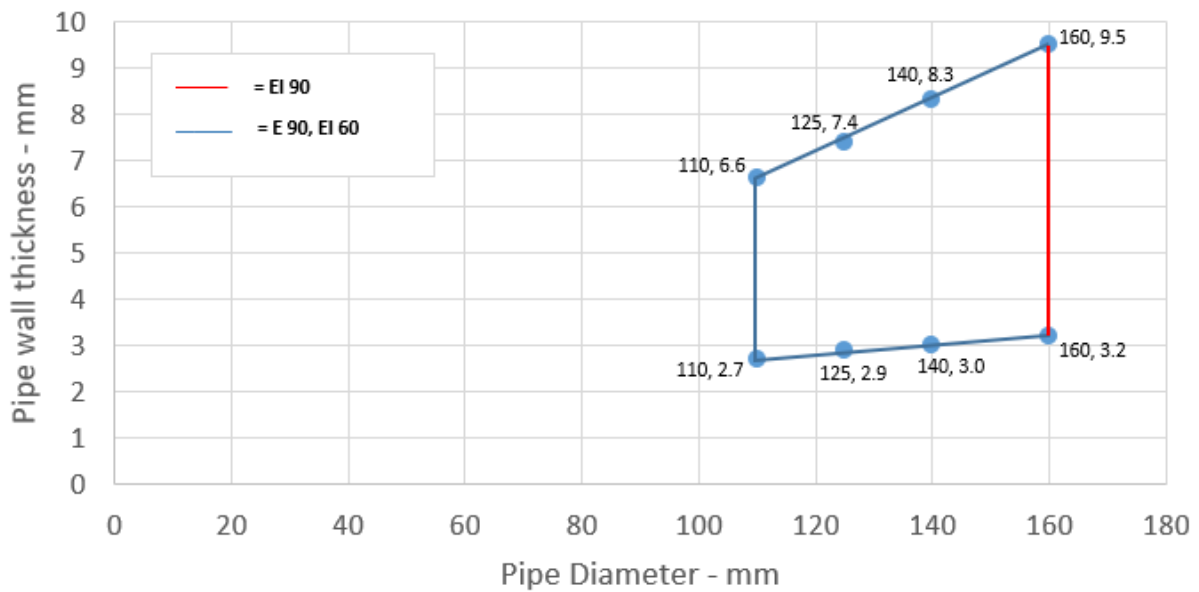
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A.2.1.1.2

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 2.9-7.4 mm*	50 x 8.8 mm	
Diameter 140 mm, wall thickness 3.0-8.3 mm*	50 x 11.5 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	50 x 15.0 mm	EI 90 U/C, EI 90 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 110-160 / 50 mm Collar - U/C



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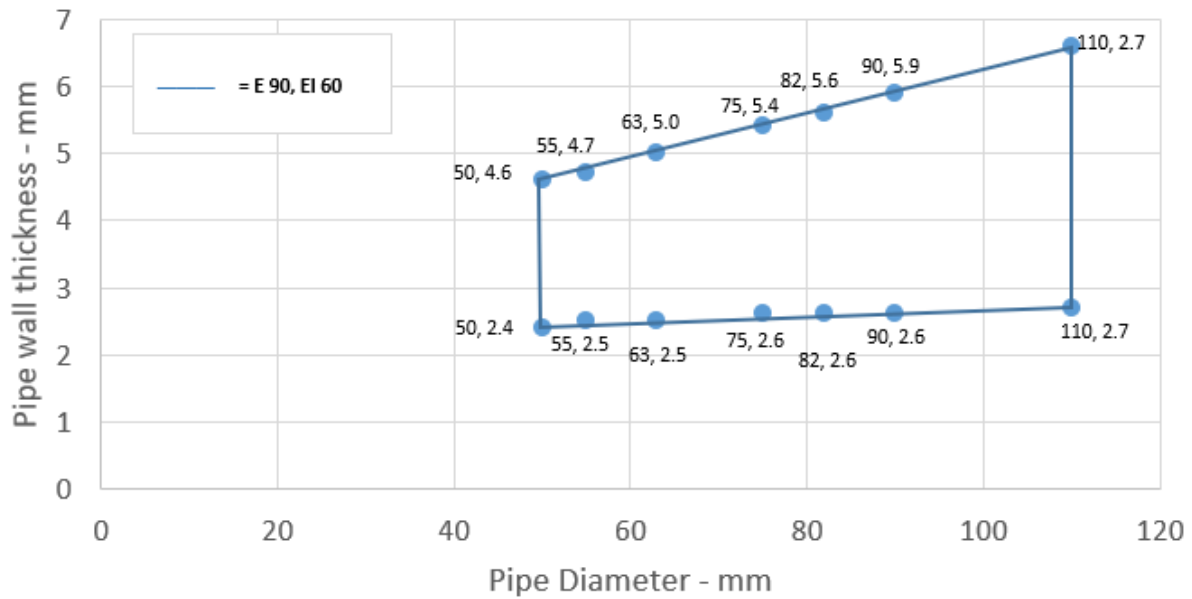


A.2.1.1.3

Services	Collar Inlay	Classification
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 2.4-4.6 mm	30 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
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*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.5-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.6-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.6-5.6 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.6-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 50-110 / 50 mm Collar - U/U



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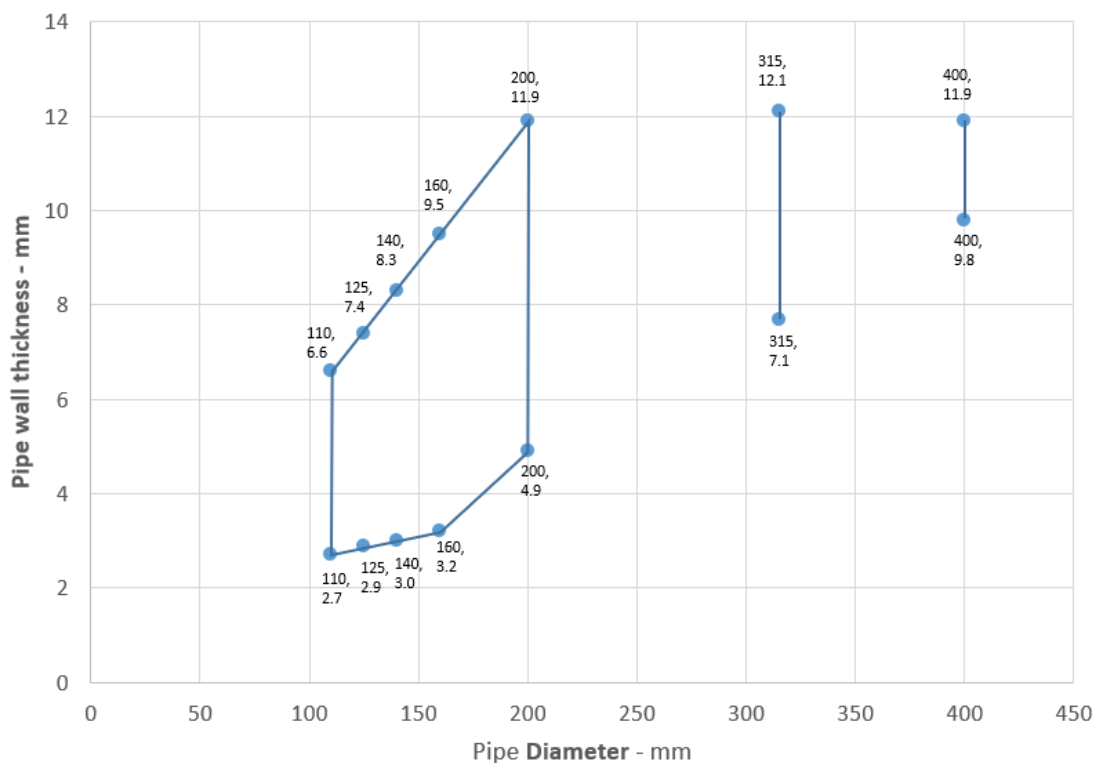


A.2.1.1.4

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	60 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 2.9-7.4 mm*	60 x 9.0 mm	EI 60 U/U, EI 60 C/U
Diameter 140 mm, wall thickness 3.0-8.3 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	60 x 15.0 mm	
Diameter 200 mm, wall thickness 4.9-11.9 mm*	60 x 18 mm	EI 120 U/C, EI 120 C/C
Diameter 315 mm, wall thickness 7.7-12.1 mm*	75 x 30 mm	EI 90 C/C
Diameter 400 mm, wall thickness 9.8-11.9 mm*	100 x 40 mm	E 120 C/C EI 90 C/C

* Typical pipe diameters shown, see below graphs for intermediate sizes

PVC Pipes



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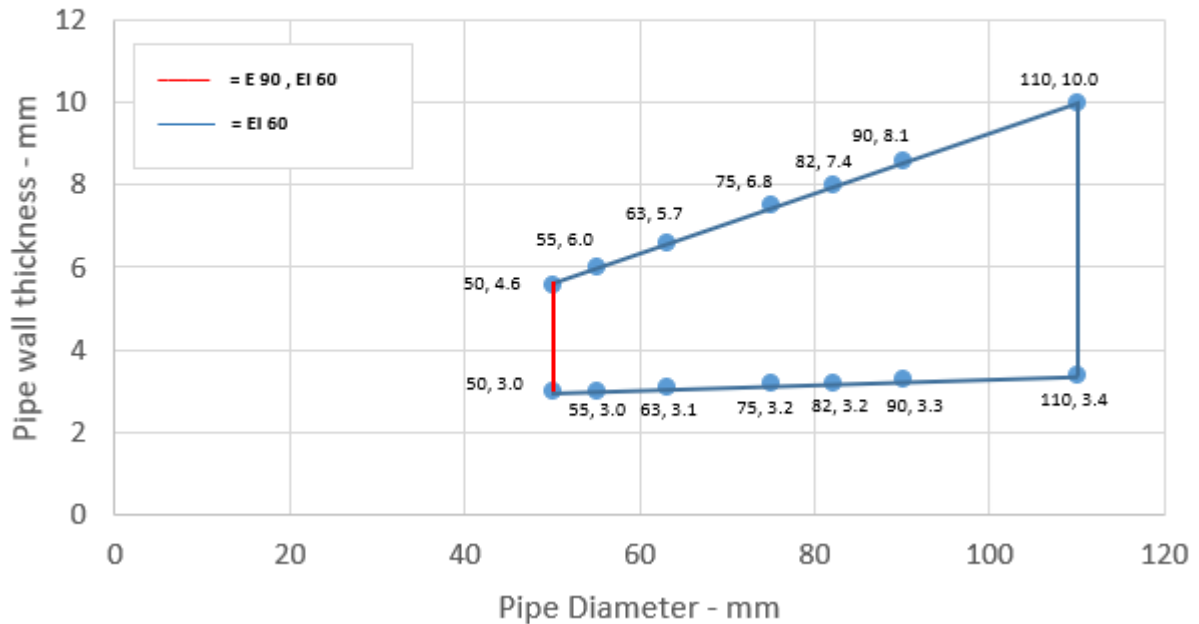


A.2.1.2

Services	Collar Inlay	Classification
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	30 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 45 U/U, EI 45 C/U, EI 45 U/C, EI 45 C/C
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		
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	EI 60 U/C, EI 60 C/C
Diameter 63 mm, wall thickness 3.1-6.6 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 3.2-7.5 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 3.2-8.0 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-8.6 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.0 mm*	30 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 30 mm Collar - U/C



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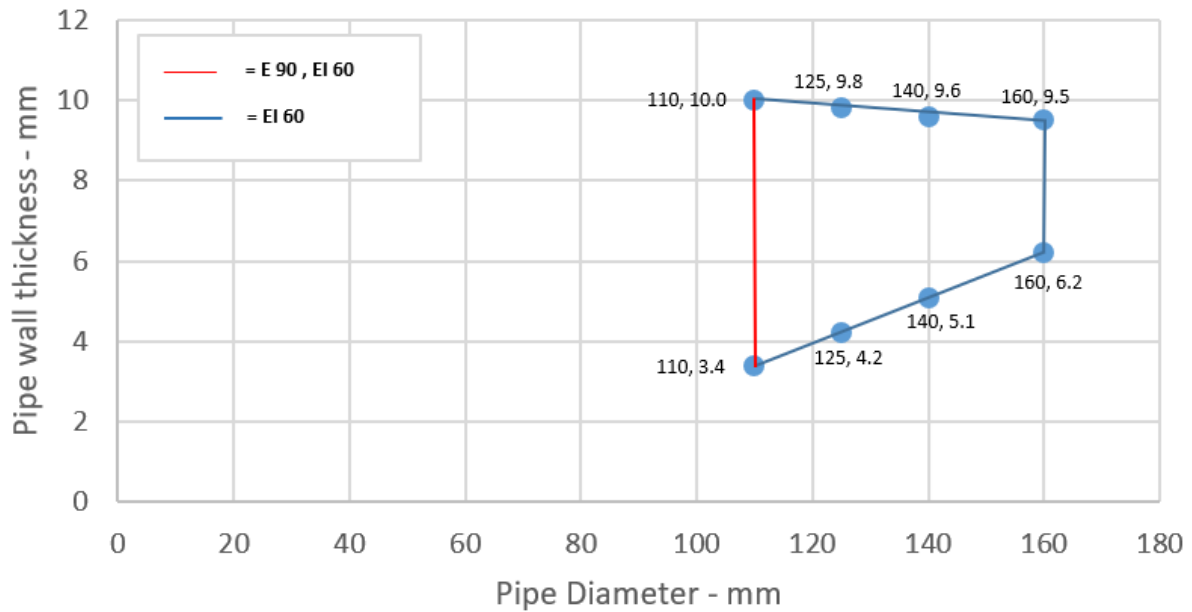
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A.2.1.2.1

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4-10.0 mm*	50 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 4.2-9.8 mm*	50 x 9.0 mm	EI 60 U/C, EI 60 C/C
Diameter 140 mm, wall thickness 5.1-9.6 mm*	50 x 11.5 mm	
Diameter 160 mm, wall thickness 6.2-9.5 mm*	50 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE pipes 110-160 / 50 mm Collar - U/C

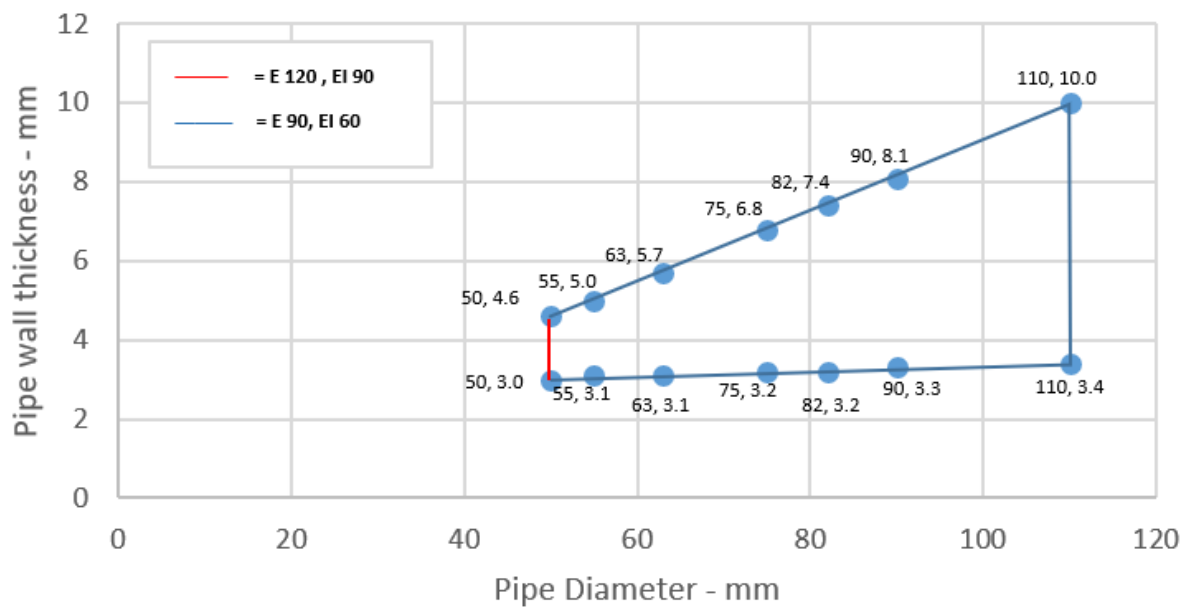


A.2.1.2.2

Services	Collar Inlay	Classification
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	50 x 3.0 mm	E 120 U/U, EI 90 U/U
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*	50 x 3.2 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
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 3.2-7.4 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-8.1 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.0 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 50 mm Collar - U/U

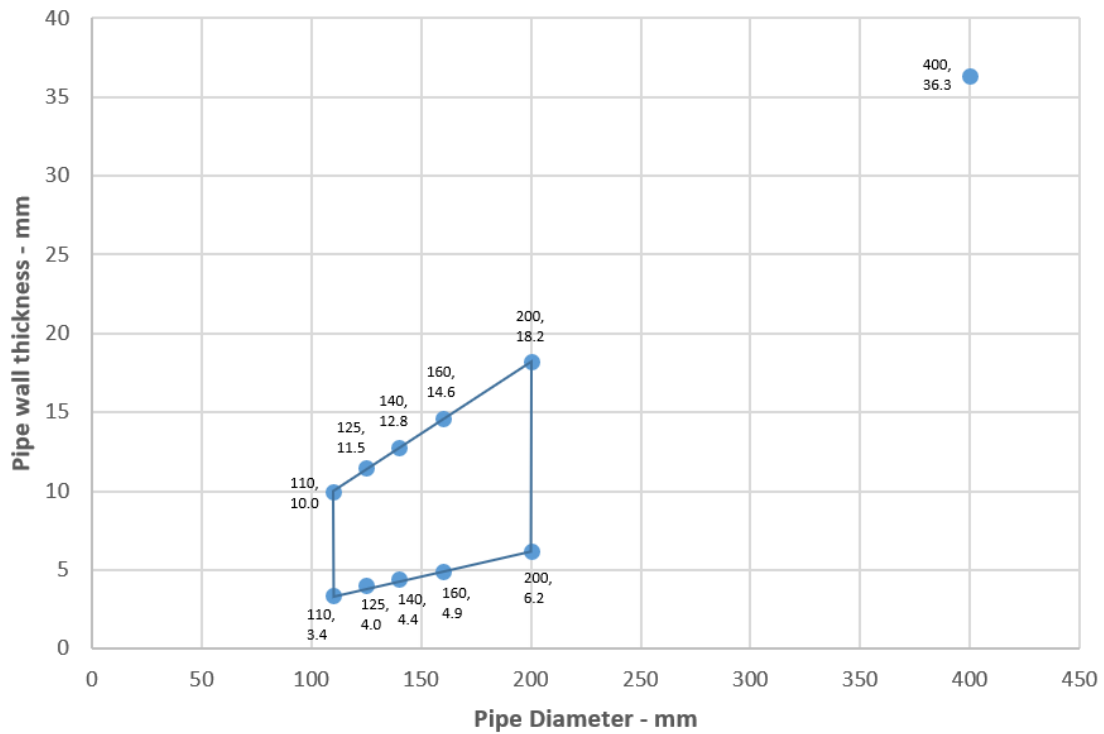


A.2.1.2.3

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4-10.0 mm*	60 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 4.0-11.5 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 4.4-12.8 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.6 mm*	60 x 15.0 mm	EI 90 U/U, EI 90 C/U, EI 90 U/C, EI 90 C/C
Diameter 200 mm, wall thickness 6.2-18.2 mm*	60 x 18.0 mm	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter 400 mm, wall thickness 36.3 mm*	100 x 40.0 mm	EI 90 C/C

* Typical pipe diameters shown, see below graphs for intermediate sizes

PE Pipes



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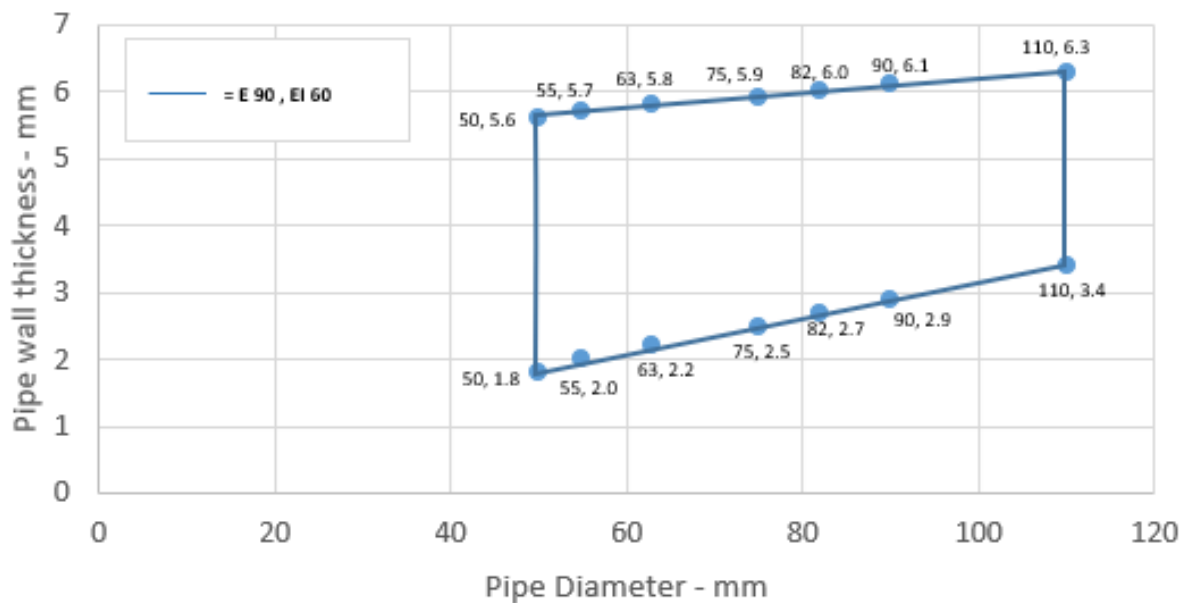


A.2.1.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 3.0-5.6 mm	30 x 3.0 mm	E 90 U/C, E 90 C/C EI 60 U/C, EI 60 C/C
Diameter 40 mm, wall thickness 3.0-5.6 mm		
Diameter 50 mm, wall thickness 3.0-5.6 mm		
Diameter 32 mm, wall thickness 1.8-4.6 mm	30 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
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 1.8-5.6 mm*	30 x 3.0 mm	E 90 U/C, E 90 C/C EI 60 U/C, EI 60 C/C
Diameter 55 mm, wall thickness 2.0-5.7 mm*	30 x 3.2 mm	
Diameter 63 mm, wall thickness 2.2-5.8 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-5.9 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.7-6.0 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-6.1 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-6.3 mm*	30 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 50-110 / 30 mm Collar - U/C



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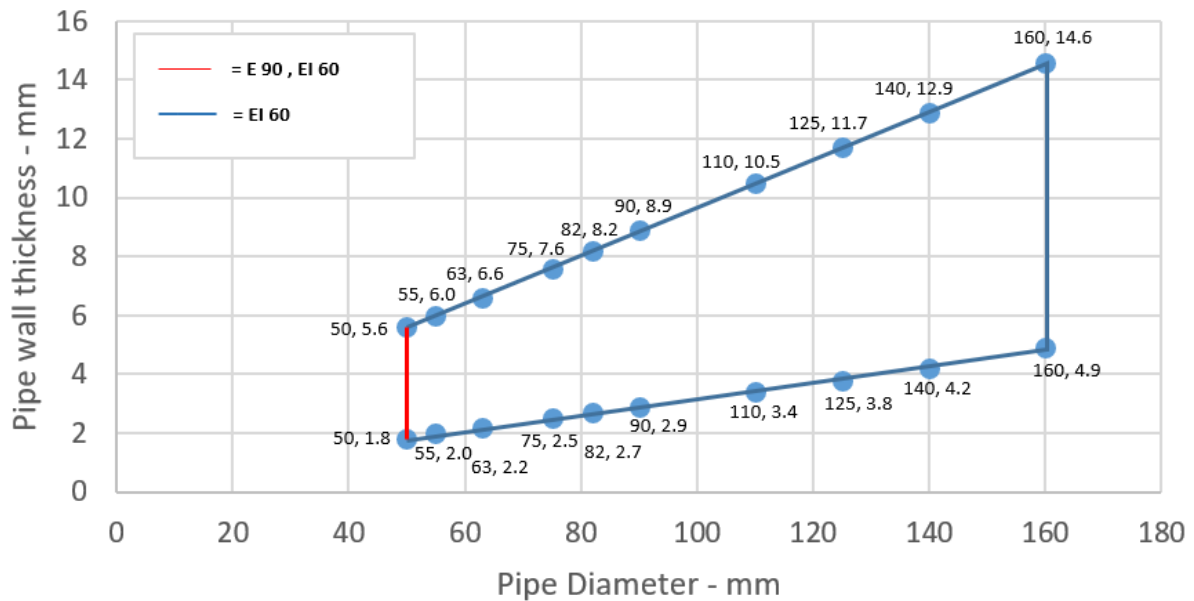
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A.2.1.3.1

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.8-5.6 mm*	50 x 3.0 mm	E 90 U/C, E 90 C/C EI 60 U/C, EI 60 C/C
Diameter 55 mm, wall thickness 2.0-6.0 mm*	50 x 3.2 mm	EI 60 U/C, EI 60 C/C
Diameter 63 mm, wall thickness 2.2-6.6 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-7.6 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.7-8.2 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-8.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.5 mm*	50 x 6.0 mm	
Diameter 125 mm, wall thickness 3.8-11.7 mm*	50 x 8.8 mm	
Diameter 140 mm, wall thickness 4.2-12.9 mm*	50 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.6 mm*	50 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 50-160 / 50 mm Collar - U/C



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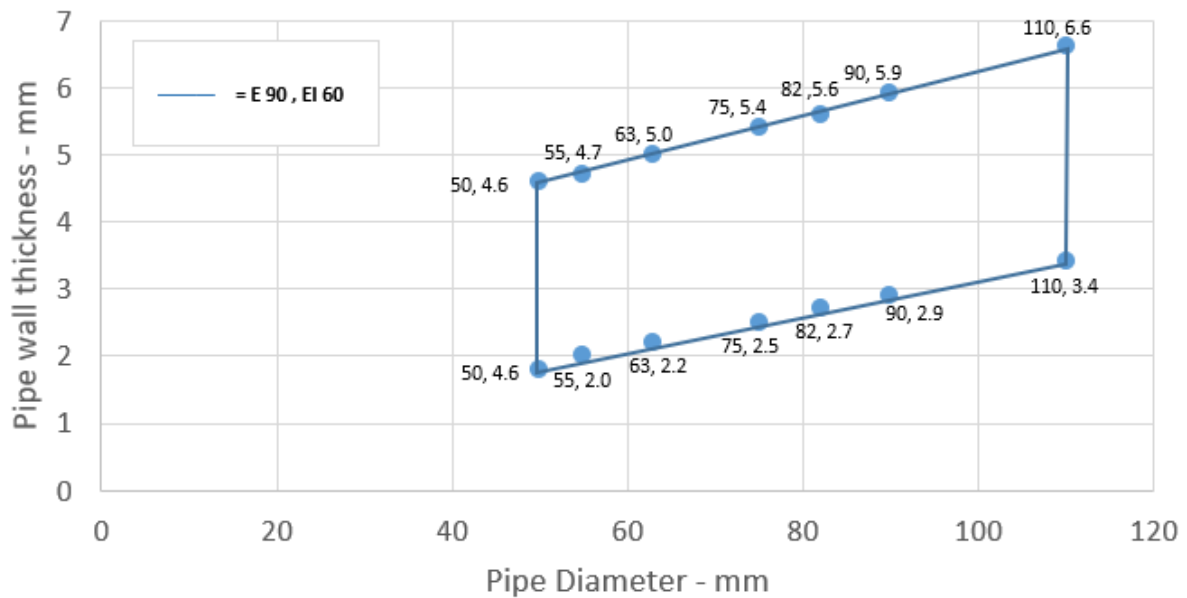
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A.2.1.3.2

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.8-4.6 mm*	50 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 55 mm, wall thickness 2.0-4.7 mm*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.2-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.7-5.6 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-6.6 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 50-110 / 50 mm Collar - U/U



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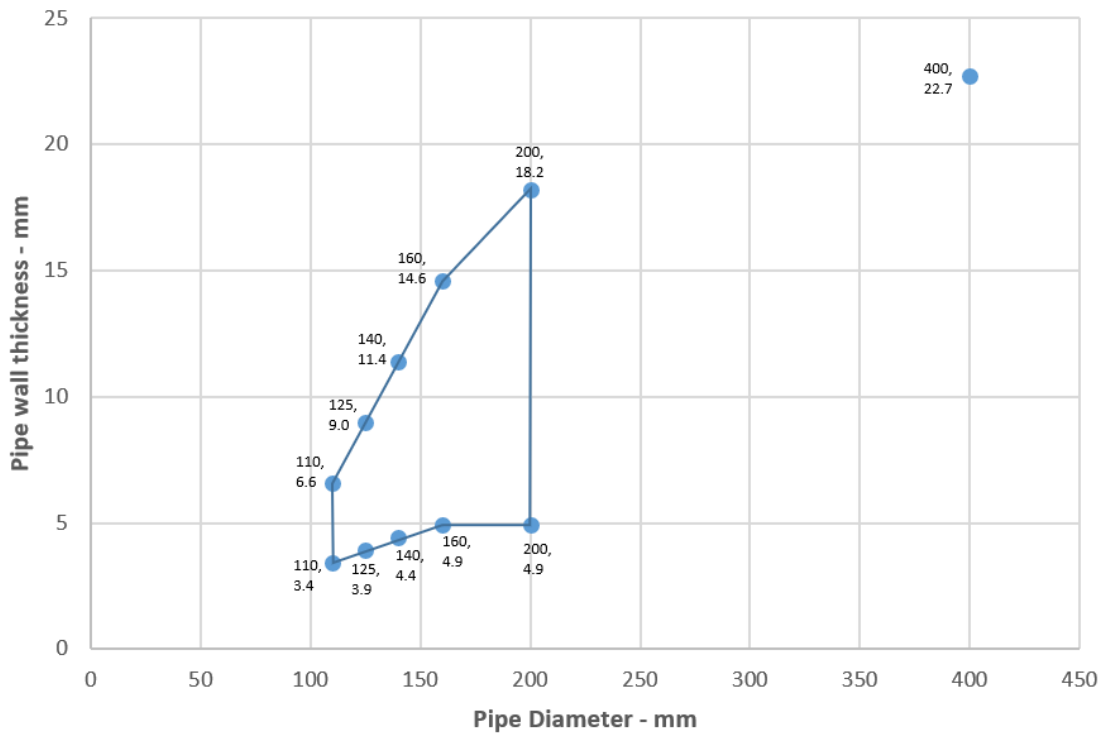
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A.2.1.3.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 3.4-6.6 mm*	60 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 3.9-9.0 mm*	60 x 9.0 mm	EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 140 mm, wall thickness 4.4-11.4 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.6 mm*	60 x 15.0 mm	
Diameter 200 mm, wall thickness 4.9-18.2 mm*	60 x 18.0 mm	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter 400 mm, wall thickness 22.7 mm*	100 x 40.0 mm	EI 60 C/C

* Typical pipe diameters shown, see below graphs for intermediate sizes

PP Pipes



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A.2.1.4.1

Services	Collar Inlay	Classification
Wavin SiTech + PP-M B according to EN 13501-1		
32-40 mm diameter/ 1.8 mm wall thickness	50 x 3.0 mm	EI 120 U/U
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	E 120 U/U, EI 60 U/U
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	30 x 3.0 mm	EI 120 C/C
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	E 120 C/C, EI 60 C/C
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	50 x 3.0 mm	EI 120 U/U
75 mm diameter/1.8-2.5 mm wall thickness	50 x 4.2 mm	E 120 U/U, EI 60 U/U
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	50 x 3.0 mm	EI 120 U/U
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	E 120 U/U, EI 90 U/U
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	E 120 U/U, EI 120 U/C
Diameter 160 mm, wall thickness 4.9 mm	60 x 15 mm	EI 120 U/U
Rehau Raupiano Plus PP-DD according to DIN 4102		
40 mm diameter/1.8 mm wall thickness	50 x 3.0 mm	E 120 U/U, EI 90 U/U
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	E 120 U/U, EI 60 U/U
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	EI 120 U/U
Diameter 160 mm, wall thickness 3.9 mm	60 x 15.0 mm	

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A.2.1.4.1

Services	Collar Inlay	Classification
BluePower Multilayer pipe – TR02-PP according to EN 1451-1		
32-40 mm diameter/1.8 mm wall thickness	50 x 3.0 mm	E 120 U/U, EI 90 U/U
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	E 120 C/U, EI 60 C/U
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	
125 mm diameter/2.3-3.8 mm wall thickness	60 x 9.0 mm	EI 60 C/U
160 mm diameter/3.4-4.9 mm wall thickness	60 x 15.0 mm	EI 90 C/U
Uponor Decibel according to EN 1451-1		
50 mm diameter/ 2.0 mm wall thickness	50 x 3.0 mm	E 120 U/U, EI 60 U/U
75 mm diameter/ 2.6 mm wall thickness	50 x 4.2 mm	
110 mm diameter/ 3.8 mm wall thickness	50 x 6.0 mm	

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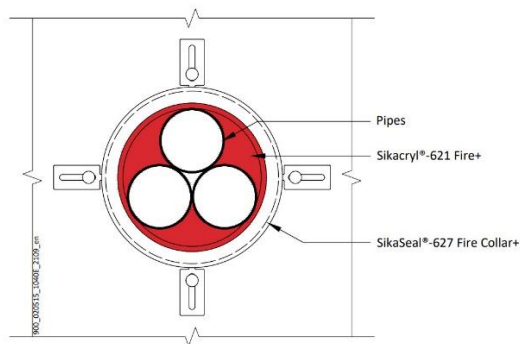
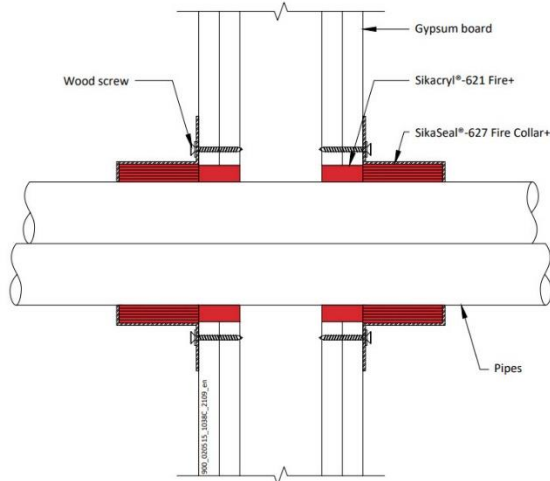
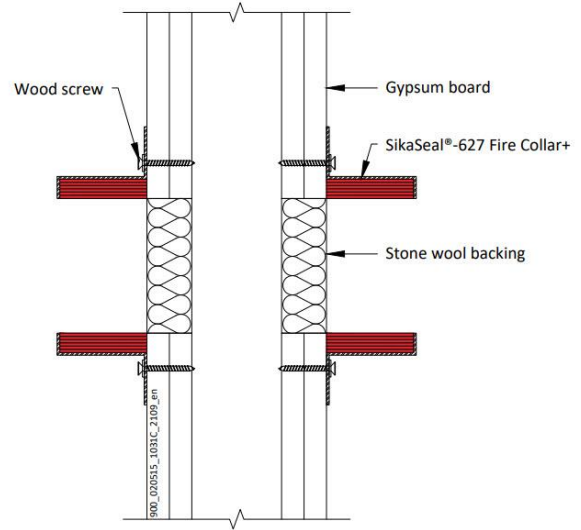
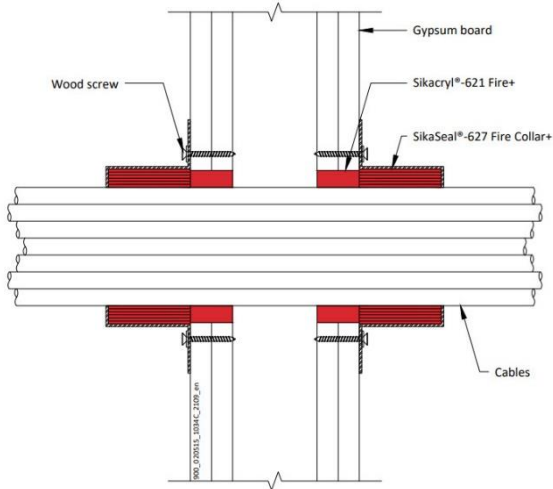
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A.2.2 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Cables and pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



A.2.2.1

Services	Collar	Collar Inlay	Classification
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)	Up to 110 mm collar at 30 mm height	Between 3.0 and 6.0 mm	E 120, EI 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	E 120, EI 60
PVC pipes up to 40 mm Ø, wall thickness 1.0-3.7 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø	Up to 110 mm collar at 50 mm height, 125-160 mm at 60 mm height	Between 3.0 and 15.0 mm	EI 90 U/C
PE pipes up to 40 mm Ø, wall thickness 2.0-3.7 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø			
PP pipes up to 40 mm Ø, wall thickness 1.8-3.7 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø			
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	E 120, EI 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	EI 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	55 mm collar at 30 mm height	3.2 mm	E 120 C/C, EI 90 C/C

PVC, PE and PP pipes can be mixed in the same bundle.

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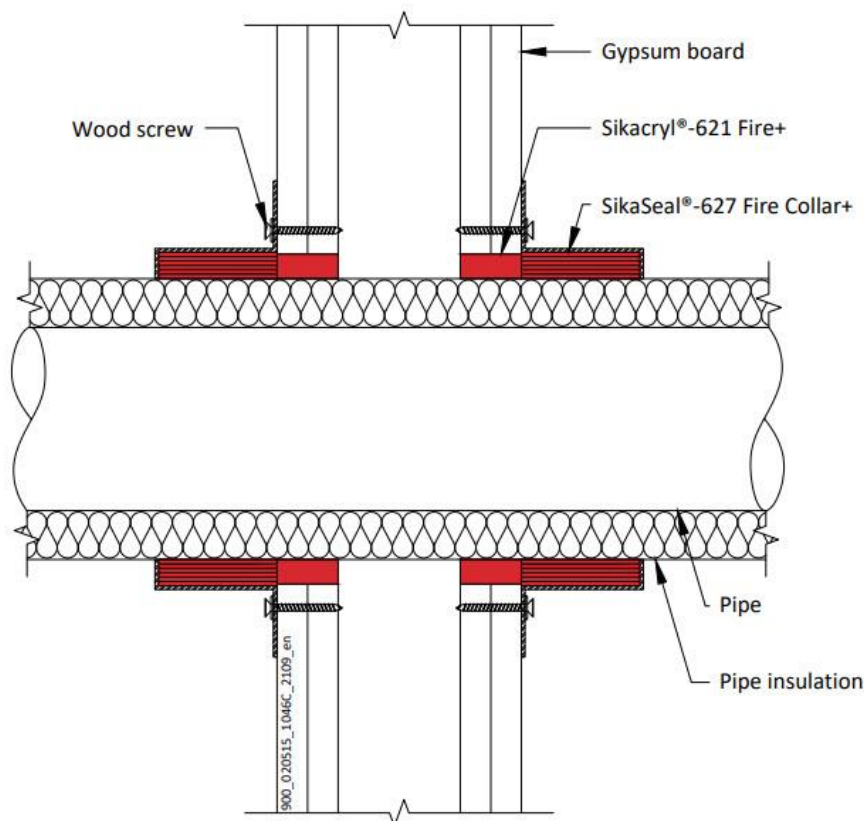
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A.2.3 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



A.2.3.1

Services	Insulation	Collar	Classification
Copper pipe or mild steel			
Maximum diameter 54 mm, wall thickness 0.7-14.2 mm*	9-50 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height, 125-160 mm at 60 mm height	E 90 C/C, EI 60 C/C
Diameter 54 mm, wall thickness 1.2 mm	25 mm thick Phenolic Foam insulation	Ø 110 x 50 x 6.0 mm	E 120 C/C, EI 60 C/C
Diameter 54 mm, wall thickness 1.2 mm	20 mm thick PE foam insulation	Ø 110 x 50 x 6.0 mm	E 120 C/C, EI 90 C/C
Alupex pipe			
Maximum diameter 75 mm, wall thickness 2.25-4.6 mm*	9-50 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height	E 90 C/C, EI 60 C/C

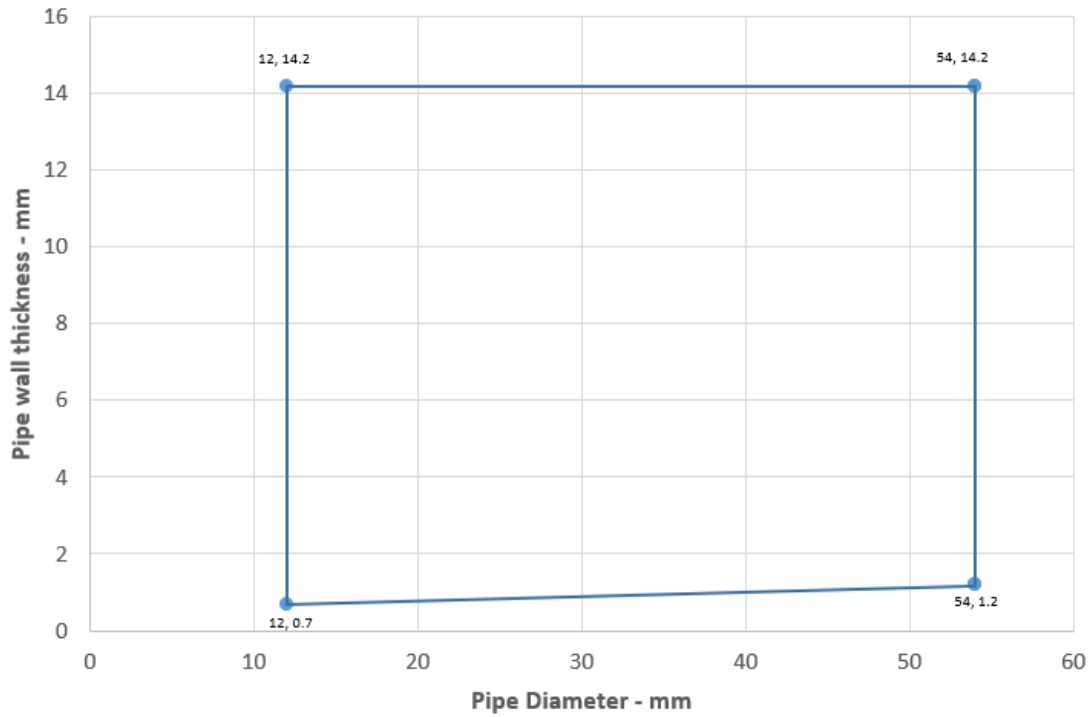
* Typical pipe diameters shown, see below graphs for intermediate sizes

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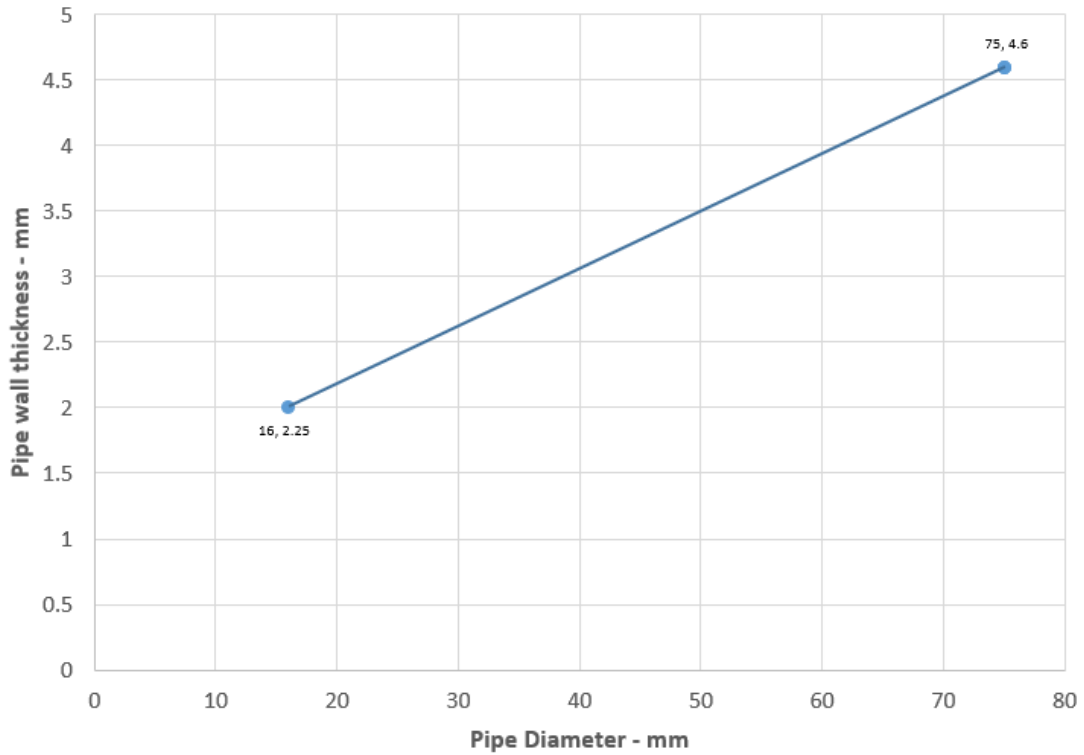
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Copper or Steel Pipes 32-54 / 9-50 mm Elastomeric Insulation



Alupex Pipes 16-75 / 9-50 mm Elastomeric Insulation - C/C



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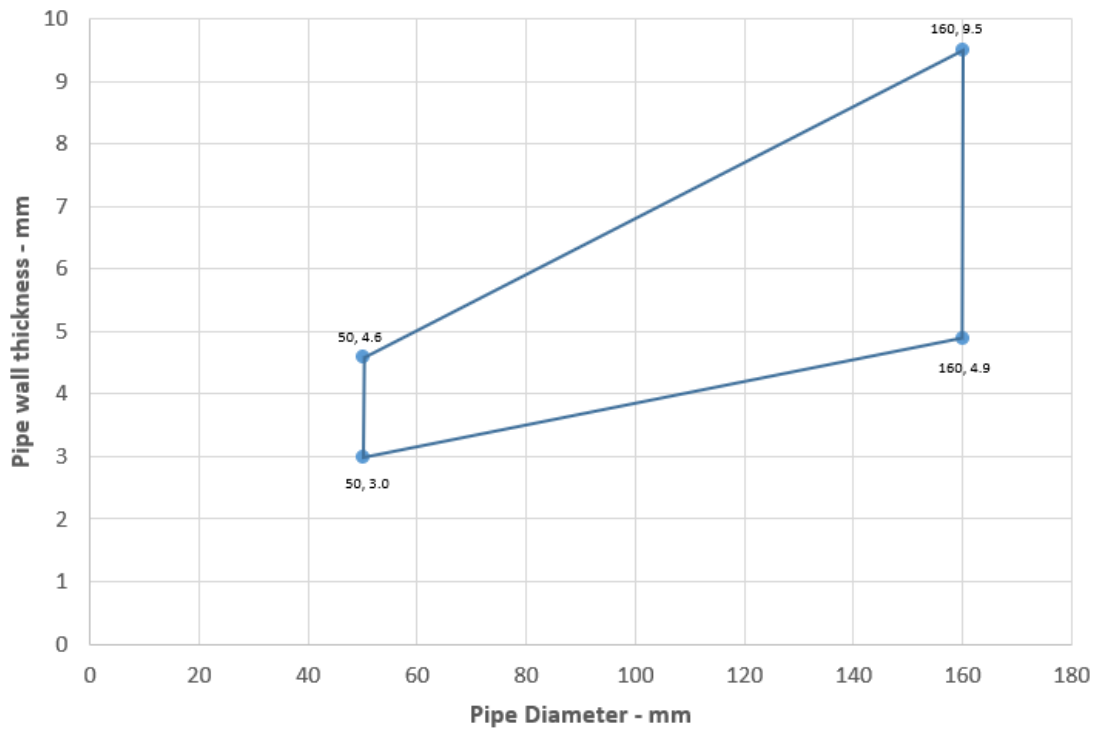


A.2.3.1.1

Services	Insulation	Collar	Classification
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			
Maximum diameter 160 mm, wall thickness 3.0-9.5 mm*	9-50 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height, 250-315 mm at 75 mm height	EI 90 C/C
Diameter 160 mm, wall thickness 4.9-9.5 mm			EI 120 C/C
PP pipe according to EN 1451-1			
Maximum diameter 160 mm, wall thickness 1.8-14.6 mm*	9-50 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height, 250-315 mm at 75 mm height	EI 90 C/C
Diameter 160 mm, wall thickness 4.9-14.6 mm			EI 120 C/C

* Typical pipe diameters shown, see below graphs for intermediate sizes

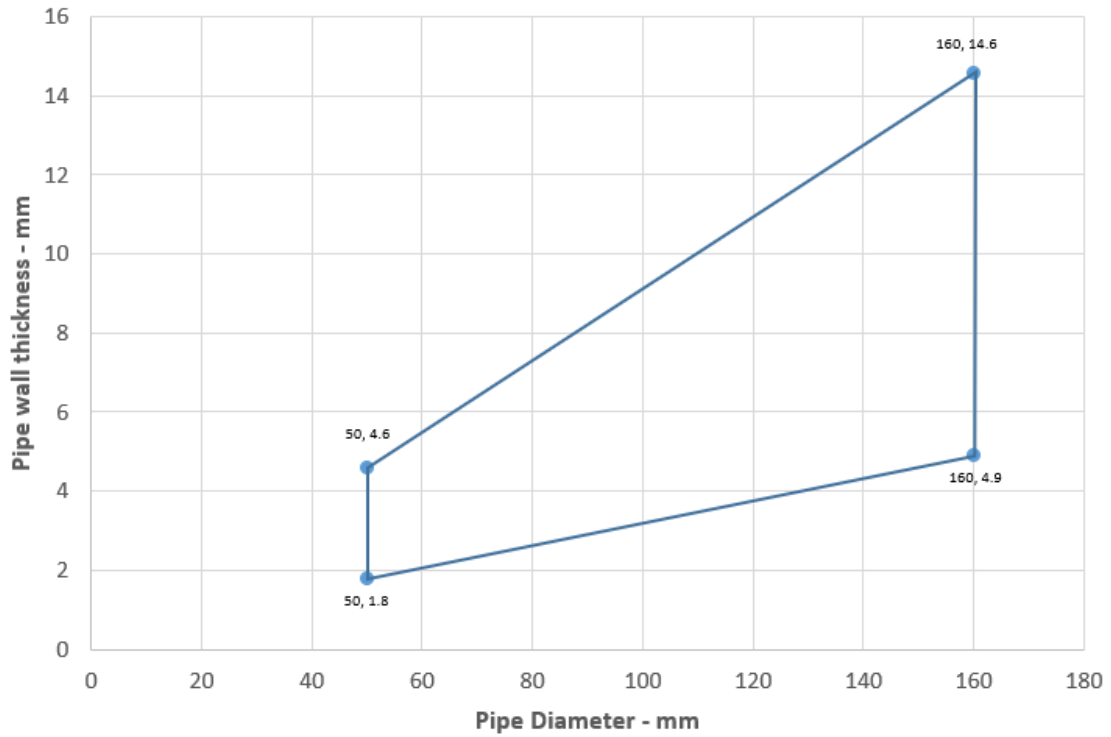
PE Pipes 50-160 with Elastomeric Insulation - C/C



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PP Pipes 50-160 with Elastomeric Insulation - C/C



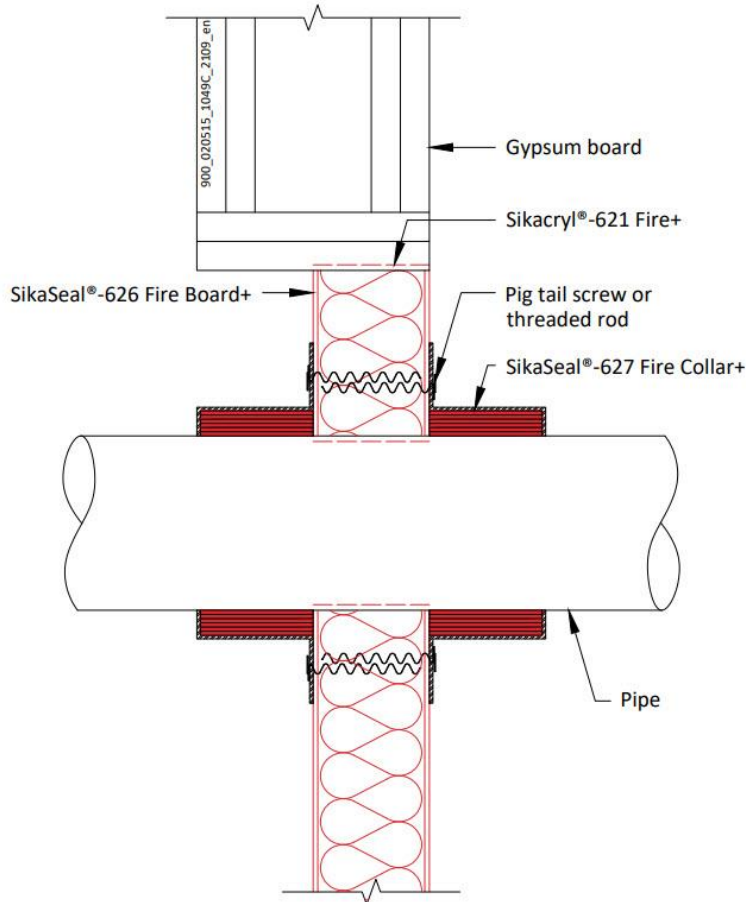
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A.2.4 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the FR Board. Minimum separation between penetration seals and seal edges of 50 mm (Configuration 1 & 2). Maximum seal size 1200 mm wide x 600 mm high.

Construction details:



A.2.4.1

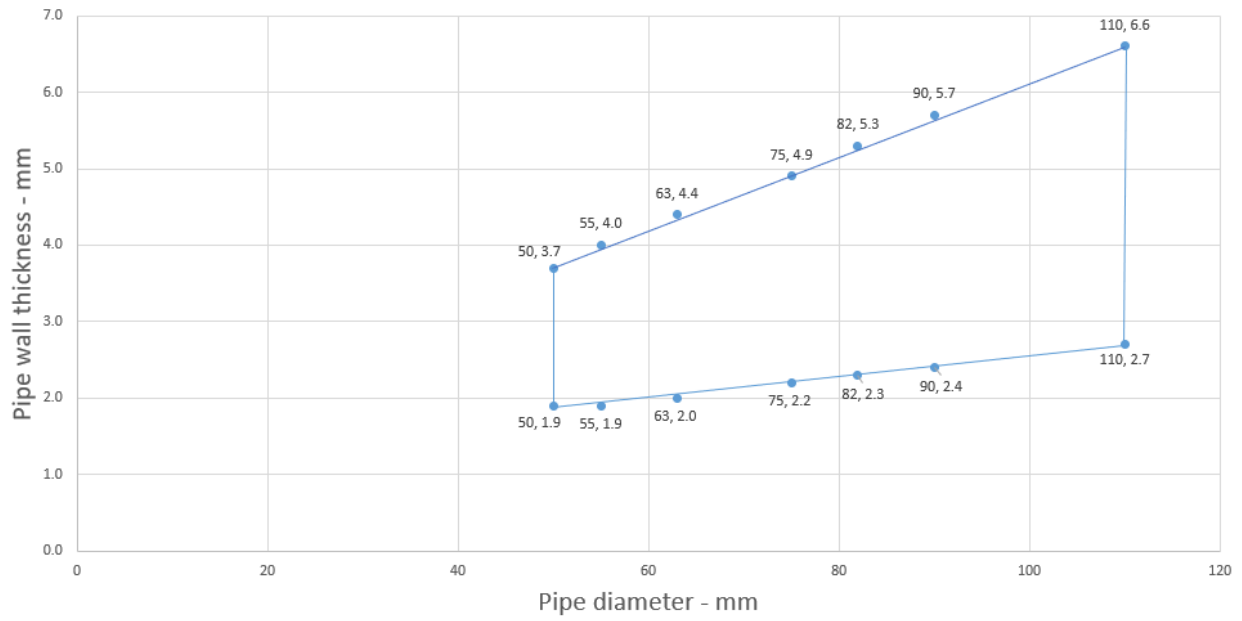
Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
32-50 mm diameter / 1.9-3.7 mm wall thickness	50 x 3.0 mm	E 120 U/C, EI 60 U/C
55 mm, / 1.9-4.0 mm wall thickness	50 x 3.2 mm	E 90 U/C, EI 60 U/C
63 mm, / 2.0-4.4 mm wall 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	

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PVC pipes 50-110 / 50 mm Collar - U/C



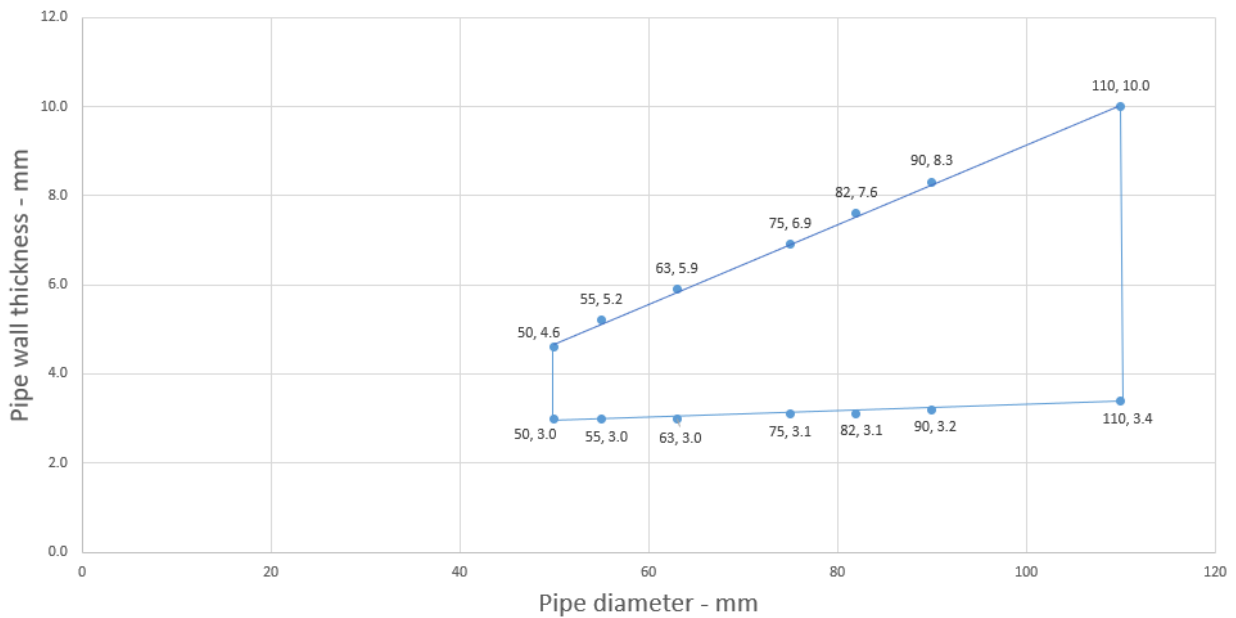
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A.2.4.2

Services	Collar Inlay	Classification
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	50 x 3.0 mm	E 120 U/C, EI 60 U/C
55 mm, / 3.0-5.2 mm wall thickness	50 x 3.2 mm	E 90 C/C, EI 60 C/C
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	

PE pipes 50-110 / 50 mm Collar - C/C



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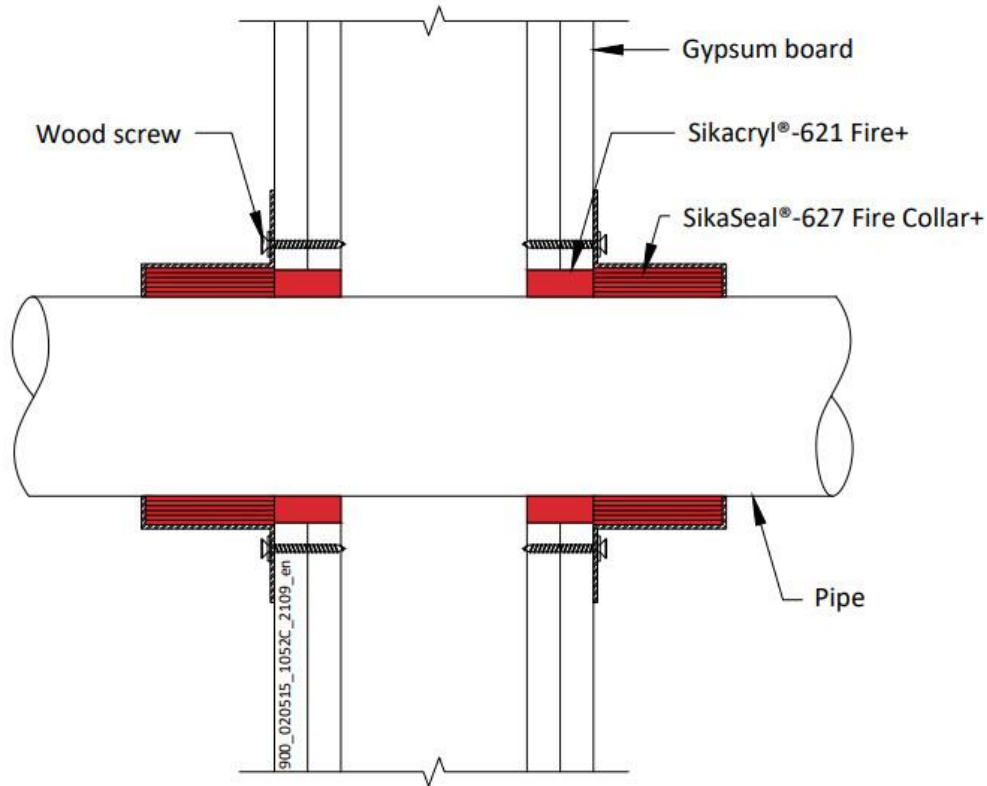


A.3 Flexible or rigid wall constructions with wall thickness of minimum 120 mm

A.3.1 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



A.3.1.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 32-50 mm, wall thickness 2.4-3.7 mm*	50 x 3.0 mm	EI 120 C/C
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	

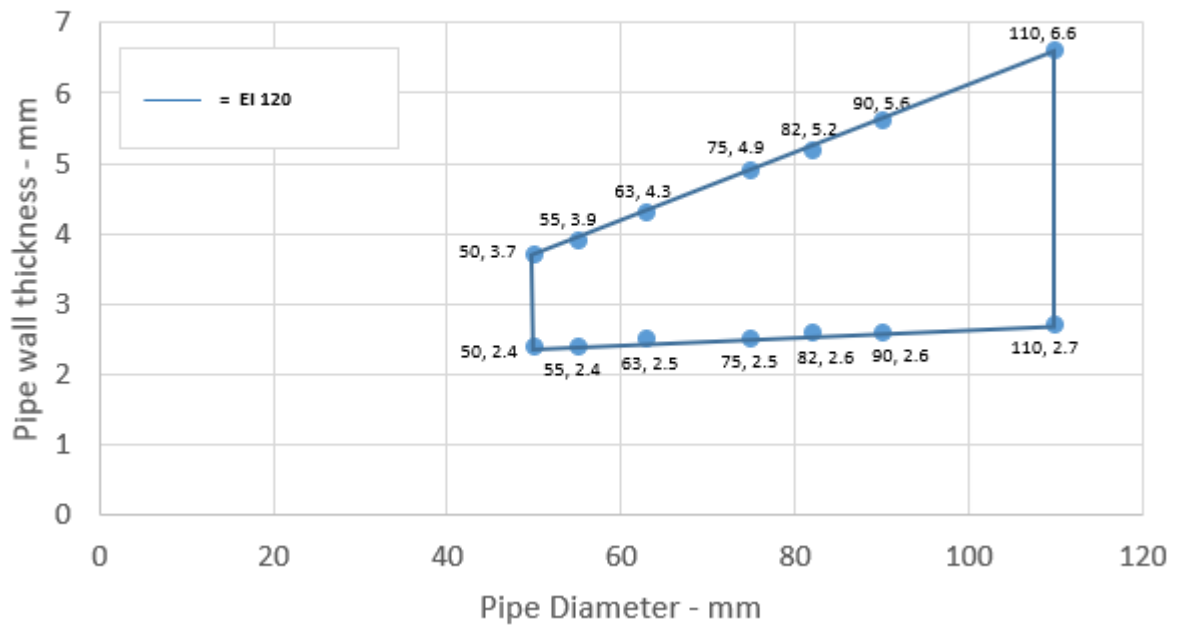
* Typical pipe diameters shown, see below graph for intermediate sizes

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PVC Pipes 50-110 / 50 mm Collar -C/C



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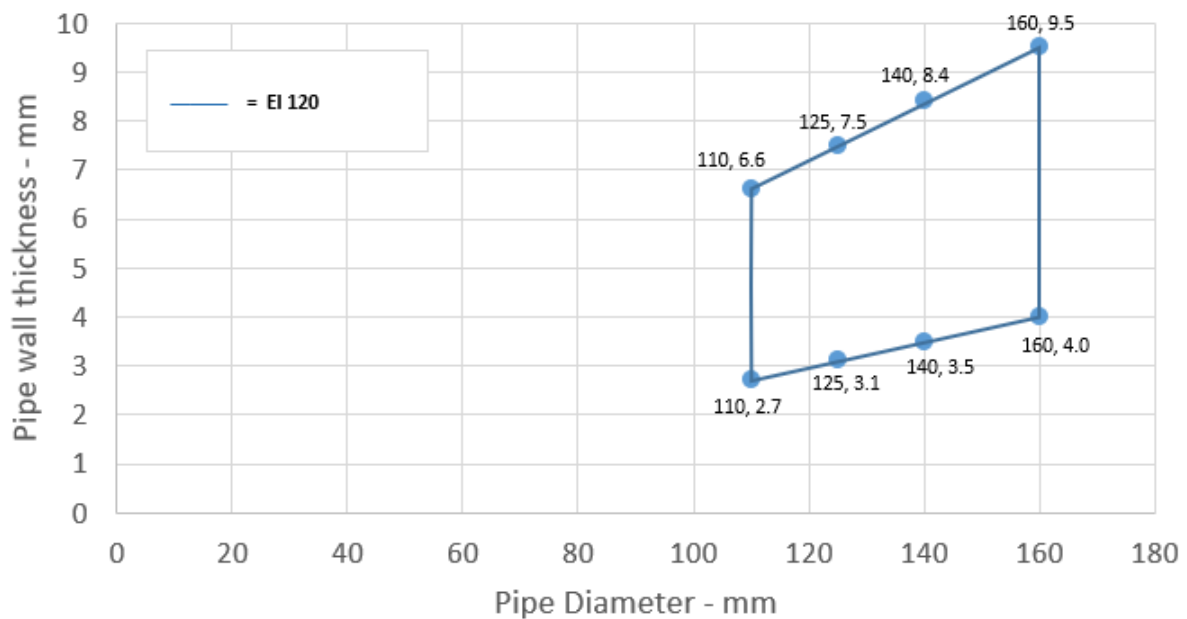
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A.3.1.1.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	EI 120 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar - C/C



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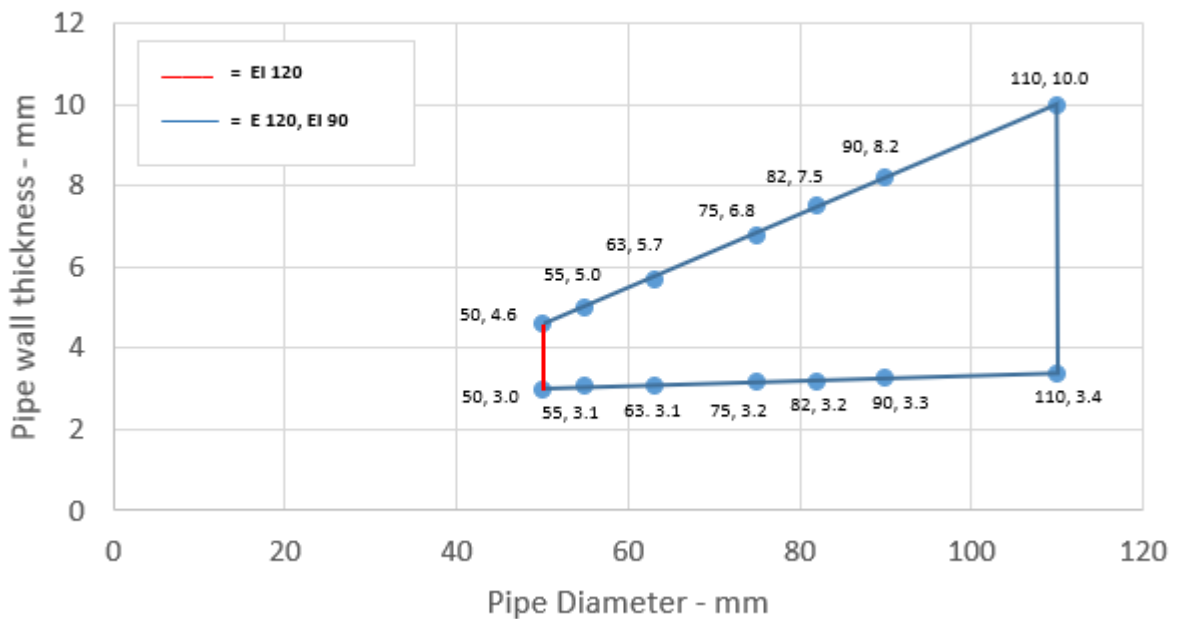
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A.3.1.2

Services	Collar Inlay	Classification
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 32-50 mm, wall thickness 3.0-4.6 mm*	50 x 3.0 mm	EI 120 C/C
Diameter 55 mm, wall thickness 3.1-5.0 mm*	50 x 3.2 mm	E 120 C/C, EI 90 C/C
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	EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 50 mm Collar - C/C



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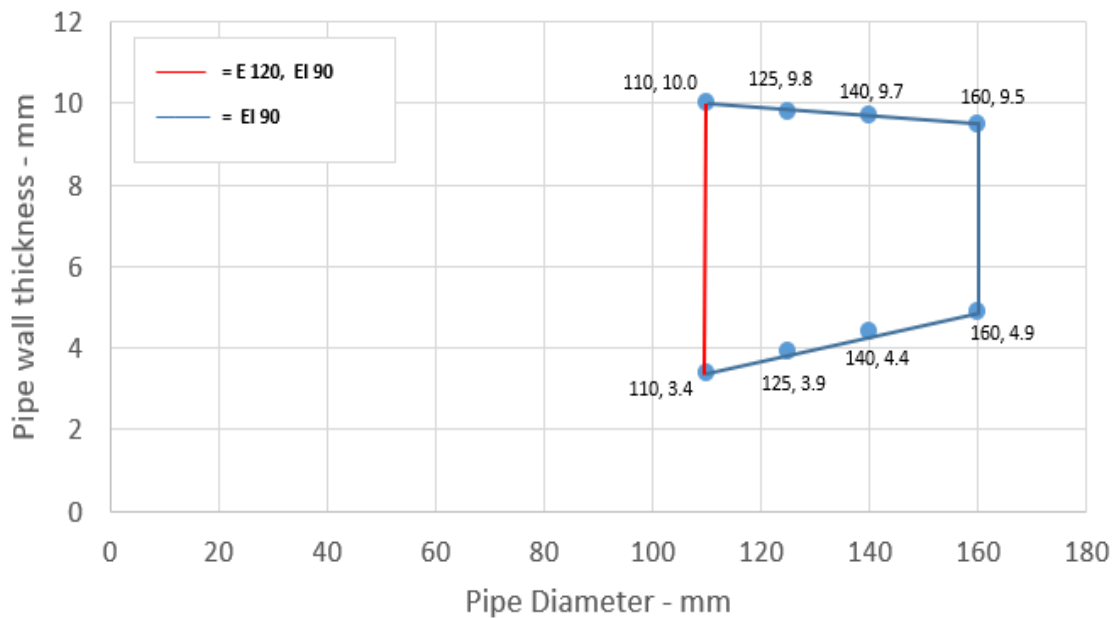


A.3.1.2.1

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4-10.0 mm*	50 x 6.0 mm	E 120 C/C, EI 90 C/C
Diameter 125 mm, wall thickness 3.9-9.8 mm*	60 x 8.8 mm	EI 90 C/C
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	EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 125-160 / 60 mm Collar - C/C



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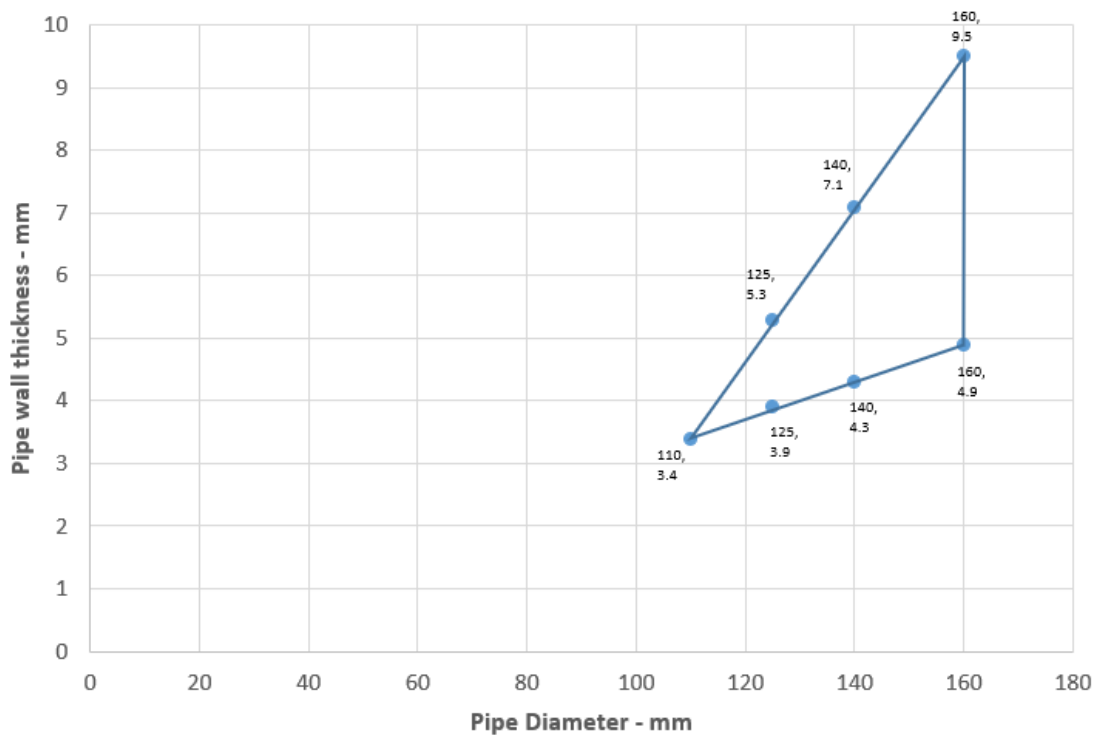
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A.3.1.2.2

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4 mm*	50 x 6.0 mm	EI 120 C/C
Diameter 125 mm, wall thickness 3.9-5.3 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 4.3-7.1 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 110-200 / 60 mm Collar



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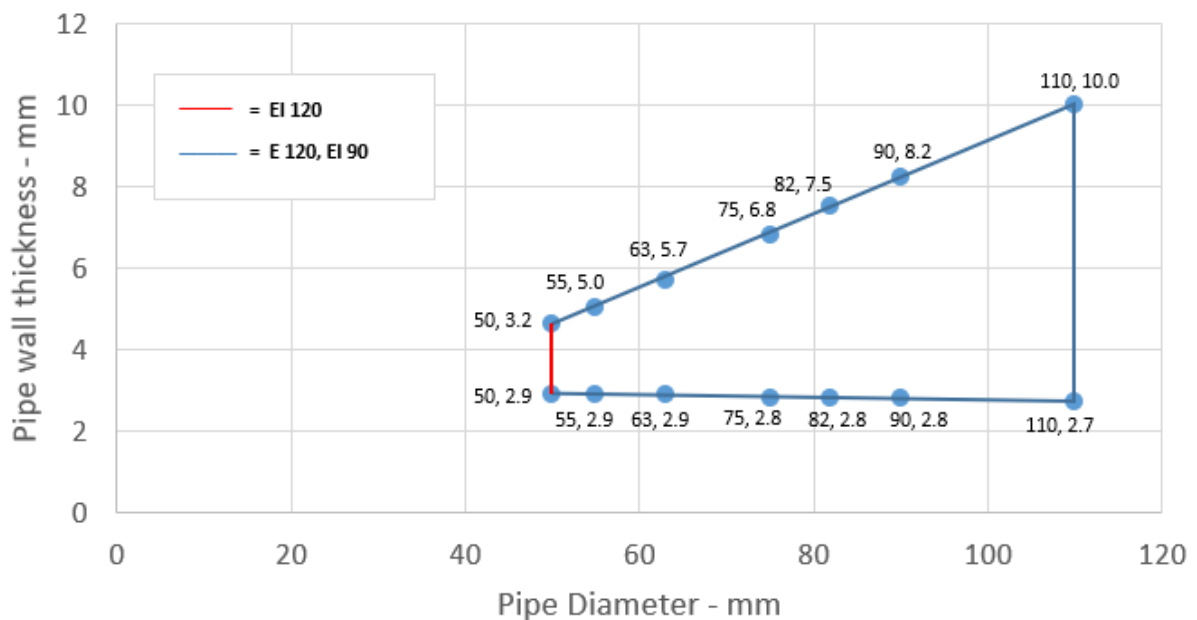
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A.3.1.3

Services	Collar Inlay	Classification
PP pipe according to DIN 8077/8078		
Diameter 32-50 mm, wall thickness 2.9-4.6 mm	50 x 3.0 mm	EI 120 C/C
Diameter 55 mm, wall thickness 2.9-5.0 mm*	50 x 3.2 mm	E 120 C/C, EI 90 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 50-110 / 50 mm Collar - C/C

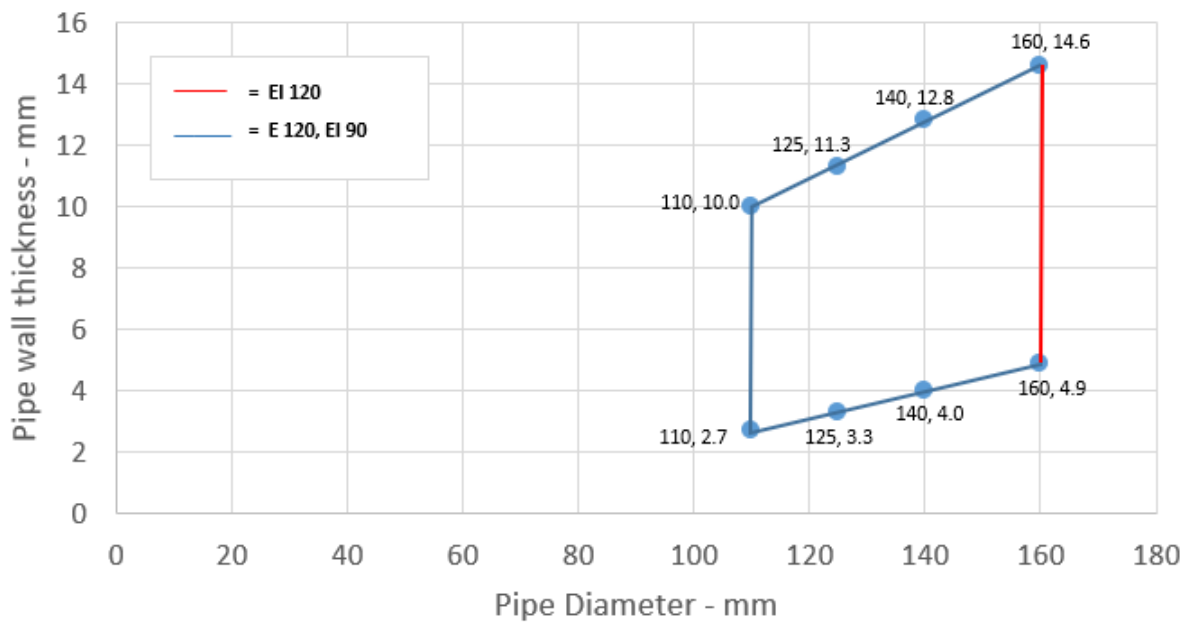


A.3.1.3.1

Services	Collar Inlay	Classification
PP pipe according to DIN 8077/8078		
Diameter 110 mm, wall thickness 2.7-10 mm*	50 x 6.0 mm	E 120 C/C, EI 90 C/C
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	EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm collar - C/C



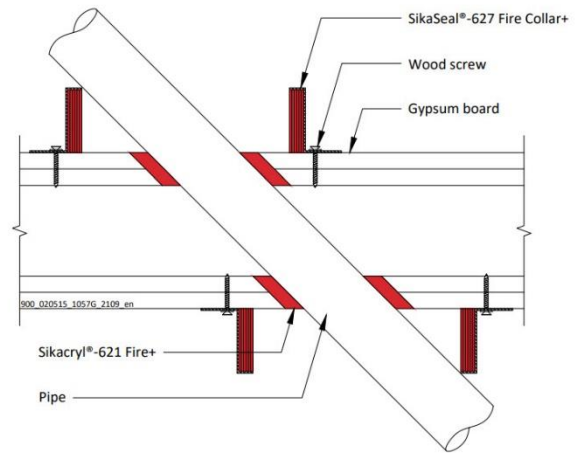
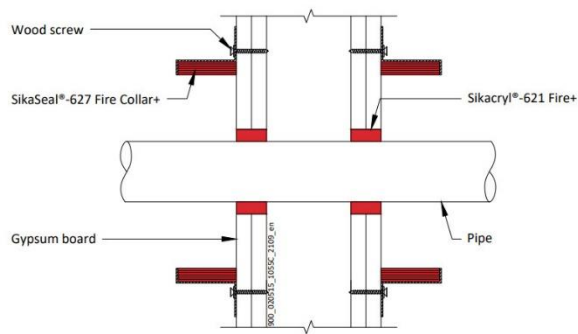
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A.3.4 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



A.3.4.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 50 mm, wall thickness 2.4 mm #	60 x 15.0 mm	EI 90 C/C

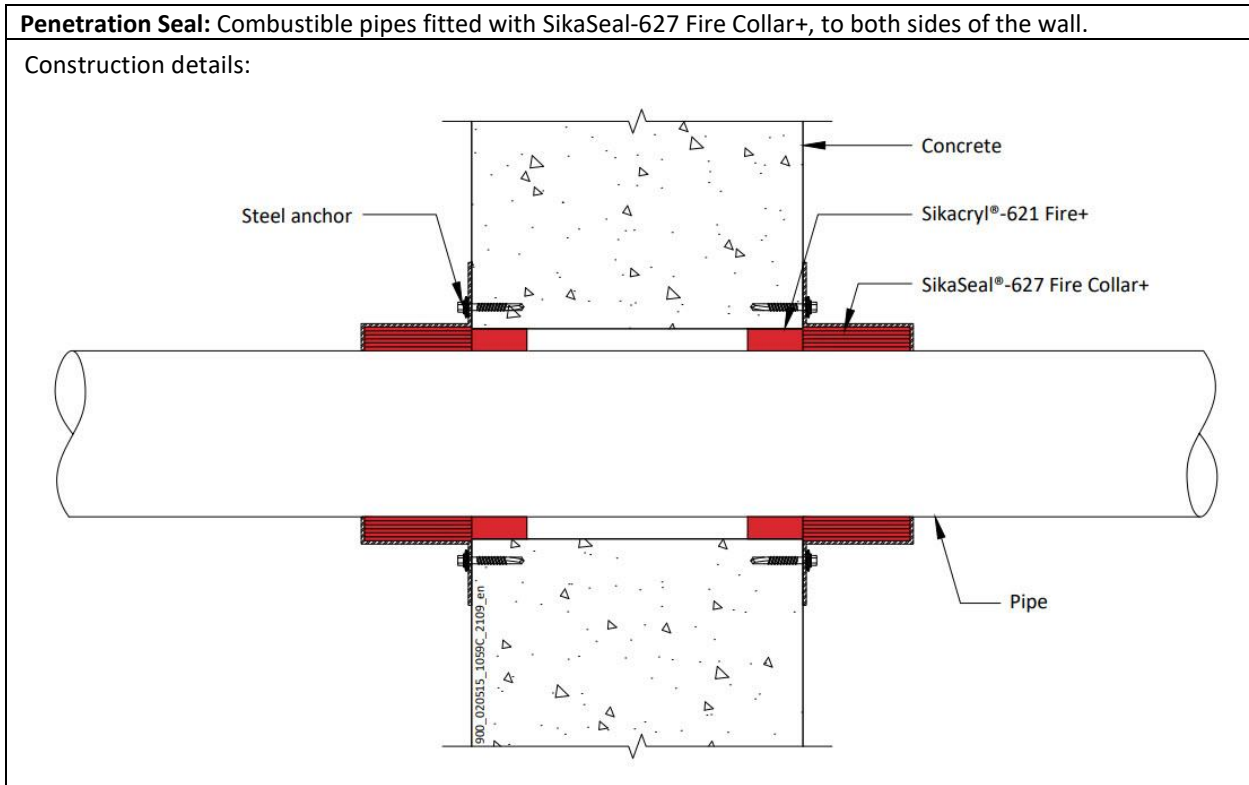
#Pipe fitted at 45° to the face of the partition in a horizontal plane

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A.4 Rigid walls constructions with wall thickness of minimum 150 mm

A.4.1 Penetration seals, in concrete/masonry walls



A.4.1.1

Services	Collar Inlay	Classification
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*		E 240 U/U, E 240 C/U, E 240 U/C, E 240 C/C EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 40 mm, wall thickness 2.0-3.7 mm*	50 x 3.0 mm	
Diameter 50 mm, wall thickness 2.0-3.7 mm*		
Diameter 55 mm, wall thickness 2.1-3.9 mm*	50 x 3.2 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 63 mm, wall thickness 2.2-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.3-4.9 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.4-5.2 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.5-5.6 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	

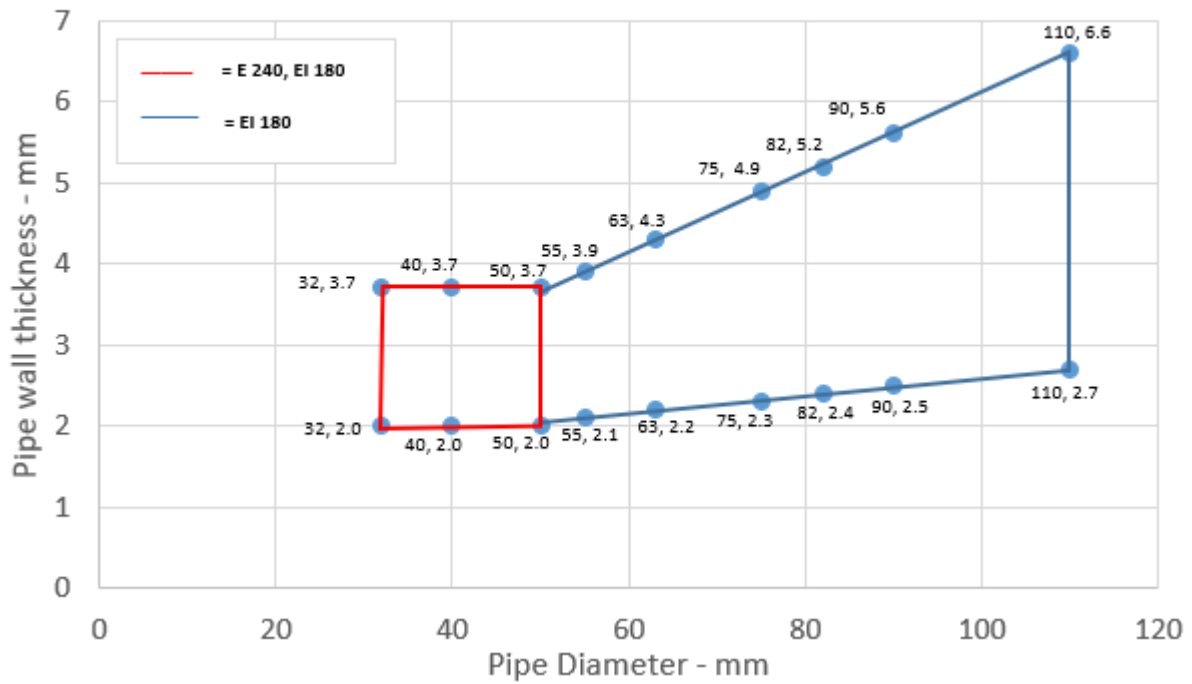
* Typical pipe diameters shown, see below graph for intermediate sizes

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PVC Pipes 32-110 / 50 mm Collar - U/U



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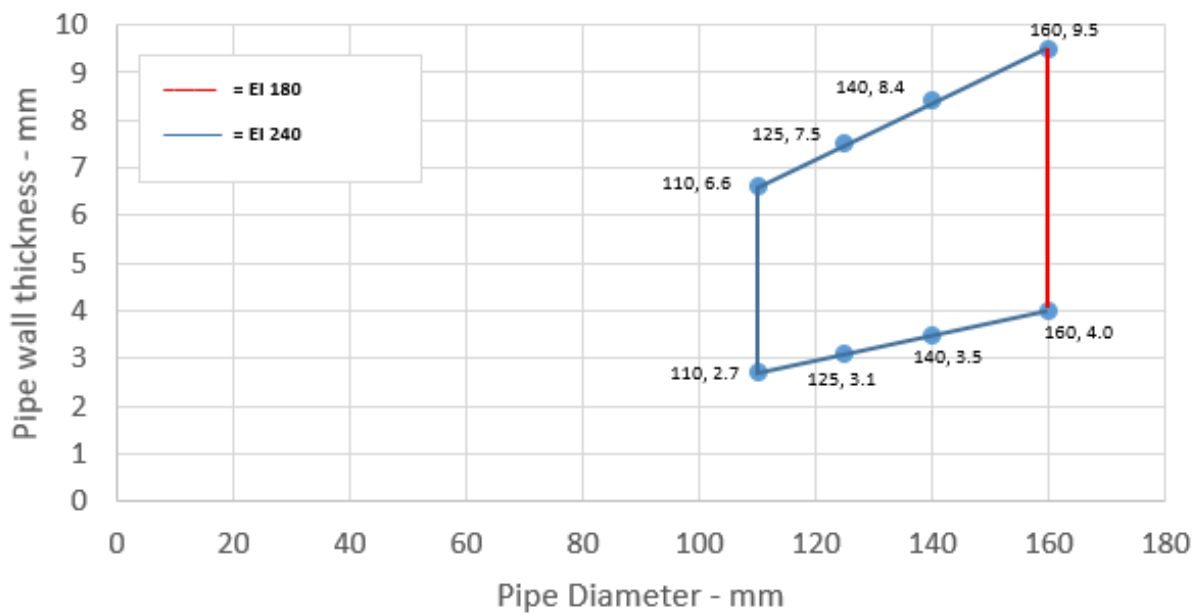
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A.4.1.1.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 125 mm, wall thickness 3.1-7.5 mm*	60 x 8.8 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
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 315 mm, wall thickness 9.2 mm	75 x 18 mm	EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar - U/U



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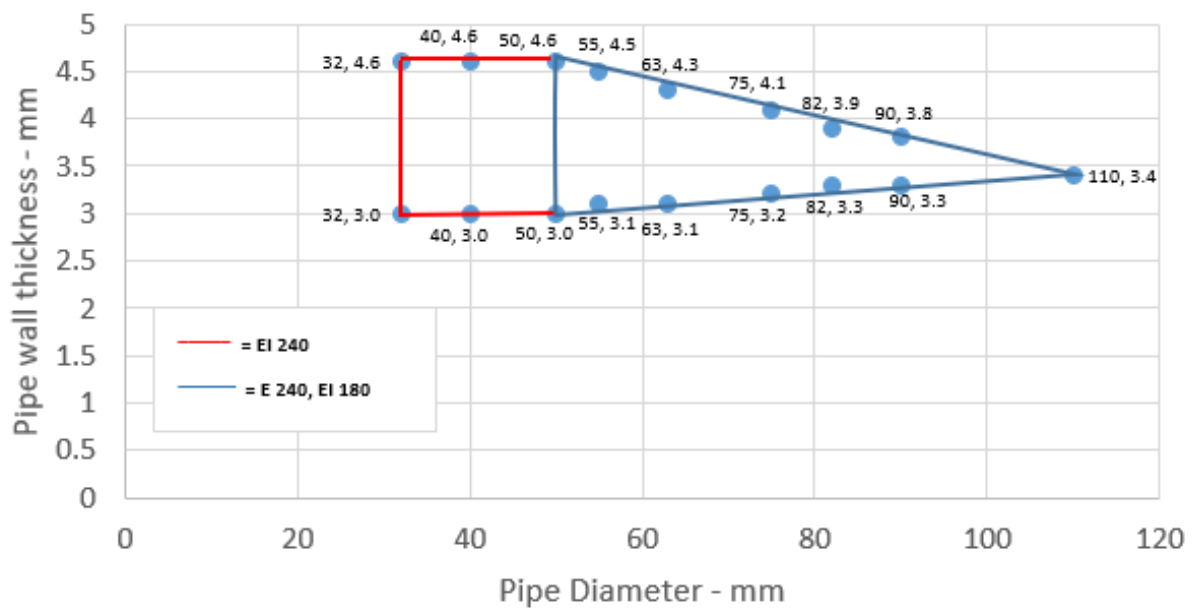
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A.4.1.2

Services	Collar Inlay	Classification
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*	50 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
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*	50 x 3.2 mm	E 240 U/U, E 240 C/U, E 240 U/C, E 240 C/C EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 63 mm, wall thickness 3.1-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 3.2-4.1 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 3.3-3.9 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-3.8 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 32-110 / 50 mm Collar-U/U



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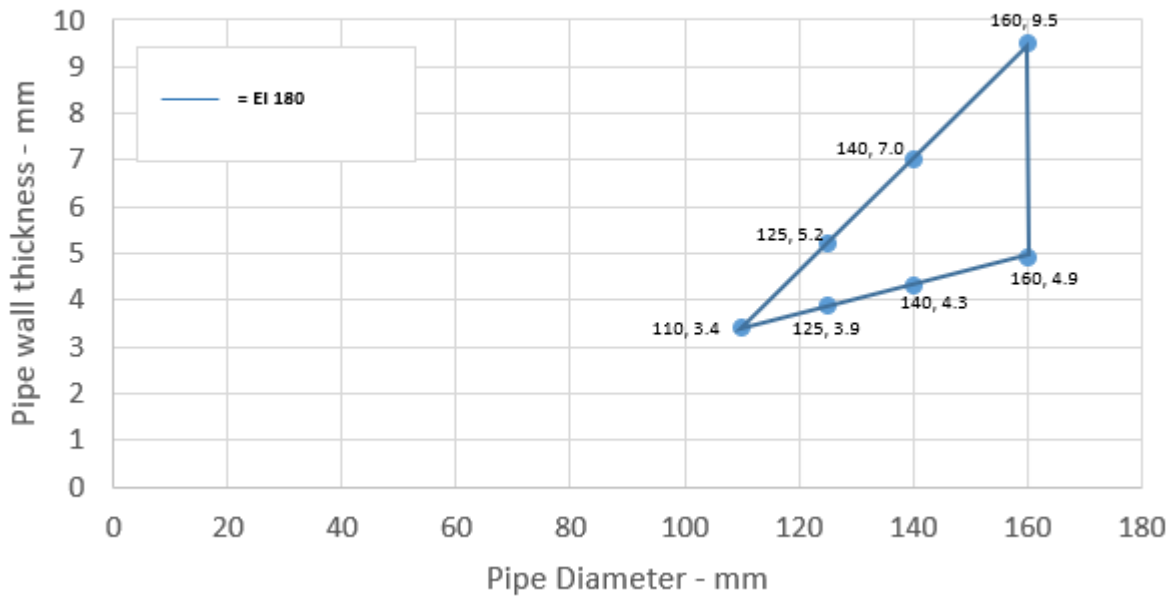


A.4.1.2.1

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4 mm*	50 x 6.0 mm	E 240 U/U, E 240 C/U, E 240 U/C, E 240 C/C EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 125 mm, wall thickness 3.9-5.2 mm*	60 x 9.0 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 140 mm, wall thickness 4.3-7.0 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	EI 60 C/C
Diameter 250 mm, wall thickness 22.7 mm	75 x 12.6 mm	E 120 C/C EI 90 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 125-160 / 60 mm Pipes - U/U



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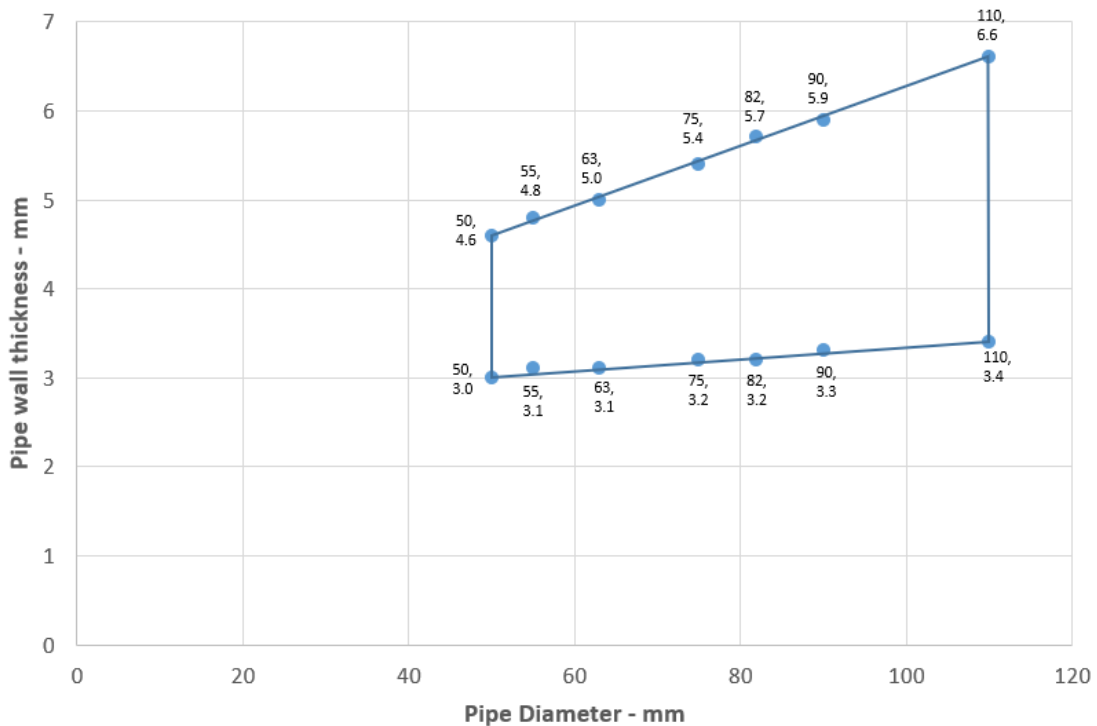
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A.4.1.2.2

Services	Collar Inlay	Classification
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 50 mm, wall thickness 3.0-4.6 mm*	50 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 55 mm, wall thickness 3.1-4.8 mm*	50 x 3.2 mm	E 180 U/C, E 180 C/C EI 120 U/C, EI 120 C/C
Diameter 63 mm, wall thickness 3.1-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 3.2-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 3.2-5.7 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-6.6 mm*	50 x 6.0 mm	
Diameter 125 mm, wall thickness 3.8-7.5 mm*	60 x 9.0 mm	
Diameter 140 mm, wall thickness 4.3-8.3 mm*	60 x 11.5 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 160 mm, wall thickness 4.9-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 50 mm Collar

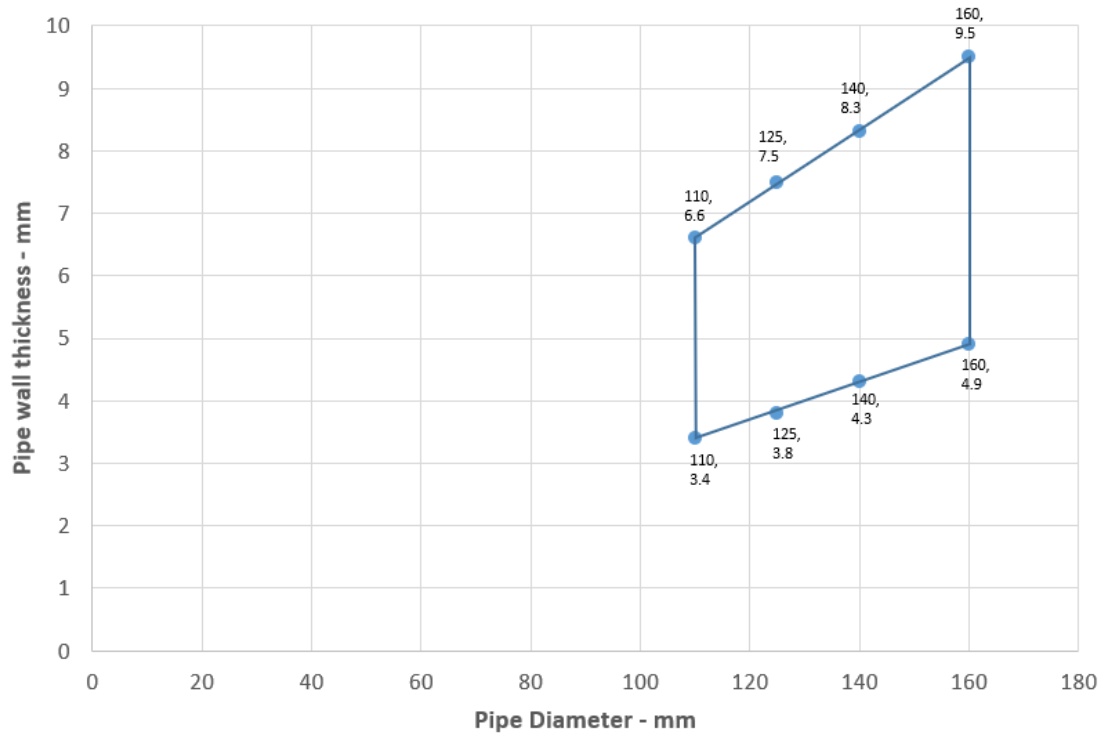


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PE Pipes 125-160 / 60 mm Collar



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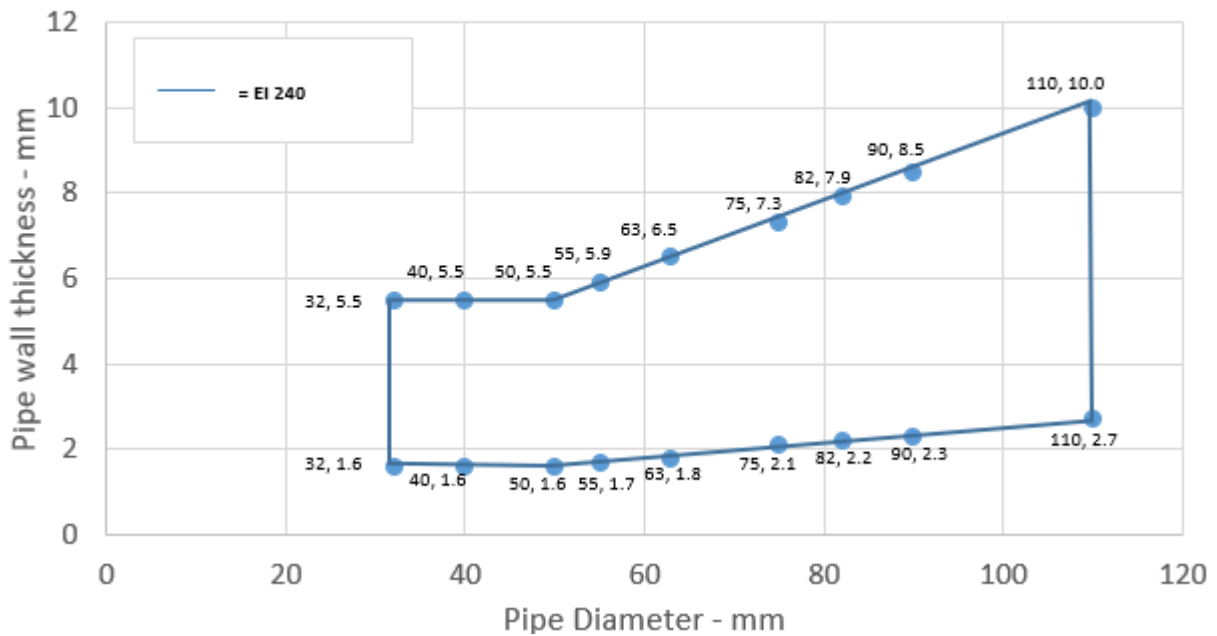


A.4.1.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 1.6-5.5 mm*	30 x 3.0 mm	EI 240 U/C, EI 240 C/C
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*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 1.8-6.5 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.1-7.3 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.2-7.9 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.3-8.5 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-10.0 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 32-110 / 50 mm Collar - U/C



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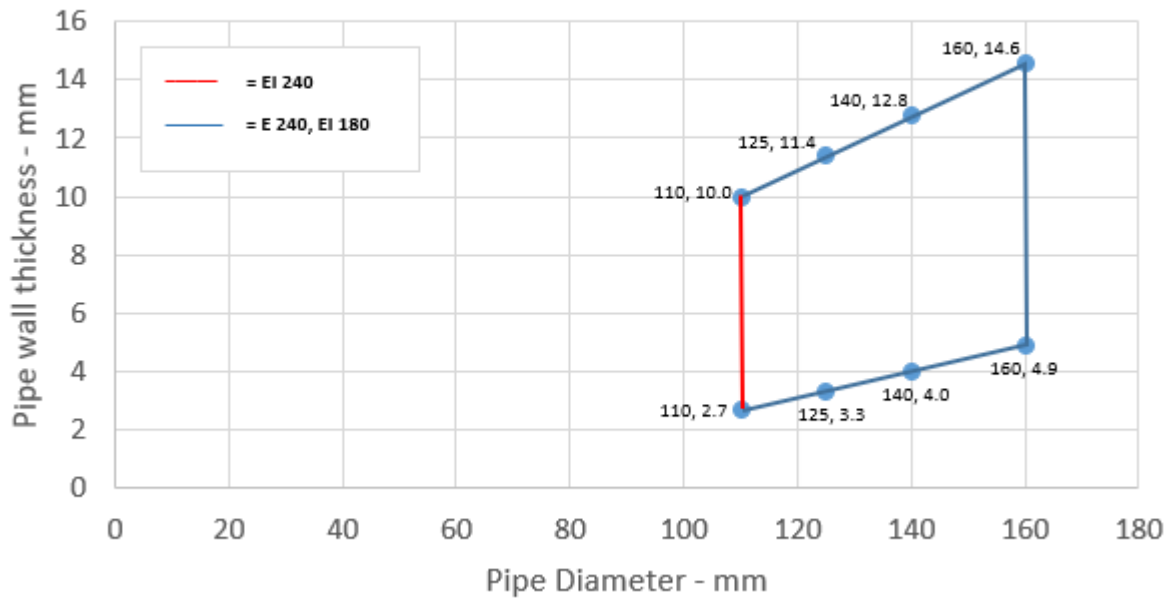


A.4.1.3.1

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 2.7-10.0 mm*	50 x 6.0 mm	EI 240 U/C, EI 240 C/C
Diameter 125 mm, wall thickness 3.3-11.4 mm*	60 x 9.0 mm	E 240 U/C, E 240 C/C EI 180 U/C, EI 180 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm Collar - U/C



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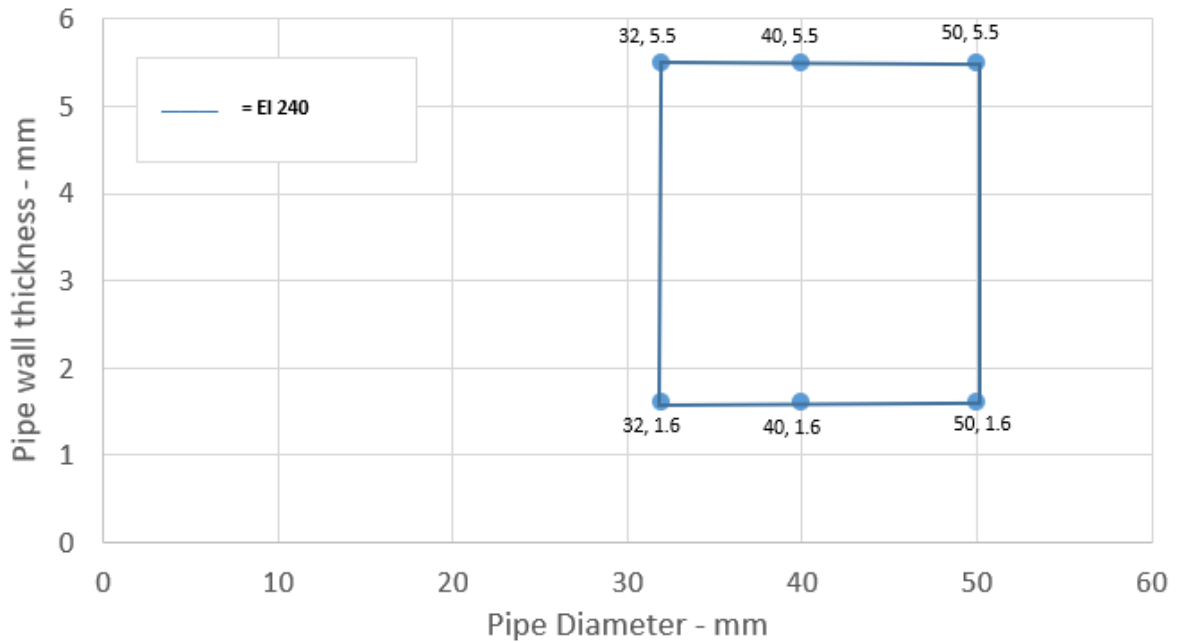


A.4.1.3.2

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1	30 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 32 mm, wall thickness 1.6-5.5 mm*		
Diameter 40 mm, wall thickness 1.6-5.5 mm*		
Diameter 50 mm, wall thickness 1.6-5.5 mm*		

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 32-50 / 30 mm Collar - U/U



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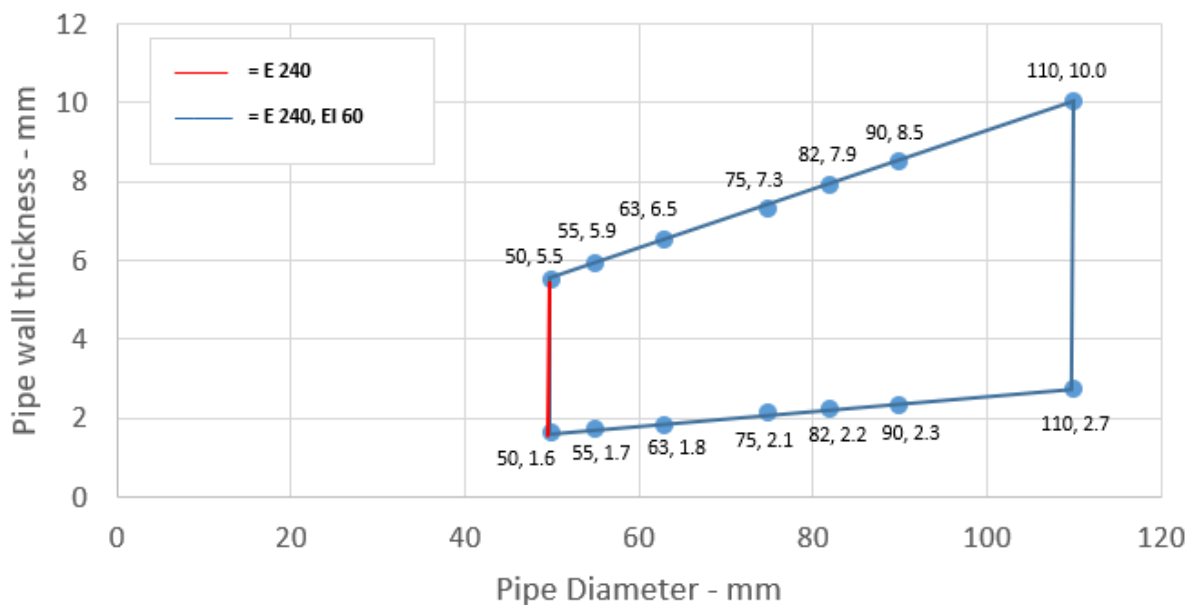
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A.4.1.3.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.6-5.5 mm*	50 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 55 mm, wall thickness 1.7-5.9 mm*	50 x 3.2 mm	E 240 U/U, E 240 C/U, EI 60 U/U, EI 60 C/U
Diameter 63 mm, wall thickness 1.8-6.5 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.1-7.3 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.2-7.9 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.3-8.5 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-10.0 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 55-110 / 50 mm Collar - U/U



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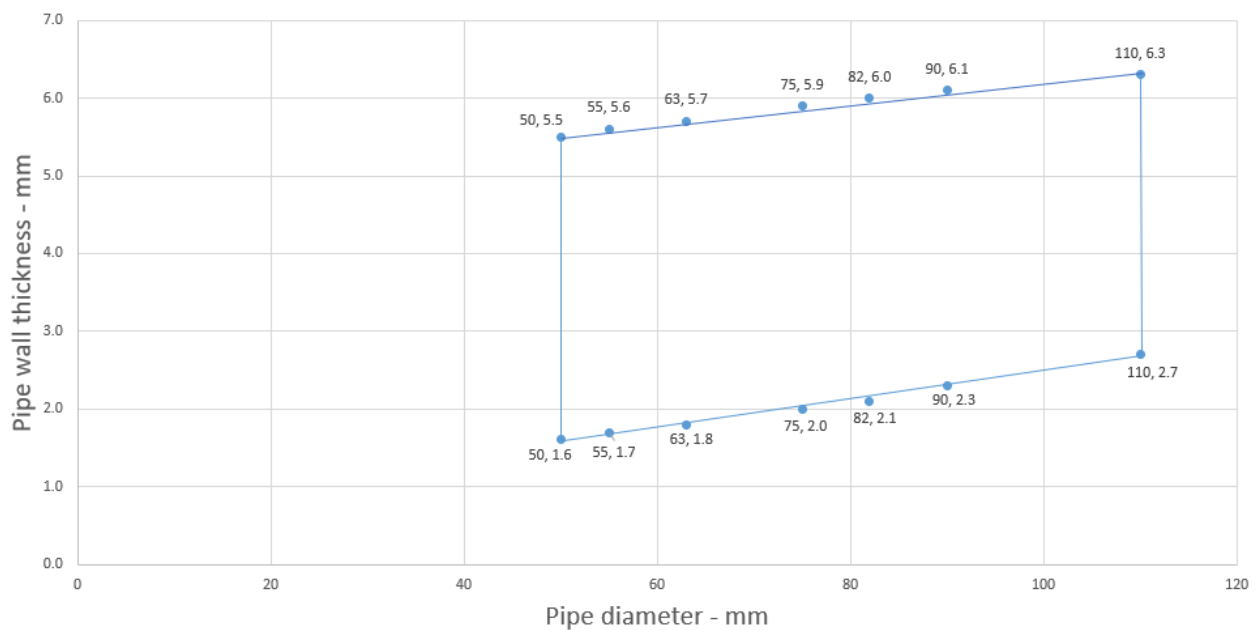
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A.4.1.3.4

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.6-5.5 mm*	50 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 55 mm, wall thickness 1.7-5.6 mm*	50 x 3.2 mm	E 240 U/U, EI 90 U/U
Diameter 63 mm, wall thickness 1.8-5.7 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.0-5.9 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.1-6.0 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.3-6.1 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.3 mm	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP pipes 50-110 / 50 mm Collar - U/U



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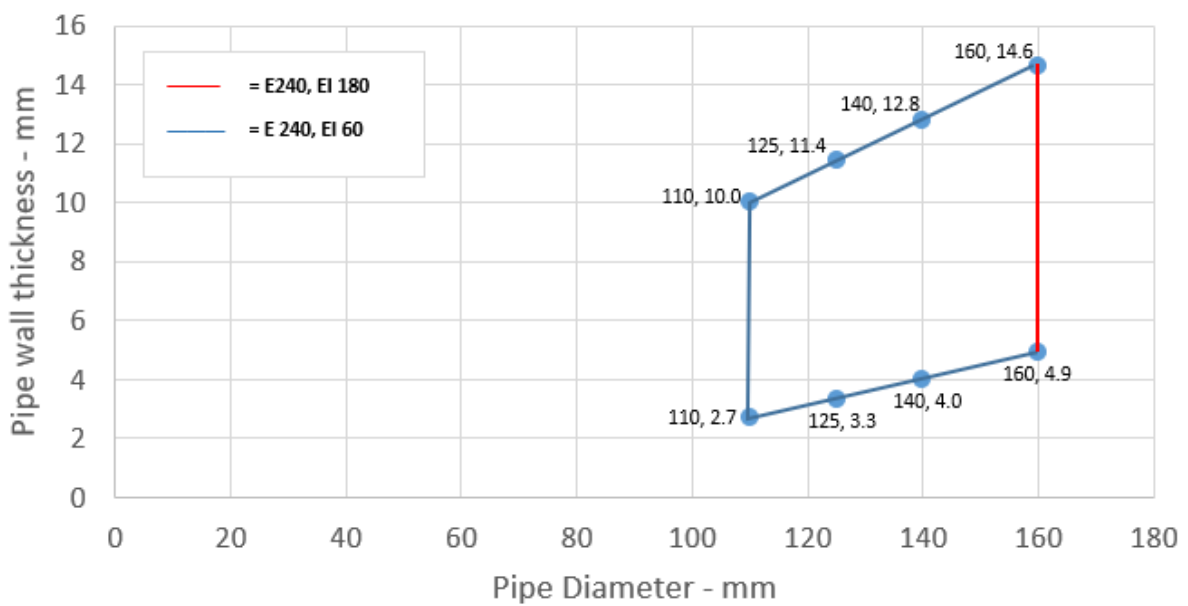
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A.4.1.3.5

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 2.7-10.0 mm*	60 x 6.0 mm	E 240 U/U, E 240 C/U, EI 60 U/U, EI 60 C/U
Diameter 125 mm, wall thickness 3.3-11.4 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	E 240 U/U, E 240 C/U, E 240 U/C, E 240 C/C EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm Collar - U/U



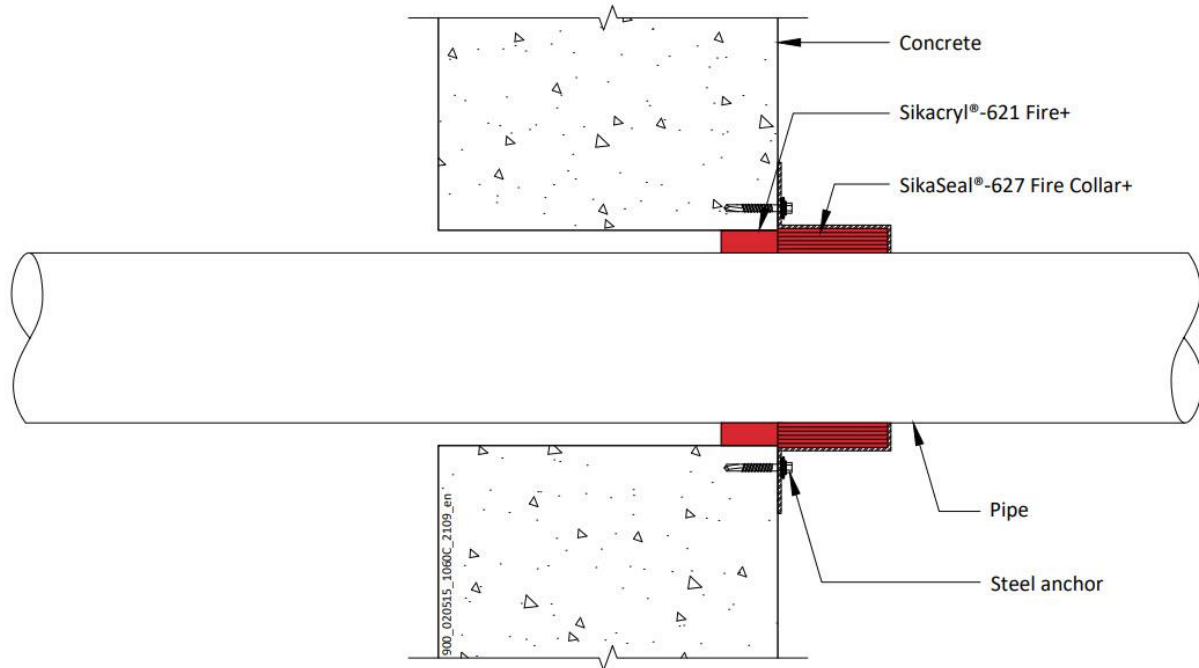
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A.4.2 Penetration seals, in concrete/masonry walls

Penetration Seal: Combustible pipes fitted with single SikaSeal-627 Fire Collar+, to either side of the wall.

Construction details:



A.4.2.1

Services	Collar Inlay	Classification
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 2.4-3.7 mm	50 x 3.0 mm	E 240 U/C, E 240 C/C EI 180 U/C, EI 180 C/C
Diameter 40 mm, wall thickness 2.4-3.7 mm		
Diameter 50 mm, wall thickness 2.4-3.7 mm*		
Diameter 55 mm, wall thickness 2.5-3.9 mm*	50 x 3.2 mm	E 180 U/C, E 180 C/C EI 120 U/C, EI 120 C/C
Diameter 63 mm, wall thickness 2.6-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.7-4.9 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.8-5.2 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-5.6 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.2-6.6 mm*	50 x 6.0 mm	EI 120 U/C, EI 120 C/C
Diameter 125 mm, wall thickness 3.4-7.5 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 3.7-8.3 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.0-9.5 mm*	60 x 15.0 mm	

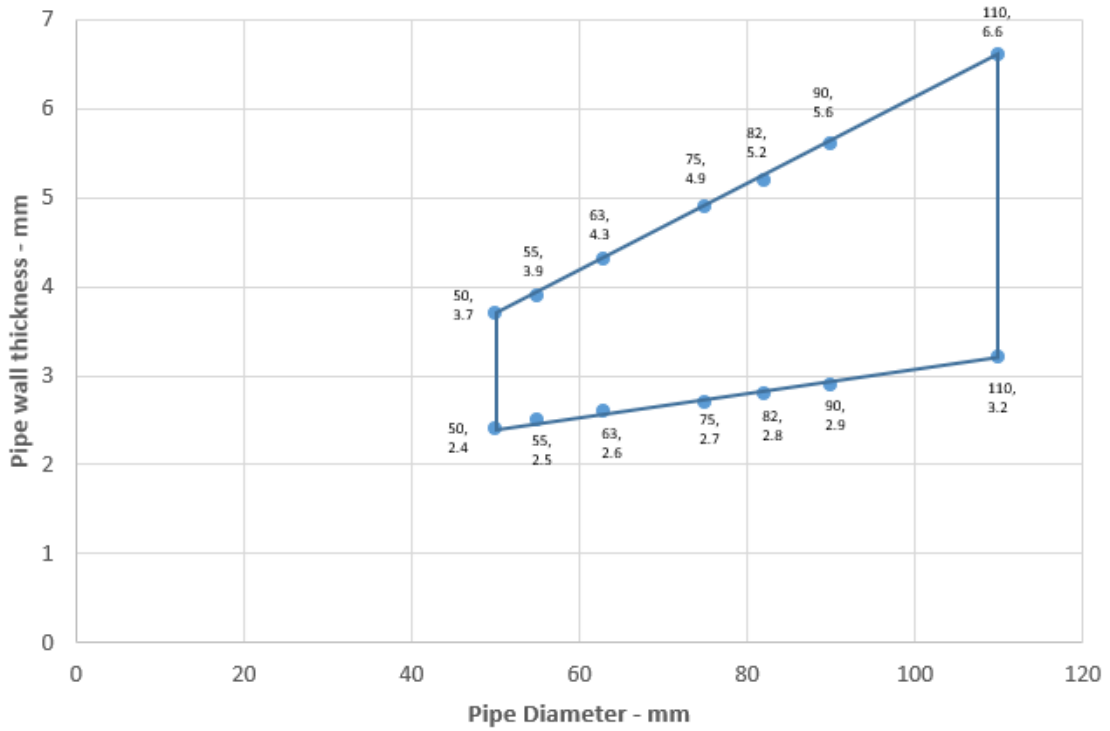
* Typical pipe diameters shown, see below graph for intermediate sizes

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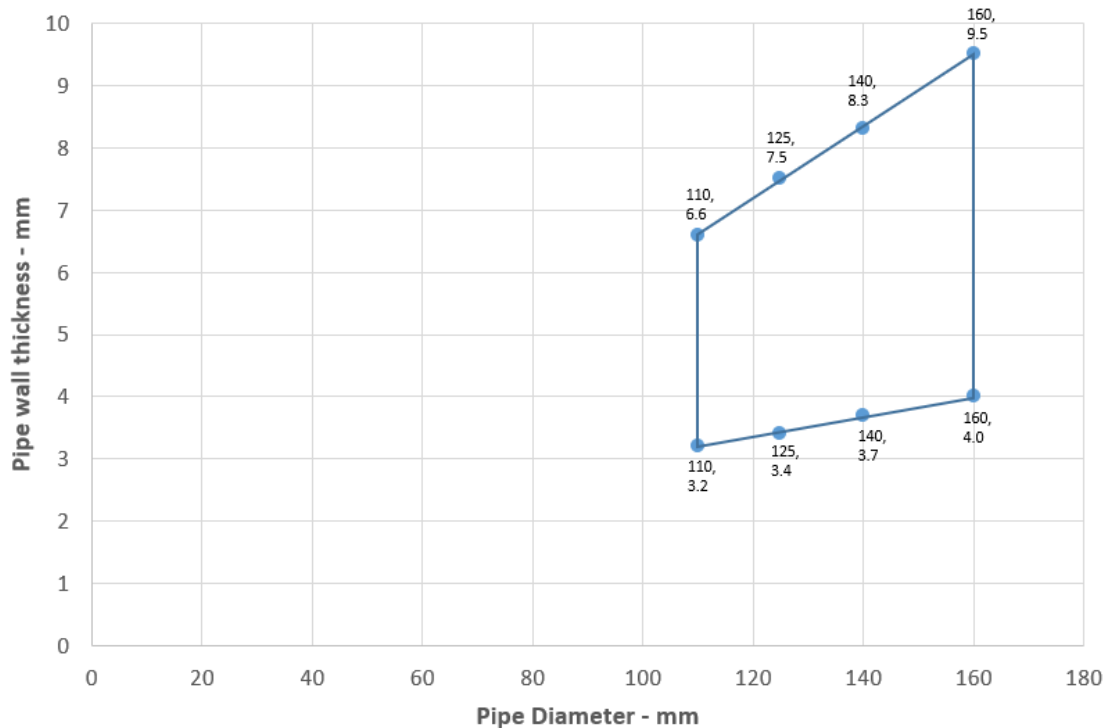
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PVC-U Pipes 50-110 / 50 mm Collar



PVC-U Pipes 125-160 / 60 mm Collar



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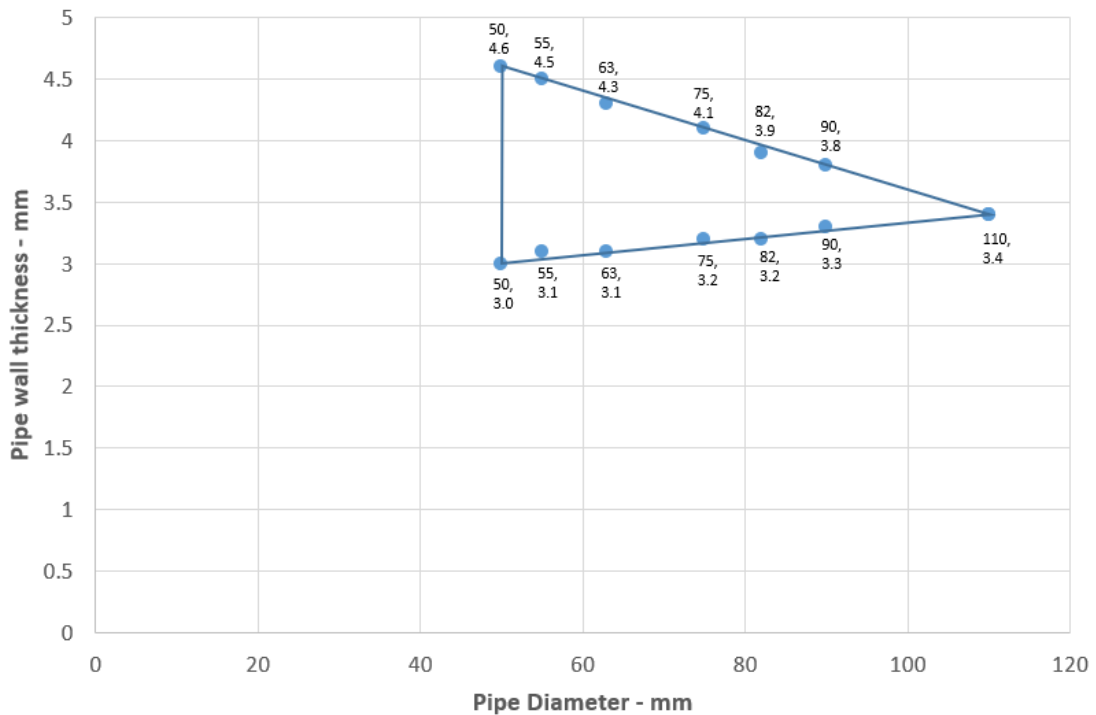
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A.4.2.2

Services	Collar Inlay	Classification
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	50 x 3.0 mm	E 180 U/C, E 180 C/C EI 120 U/C, EI 120 C/C
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*	50 x 3.2 mm	EI 90 U/C, EI 90 C/C
Diameter 63 mm, wall thickness 3.1-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 3.2-4.1 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 3.2-3.9 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-3.8 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 50 mm Collar



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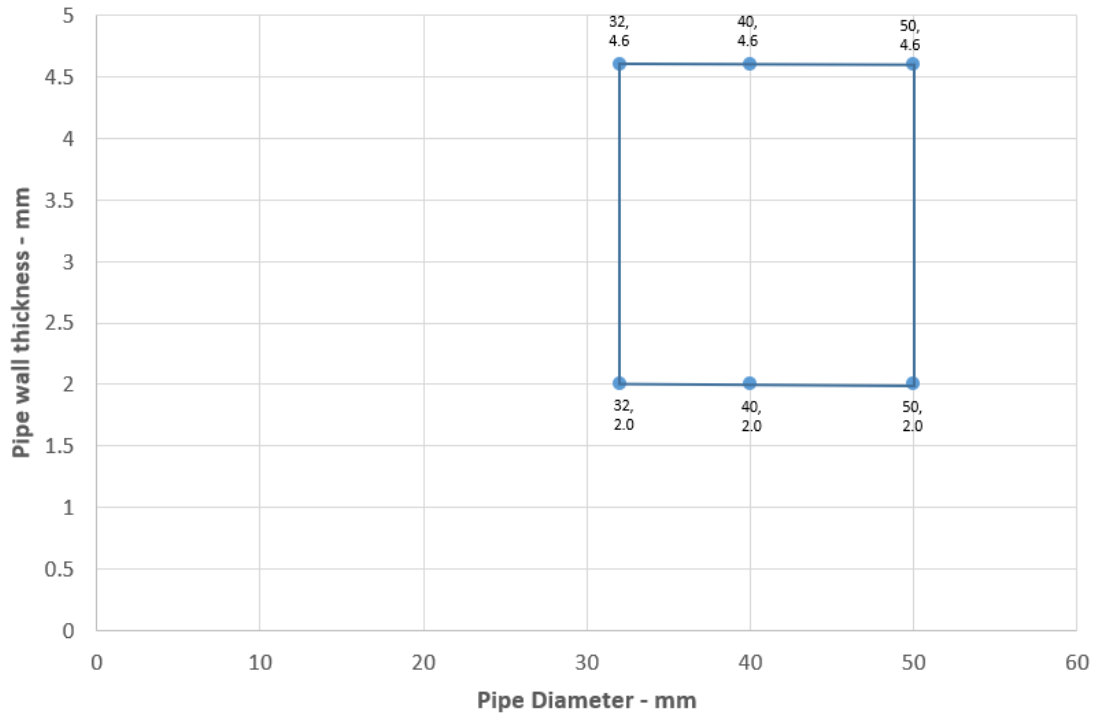


A.4.2.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1	50 x 3.0 mm	EI 90 U/C, EI 90 C/C
Diameter 32 mm, wall thickness 2.0-4.6 mm		
Diameter 40 mm, wall thickness 2.0-4.6 mm		
Diameter 50 mm, wall thickness 2.0-4.6 mm		

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 32-50 / 50 mm Collar



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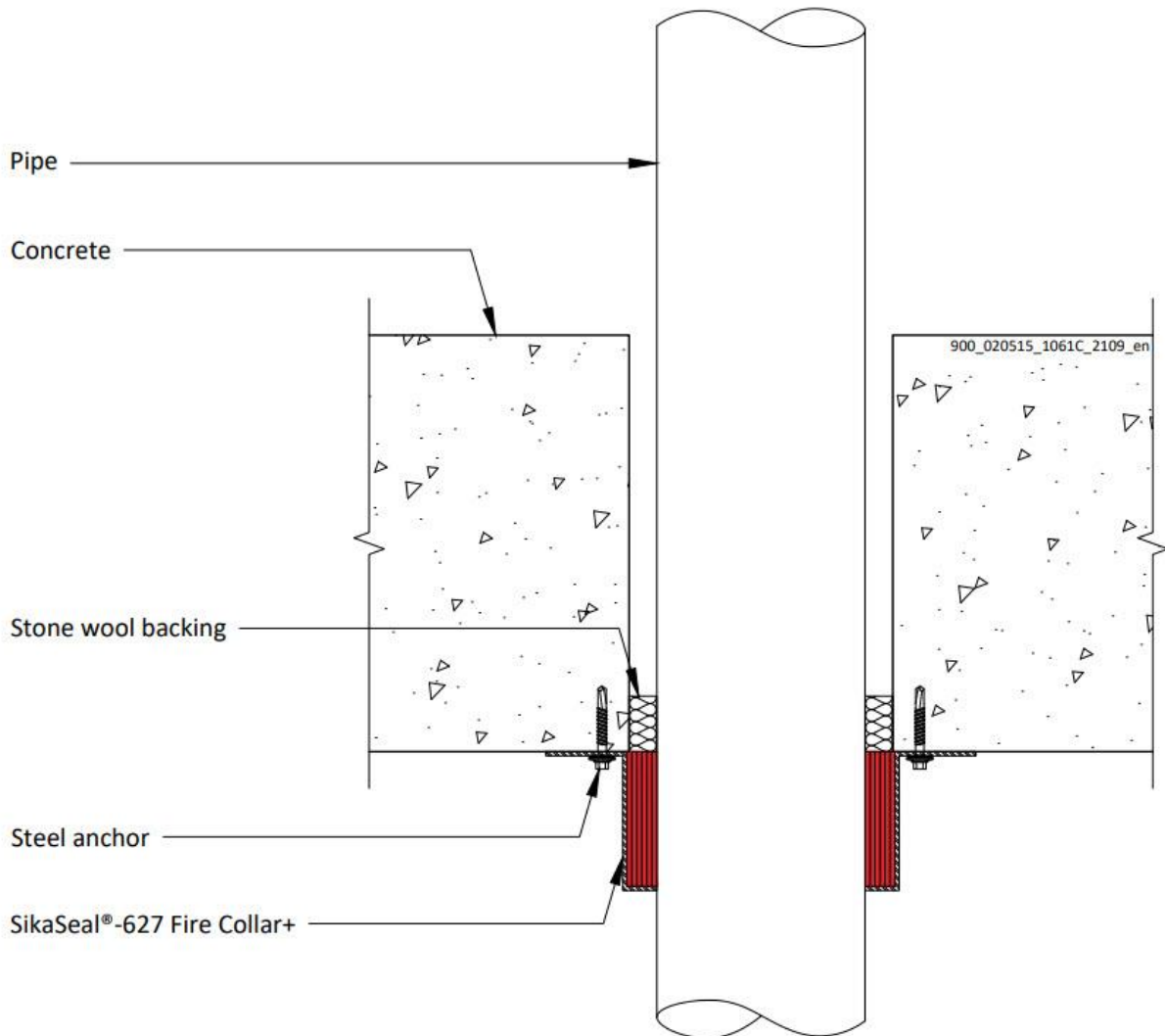
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A.5 Rigid floor constructions with floor thickness of minimum 150 mm

A.5.1 Penetration seals, surface mounted in concrete floors

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to the soffit of the floor.

Construction details:



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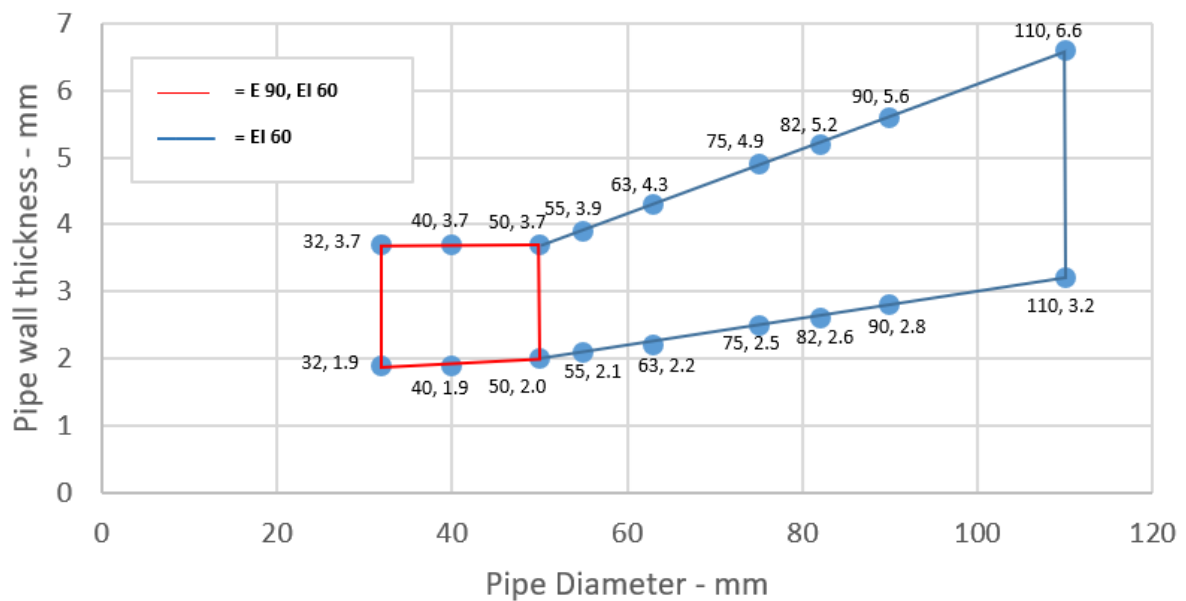
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A.5.1.1

Services	Collar Inlay	Classification
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*	30 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
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*	30 x 3.2 mm	EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 63 mm, wall thickness 2.2-4.3 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-4.9 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.6-5.2 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.8-5.6 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.2-6.6 mm*	30 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 32-110 / 30 mm Collar - U/U



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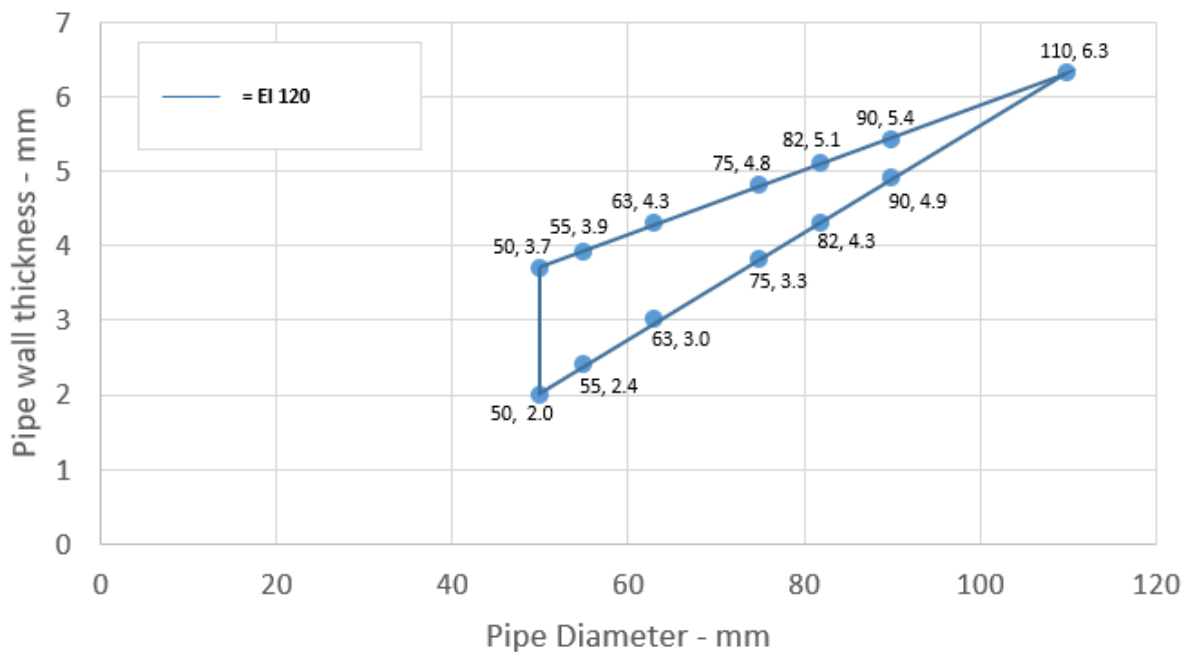
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A.5.1.1.1

Services	Collar Inlay	Classification
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	50 x 3.0 mm	EI 120 U/C, EI 120 C/C
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*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 3.0-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 3.8-4.8 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 4.3-5.1 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 4.9-5.4 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 6.3 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 50-110 / 50 mm Collar - U/C



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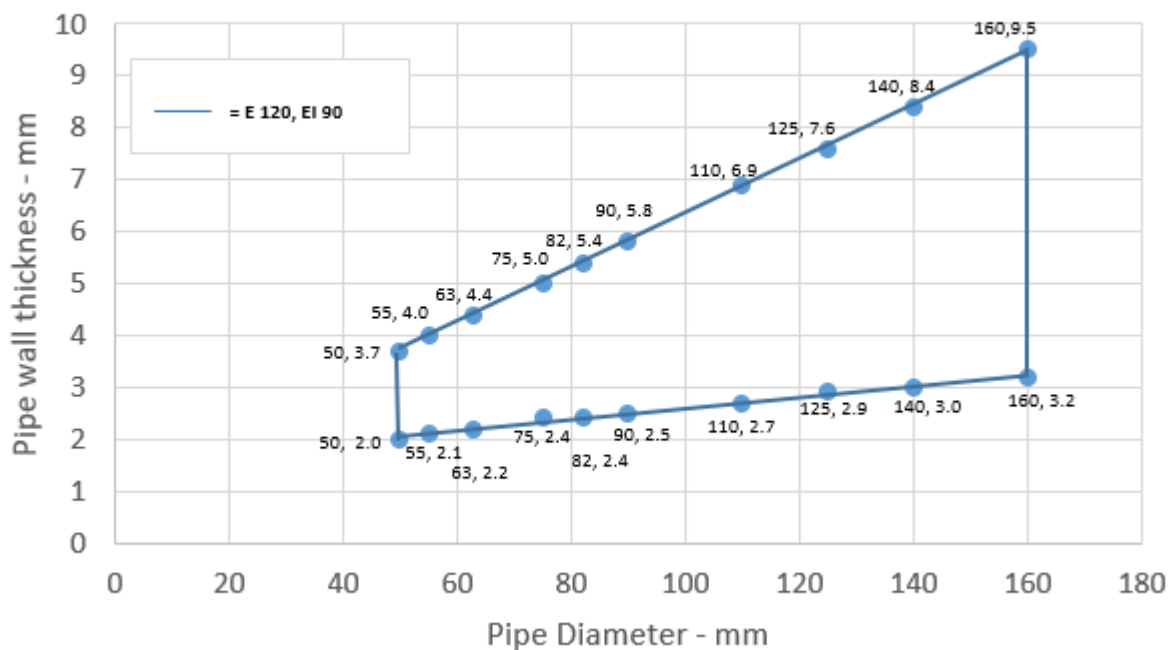


A.5.1.1.2

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 50 mm, wall thickness 2.0-3.7 mm*	50 x 3.0 mm	E 120 U/C, EI 90 U/C
Diameter 55 mm, wall thickness 2.1-4.0 mm*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.2-4.4 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.4-5.0 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.4-5.4 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.5-5.8 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.9 mm*	50 x 6.0 mm	
Diameter 125 mm, wall thickness 2.9-7.6 mm*	50 x 8.8 mm	
Diameter 140 mm, wall thickness 3.0-8.4 mm*	50 x 11.5 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	50 x 15.0 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm	50 x 15.0 mm	E 180 U/C, E 180 C/C EI 90 U/C, EI 90 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 50-160 / 50 mm Collar - U/C



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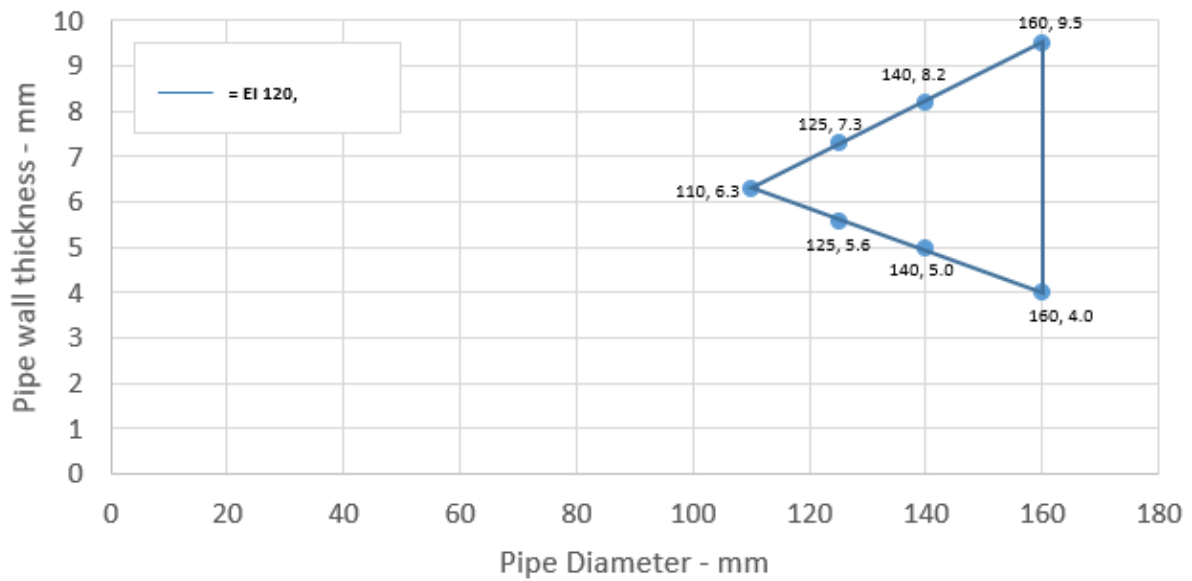


A.5.1.1.3

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 6.3 mm*	60 x 6.0 mm	EI 120 U/C, EI 120 C/C
Diameter 125 mm, wall thickness 5.6-7.3 mm*	60 x 9.0 mm	
Diameter 140 mm, wall thickness 5.0-8.2 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.0-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar -U/C



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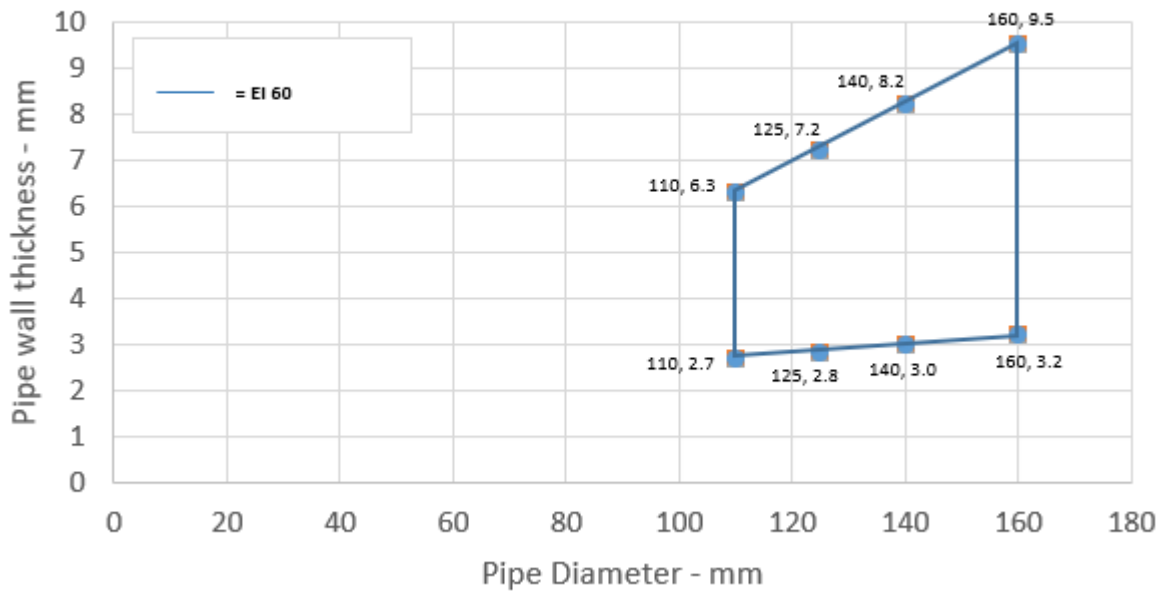


A.5.1.1.4

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.3 mm*	60 x 6.0 mm	EI 60 U/C
Diameter 125 mm, wall thickness 2.8-7.2 mm*	60 x 8.7 mm	
Diameter 140 mm, wall thickness 3.0-8.2 mm*	60 x 11.4 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar -U/C



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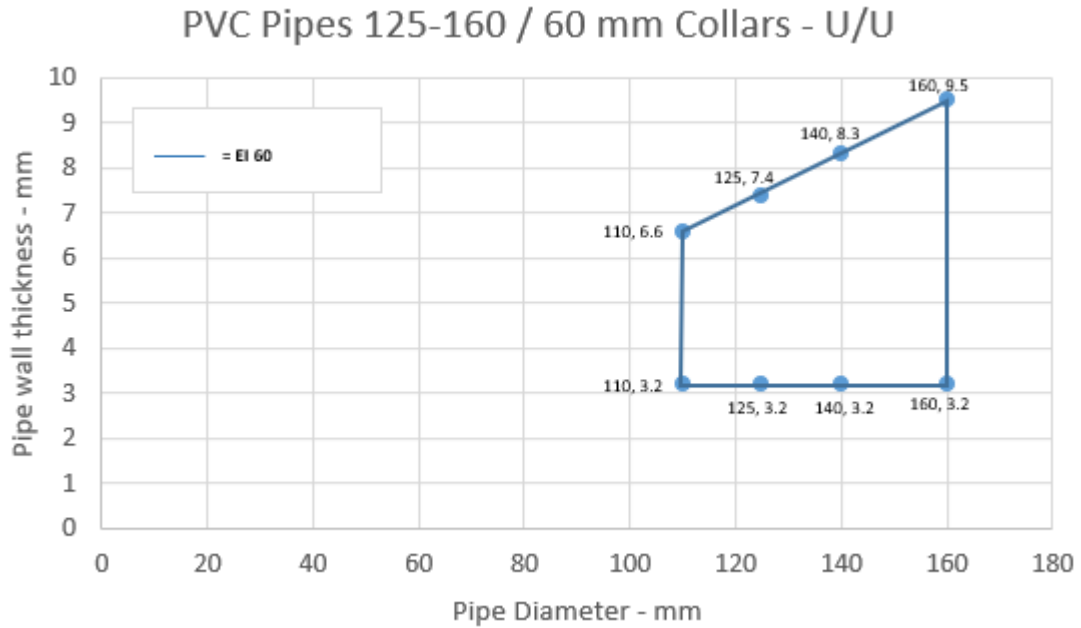
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A.5.1.1.5

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 3.2-6.6 mm*	60 x 6.0 mm	EI 60 U/U
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	

* Typical pipe diameters shown, see below graph for intermediate sizes



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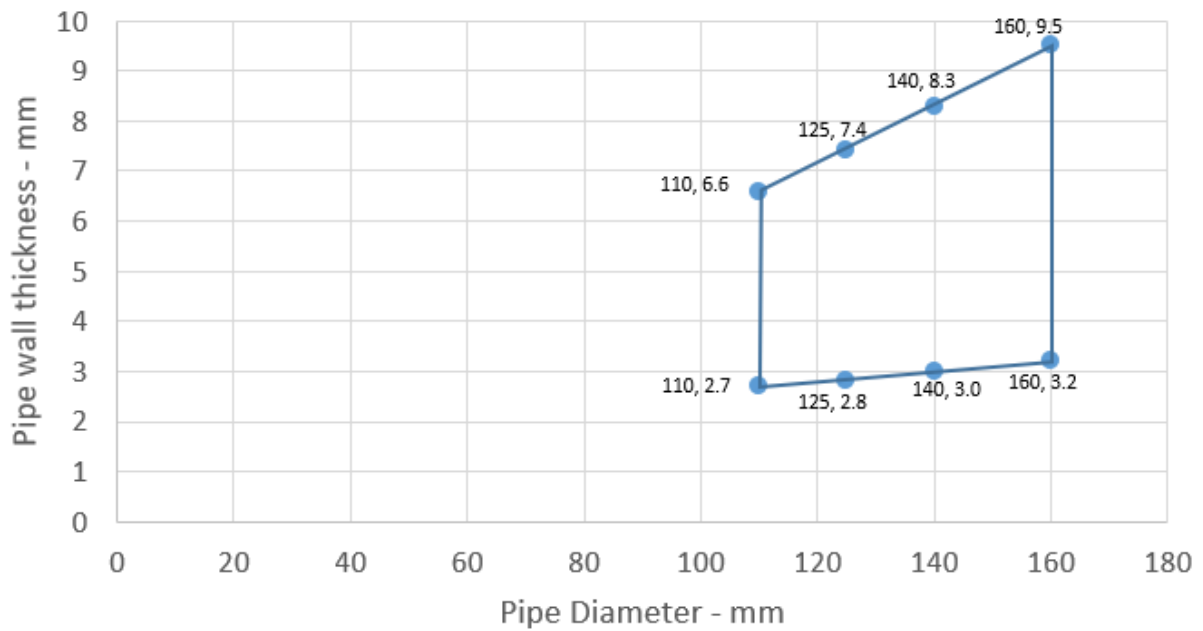


A.5.1.1.6

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	EI 60 C/U
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar - C/U



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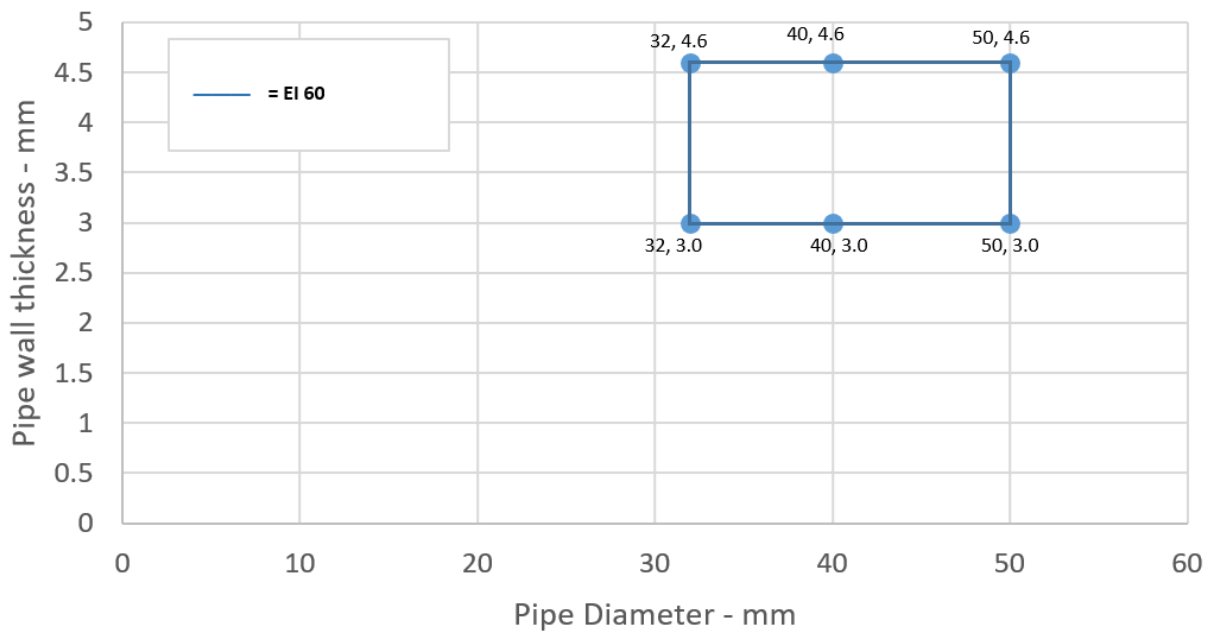


A.5.1.2

Services	Collar Inlay	Classification
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*	30 x 3.0 mm	EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 40 mm, wall thickness 3.0-4.6 mm*		
Diameter 50 mm, wall thickness 3.0-4.6 mm*		
Diameter 110 mm, wall thickness 10.0 mm	30 x 6.0 mm	EI 180 U/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 32-50 / 30 mm Collar - U/U



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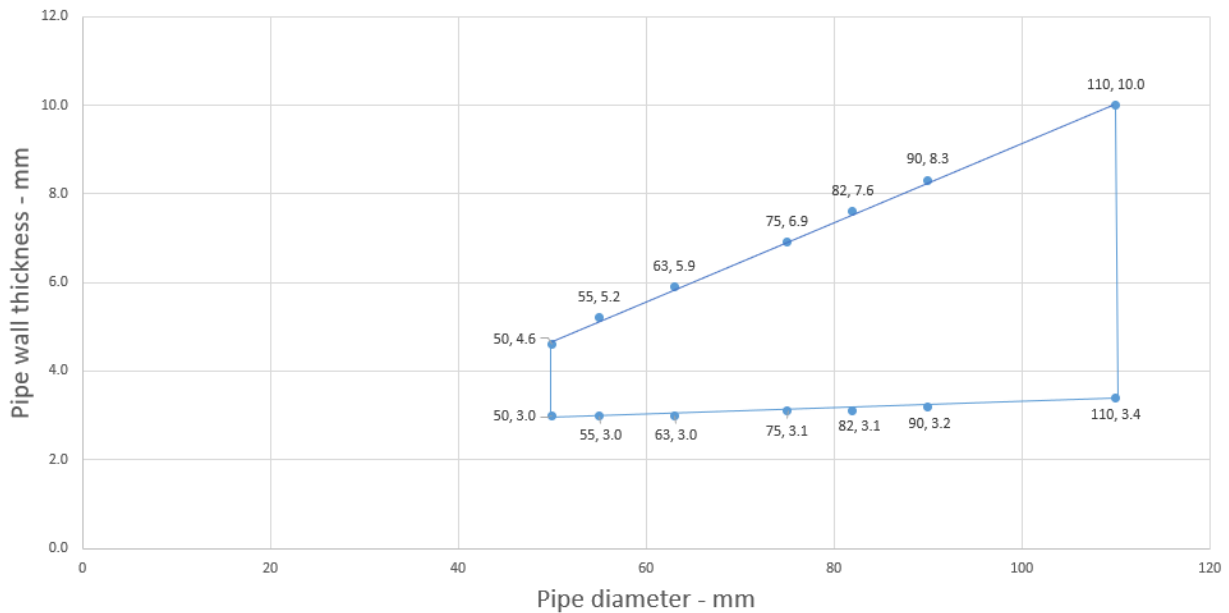
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A.5.1.2.1

Services	Collar Inlay	Classification
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 50 mm, wall thickness 3.0-4.6 mm*	30 x 3.0 mm	EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 55 mm, wall thickness 3.0-5.2 mm*	30 x 3.2 mm	
Diameter 63 mm, wall thickness 3.0-5.9 mm*	30 x 3.6 mm	EI 60 U/C, EI 60 C/C
Diameter 75 mm, wall thickness 3.1-6.9 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 3.1-7.6 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 3.2-8.3 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.0 mm*	30 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE pipes 50-110 / 30 mm Collar - U/C



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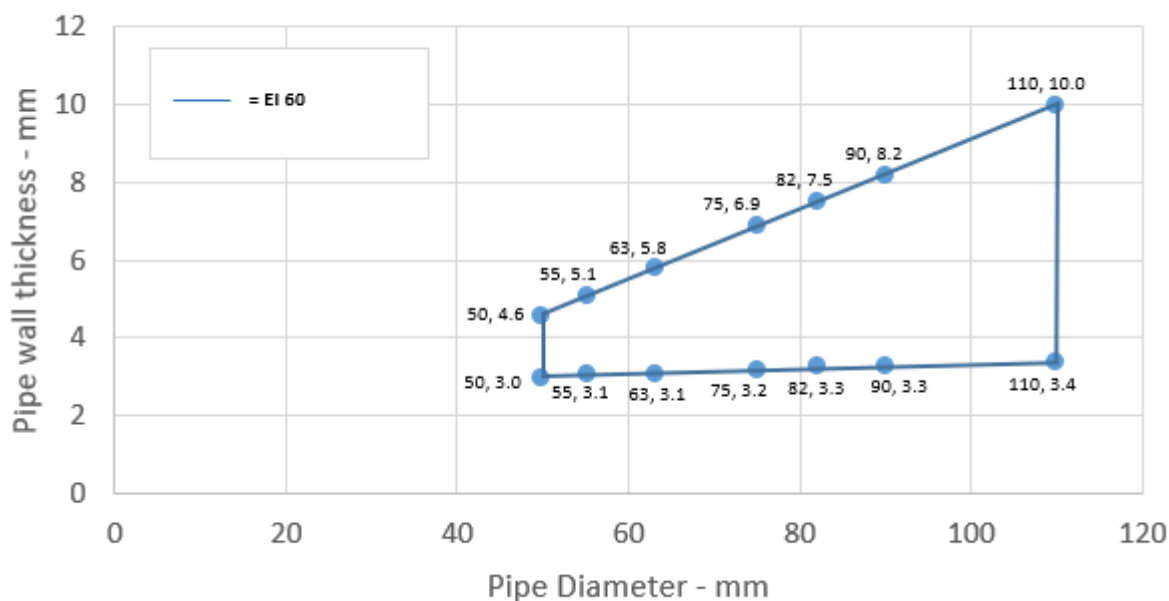


A.5.1.2.2

Services	Collar Inlay	Classification
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 32-40 mm, wall thickness 3.0-4.6 mm	50 x 3.0 mm	EI 240 U/C
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	EI 240 U/U
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	EI 60 U/U, EI 60 C/U
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 50 mm Collar - U/U



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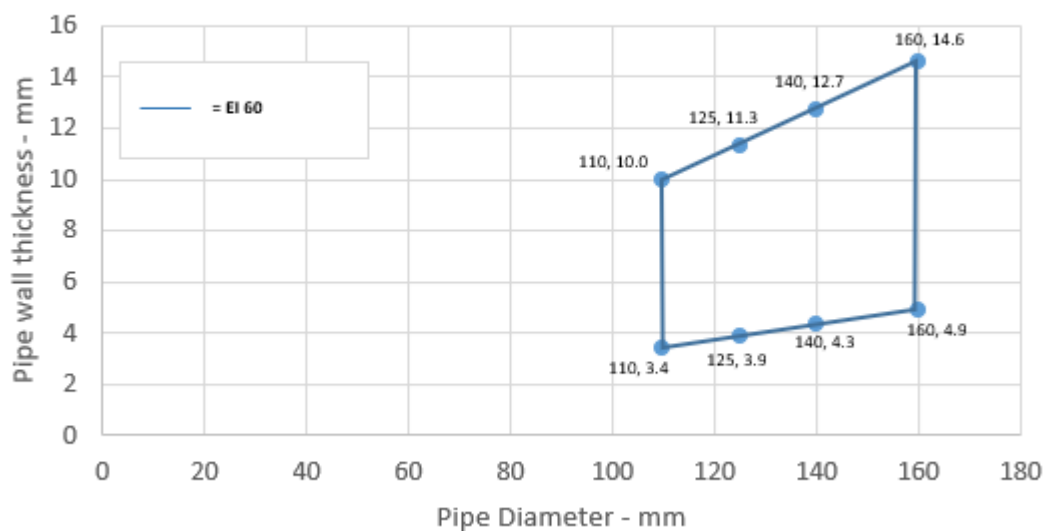


A.5.1.2.3

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4-10.0 mm*	60 x 6.0 mm	EI 60 U/U, EI 60 C/U
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 125-160 / 60 mm Collar - U/U



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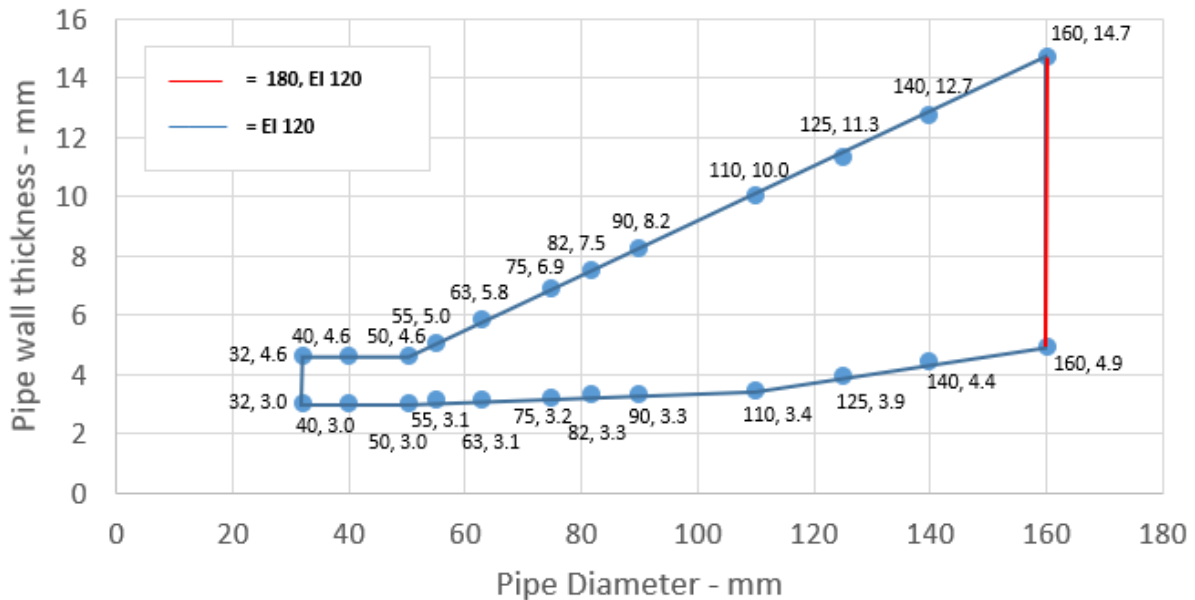


A.5.1.2.4

Services	Collar Inlay	Classification
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	50 x 3.0 mm	EI 120 U/C, EI 120 C/C
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	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 125 mm, wall thickness 3.9-11.3 mm	50 x 8.8 mm	
Diameter 140 mm, wall thickness 4.4-12.7 mm	50 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.7 mm	50 x 15.0 mm	E 180 U/C, E 180 C/C EI 120 U/C, EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 32-16 / 50 mm Collar - U/C



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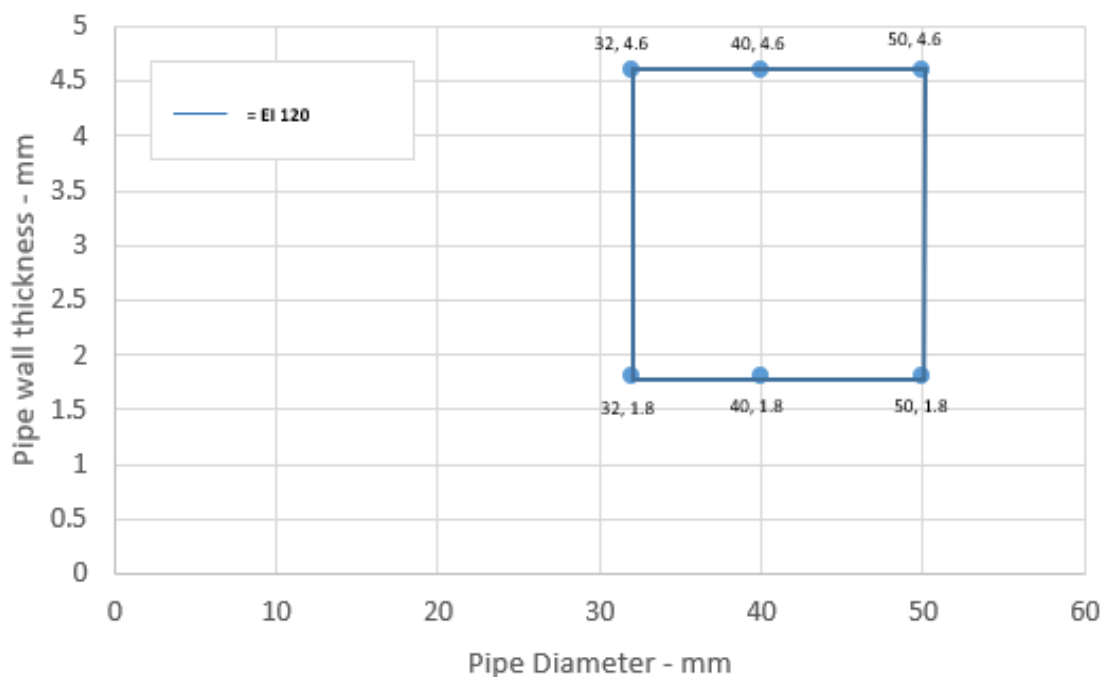


A.5.1.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 1.8-4.6 mm*	30 x 3.0 mm	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
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 2.0-4.8 mm*	30 x 3.2 mm	EI 120 U/C, EI 120 C/C
Diameter 63 mm, wall thickness 2.3-5.5 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.8-5.4 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 3.1-5.6 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 3.4-5.9 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 4.2-6.6 mm*	30 x 6.0 mm	EI 180 U/C, EI 180 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 32-50 / 30 mm Collar - U/U

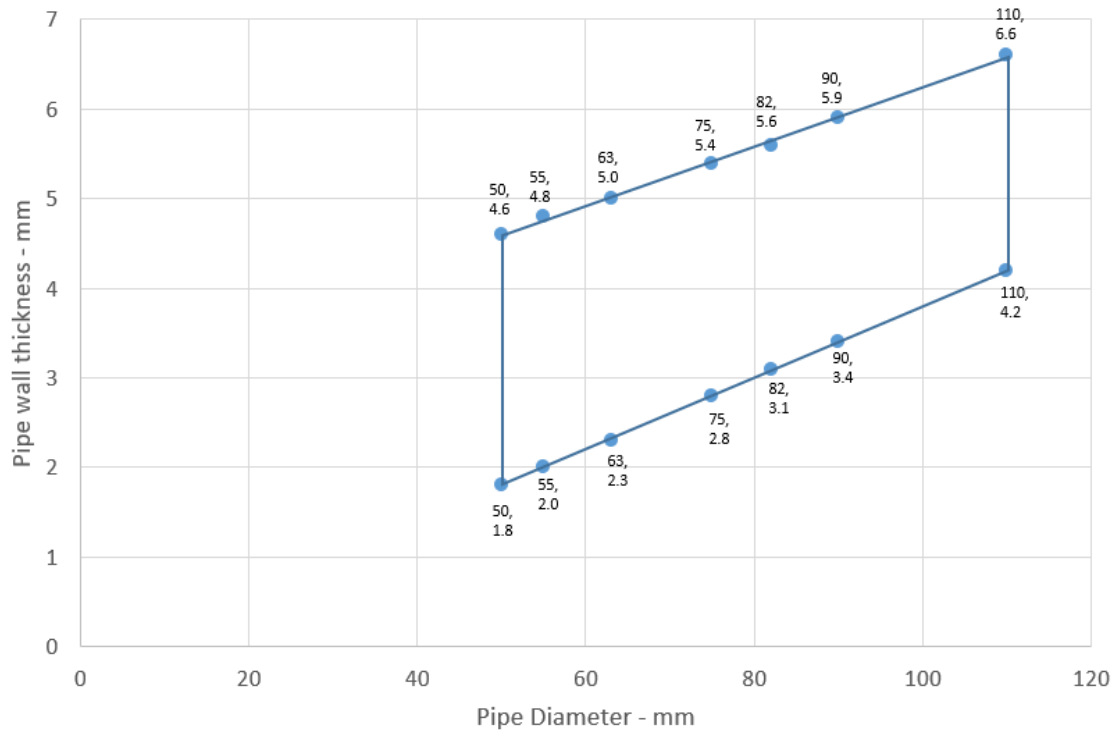


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PP Pipes 50-110 / 30 mm Collar - U/C



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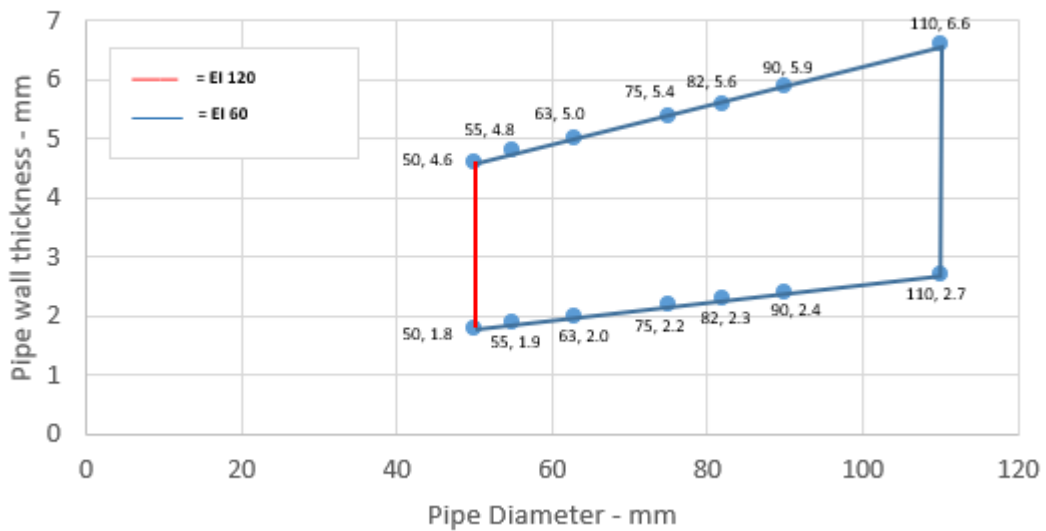


A.5.1.3.1

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 2.9 mm	50 x 3.2 mm	EI 240 U/U
Diameter 50 mm, wall thickness 1.8-4.6 mm*	50 x 3.0 mm	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter 55 mm, wall thickness 1.9-4.8 mm*	50 x 3.2 mm	EI 60 U/U, EI 60 C/U
Diameter 63 mm, wall thickness 2.0-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.2-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.3-5.6 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.4-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 55-110 / 50 mm Collar - U/U



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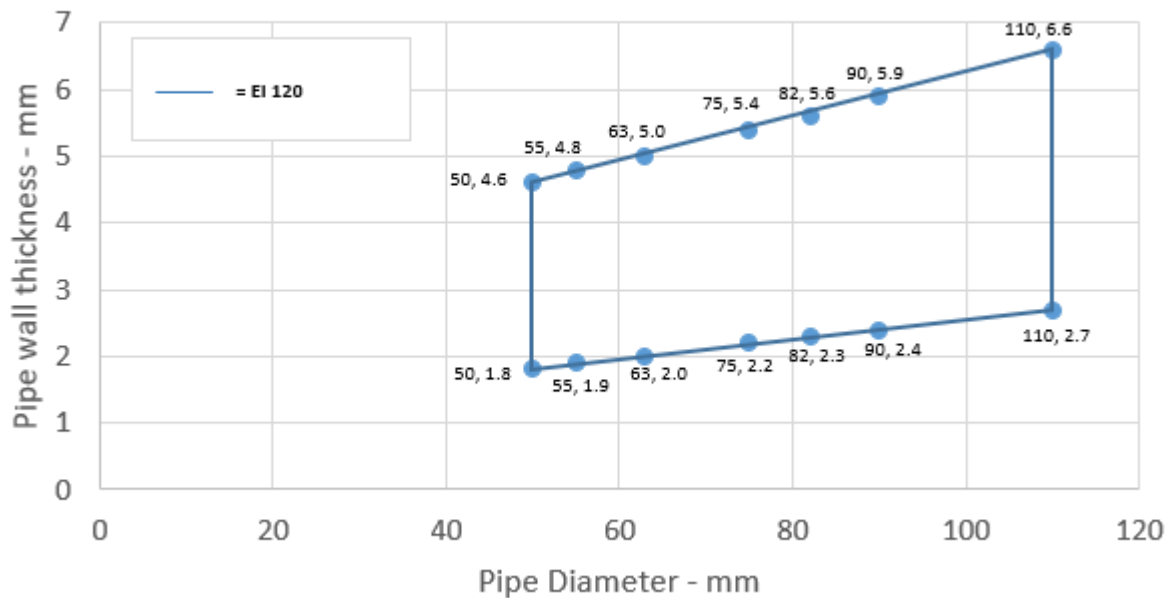


A.5.1.3.2

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.8-4.6 mm*	50 x 3.0 mm	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter 55 mm, wall thickness 1.9-4.8 mm*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.0-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.2-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.3-5.6 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.4-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 55-110 / 50 mm Collar - U/C



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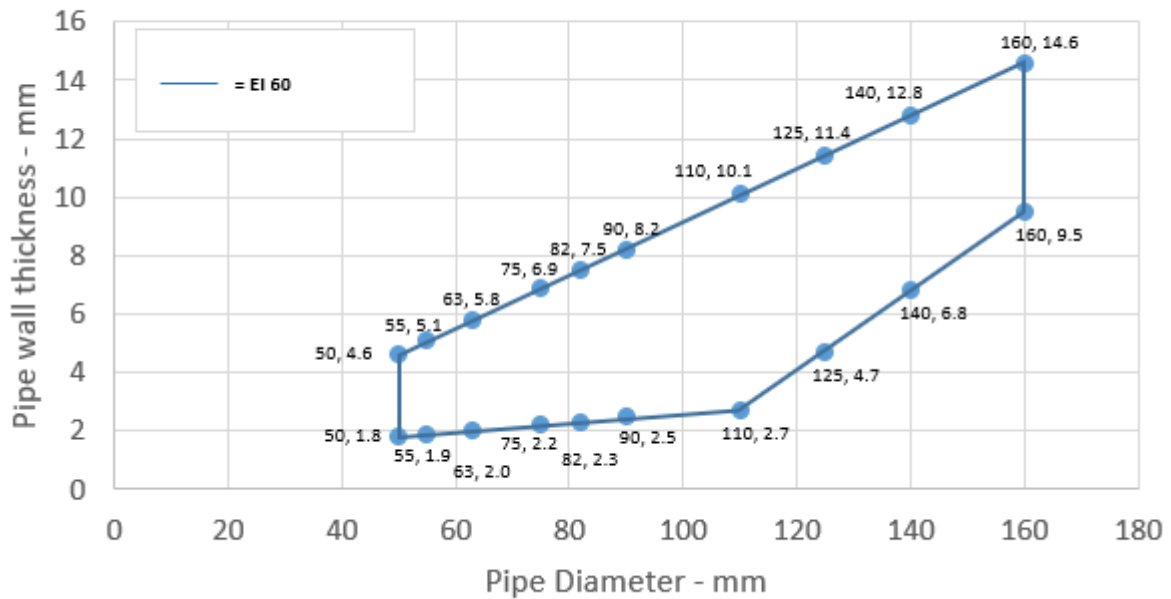


A.5.1.3.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.8-4.6 mm*	30 x 3.0 mm	EI 60 U/C, EI 60 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 55-160 / 50 mm Collar - U/C



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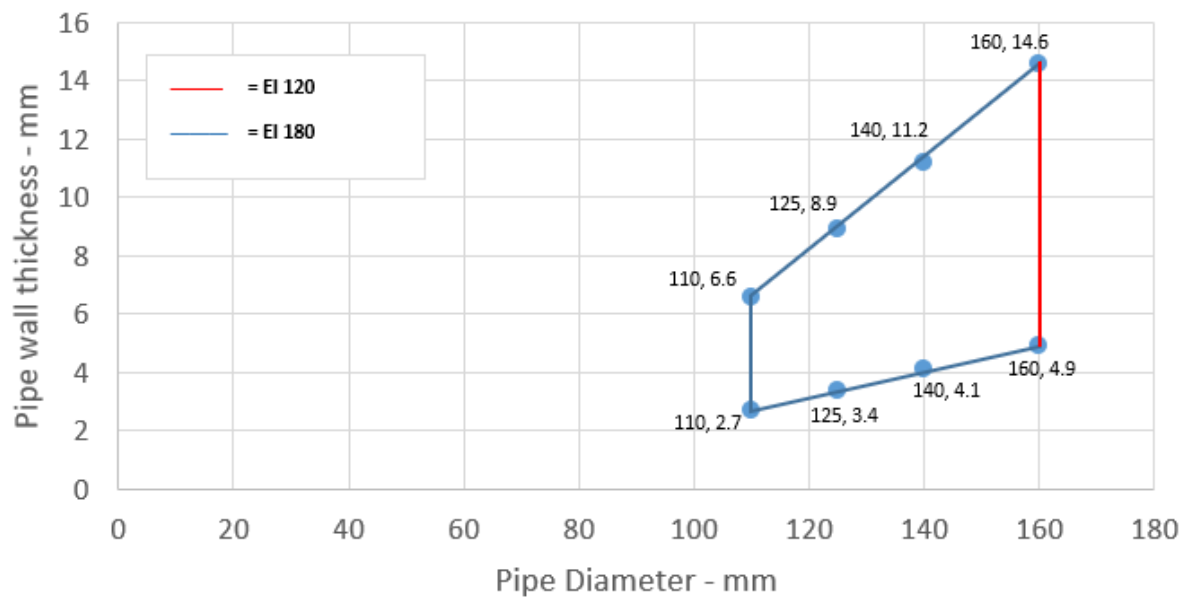
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A.5.1.3.4

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	60 x 6.0 mm	EI 120 U/C, EI 120 C/C
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	EI 180 U/C, EI 180 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm Collar - U/C



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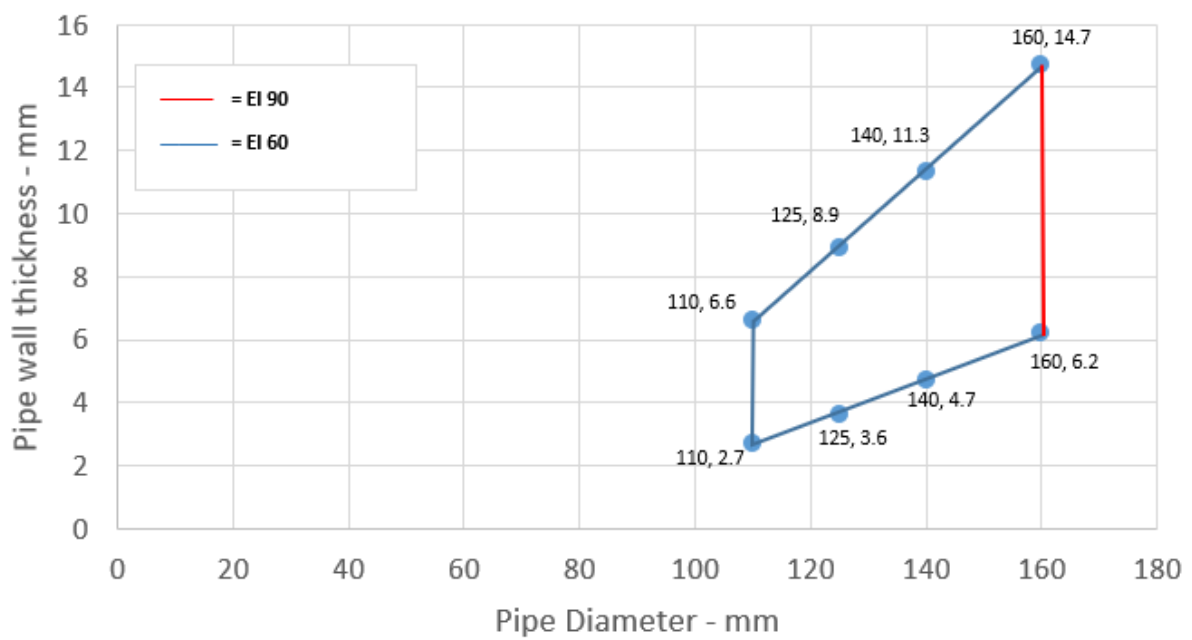


A.5.1.3.5

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	EI 60 U/U
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	
Diameter 160 mm, wall thickness 6.2 mm	60 x 15.0 mm	EI 90 U/U

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm Collar - U/U



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A.5.1.4

Services	Collar Inlay	Classification
Wavin SiTech + PP-M B according to EN 13501-1		
32-40 mm diameter/ 1.8 mm wall thickness	50 x 3.0 mm	EI 240 U/U
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	EI 180 C/U
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/3.6-5.6 mm wall thickness	30 x 3.0 mm	EI 240 C/C
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	EI 120 C/C
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	
Geberit Silent PP according to DIN 4102		
32-40 mm diameter/ 1.8 mm wall thickness	50 x 3.0 mm	EI 240 U/U
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	EI 180 C/U
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		
32-40 mm diameter/1.8-2.0 mm wall thickness	50 x 3.0 mm	EI 240 U/U
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	EI 240 C/U
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	EI 240 U/C
Diameter 160 mm, wall thickness 4.9 mm	60 x 15 mm	E 240 C/U, EI 240 U/C

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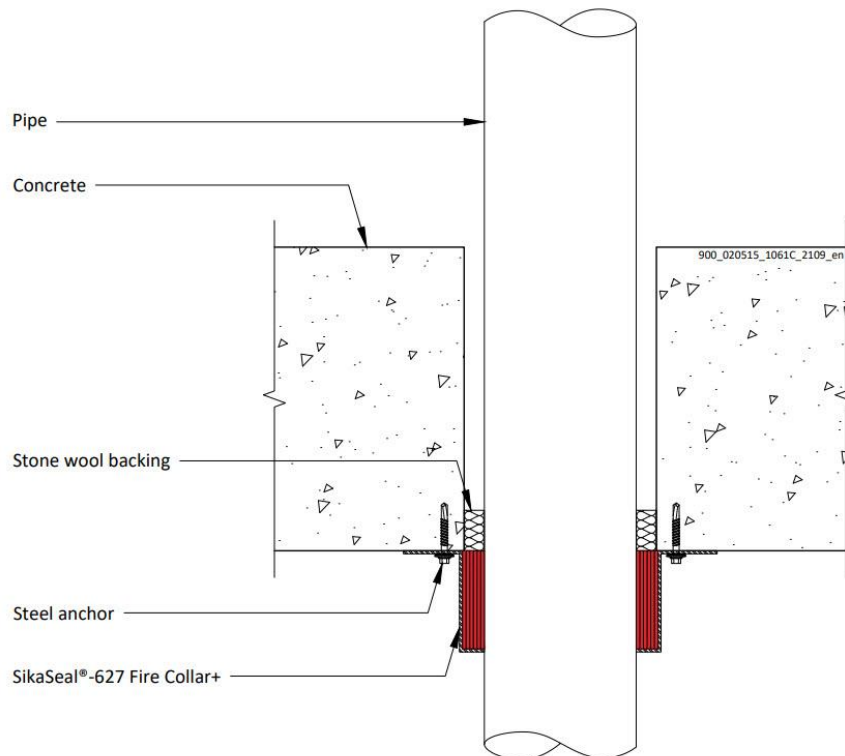
A.5.1.4.1

Services	Collar Inlay	Classification
Rehau Raupiano Plus PP-DD according to DIN 4102		
40 mm diameter/1.8 wall thickness	50 x 3.0 mm	EI 240 U/U
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	EI 120 C/U
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	EI 180 C/U
Diameter 160 mm, wall thickness 3.9 mm	60 x 15.0 mm	E 240 C/U, EI 240 U/C
BluePower Multilayer pipe – TR02-PP according to EN 1451-1		
32-40 mm diameter/1.8 mm wall thickness	50 x 3.0 mm	EI 180 U/U
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	EI 180 C/U
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	EI 240 C/U
Uponor Decibel according to EN 14366		
50 mm diameter/ 2.0 mm wall thickness	50 x 3.0 mm	EI 180 U/U
75 mm diameter/ 2.6 mm wall thickness	50 x 4.2 mm	EI 120 C/U
110 mm diameter/ 3.8 mm wall thickness	50 x 6.0 mm	

A.5.2 Penetration seals, surface mounted in concrete floors

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to the soffit of the floor.

Construction details:



A.5.2.1

Services	Collar Inlay	Classification
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*	50 x 3.0 mm	EI 120 C/C, EI 60 C/U
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*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.2-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.3-4.8 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.4-5.1 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.5-5.4 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.3 mm*	50 x 6.0 mm	

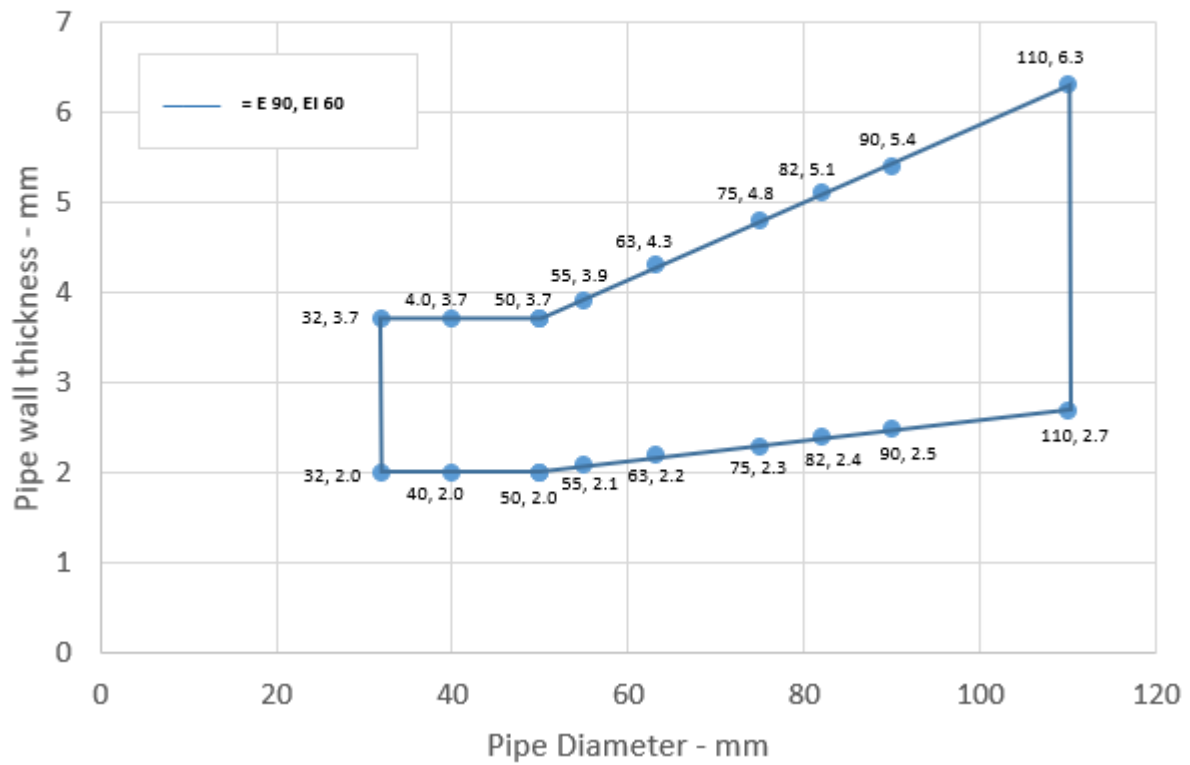
* Typical pipe diameters shown, see below graph for intermediate sizes

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PVC Pipes 32-110 / 50 mm Collar - C/C



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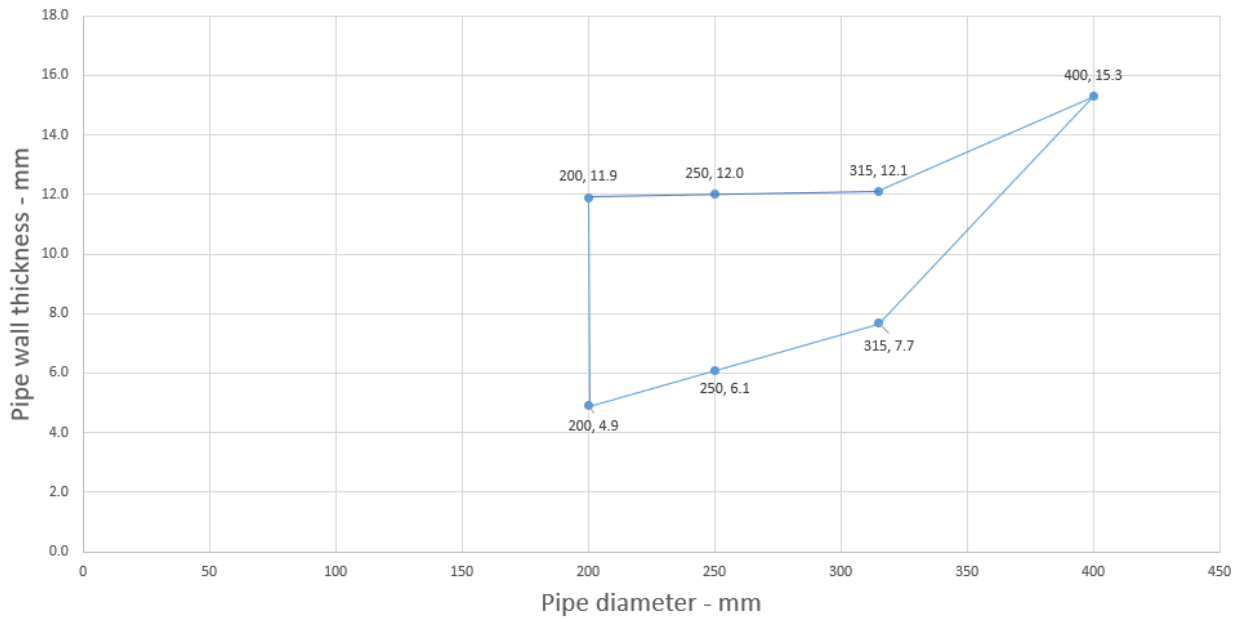
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A.5.2.1.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Up to 200 mm diameter / 4.9-11.9 mm wall thickness*	60 x 18 mm	E 120 C/C, EI 60 C/C
Up to 250 mm diameter / 6.1-11.9 mm wall thickness*	75 x 24 mm	EI 60 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC pipes 200-400 / 60-100 mm Collar - C/C



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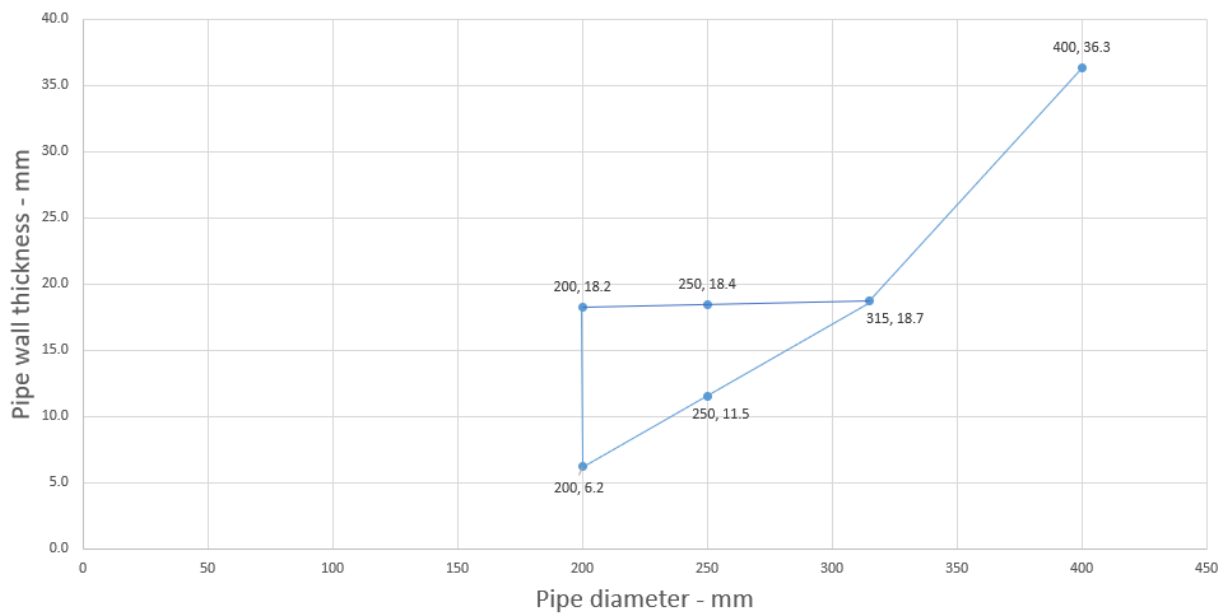


A.5.2.2

Services	Collar Inlay	Classification
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		
Up to 200 mm diameter / 6.2-18.2 mm wall thickness*	60 x 18 mm	E 240 C/C, EI 120 C/C
Up to 250 mm diameter / 11.5-18.4 mm wall thickness*	75 x 24 mm	EI 240 C/C
Up to 315 mm diameter / 18.7 mm wall thickness*	75 x 30 mm	
Up to 400 mm diameter / 36.3 mm wall thickness*	100 x 39 mm	EI 90 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE pipes 200-400 / 60-100 mm Collar - C/C



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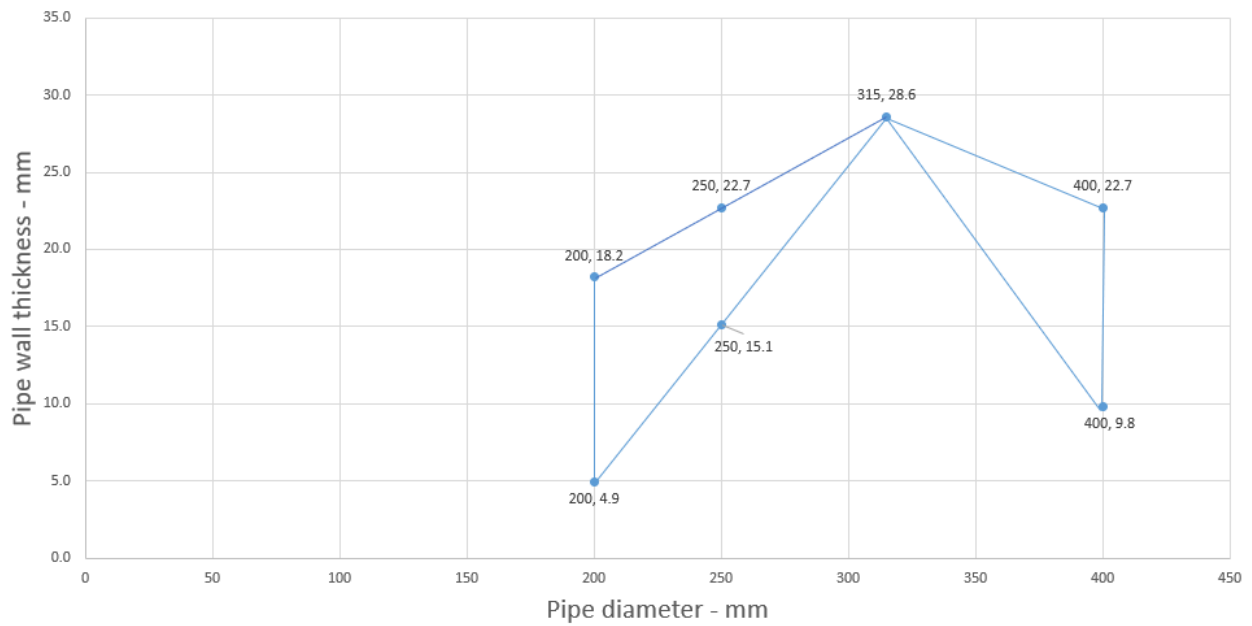


A.5.2.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Up to 200 mm diameter / 4.9-18.2 mm wall thickness*	60 x 18 mm	EI 120 C/C
Up to 250 mm diameter / 15.1-22.7 mm wall thickness*	75 x 24 mm	EI 60 C/C
Up to 315 mm diameter / 28.6 mm wall thickness*	75 x 30 mm	
Up to 400 mm diameter / 9.8-22.7 mm wall thickness*	100 x 39 mm	EI 30 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PP pipes 200-400 / 60-100 mm Collar - C/C



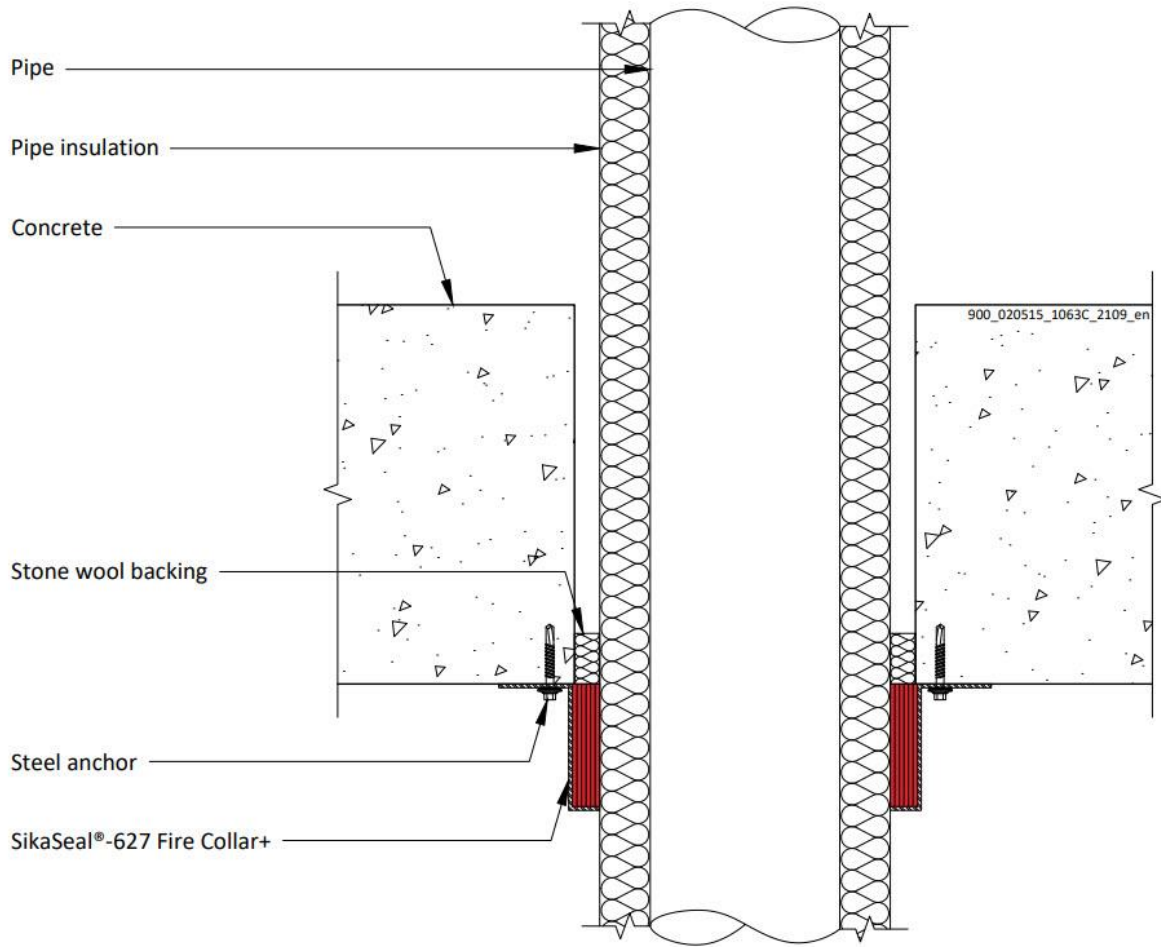
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A.5.3 Penetration seals, surface mounted in concrete floors

Penetration Seal: Metallic pipes fitted with SikaSeal-627 Fire Collar+, to the soffit of the floor.

Construction details:



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A.5.3.1

Services	Insulation	Collar	Classification
Copper pipe or mild steel			
Maximum diameter 42 mm, wall thickness 0.7-14.2 mm*	9 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 63 mm collar at 50 mm height	EI 120 C/C
Maximum diameter 42 mm, wall thickness 0.7-14.2 mm*	10-50 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 110 mm collar at 50 mm height, 125-160 mm at 60 mm height	EI 60 C/C
Maximum diameter 54 mm, wall thickness 0.7-14.2 mm*	19 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height	E 120 C/C, EI 60 C/C
Alupex pipe			
Maximum diameter 75 mm, wall thickness 2.25-4.6 mm	9 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 110 mm collar at 50 mm height	EI 120 C/C
	10-50 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height	E 120 C/C, EI 90 C/C
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			
Maximum diameter 160 mm, wall thickness 3.0-9.5 mm	9 mm thick Elastomeric insulation minimum class BL-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height	EI 180 C/C
	10-50 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height, 250-315 mm at 75 mm height	EI 120 C/C
PP pipe according to EN 1451-1			
Maximum diameter 160 mm, wall thickness 1.8-9.1 mm	9 mm thick Elastomeric insulation minimum class BL-s3,d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height	E 180 C/C, EI 120 C/C
	10-50 mm thick Elastomeric insulation minimum class B-s3,d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height, 250-315 mm at 75 mm height	EI 60 C/C

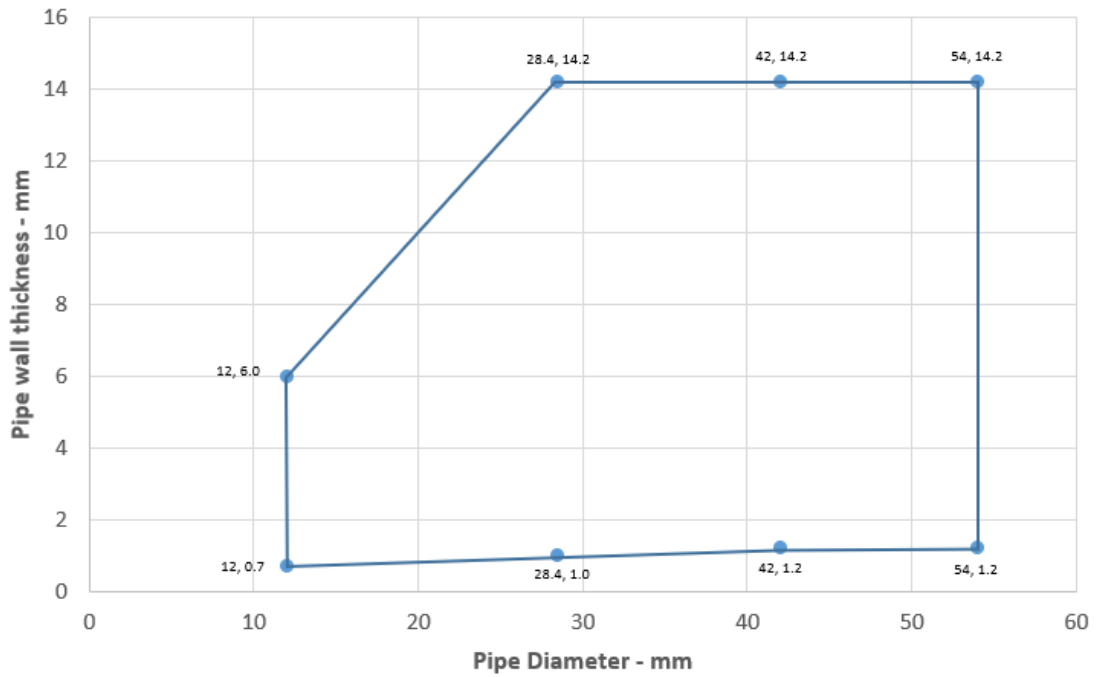
* Typical pipe diameters shown, see below graph for intermediate sizes

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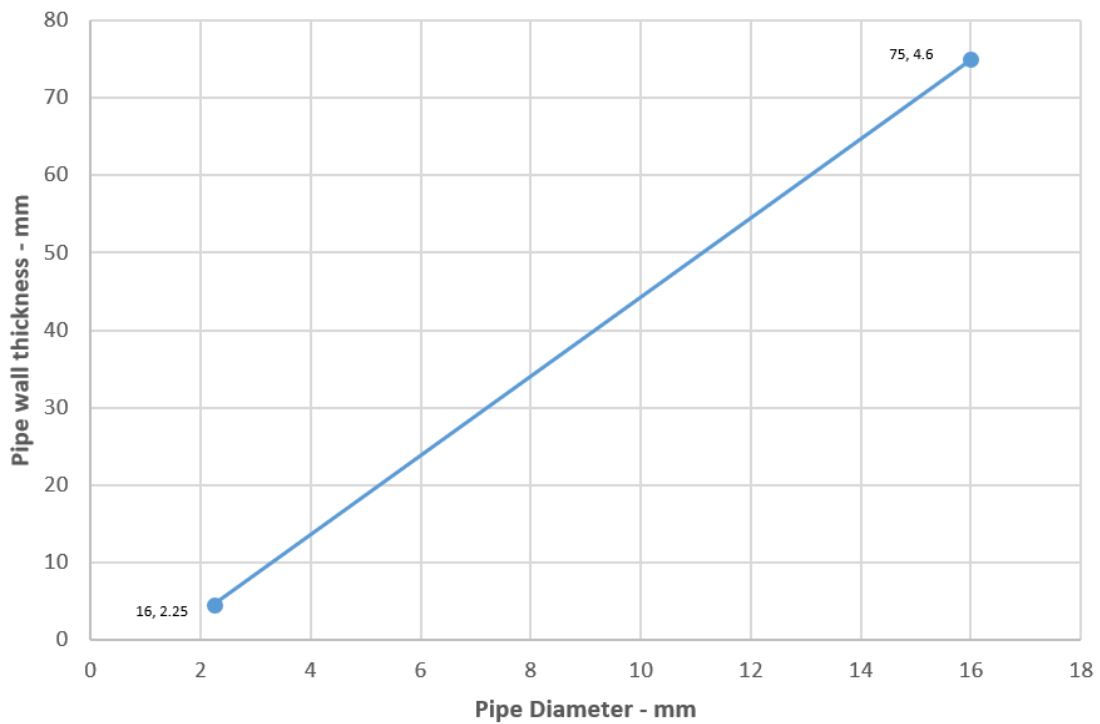
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Copper or Steel Pipes 12-54 / 9-50 mm Elastomeric Insulation - C/C



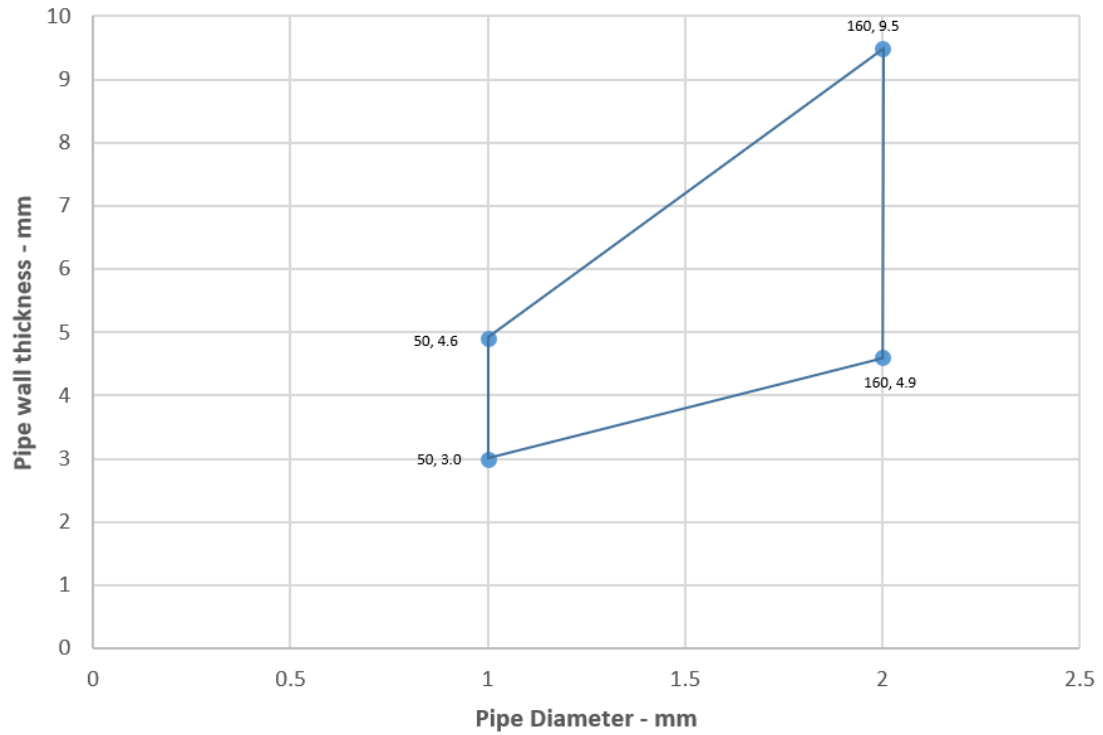
Alupex Pipes with Elastomeric Pipe Insulation - C/C



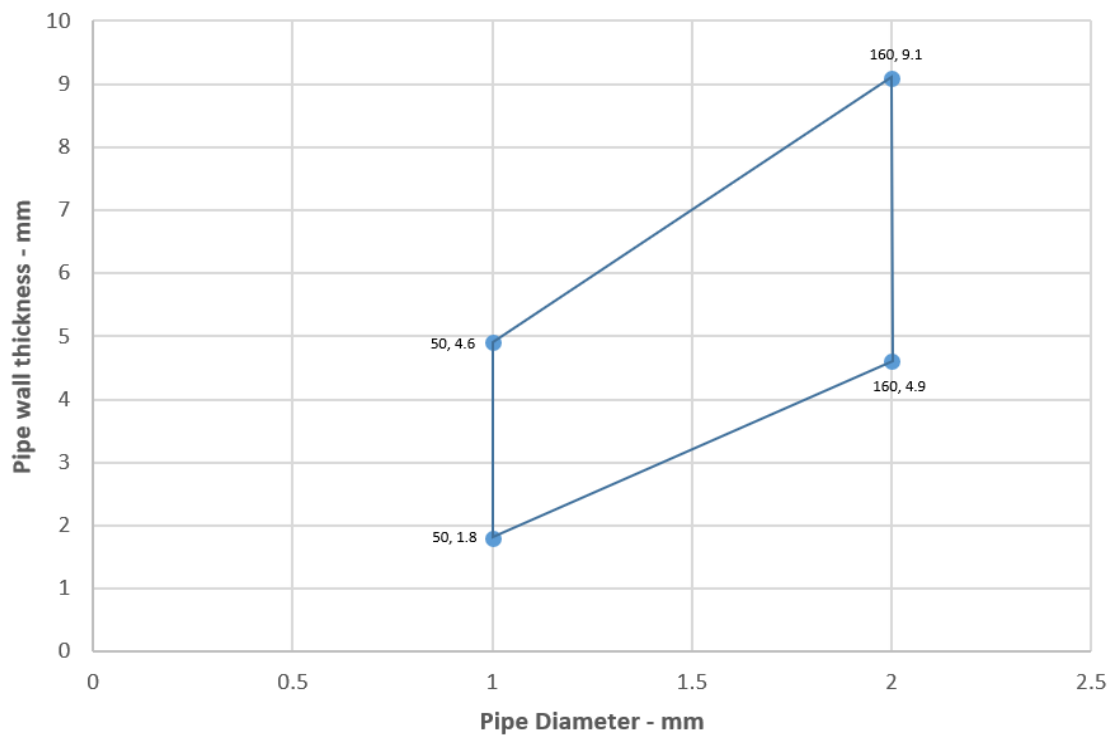
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PE Pipes with Elastomeric Pipe Insulation - C/C



PP Pipes with Elastomeric Pipe Insulation - C/C

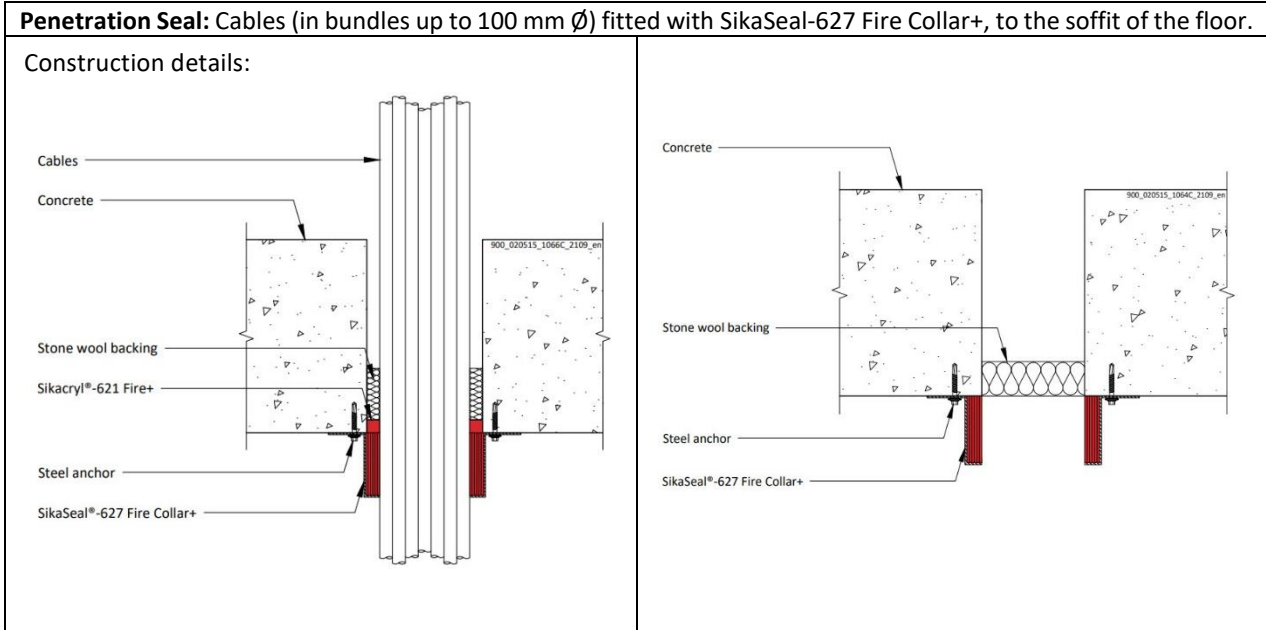


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A.5.4 Penetration seals, surface mounted in concrete floors



A.5.4.1

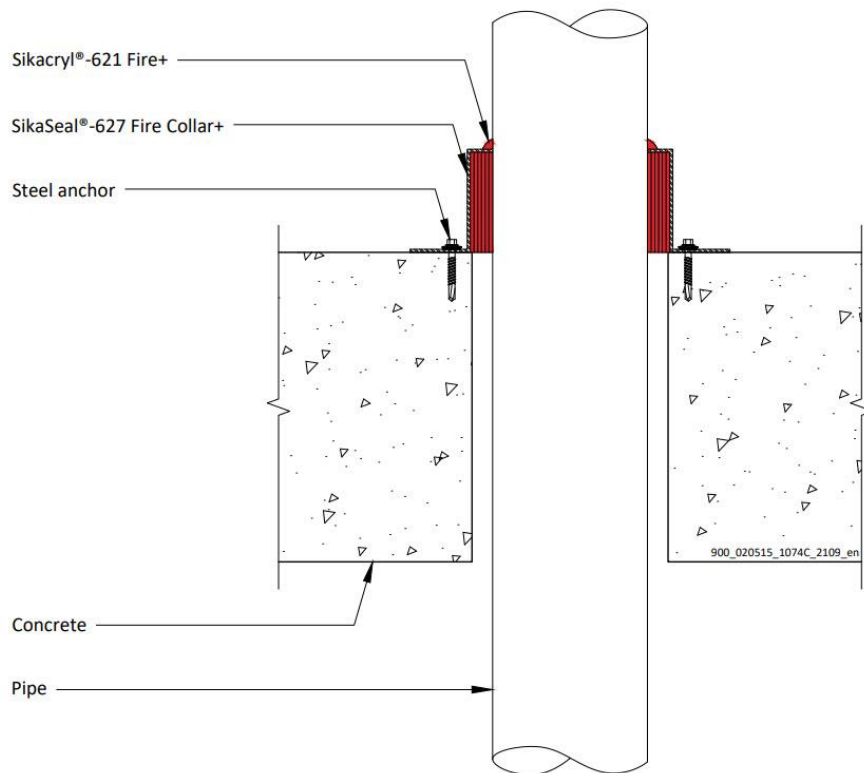
Services	Collar	Classification
None (blank)	Ø 55 x 30 x 3.2 mm	E 240, EI 60
None (blank)	Ø 160 x 60 x 15.0 mm	EI 120
Cables up to 21 mm Ø, in bundles up to 55 mm Ø	Ø 55 x 30 x 3.2 mm	EI 120
Cables up to 21 mm Ø, in bundles up to 100 mm Ø	Ø 110 x 50 x 6.0 mm	EI 90
Cables up to 21 mm Ø, in bundles up to 160 mm Ø	Ø 160 x 60 x 15.0 mm	EI 180
PVC pipes up to 32 mm Ø, wall thickness 1.0-2.4 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø *	Up to 110 mm collar at 50 mm height, 125-160 mm at 60 mm height	EI 90 C/U
PE pipes up to 32 mm Ø, wall thickness 2.0-3.0 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø *		
PP pipes up to 32 mm Ø, wall thickness 1.8-4.4 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø *		
PEX pipe-in-pipe system		
Diameter up to 25 mm pipes, wall thicknesses 0.6 mm outer and 2.5 mm inner pipe, in bundle up to 50 mm	50 mm collar at 50 mm height	EI 90 C/C

* PVC, PE and PP pipes can be mixed in the same bundle.

A.5.5 Penetration seals, surface mounted in concrete floors

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to the top face of the floor.

Construction details:



A.5.5.1

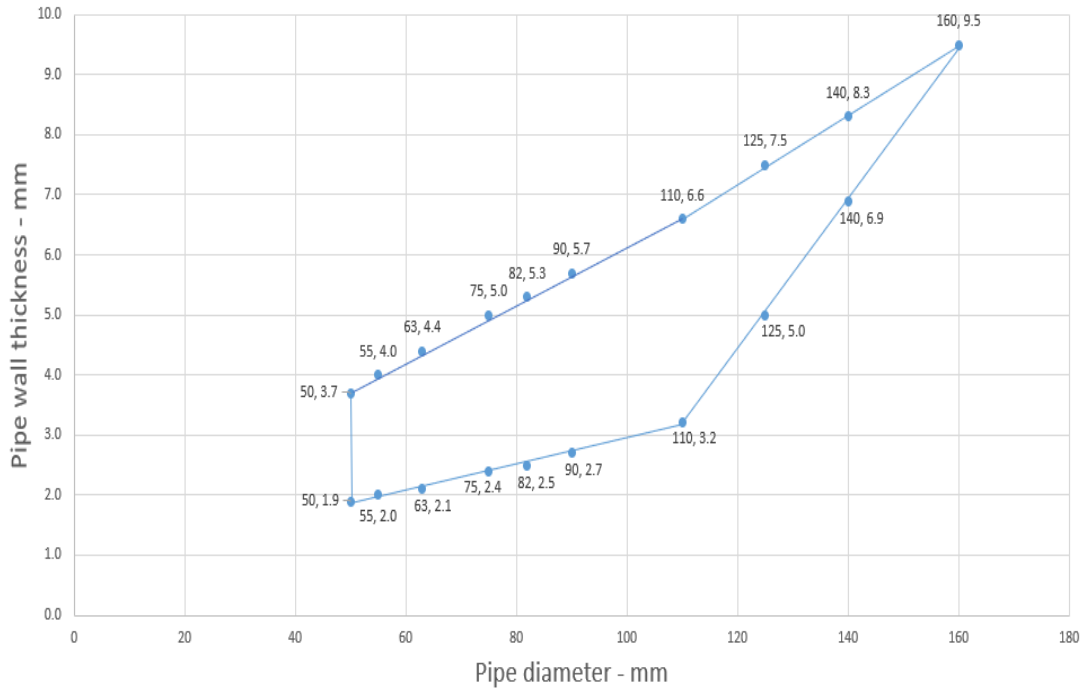
Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 32 mm, wall thickness 1.9-3.7 mm	50 x 3.0 mm	EI 240 U/C
Diameter 40 mm, wall thickness 1.9-3.7 mm	50 x 3.0 mm	
Diameter 50 mm, wall thickness 1.9-3.7 mm	50 x 3.2 mm	
Diameter 55 mm, wall thickness 2.0-4.0 mm	50 x 3.2 mm	EI 120 U/C
Diameter 63 mm, wall thickness 2.1-4.4 mm	50 x 3.6 mm	
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	E 240 U/C, EI 180 U/C
Diameter 125 mm, wall thickness 5.0-7.5 mm	60 x 8.8 mm	
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	E 180 U/C, EI 90 U/C
Diameter 125 mm, wall thickness 4.1-7.5 mm	60 x 8.8 mm	
Diameter 140 mm, wall thickness 5.0-8.3 mm	60 x 11.5 mm	
Diameter 160 mm, wall thickness 6.2-9.5 mm	60 x 15 mm	

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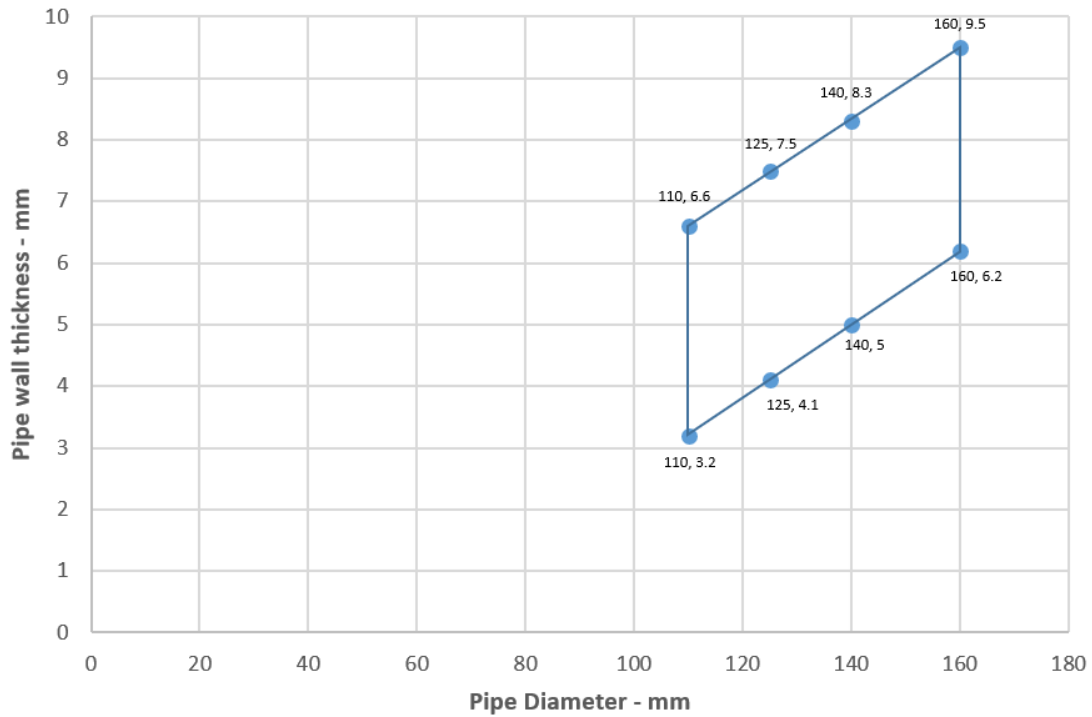
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PVC pipes 50-160 / 50-60 mm Collar - U/C



PVC Pipes 110-160 - U/C



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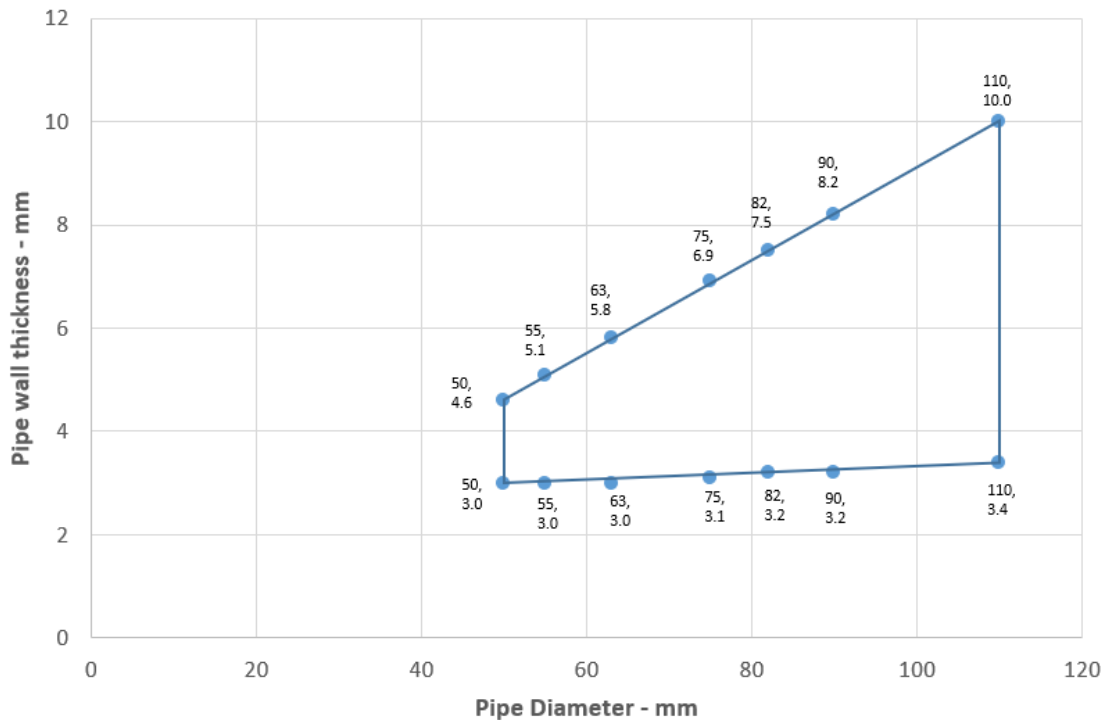
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A.5.5.2

Services	Collar Inlay	Classification
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	50 x 3.0 mm	EI 240 U/C
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	E 240 U/C, EI 60 U/C
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 3.9-9.8 mm	60 x 8.8 mm	EI 60 U/C
Diameter 140 mm, wall thickness 4.3-9.7 mm	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-9.5 mm	60 x 15 mm	

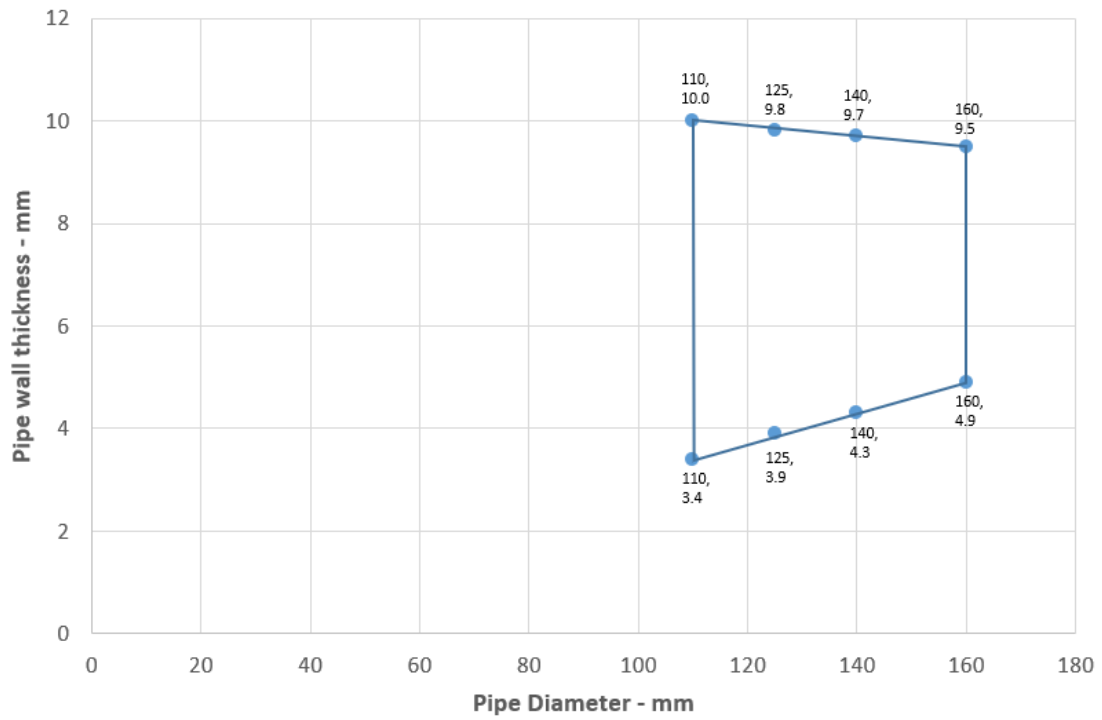
PE Pipes 50-110 / 50 mm collar - U/C



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PE Pipes 110-160 - U/C



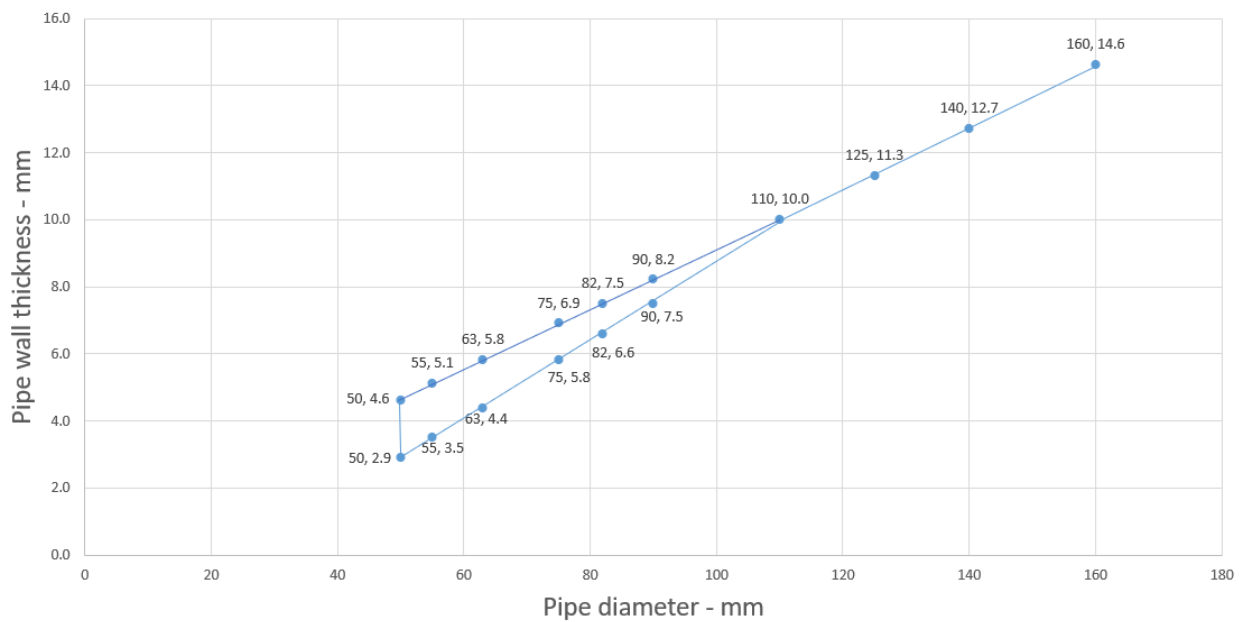
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A.5.5.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 2.9-4.6 mm	50 x 3.0 mm	E 240 U/C, EI 180 U/C
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	E 180 U/C, EI 90 U/C
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	
Diameter 125 mm, wall thickness 11.3 mm	60 x 8.8 mm	E 240 U/C, EI 60 U/C
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	

PP pipes 50-160 / 50-60 mm Collar - U/C

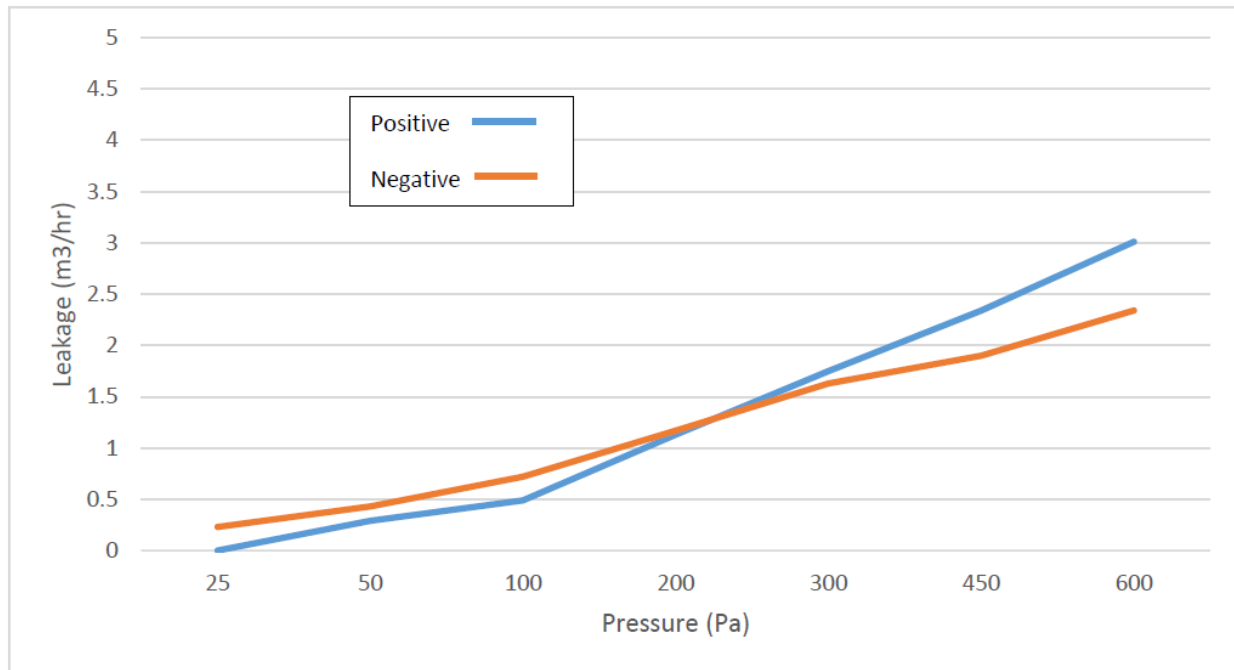


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ANNEX B – AIR PERMEABILITY – SIKASEAL-627 FIRE COLLAR+

Product tested	110mm SikaSeal-627 Fire Collar+ each face fixed with plasterboard anchors		
Summary of testing procedure		Result	
	Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)
Results under negative chamber pressure	25	0.23	N/A
	50	0.43	N/A
	100	0.72	N/A
	200	1.17	N/A
	300	1.63	N/A
	450	1.9	N/A
	600	2.34	N/A
Results under positive chamber pressure	25	0.2	N/A
	50	0.29	N/A
	100	0.49	N/A
	200	1.13	N/A
	300	1.75	N/A
	450	2.34	N/A
	600	3.01	N/A



ANNEX A –

8 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR - SPECIFIC TECHNICAL DOCUMENTATION

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Name: Anders Beier
Function: General Manager
At Farum on 3 May 2022



.....

Name: Stan Petersen
Function: Head Distribution
At Farum on 3 May 2022



.....

End of information as required by Regulation (EU) No 305/2011

FULL CE MARK

<h1>CE</h1>
21
Sika Services AG, Zurich, Switzerland
86765665
Resistance to fire - Annex A
Air permeability – Annex B
Durability Z ₂
Airborne sound insulation R _w (C;Ctr): 58 (-1;-7)

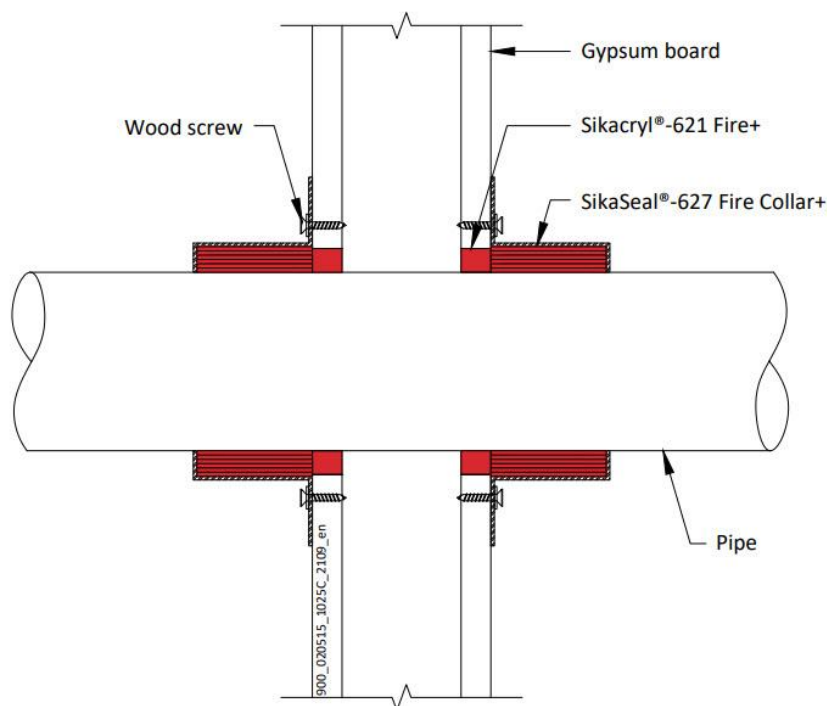
ANNEX A – RESISTANCE TO FIRE CLASSIFICATION – SIKASEAL-627 FIRE COLLAR+

A.1 Flexible or rigid wall constructions with wall thickness of minimum 75 mm

A.1.1 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



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BUILDING TRUST

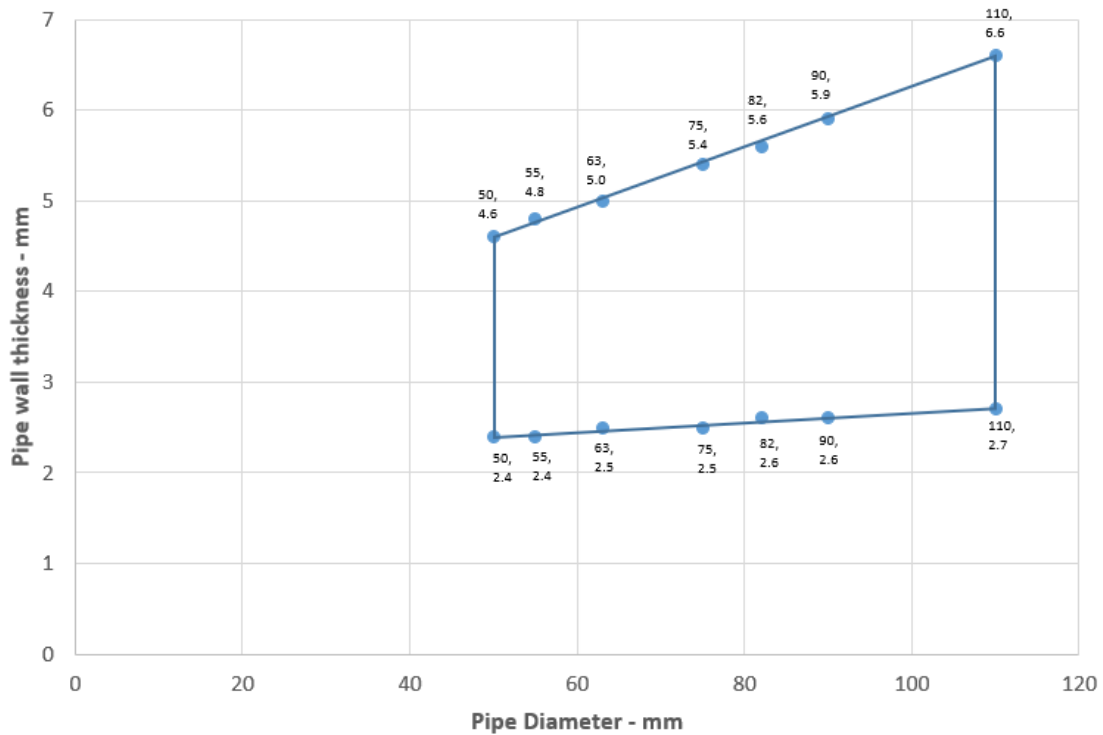


A.1.1.1

Services	Collar Inlay	Classification
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 2.4-4.6 mm	30 x 3.0 mm	E 60 U/U, E 60 C/U, E 60 U/C, E 60 C/C EI 30 U/U, EI 30 C/U, EI 30 U/C, EI 30 C/C
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 2.4-4.8 mm*	30 x 3.2 mm	E 60 U/C, E 60 C/C EI 30 U/C, EI 30 C/C
Diameter 63 mm, wall thickness 2.5-5.0 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-5.4 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.6-5.6 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.6-5.9 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	30 x 6.0 mm	E 60 U/C, E 60 C/C EI 45 U/C, EI 45 C/C
Diameter 125 mm, wall thickness 2.9-7.4 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 3.0-8.3 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 50-110 / 30 mm Collar - U/C

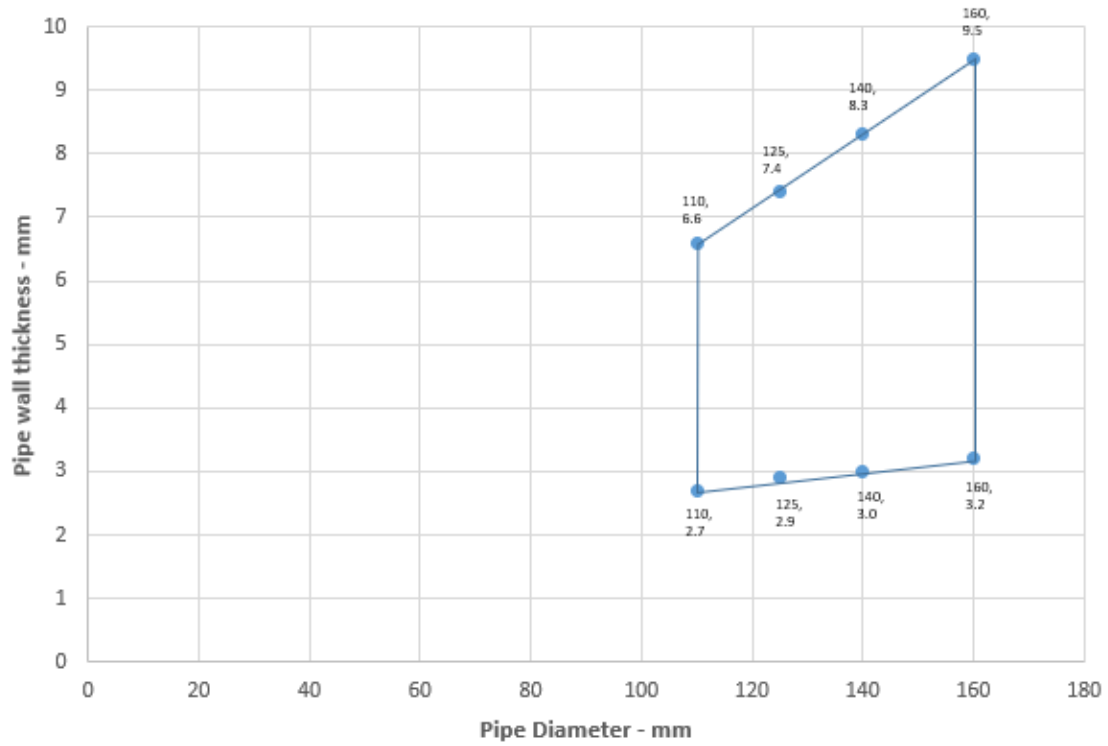


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PVC Pipes 125-160 / 60 mm Collar - U/C



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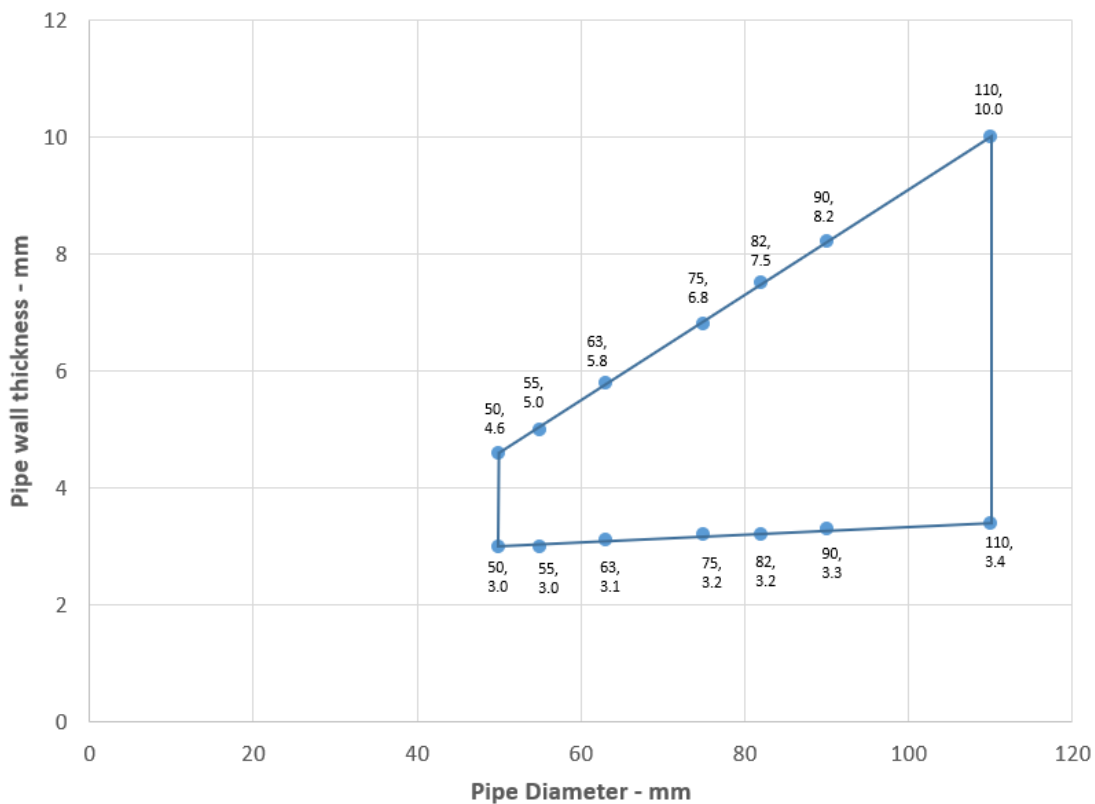


A.1.2

Services	Collar Inlay	Classification	
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	30 x 3.0 mm	E 60 U/C, E 60 C/C EI 30 U/C, EI 30 C/C	
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 3.0-5.0 mm*	30 x 3.2 mm		
Diameter 63 mm, wall thickness 3.1-5.8 mm*	30 x 3.6 mm		
Diameter 75 mm, wall thickness 3.2-6.8 mm*	30 x 4.2 mm		
Diameter 82 mm, wall thickness 3.2-7.5 mm*	30 x 4.6 mm		
Diameter 90 mm, wall thickness 3.3-8.2 mm*	30 x 5.0 mm		
Diameter 110 mm, wall thickness 3.4-10.0 mm*	30 x 6.0 mm		EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 4.2-9.8 mm*	60 x 8.8 mm		E 60 U/C, E 60 C/C EI 45 U/C, EI 45 C/C
Diameter 140 mm, wall thickness 5.1-9.6 mm*	60 x 11.5 mm		
Diameter 160 mm, wall thickness 6.2-9.5 mm*	60 x 15.0 mm		

* Typical pipe diameters shown, see below graph for intermediate sizes

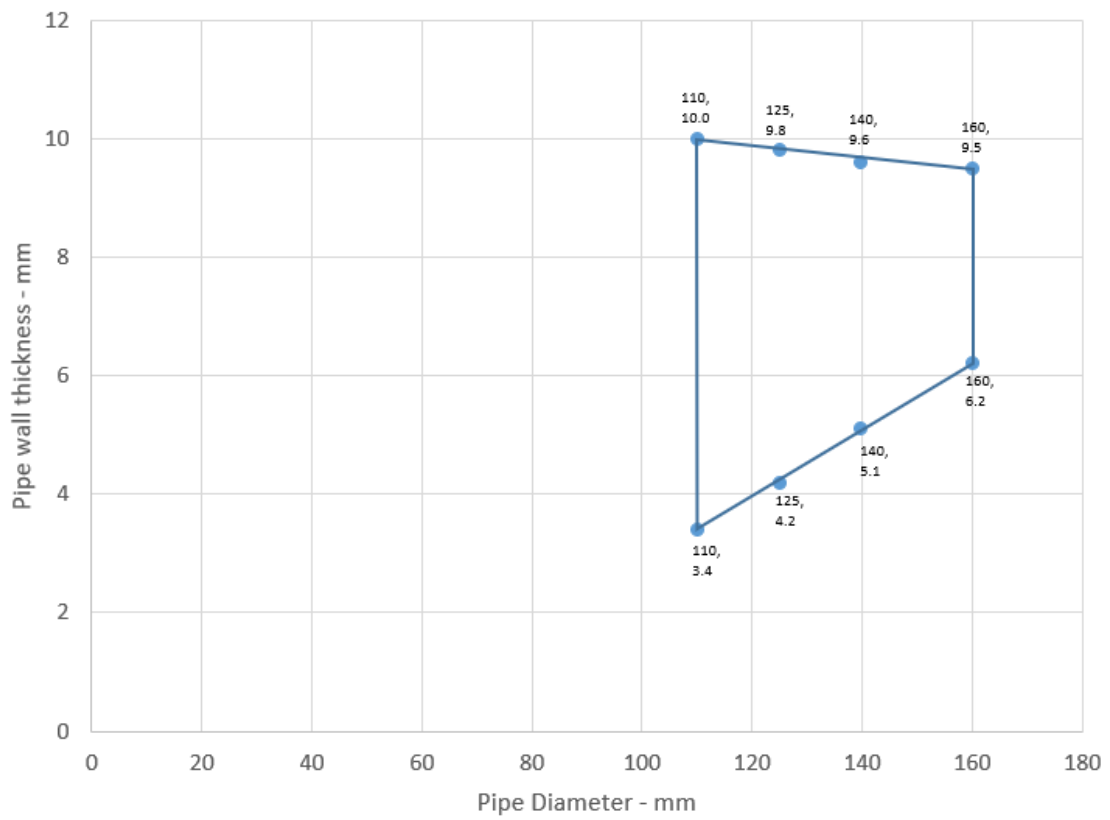
PE Pipes 50-110 / 30 mm Collar - U/C



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PE Pipes 125-160 / 60 mm Collar - U/C



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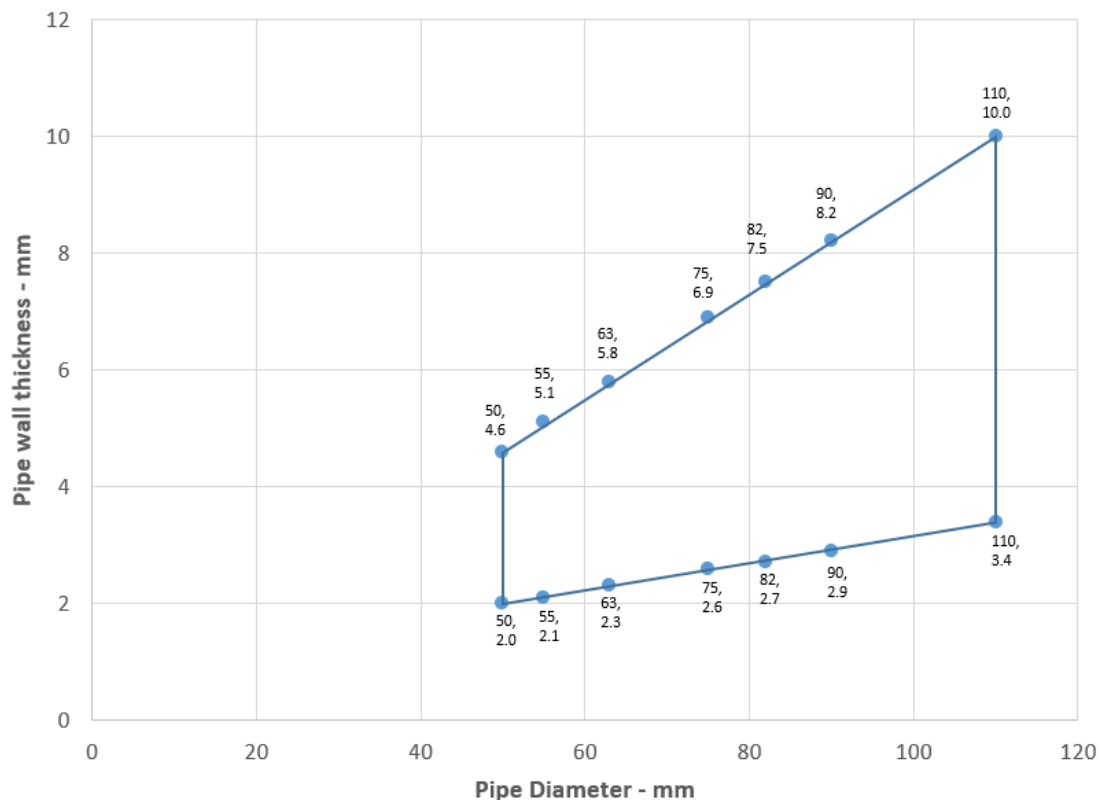
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A.1.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 2.0-4.6 mm	30 x 3.0 mm	E 60 U/U, E 60 C/U, E 60 U/C, E 60 C/C EI 30 U/U, EI 30 C/U, EI 30 U/C, EI 30 C/C
Diameter 40 mm, wall thickness 2.0-4.6 mm		
Diameter 50 mm, wall thickness 2.0-4.6 mm		
Diameter 55 mm, wall thickness 2.1-5.1 mm*	30 x 3.2 mm	E 60 U/C, E 60 C/C EI 30 U/C, EI 30 C/C
Diameter 63 mm, wall thickness 2.3-5.8 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.6-6.9 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.7-7.5 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-8.2 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.0 mm*	30 x 6.0 mm	E 60 U/C, E 60 C/C EI 45 U/C, EI 45 C/C
Diameter 125 mm, wall thickness 3.9-11.4 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 4.3-12.8 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.6 mm*	60 x 15.0 mm	EI 60 U/C, EI 60 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

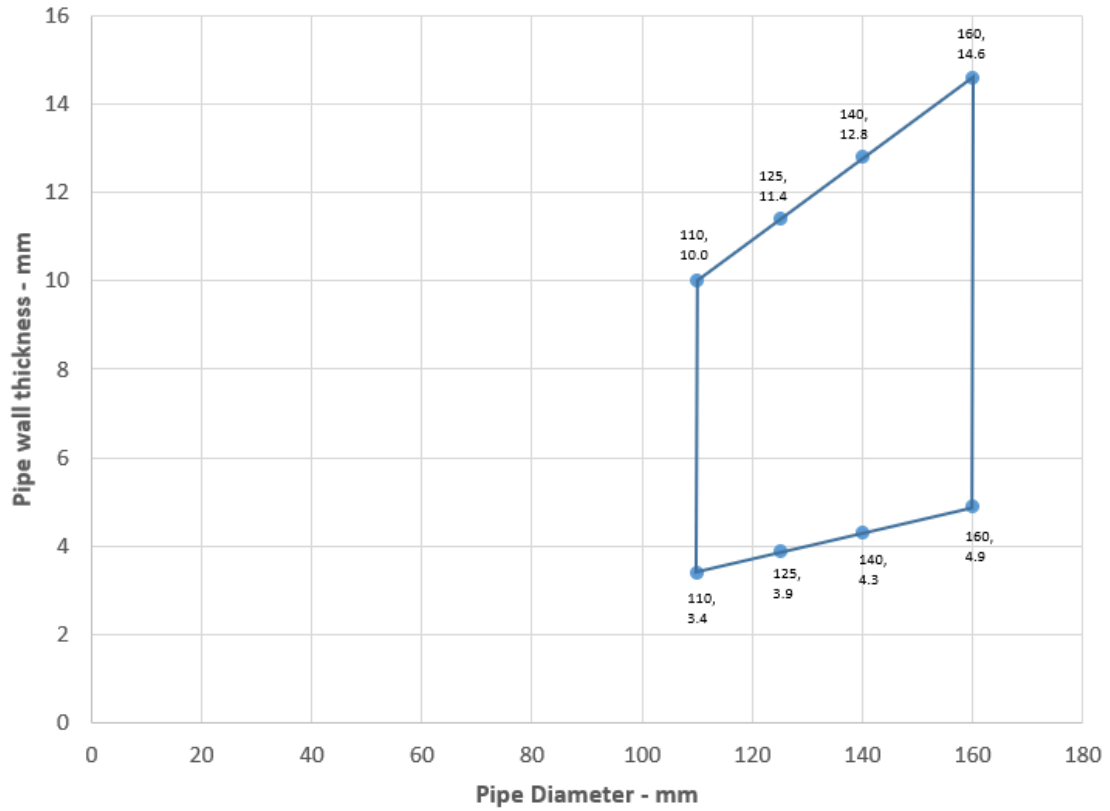
PP Pipes 50-110 / 30 mm Collar



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PP Pipes 125-160 / 60 mm Collar - U/C



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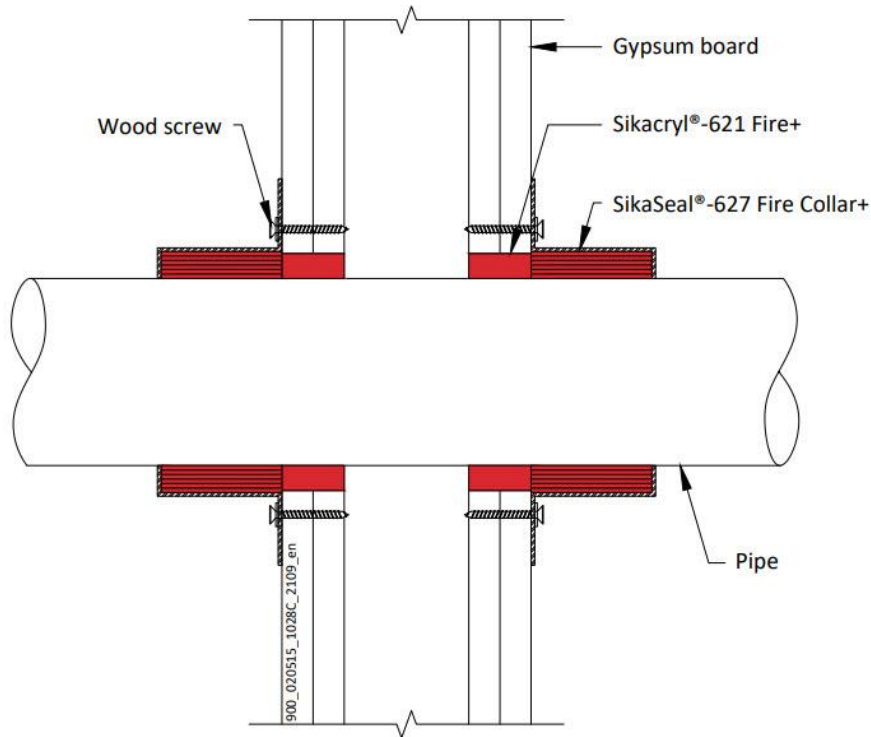


A.2 Flexible or rigid wall constructions with wall thickness of minimum 100 mm

A.2.1 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



A.2.1.1.1

Services	Collar Inlay	Classification
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	30 x 3.0 mm	E 90 U/C, E 90 C/C EI 60 U/C, EI 60 C/C
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*	30 x 3.2 mm	EI 60 U/C, EI 60 C/C
Diameter 63 mm, wall thickness 1.5-5.0 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 1.8-5.4 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.0-5.6 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.2-5.9 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	30 x 6.0 mm	

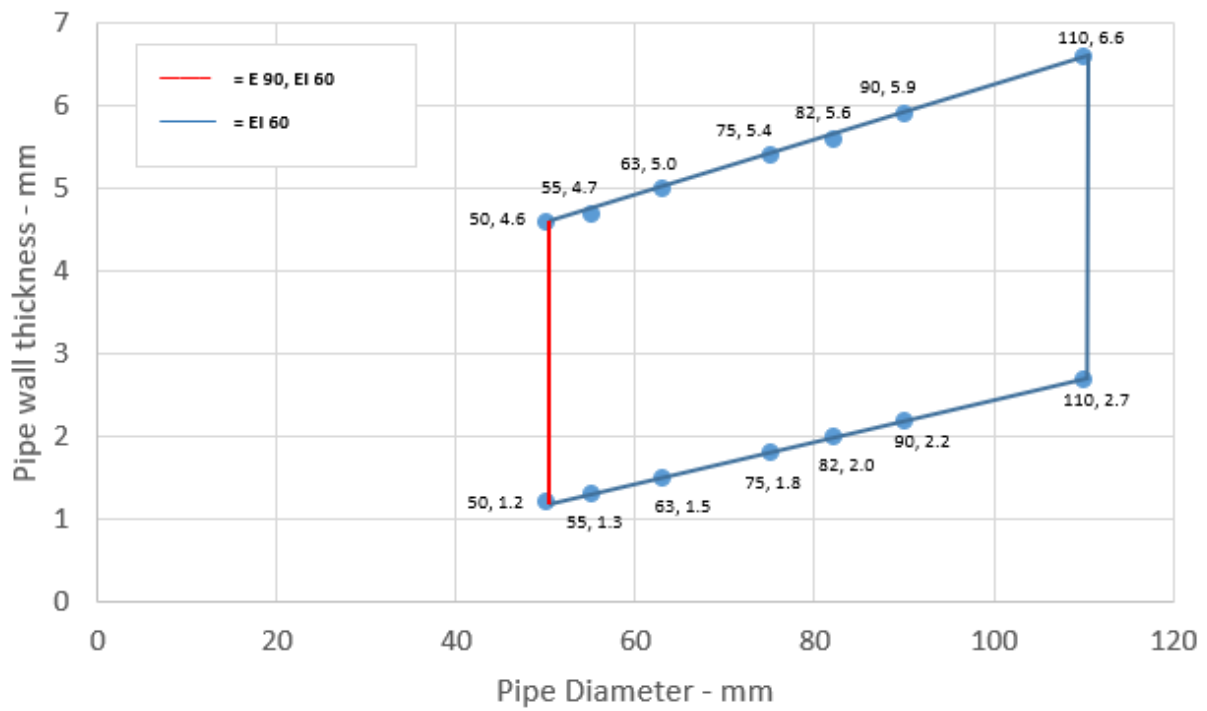
* Typical pipe diameters shown, see below graph for intermediate sizes

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PVC Pipes 50-110 / 30 mm Collar - U/C



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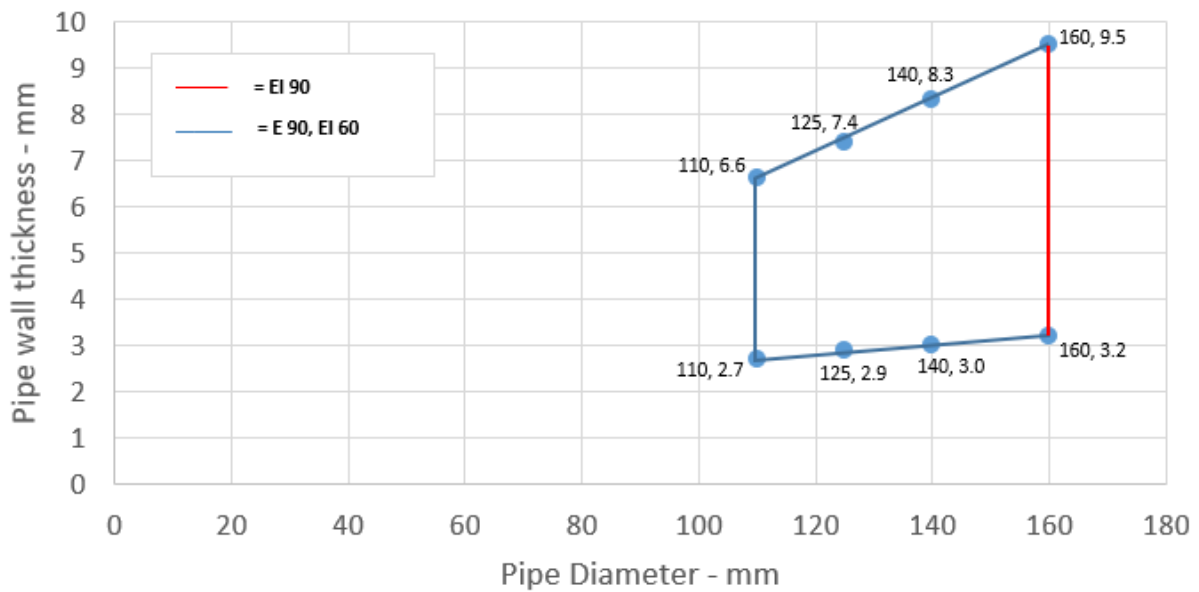
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A.2.1.1.2

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 2.9-7.4 mm*	50 x 8.8 mm	
Diameter 140 mm, wall thickness 3.0-8.3 mm*	50 x 11.5 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	50 x 15.0 mm	EI 90 U/C, EI 90 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 110-160 / 50 mm Collar - U/C



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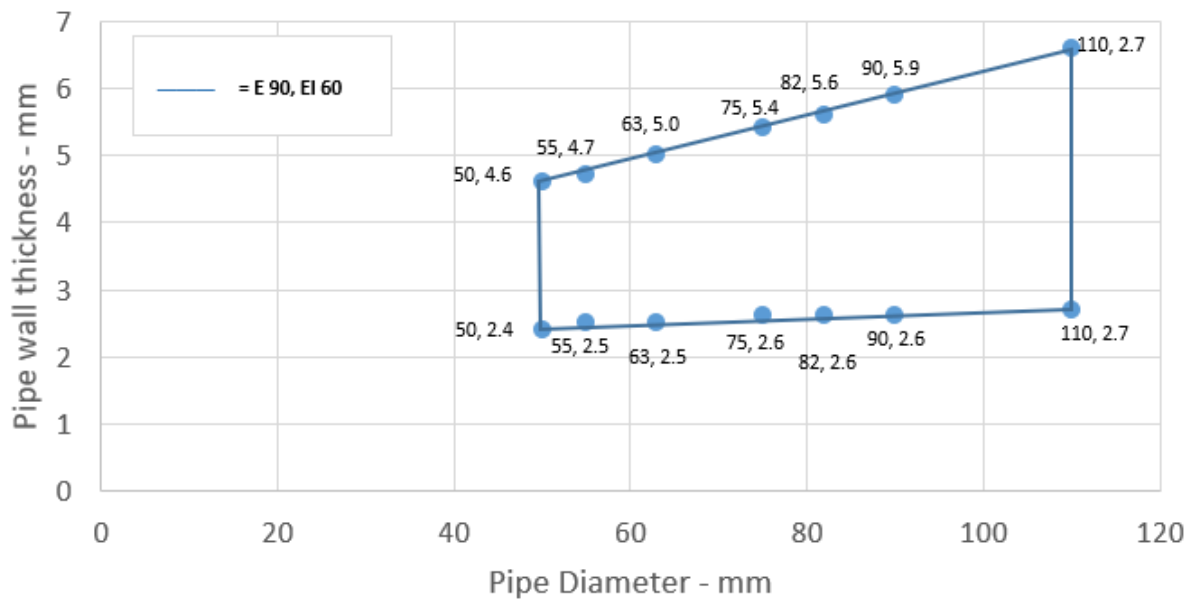
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A.2.1.1.3

Services	Collar Inlay	Classification
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 2.4-4.6 mm	30 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
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*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.5-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.6-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.6-5.6 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.6-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 50-110 / 50 mm Collar - U/U



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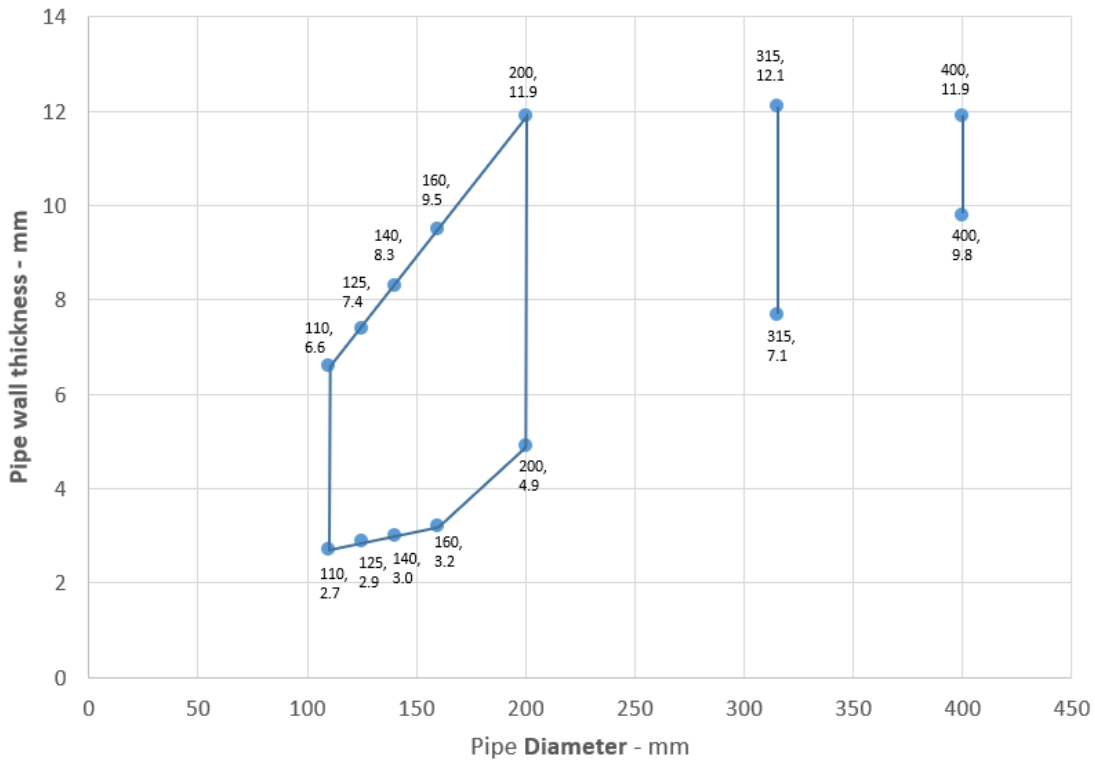
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A.2.1.1.4

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	60 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 2.9-7.4 mm*	60 x 9.0 mm	EI 60 U/U, EI 60 C/U
Diameter 140 mm, wall thickness 3.0-8.3 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	60 x 15.0 mm	
Diameter 200 mm, wall thickness 4.9-11.9 mm*	60 x 18 mm	EI 120 U/C, EI 120 C/C
Diameter 315 mm, wall thickness 7.7-12.1 mm*	75 x 30 mm	EI 90 C/C
Diameter 400 mm, wall thickness 9.8-11.9 mm*	100 x 40 mm	E 120 C/C EI 90 C/C

* Typical pipe diameters shown, see below graphs for intermediate sizes

PVC Pipes



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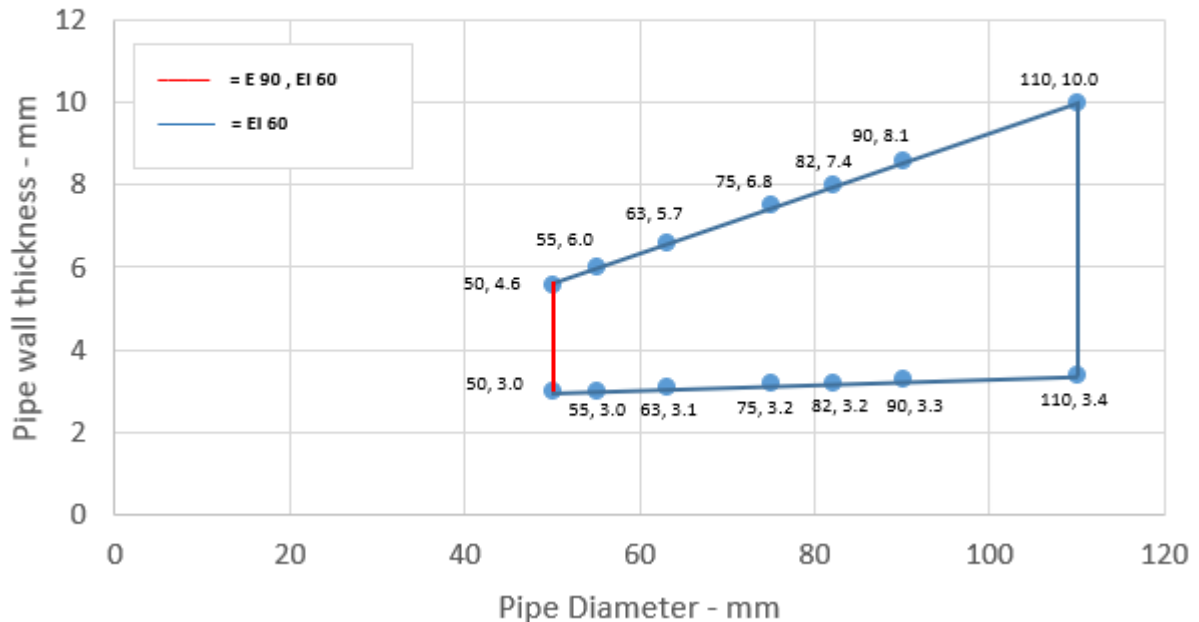
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A.2.1.2

Services	Collar Inlay	Classification
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	30 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 45 U/U, EI 45 C/U, EI 45 U/C, EI 45 C/C
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		
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	EI 60 U/C, EI 60 C/C
Diameter 63 mm, wall thickness 3.1-6.6 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 3.2-7.5 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 3.2-8.0 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-8.6 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.0 mm*	30 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 30 mm Collar - U/C



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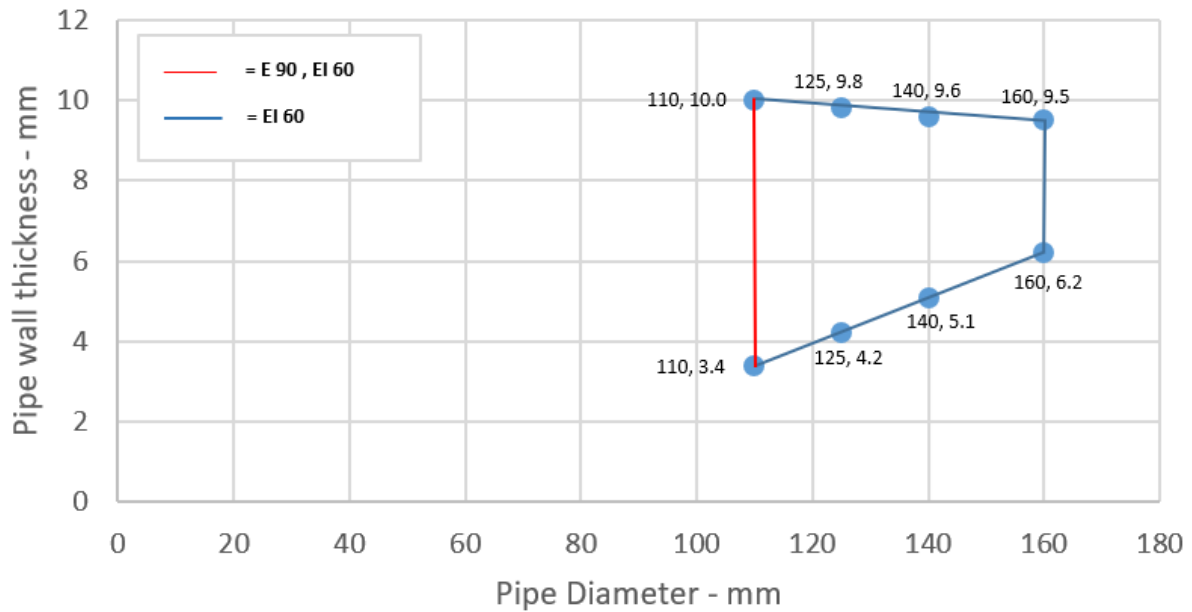
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A.2.1.2.1

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4-10.0 mm*	50 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 4.2-9.8 mm*	50 x 9.0 mm	EI 60 U/C, EI 60 C/C
Diameter 140 mm, wall thickness 5.1-9.6 mm*	50 x 11.5 mm	
Diameter 160 mm, wall thickness 6.2-9.5 mm*	50 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE pipes 110-160 / 50 mm Collar - U/C



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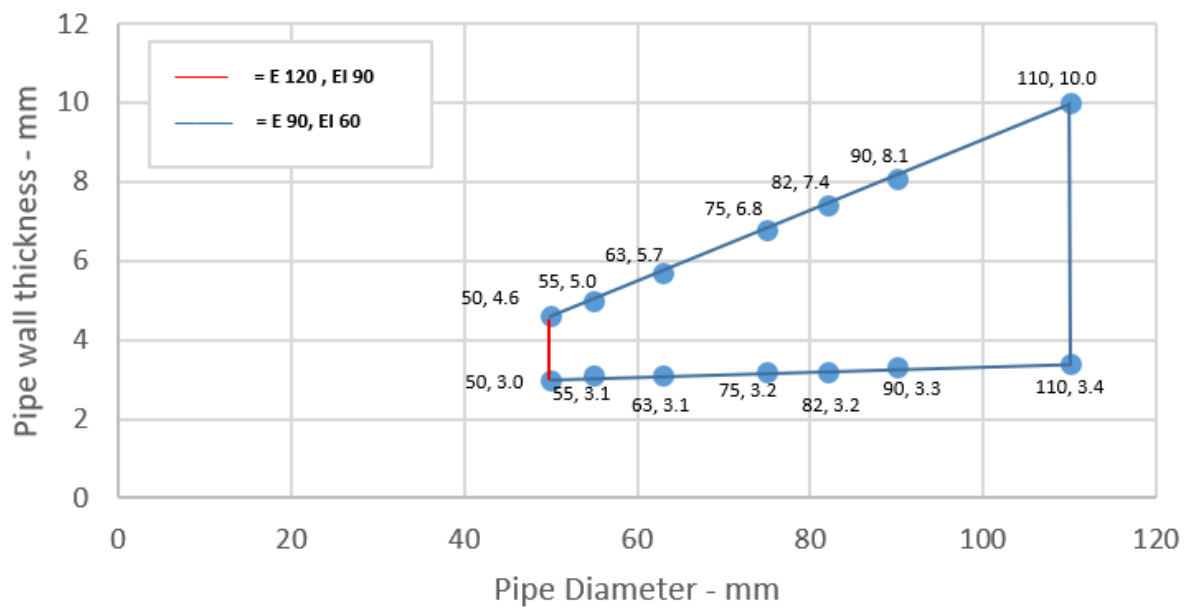


A.2.1.2.2

Services	Collar Inlay	Classification
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	50 x 3.0 mm	E 120 U/U, EI 90 U/U
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*	50 x 3.2 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
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 3.2-7.4 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-8.1 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.0 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 50 mm Collar - U/U



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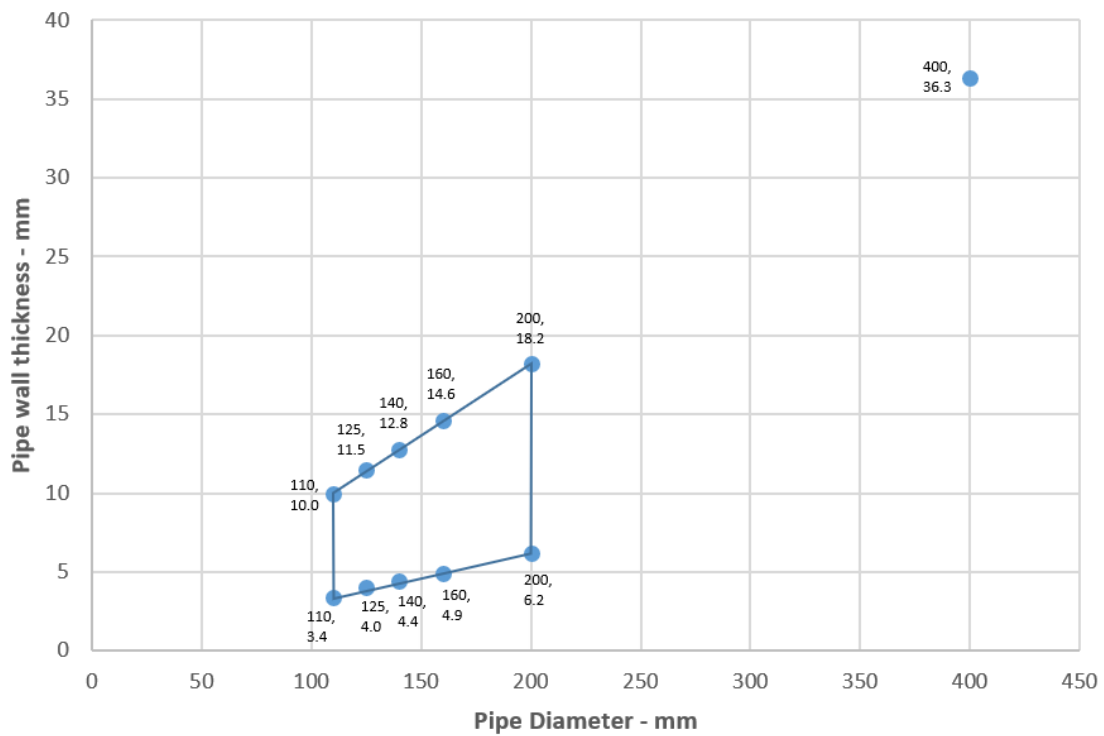
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A.2.1.2.3

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4-10.0 mm*	60 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 4.0-11.5 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 4.4-12.8 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.6 mm*	60 x 15.0 mm	EI 90 U/U, EI 90 C/U, EI 90 U/C, EI 90 C/C
Diameter 200 mm, wall thickness 6.2-18.2 mm*	60 x 18.0 mm	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter 400 mm, wall thickness 36.3 mm*	100 x 40.0 mm	EI 90 C/C

* Typical pipe diameters shown, see below graphs for intermediate sizes

PE Pipes



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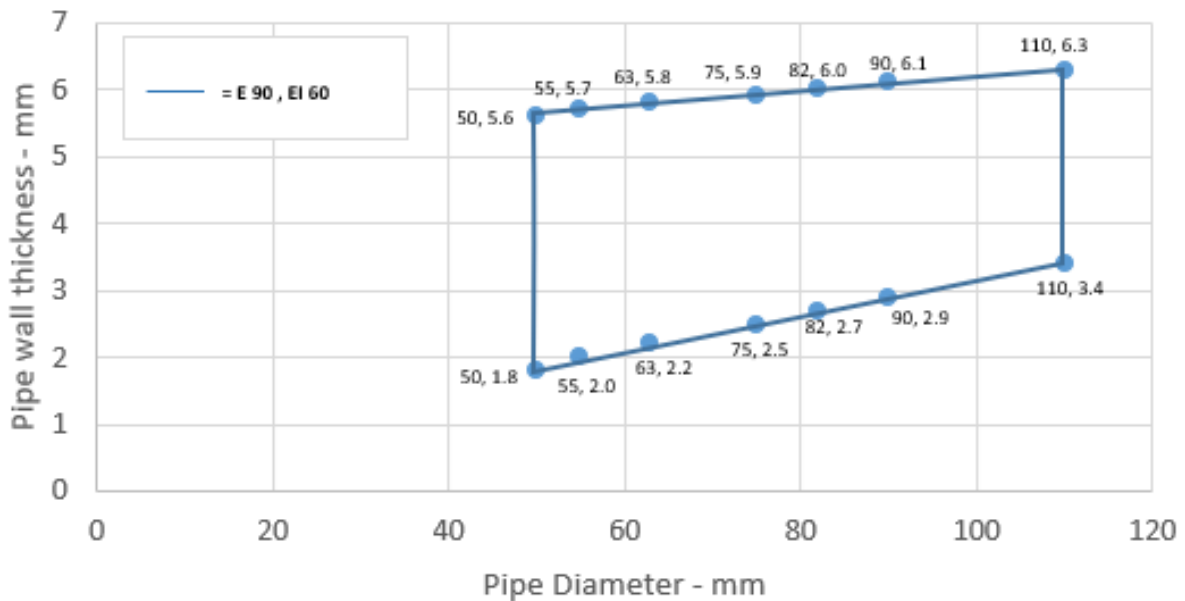
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A.2.1.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 3.0-5.6 mm	30 x 3.0 mm	E 90 U/C, E 90 C/C EI 60 U/C, EI 60 C/C
Diameter 40 mm, wall thickness 3.0-5.6 mm		
Diameter 50 mm, wall thickness 3.0-5.6 mm		
Diameter 32 mm, wall thickness 1.8-4.6 mm	30 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
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 1.8-5.6 mm*	30 x 3.0 mm	E 90 U/C, E 90 C/C EI 60 U/C, EI 60 C/C
Diameter 55 mm, wall thickness 2.0-5.7 mm*	30 x 3.2 mm	
Diameter 63 mm, wall thickness 2.2-5.8 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-5.9 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.7-6.0 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-6.1 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-6.3 mm*	30 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 50-110 / 30 mm Collar - U/C



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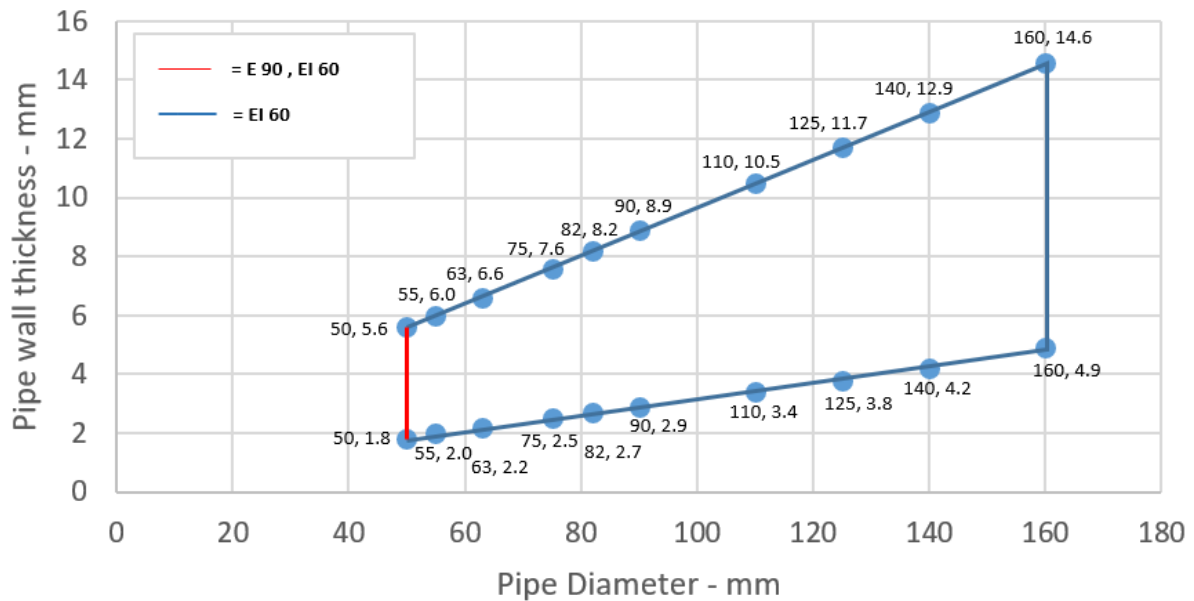


A.2.1.3.1

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.8-5.6 mm*	50 x 3.0 mm	E 90 U/C, E 90 C/C EI 60 U/C, EI 60 C/C
Diameter 55 mm, wall thickness 2.0-6.0 mm*	50 x 3.2 mm	EI 60 U/C, EI 60 C/C
Diameter 63 mm, wall thickness 2.2-6.6 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-7.6 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.7-8.2 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-8.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.5 mm*	50 x 6.0 mm	
Diameter 125 mm, wall thickness 3.8-11.7 mm*	50 x 8.8 mm	
Diameter 140 mm, wall thickness 4.2-12.9 mm*	50 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.6 mm*	50 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 50-160 / 50 mm Collar - U/C



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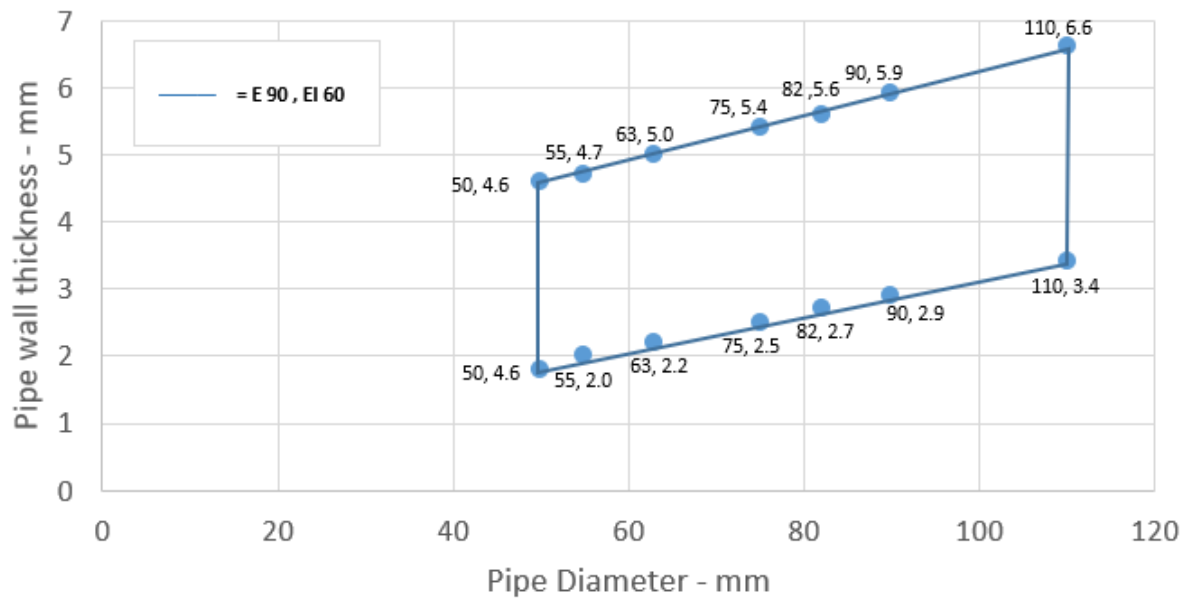
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A.2.1.3.2

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.8-4.6 mm*	50 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 55 mm, wall thickness 2.0-4.7 mm*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.2-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.7-5.6 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-6.6 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 50-110 / 50 mm Collar - U/U



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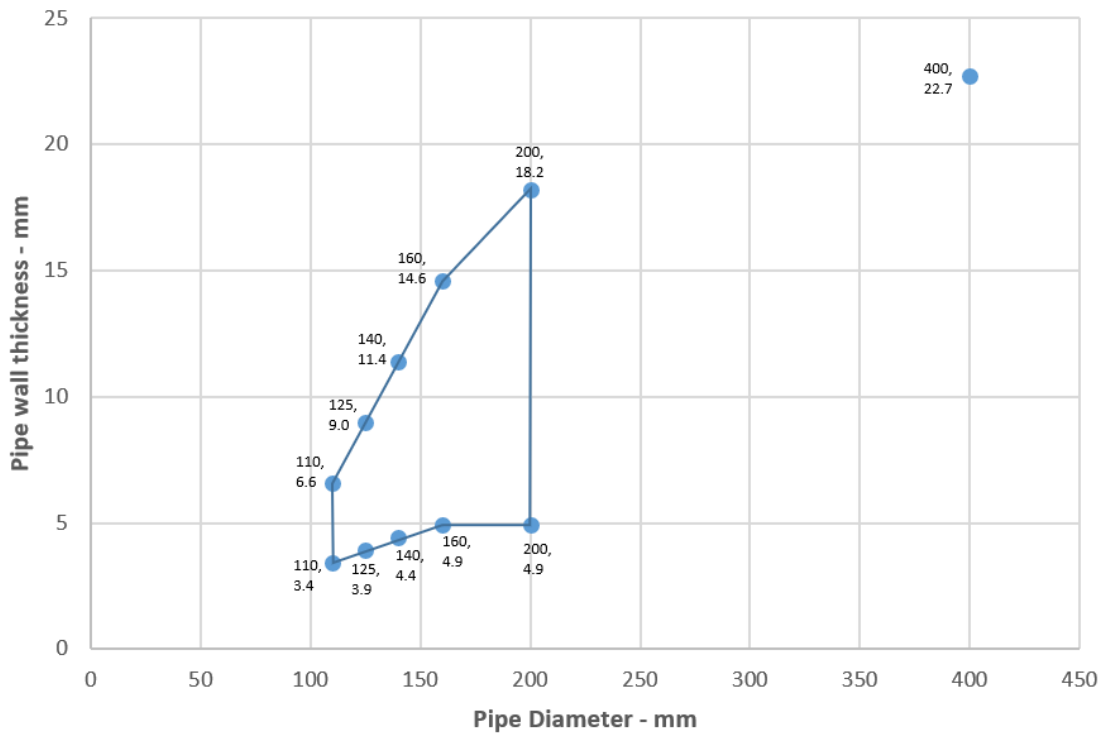
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A.2.1.3.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 3.4-6.6 mm*	60 x 6.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 125 mm, wall thickness 3.9-9.0 mm*	60 x 9.0 mm	EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 140 mm, wall thickness 4.4-11.4 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.6 mm*	60 x 15.0 mm	
Diameter 200 mm, wall thickness 4.9-18.2 mm*	60 x 18.0 mm	E 120 U/C, E 120 C/C EI 90 U/C, EI 90 C/C
Diameter 400 mm, wall thickness 22.7 mm*	100 x 40.0 mm	EI 60 C/C

* Typical pipe diameters shown, see below graphs for intermediate sizes

PP Pipes



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A.2.1.4.1

Services	Collar Inlay	Classification
Wavin SiTech + PP-M B according to EN 13501-1		
32-40 mm diameter/ 1.8 mm wall thickness	50 x 3.0 mm	EI 120 U/U
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	E 120 U/U, EI 60 U/U
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	30 x 3.0 mm	EI 120 C/C
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	E 120 C/C, EI 60 C/C
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	50 x 3.0 mm	EI 120 U/U
75 mm diameter/1.8-2.5 mm wall thickness	50 x 4.2 mm	E 120 U/U, EI 60 U/U
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	50 x 3.0 mm	EI 120 U/U
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	E 120 U/U, EI 90 U/U
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	E 120 U/U, EI 120 U/C
Diameter 160 mm, wall thickness 4.9 mm	60 x 15 mm	EI 120 U/U
Rehau Raupiano Plus PP-DD according to DIN 4102		
40 mm diameter/1.8 mm wall thickness	50 x 3.0 mm	E 120 U/U, EI 90 U/U
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	E 120 U/U, EI 60 U/U
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	EI 120 U/U
Diameter 160 mm, wall thickness 3.9 mm	60 x 15.0 mm	

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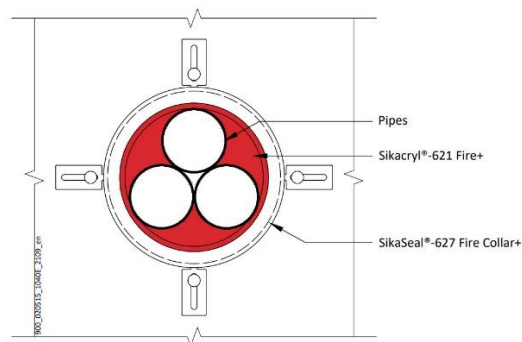
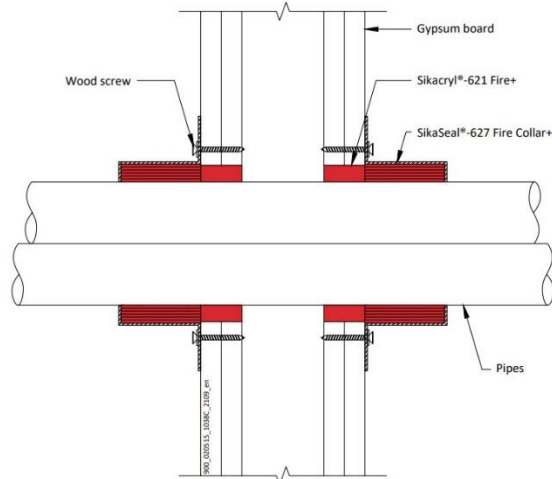
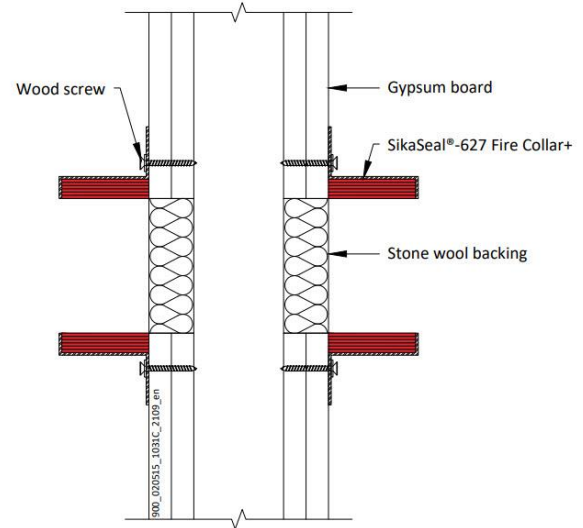
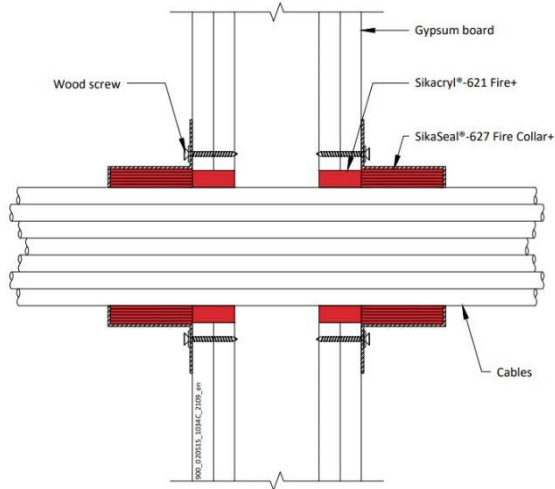
A.2.1.4.1

Services	Collar Inlay	Classification
BluePower Multilayer pipe – TR02-PP according to EN 1451-1		
32-40 mm diameter/1.8 mm wall thickness	50 x 3.0 mm	E 120 U/U, EI 90 U/U
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	E 120 C/U, EI 60 C/U
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	
125 mm diameter/2.3-3.8 mm wall thickness	60 x 9.0 mm	EI 60 C/U
160 mm diameter/3.4-4.9 mm wall thickness	60 x 15.0 mm	EI 90 C/U
Uponor Decibel according to EN 1451-1		
50 mm diameter/ 2.0 mm wall thickness	50 x 3.0 mm	E 120 U/U, EI 60 U/U
75 mm diameter/ 2.6 mm wall thickness	50 x 4.2 mm	
110 mm diameter/ 3.8 mm wall thickness	50 x 6.0 mm	

A.2.2 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Cables and pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



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A.2.2.1

Services	Collar	Collar Inlay	Classification
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)	Up to 110 mm collar at 30 mm height	Between 3.0 and 6.0 mm	E 120, EI 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	E 120, EI 60
PVC pipes up to 40 mm Ø, wall thickness 1.0-3.7 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø	Up to 110 mm collar at 50 mm height, 125-160 mm at 60 mm height	Between 3.0 and 15.0 mm	EI 90 U/C
PE pipes up to 40 mm Ø, wall thickness 2.0-3.7 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø			
PP pipes up to 40 mm Ø, wall thickness 1.8-3.7 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø			
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	E 120, EI 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	EI 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	55 mm collar at 30 mm height	3.2 mm	E 120 C/C, EI 90 C/C

PVC, PE and PP pipes can be mixed in the same bundle.

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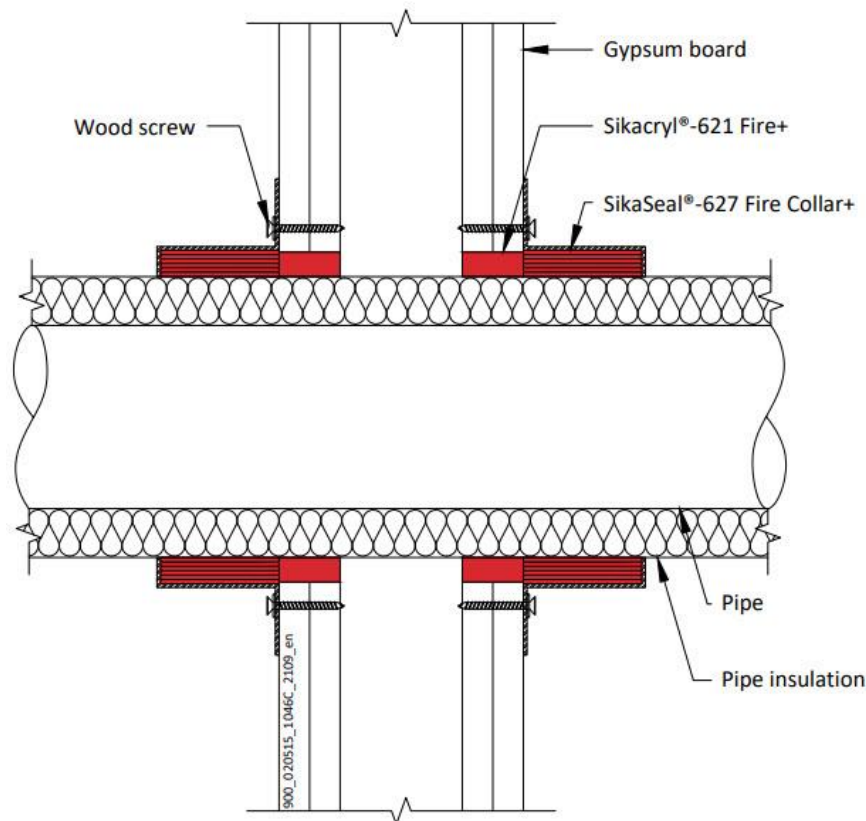
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A.2.3 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: CS (Continuous Sustained) insulated metallic pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



A.2.3.1

Services	Insulation	Collar	Classification
Copper pipe or mild steel			
Maximum diameter 54 mm, wall thickness 0.7-14.2 mm*	9-50 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height, 125-160 mm at 60 mm height	E 90 C/C, EI 60 C/C
Diameter 54 mm, wall thickness 1.2 mm	25 mm thick Phenolic Foam insulation	Ø 110 x 50 x 6.0 mm	E 120 C/C, EI 60 C/C
Diameter 54 mm, wall thickness 1.2 mm	20 mm thick PE foam insulation	Ø 110 x 50 x 6.0 mm	E 120 C/C, EI 90 C/C
Alupex pipe			
Maximum diameter 75 mm, wall thickness 2.25-4.6 mm*	9-50 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height	E 90 C/C, EI 60 C/C

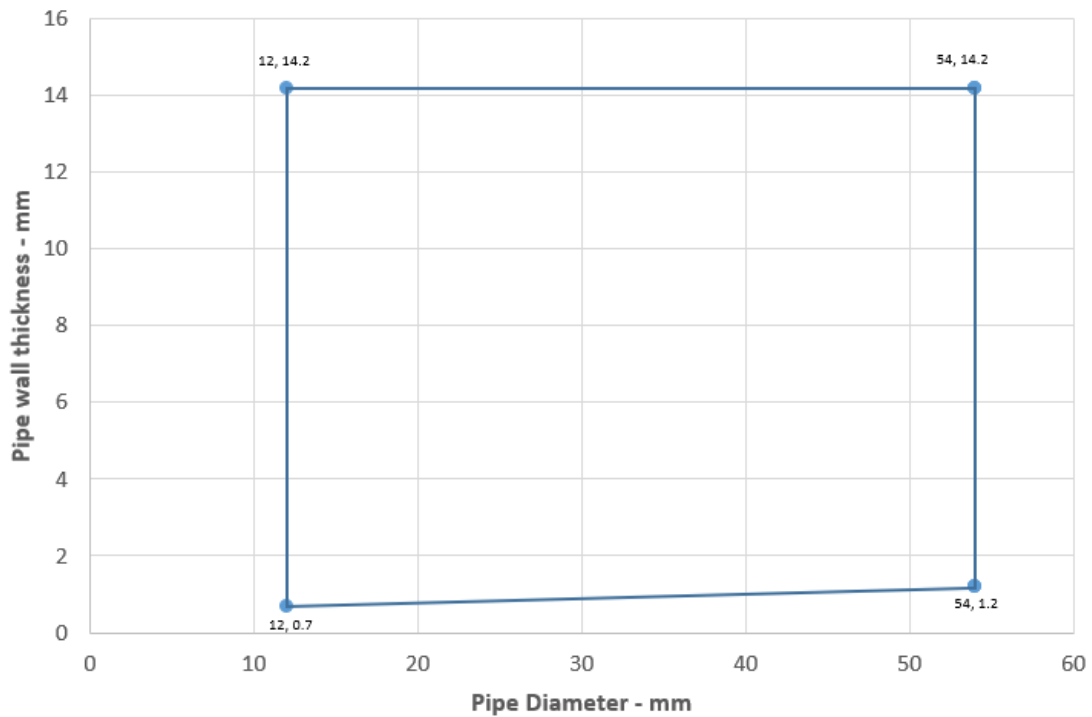
* Typical pipe diameters shown, see below graphs for intermediate sizes

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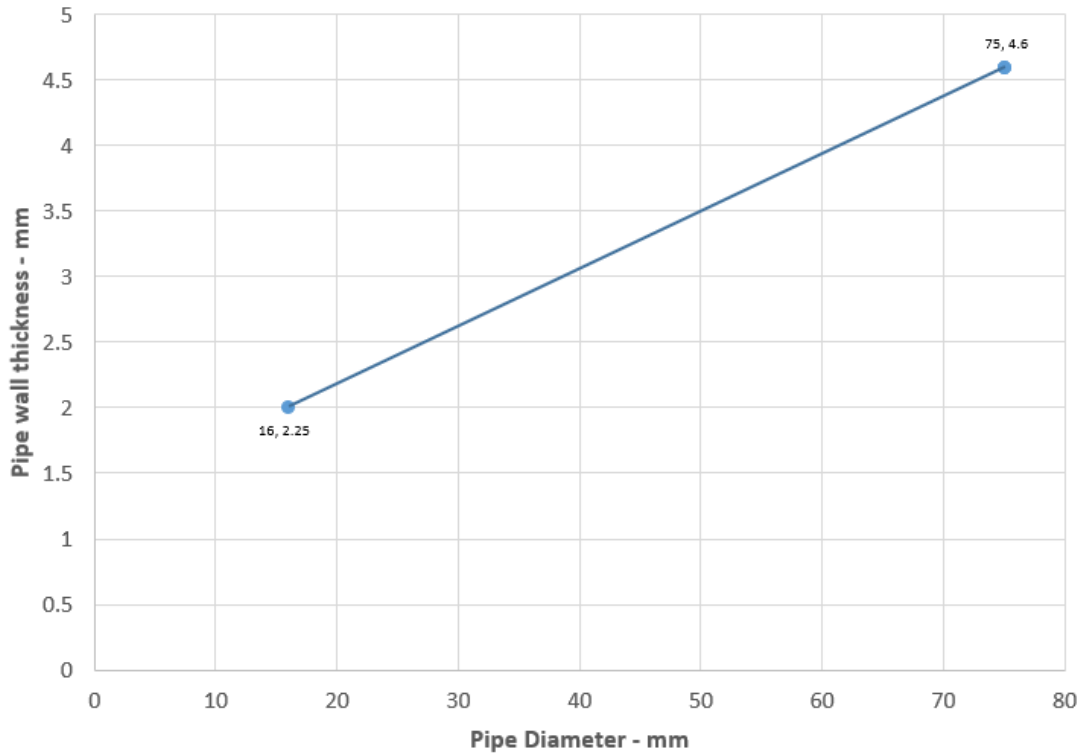
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Copper or Steel Pipes 32-54 / 9-50 mm Elastomeric Insulation



Alupex Pipes 16-75 / 9-50 mm Elastomeric Insulation - C/C



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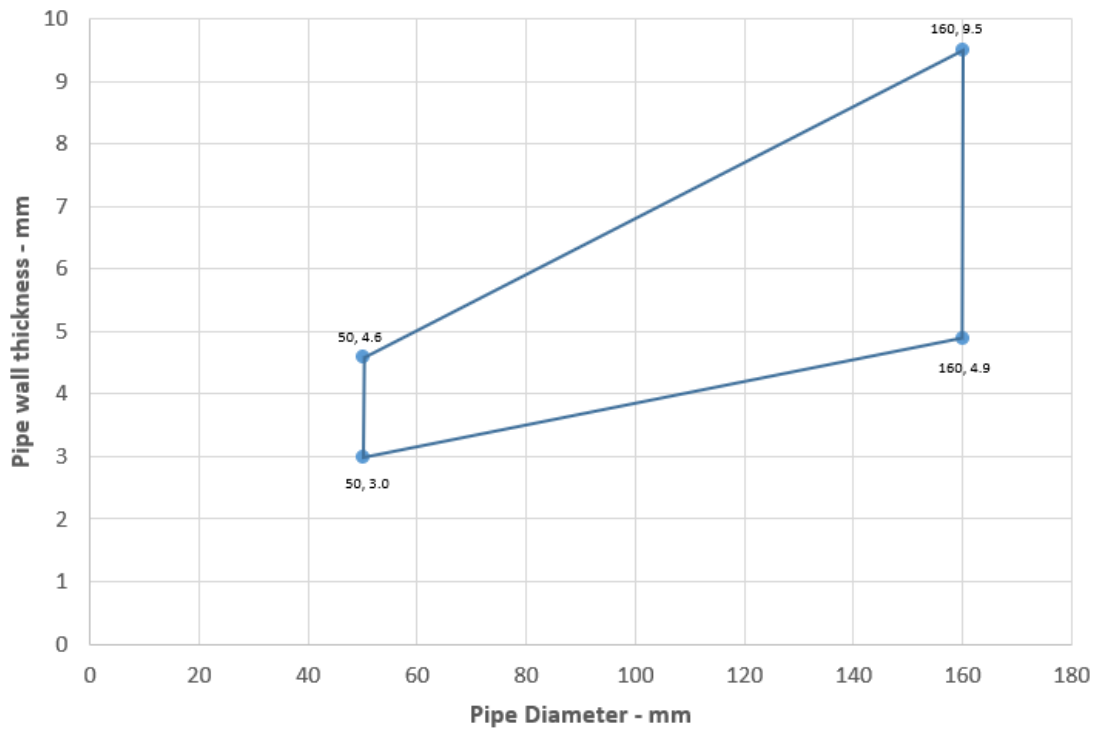


A.2.3.1.1

Services	Insulation	Collar	Classification
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			
Maximum diameter 160 mm, wall thickness 3.0-9.5 mm*	9-50 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height, 250-315 mm at 75 mm height	EI 90 C/C
Diameter 160 mm, wall thickness 4.9-9.5 mm			EI 120 C/C
PP pipe according to EN 1451-1			
Maximum diameter 160 mm, wall thickness 1.8-14.6 mm*	9-50 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height, 250-315 mm at 75 mm height	EI 90 C/C
Diameter 160 mm, wall thickness 4.9-14.6 mm			EI 120 C/C

* Typical pipe diameters shown, see below graphs for intermediate sizes

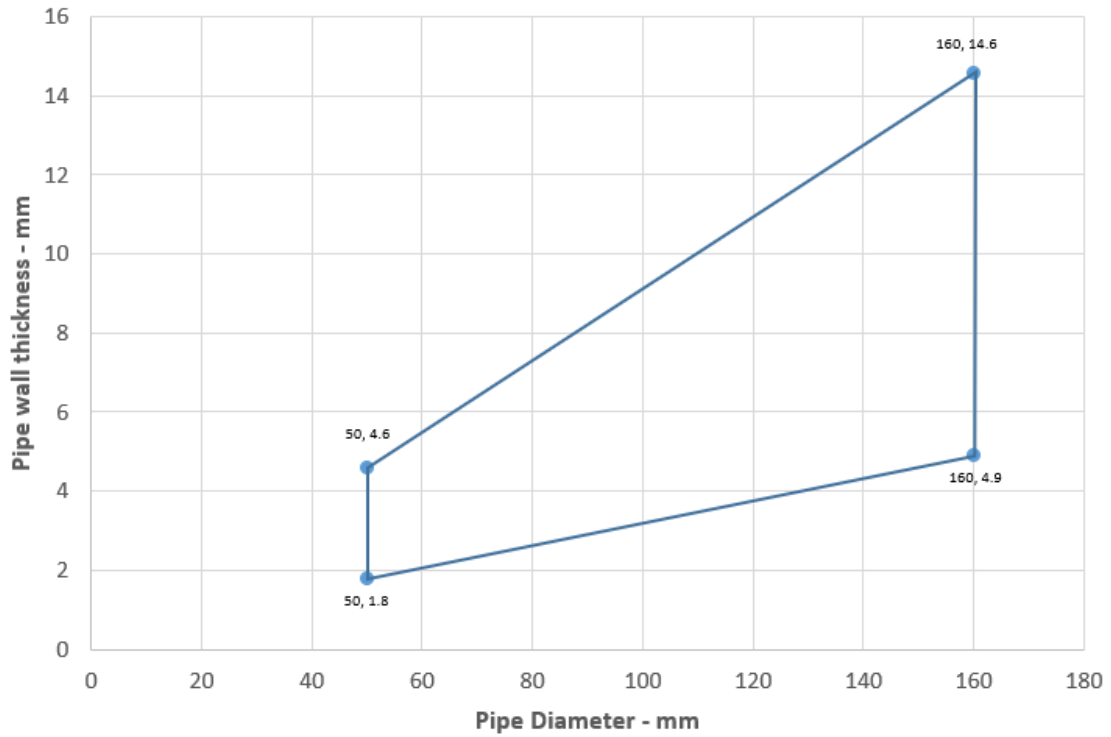
PE Pipes 50-160 with Elastomeric Insulation - C/C



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PP Pipes 50-160 with Elastomeric Insulation - C/C



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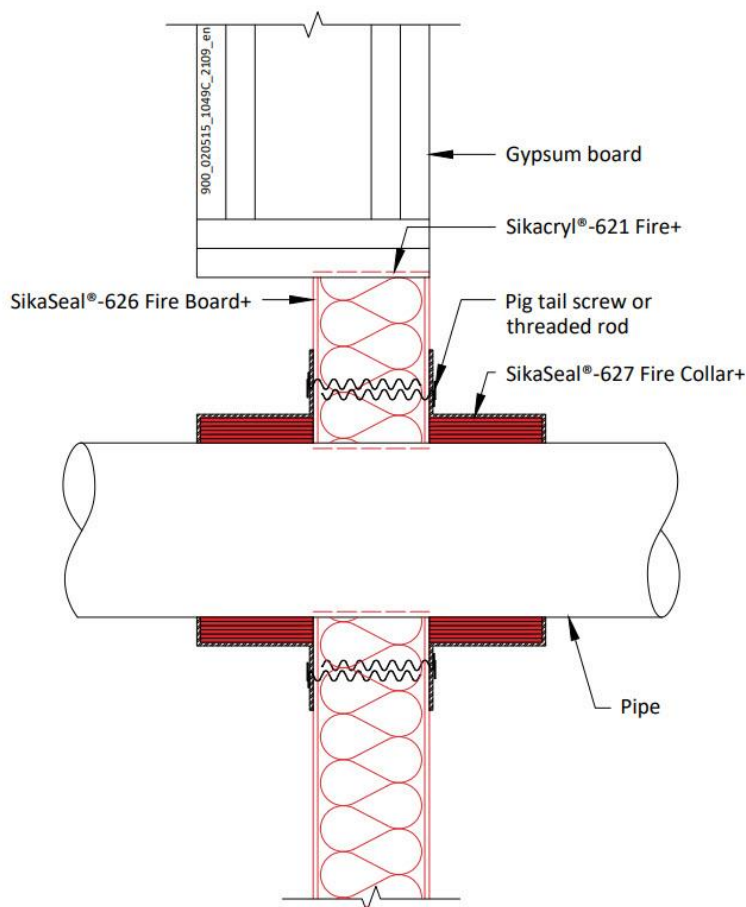
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A.2.4 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the FR Board. Minimum separation between penetration seals and seal edges of 50 mm (Configuration 1 & 2). Maximum seal size 1200 mm wide x 600 mm high.

Construction details:



A.2.4.1

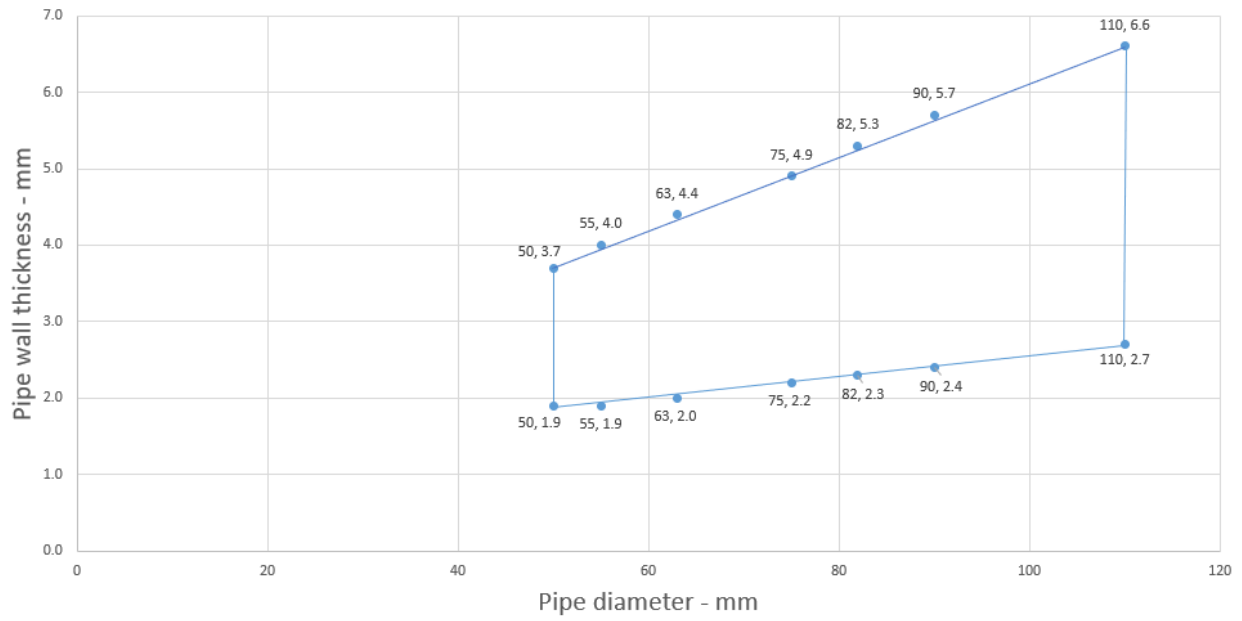
Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
32-50 mm diameter / 1.9-3.7 mm wall thickness	50 x 3.0 mm	E 120 U/C, EI 60 U/C
55 mm, / 1.9-4.0 mm wall thickness	50 x 3.2 mm	E 90 U/C, EI 60 U/C
63 mm, / 2.0-4.4 mm wall 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	

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PVC pipes 50-110 / 50 mm Collar - U/C



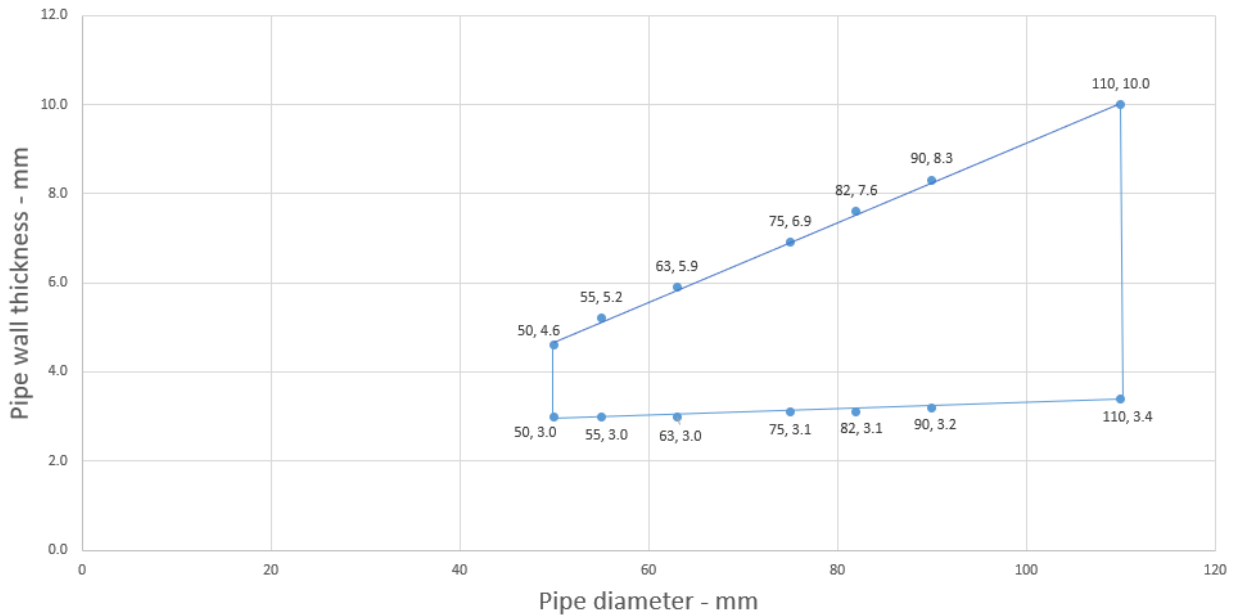
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A.2.4.2

Services	Collar Inlay	Classification
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	50 x 3.0 mm	E 120 U/C, EI 60 U/C
55 mm, / 3.0-5.2 mm wall thickness	50 x 3.2 mm	E 90 C/C, EI 60 C/C
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	

PE pipes 50-110 / 50 mm Collar - C/C



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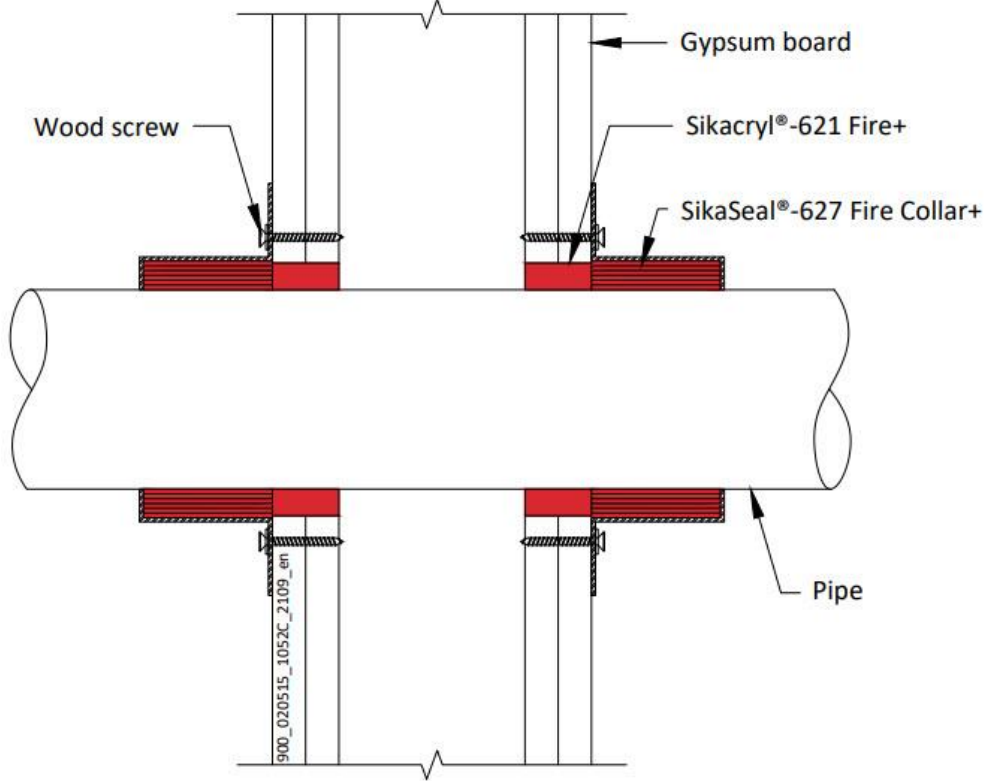
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A.3 Flexible or rigid wall constructions with wall thickness of minimum 120 mm

A.3.1 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.

Construction details:



A.3.1.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 32-50 mm, wall thickness 2.4-3.7 mm*	50 x 3.0 mm	EI 120 C/C
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	

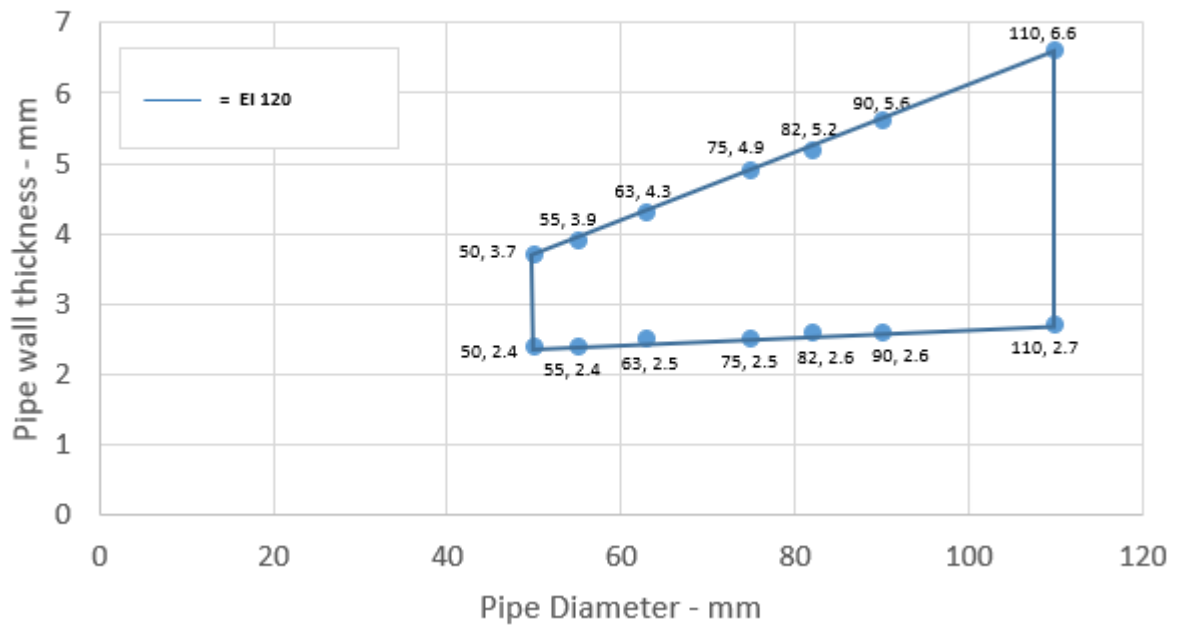
* Typical pipe diameters shown, see below graph for intermediate sizes

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PVC Pipes 50-110 / 50 mm Collar -C/C



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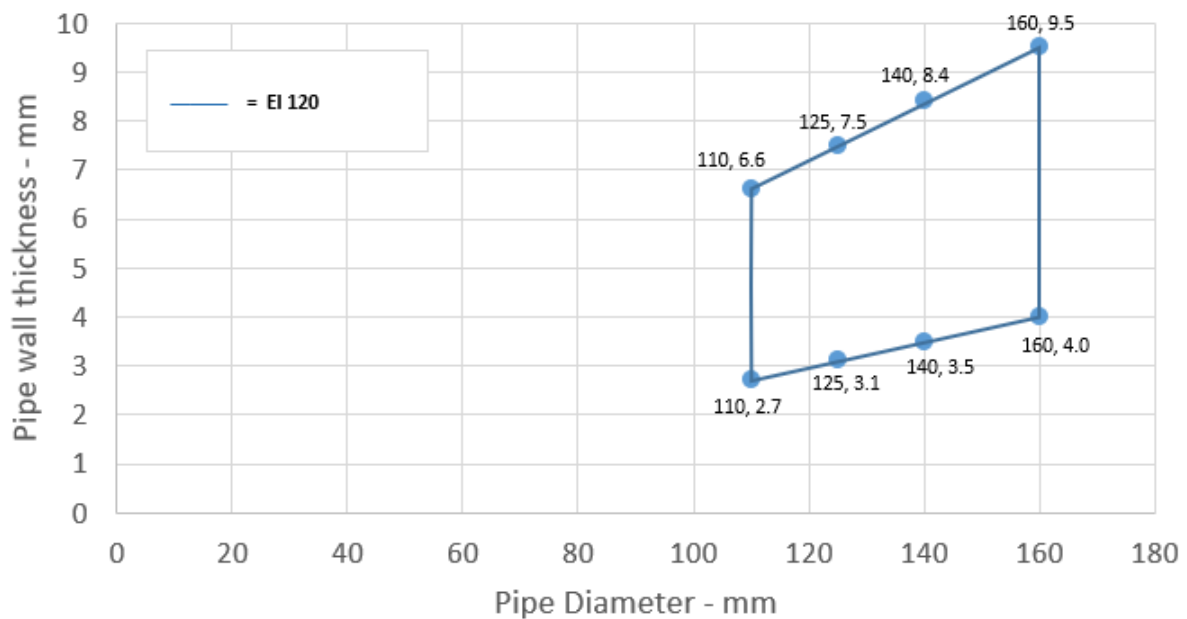
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A.3.1.1.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	EI 120 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar - C/C



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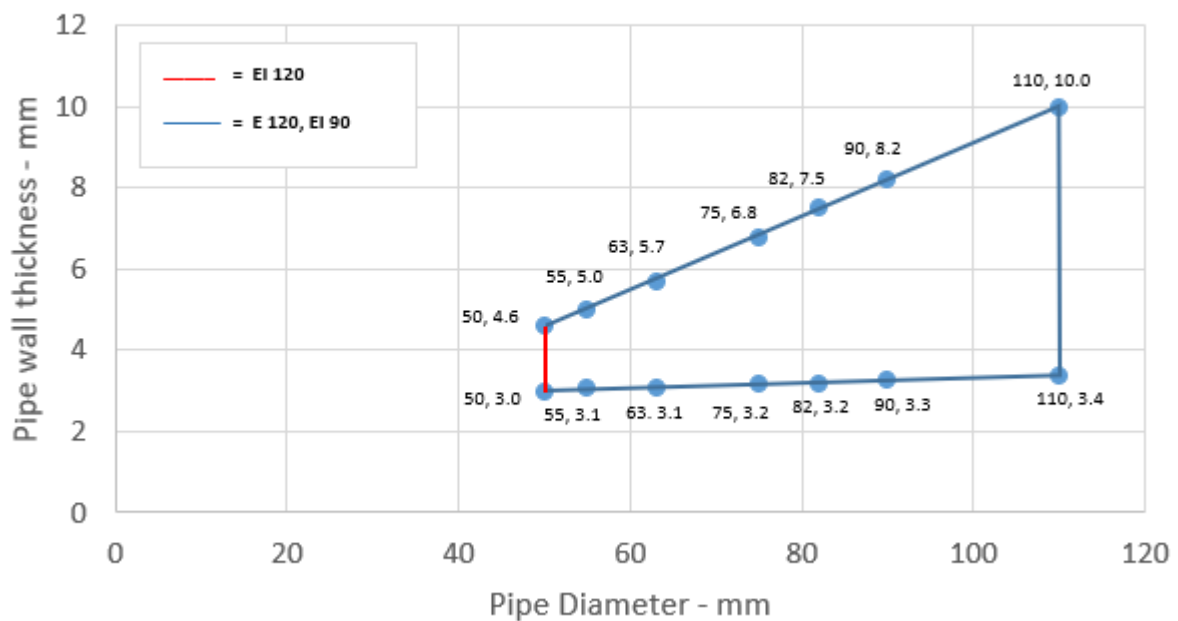
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A.3.1.2

Services	Collar Inlay	Classification
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 32-50 mm, wall thickness 3.0-4.6 mm*	50 x 3.0 mm	EI 120 C/C
Diameter 55 mm, wall thickness 3.1-5.0 mm*	50 x 3.2 mm	E 120 C/C, EI 90 C/C
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	EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 50 mm Collar - C/C



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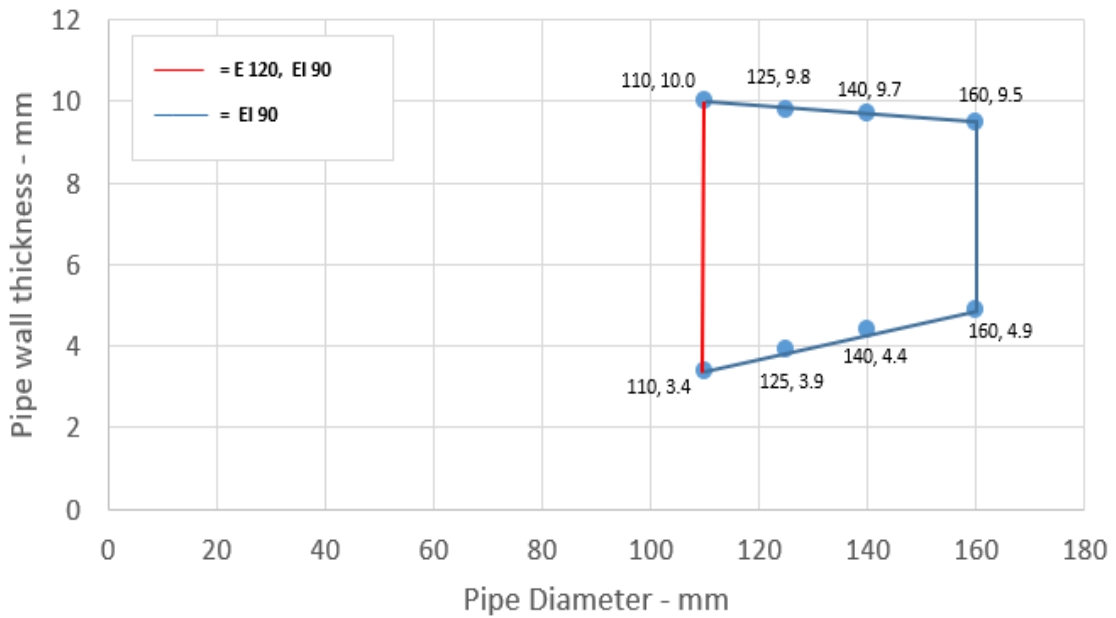
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A.3.1.2.1

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4-10.0 mm*	50 x 6.0 mm	E 120 C/C, EI 90 C/C
Diameter 125 mm, wall thickness 3.9-9.8 mm*	60 x 8.8 mm	EI 90 C/C
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	EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 125-160 / 60 mm Collar - C/C



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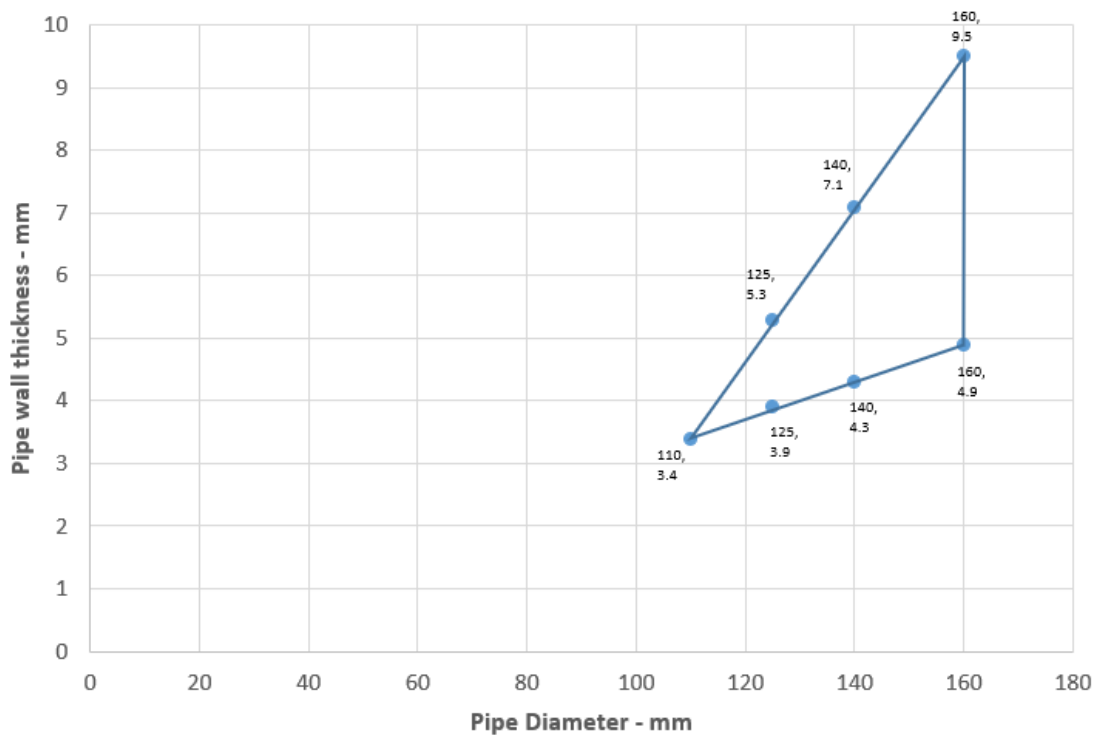


A.3.1.2.2

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4 mm*	50 x 6.0 mm	EI 120 C/C
Diameter 125 mm, wall thickness 3.9-5.3 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 4.3-7.1 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 110-200 / 60 mm Collar



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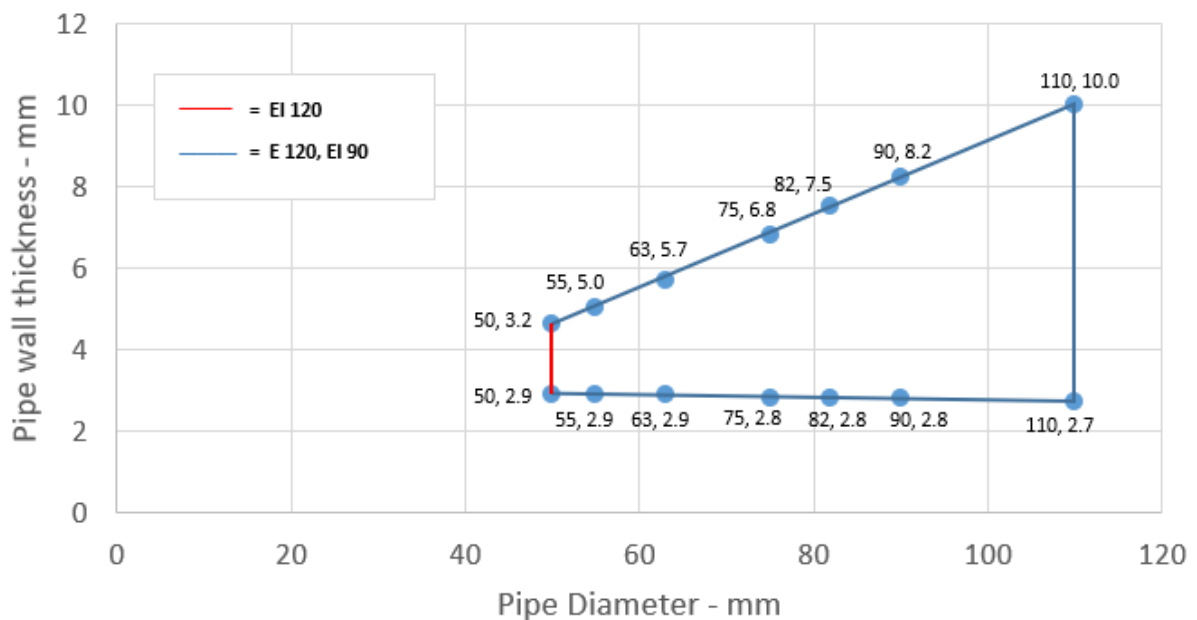
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A.3.1.3

Services	Collar Inlay	Classification
PP pipe according to DIN 8077/8078		
Diameter 32-50 mm, wall thickness 2.9-4.6 mm	50 x 3.0 mm	EI 120 C/C
Diameter 55 mm, wall thickness 2.9-5.0 mm*	50 x 3.2 mm	E 120 C/C, EI 90 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 50-110 / 50 mm Collar - C/C



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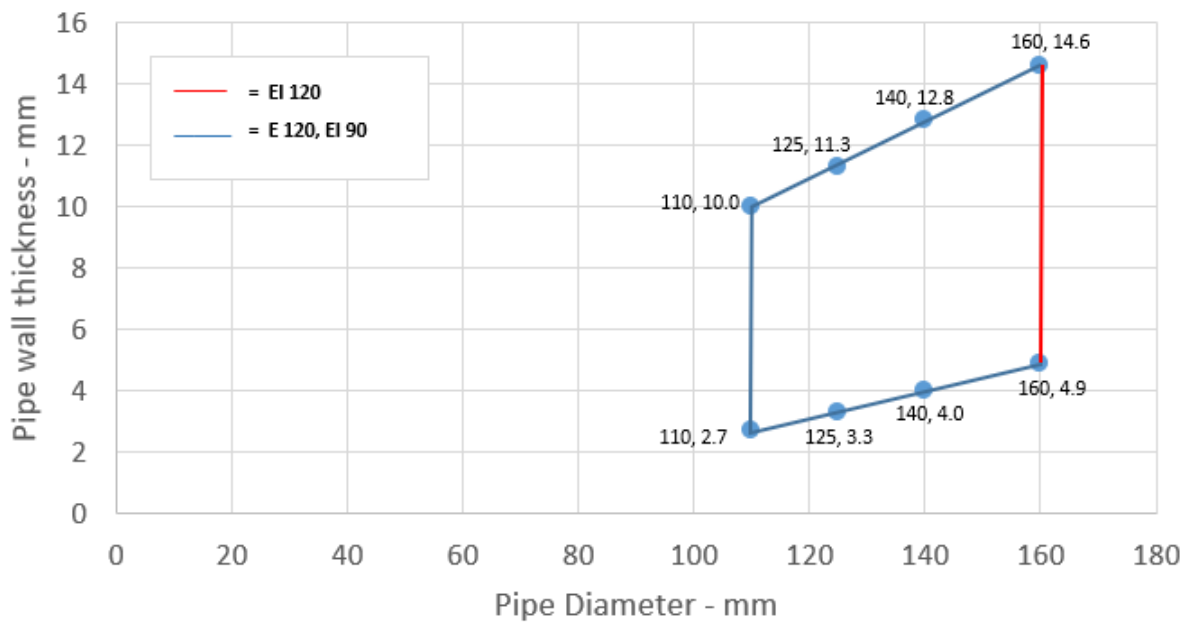
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A.3.1.3.1

Services	Collar Inlay	Classification
PP pipe according to DIN 8077/8078		
Diameter 110 mm, wall thickness 2.7-10 mm*	50 x 6.0 mm	E 120 C/C, EI 90 C/C
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	EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm collar - C/C

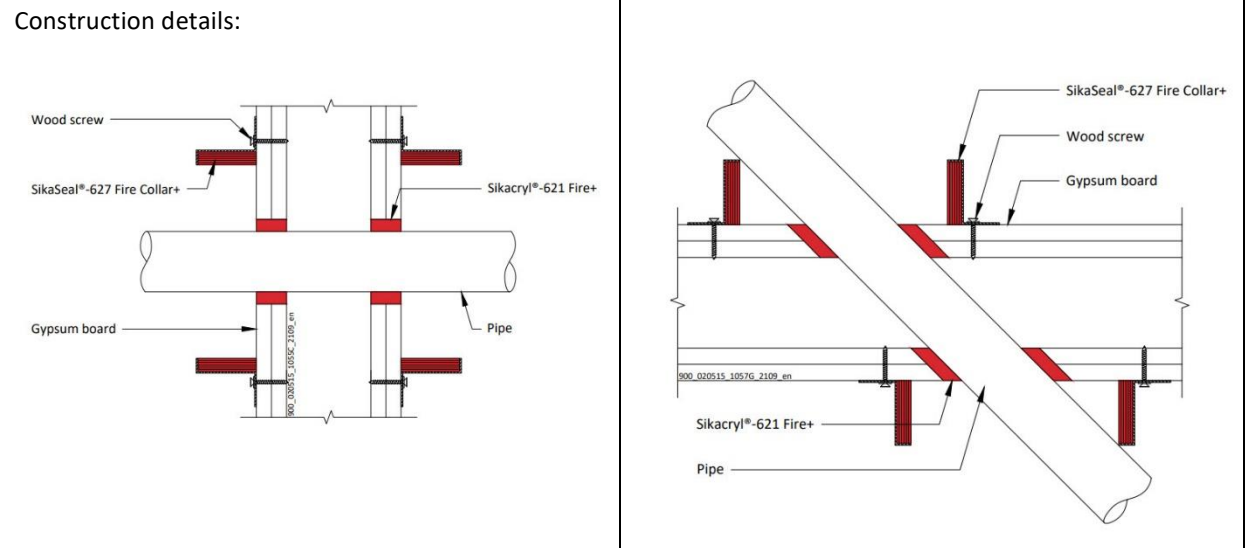


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A.3.4 Penetration seals, in drywalls and concrete/masonry walls

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to both sides of the wall.



A.3.4.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 50 mm, wall thickness 2.4 mm #	60 x 15.0 mm	EI 90 C/C

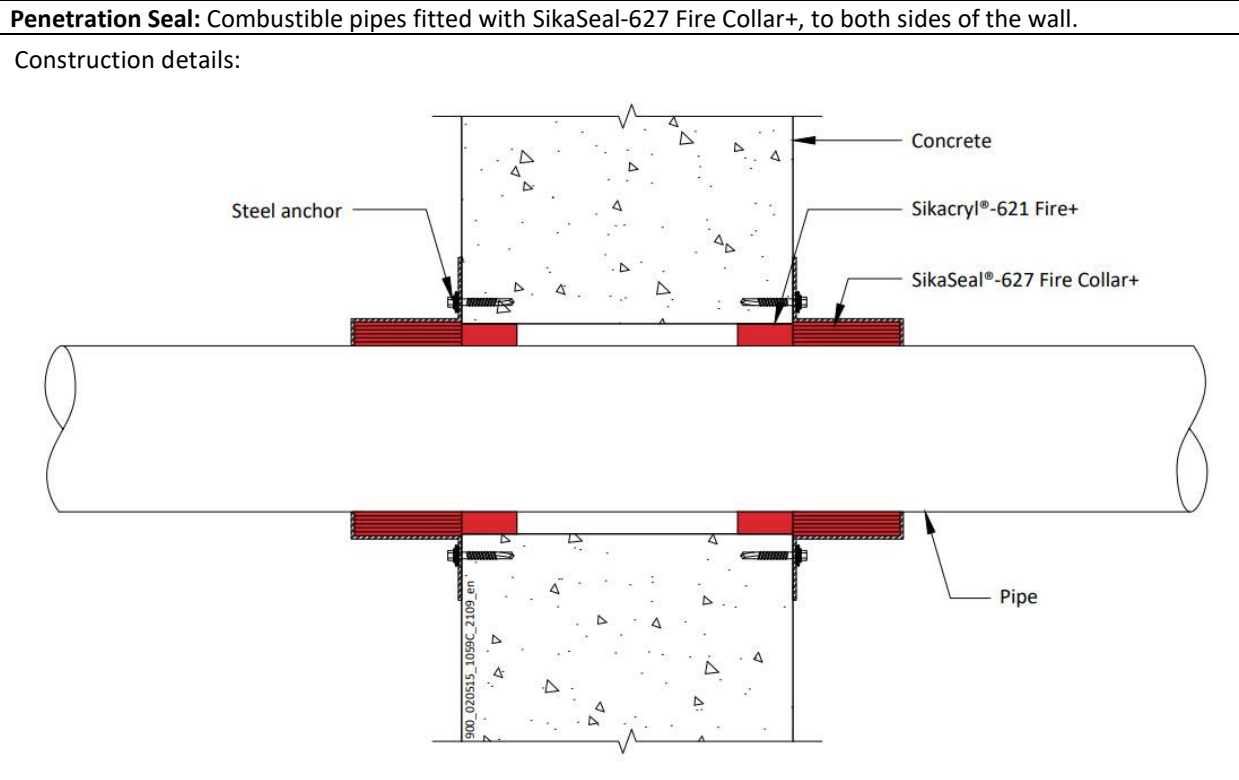
#Pipe fitted at 45° to the face of the partition in a horizontal plane

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A.4 Rigid walls constructions with wall thickness of minimum 150 mm

A.4.1 Penetration seals, in concrete/masonry walls

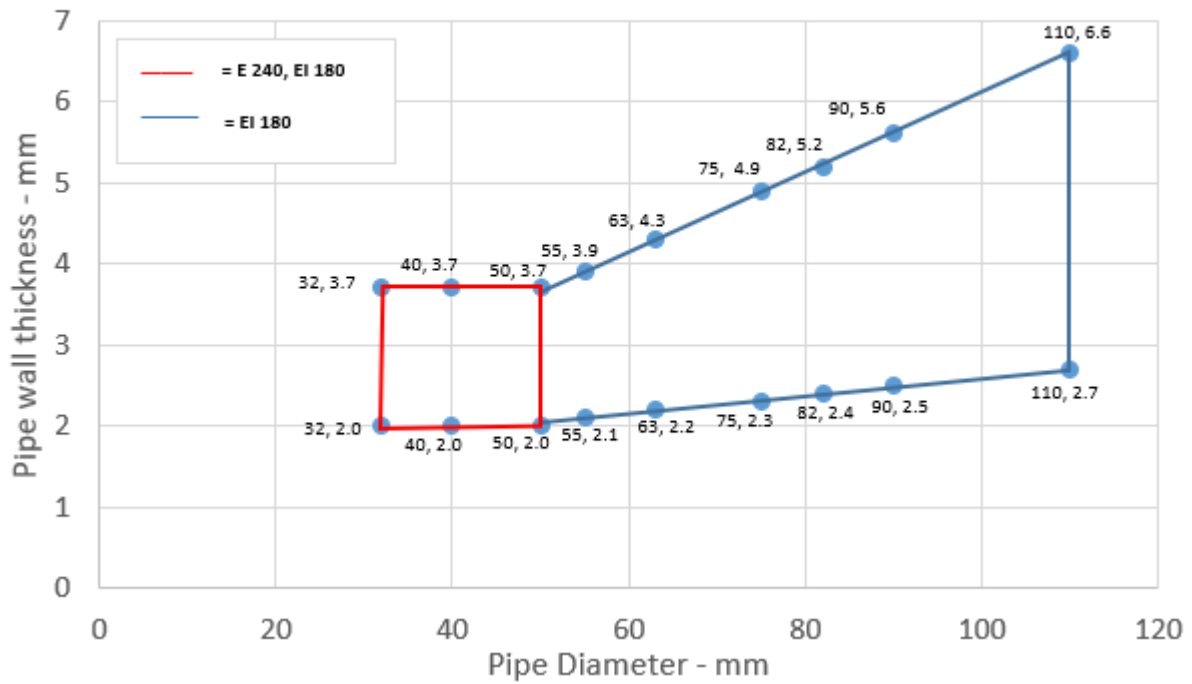


A.4.1.1

Services	Collar Inlay	Classification
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*		E 240 U/U, E 240 C/U, E 240 U/C, E 240 C/C EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 40 mm, wall thickness 2.0-3.7 mm*	50 x 3.0 mm	
Diameter 50 mm, wall thickness 2.0-3.7 mm*		
Diameter 55 mm, wall thickness 2.1-3.9 mm*	50 x 3.2 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 63 mm, wall thickness 2.2-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.3-4.9 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.4-5.2 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.5-5.6 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 32-110 / 50 mm Collar - U/U



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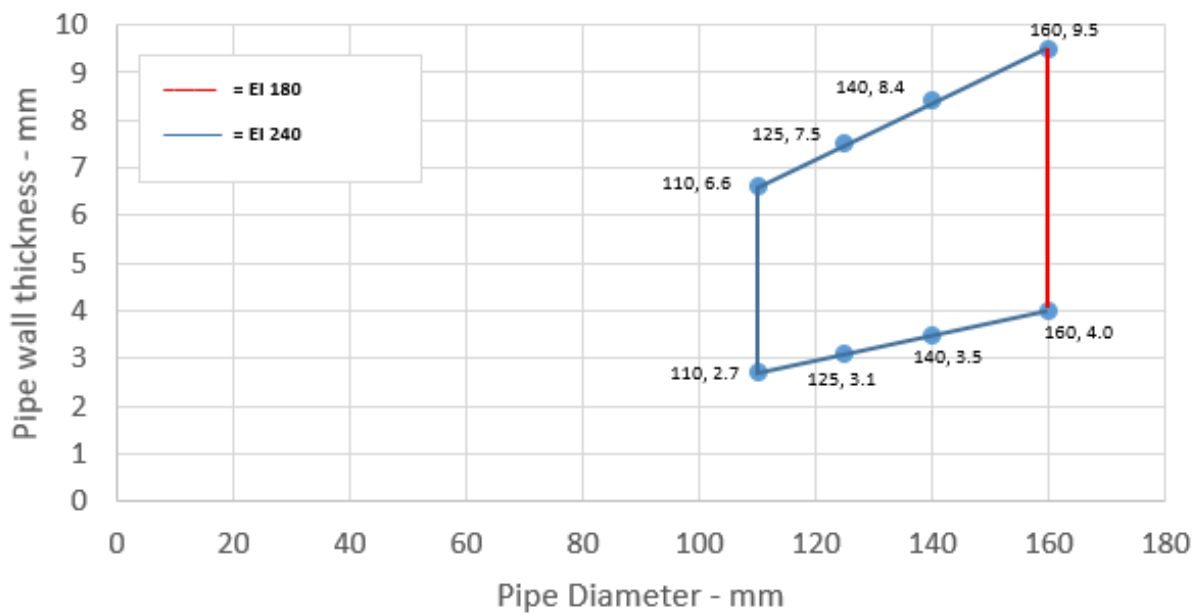
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A.4.1.1.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 125 mm, wall thickness 3.1-7.5 mm*	60 x 8.8 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
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 315 mm, wall thickness 9.2 mm	75 x 18 mm	EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar - U/U



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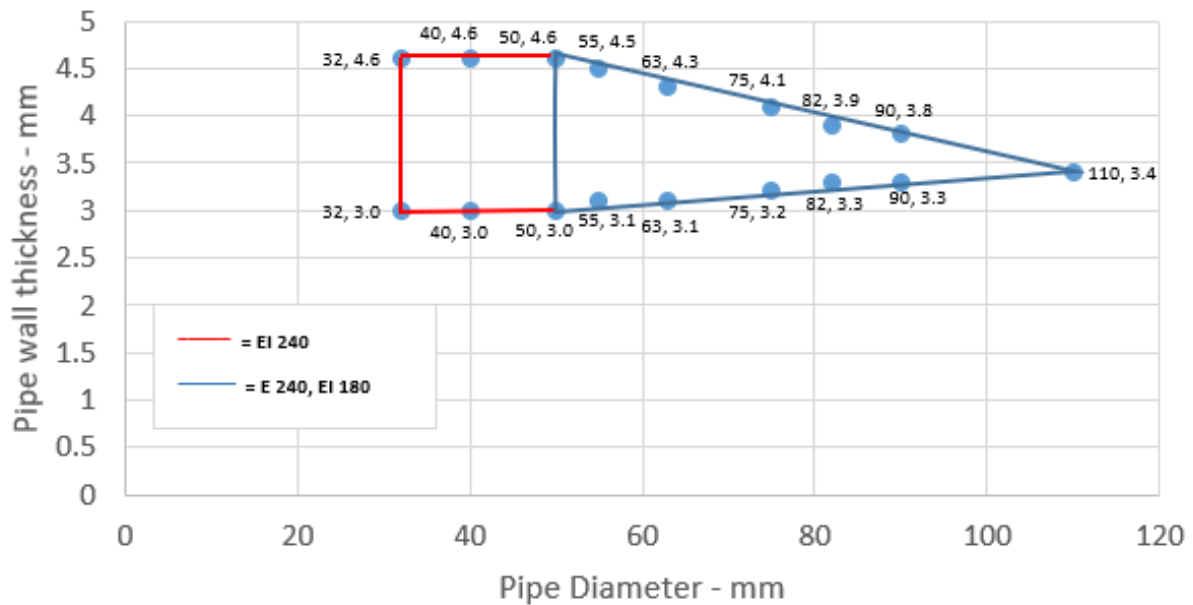
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A.4.1.2

Services	Collar Inlay	Classification
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*	50 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
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*	50 x 3.2 mm	E 240 U/U, E 240 C/U, E 240 U/C, E 240 C/C EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 63 mm, wall thickness 3.1-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 3.2-4.1 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 3.3-3.9 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-3.8 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 32-110 / 50 mm Collar-U/U



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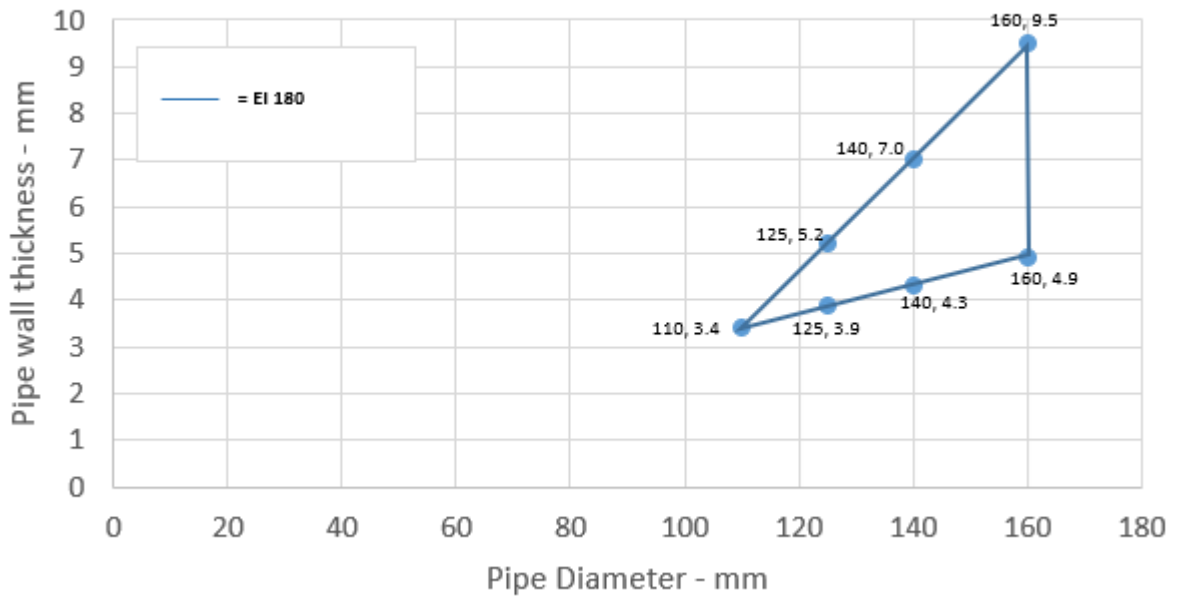
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A.4.1.2.1

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4 mm*	50 x 6.0 mm	E 240 U/U, E 240 C/U, E 240 U/C, E 240 C/C EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 125 mm, wall thickness 3.9-5.2 mm*	60 x 9.0 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 140 mm, wall thickness 4.3-7.0 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	EI 60 C/C
Diameter 250 mm, wall thickness 22.7 mm	75 x 12.6 mm	E 120 C/C EI 90 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 125-160 / 60 mm Pipes - U/U



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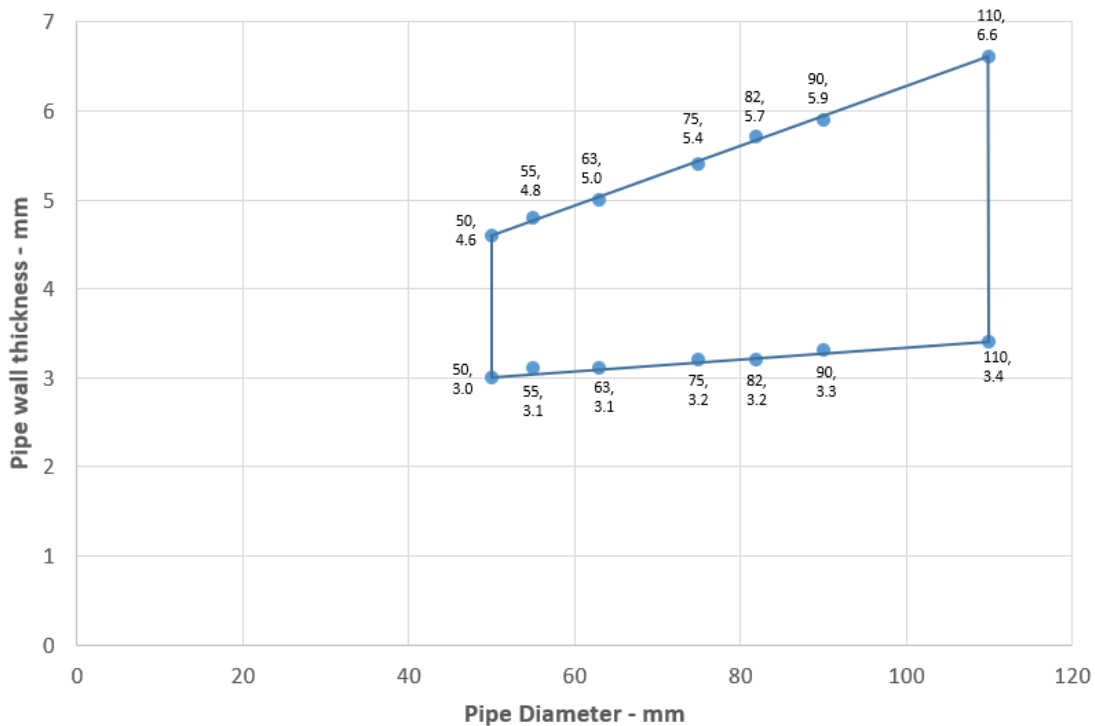
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A.4.1.2.2

Services	Collar Inlay	Classification
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 50 mm, wall thickness 3.0-4.6 mm*	50 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 55 mm, wall thickness 3.1-4.8 mm*	50 x 3.2 mm	E 180 U/C, E 180 C/C EI 120 U/C, EI 120 C/C
Diameter 63 mm, wall thickness 3.1-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 3.2-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 3.2-5.7 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-6.6 mm*	50 x 6.0 mm	
Diameter 125 mm, wall thickness 3.8-7.5 mm*	60 x 9.0 mm	
Diameter 140 mm, wall thickness 4.3-8.3 mm*	60 x 11.5 mm	EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C
Diameter 160 mm, wall thickness 4.9-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

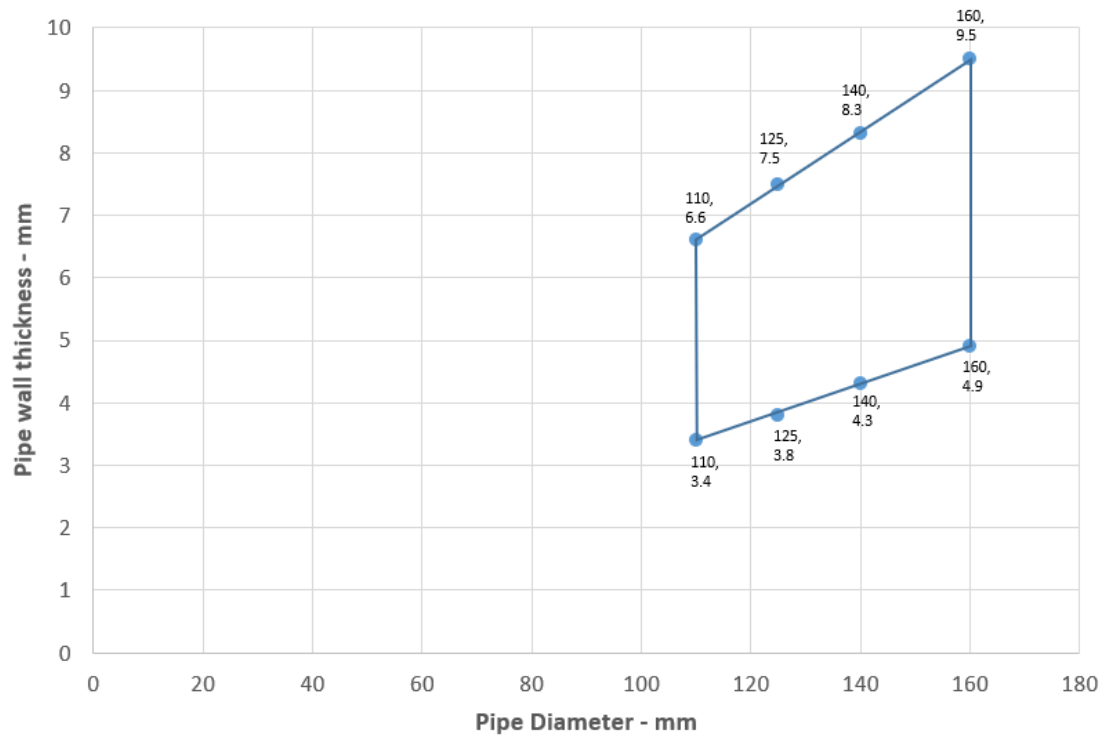
PE Pipes 50-110 / 50 mm Collar



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PE Pipes 125-160 / 60 mm Collar



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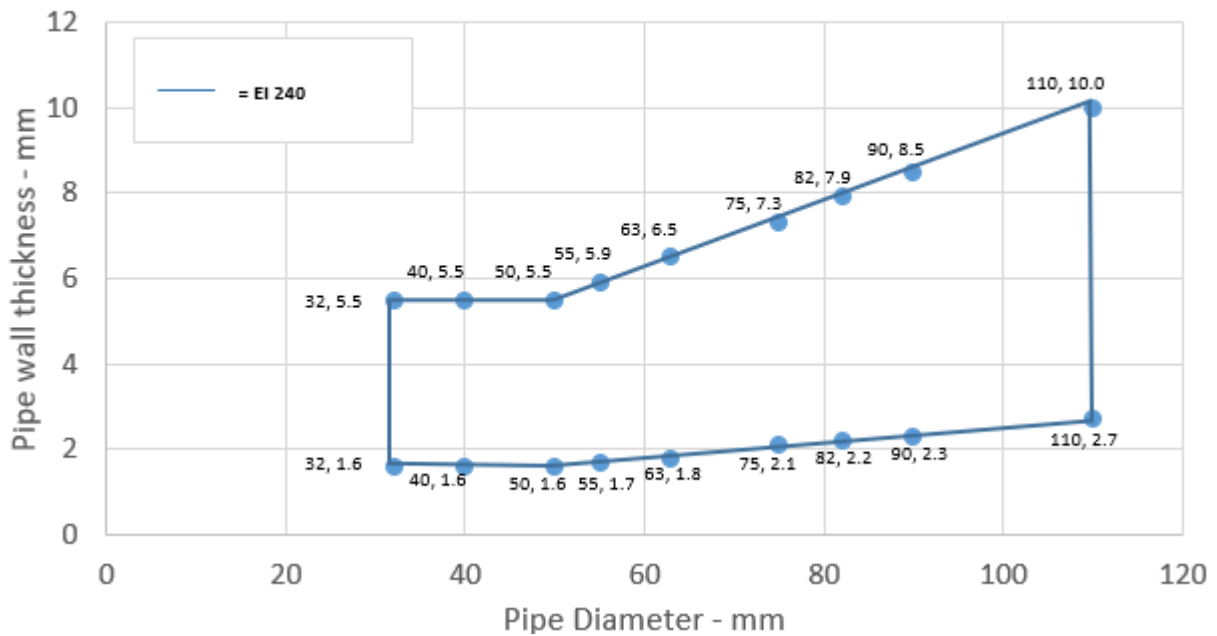


A.4.1.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 1.6-5.5 mm*	30 x 3.0 mm	EI 240 U/C, EI 240 C/C
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*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 1.8-6.5 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.1-7.3 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.2-7.9 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.3-8.5 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-10.0 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 32-110 / 50 mm Collar - U/C



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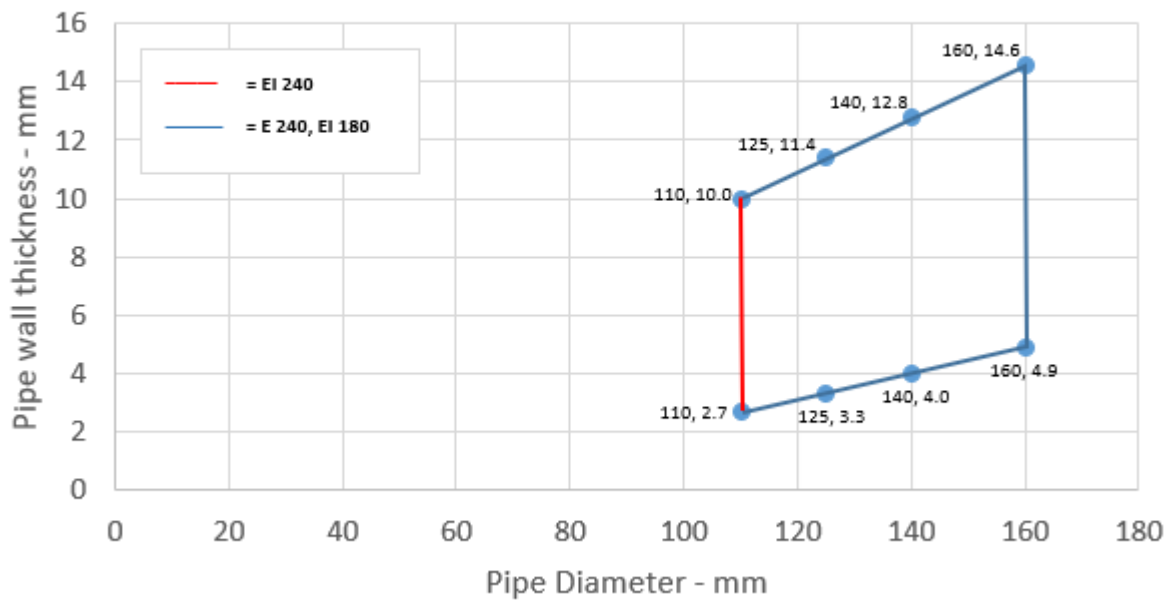
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A.4.1.3.1

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 2.7-10.0 mm*	50 x 6.0 mm	EI 240 U/C, EI 240 C/C
Diameter 125 mm, wall thickness 3.3-11.4 mm*	60 x 9.0 mm	E 240 U/C, E 240 C/C EI 180 U/C, EI 180 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm Collar - U/C



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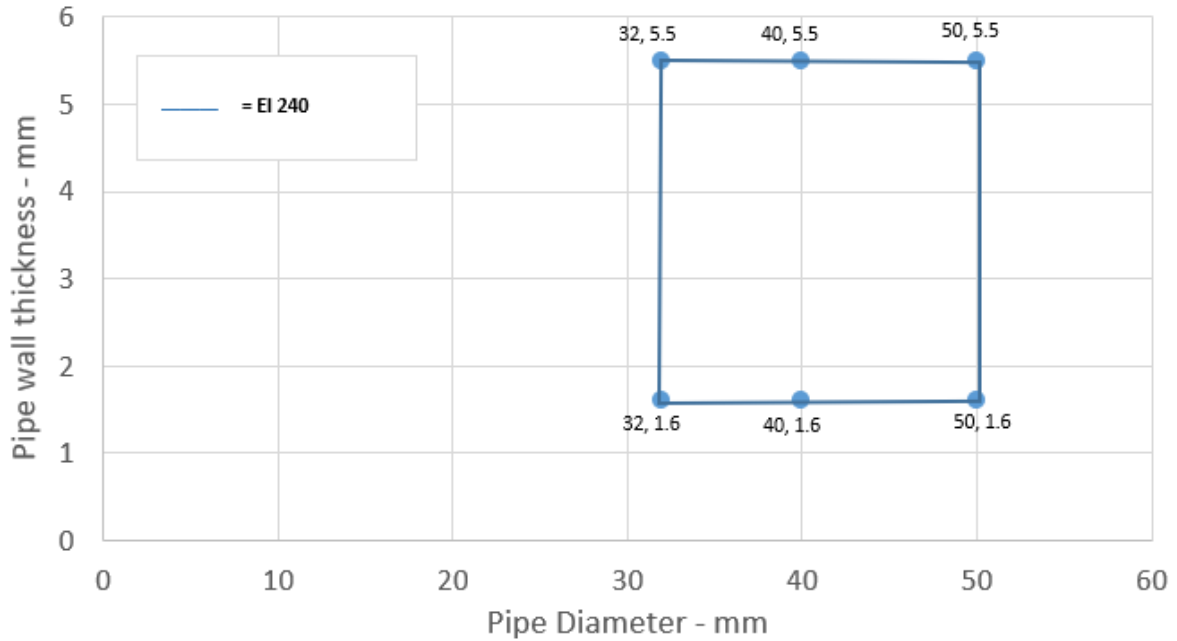
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A.4.1.3.2

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1	30 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 32 mm, wall thickness 1.6-5.5 mm*		
Diameter 40 mm, wall thickness 1.6-5.5 mm*		
Diameter 50 mm, wall thickness 1.6-5.5 mm*		

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 32-50 / 30 mm Collar - U/U



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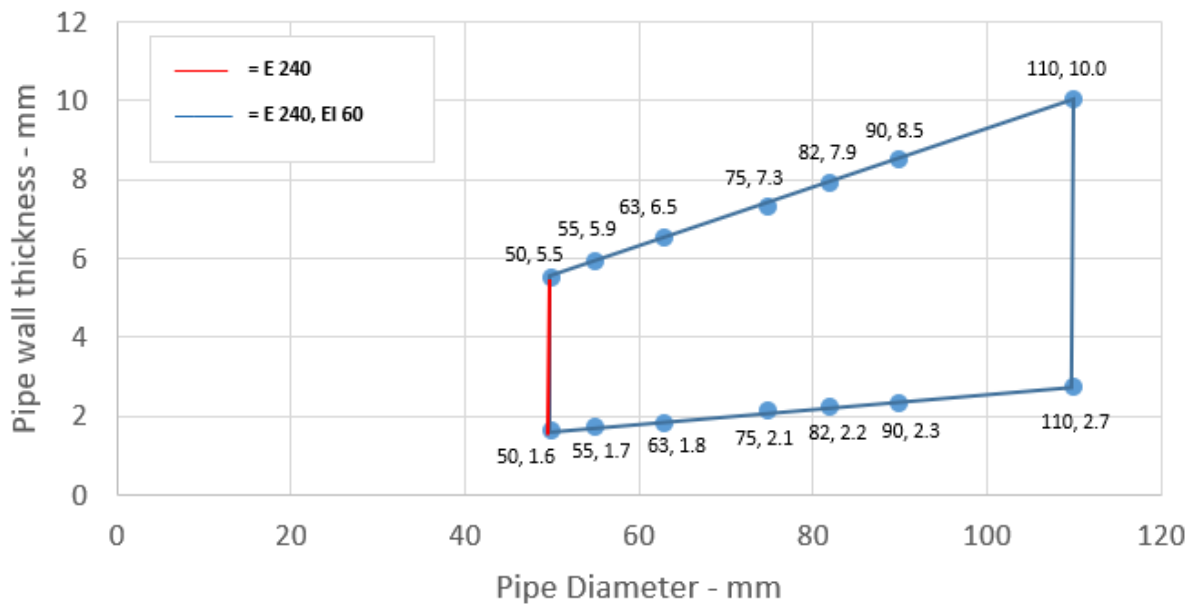
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A.4.1.3.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.6-5.5 mm*	50 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 55 mm, wall thickness 1.7-5.9 mm*	50 x 3.2 mm	E 240 U/U, E 240 C/U, EI 60 U/U, EI 60 C/U
Diameter 63 mm, wall thickness 1.8-6.5 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.1-7.3 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.2-7.9 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.3-8.5 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-10.0 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 55-110 / 50 mm Collar - U/U



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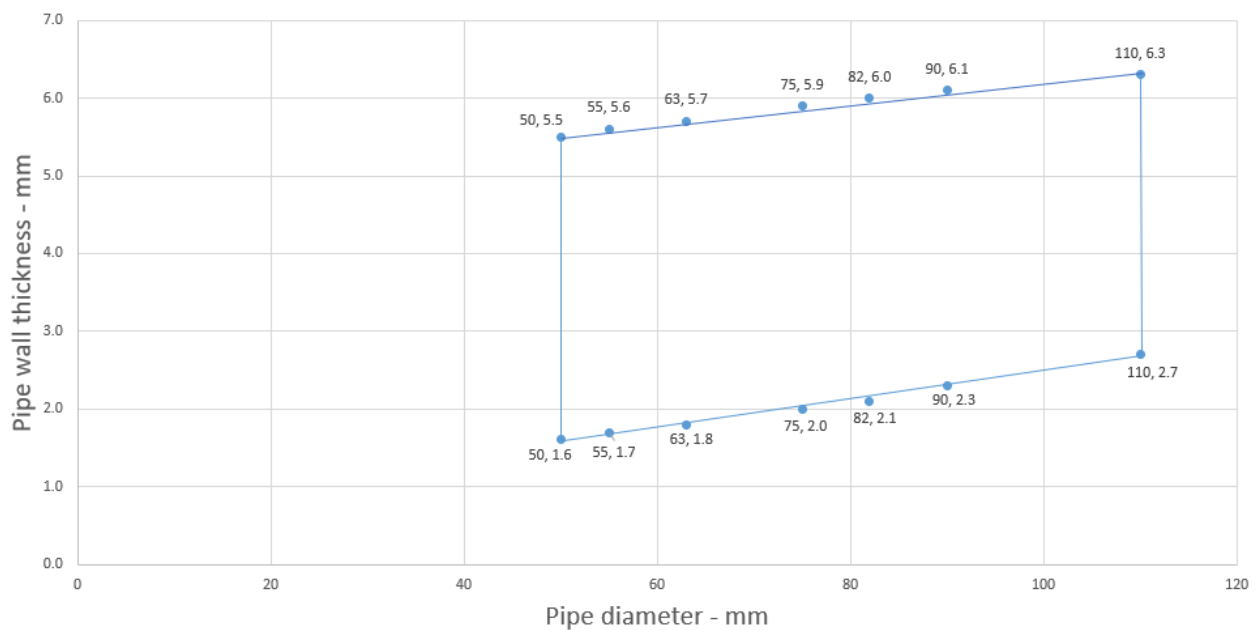
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A.4.1.3.4

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.6-5.5 mm*	50 x 3.0 mm	EI 240 U/U, EI 240 C/U, EI 240 U/C, EI 240 C/C
Diameter 55 mm, wall thickness 1.7-5.6 mm*	50 x 3.2 mm	E 240 U/U, EI 90 U/U
Diameter 63 mm, wall thickness 1.8-5.7 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.0-5.9 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.1-6.0 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.3-6.1 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.3 mm	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP pipes 50-110 / 50 mm Collar - U/U



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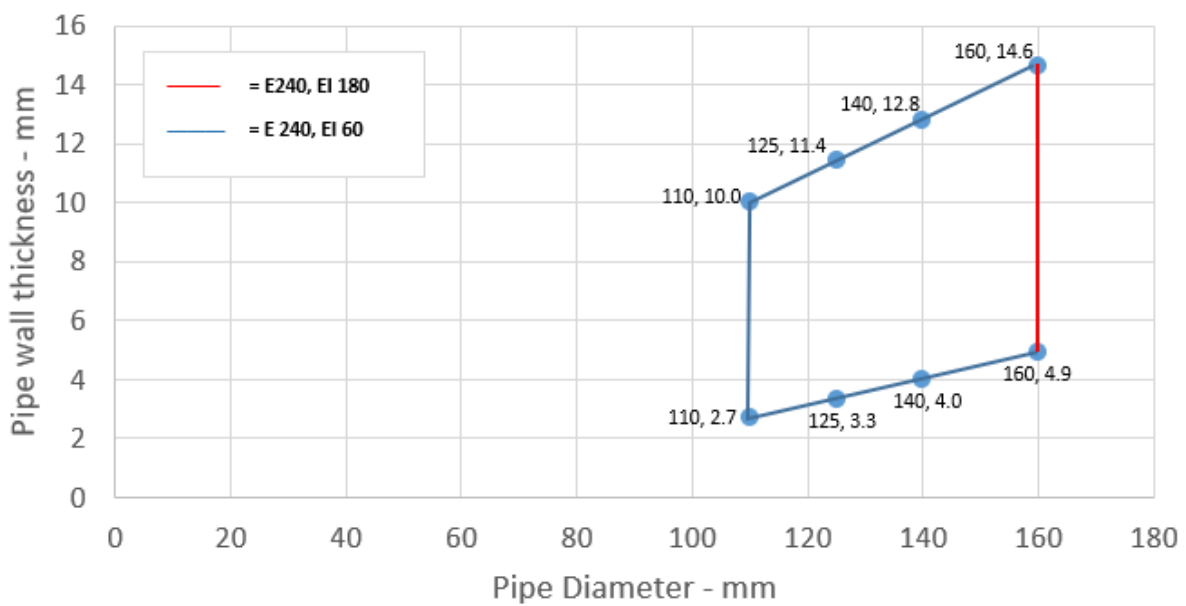
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A.4.1.3.5

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 2.7-10.0 mm*	60 x 6.0 mm	E 240 U/U, E 240 C/U, EI 60 U/U, EI 60 C/U
Diameter 125 mm, wall thickness 3.3-11.4 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	E 240 U/U, E 240 C/U, E 240 U/C, E 240 C/C EI 180 U/U, EI 180 C/U, EI 180 U/C, EI 180 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm Collar - U/U



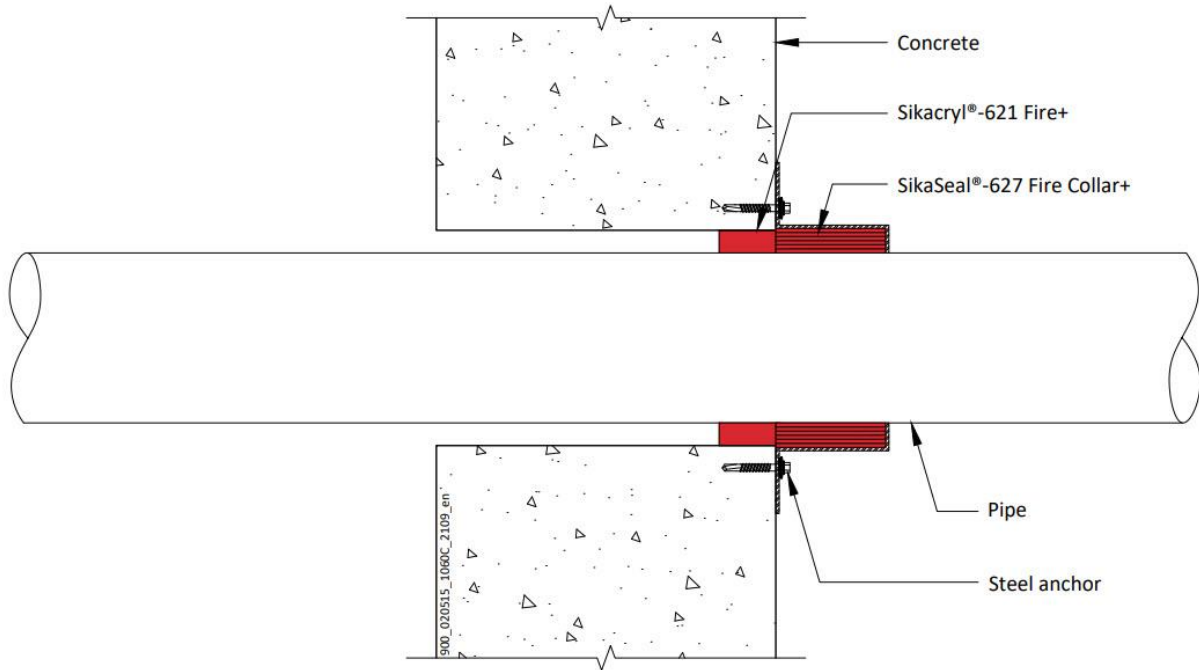
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A.4.2 Penetration seals, in concrete/masonry walls

Penetration Seal: Combustible pipes fitted with single SikaSeal-627 Fire Collar+, to either side of the wall.

Construction details:



A.4.2.1

Services	Collar Inlay	Classification
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 2.4-3.7 mm	50 x 3.0 mm	E 240 U/C, E 240 C/C EI 180 U/C, EI 180 C/C
Diameter 40 mm, wall thickness 2.4-3.7 mm		
Diameter 50 mm, wall thickness 2.4-3.7 mm*		
Diameter 55 mm, wall thickness 2.5-3.9 mm*	50 x 3.2 mm	E 180 U/C, E 180 C/C EI 120 U/C, EI 120 C/C
Diameter 63 mm, wall thickness 2.6-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.7-4.9 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.8-5.2 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.9-5.6 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.2-6.6 mm*	50 x 6.0 mm	EI 120 U/C, EI 120 C/C
Diameter 125 mm, wall thickness 3.4-7.5 mm*	60 x 8.8 mm	
Diameter 140 mm, wall thickness 3.7-8.3 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.0-9.5 mm*	60 x 15.0 mm	

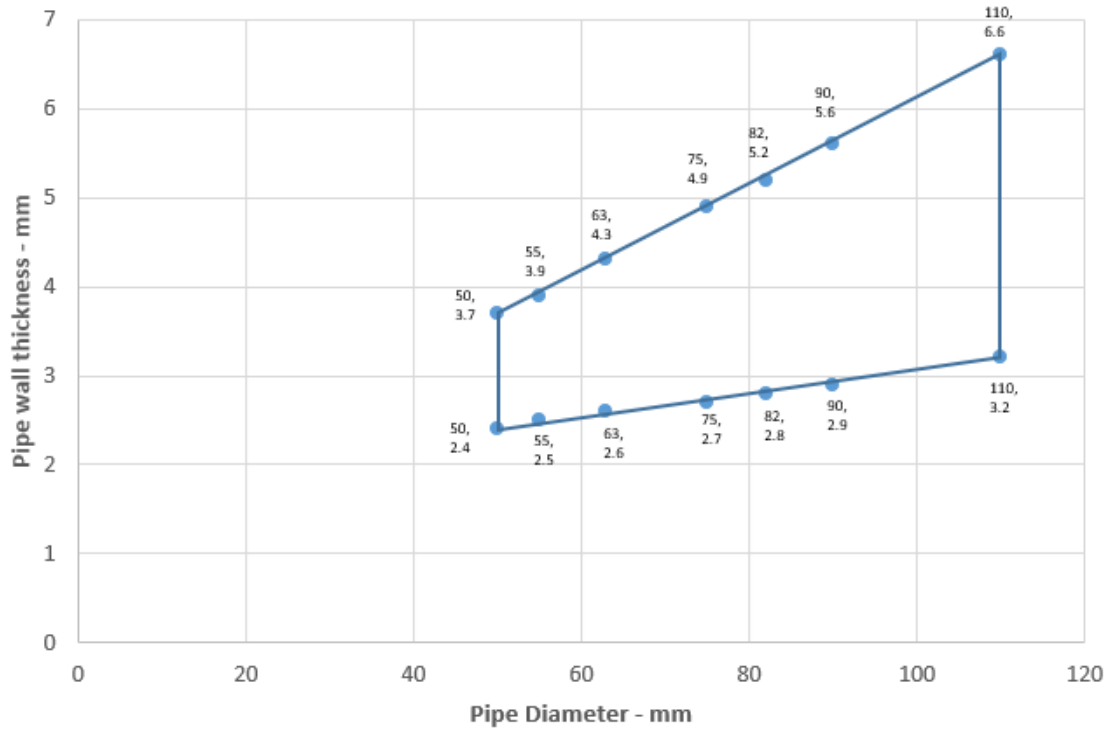
* Typical pipe diameters shown, see below graph for intermediate sizes

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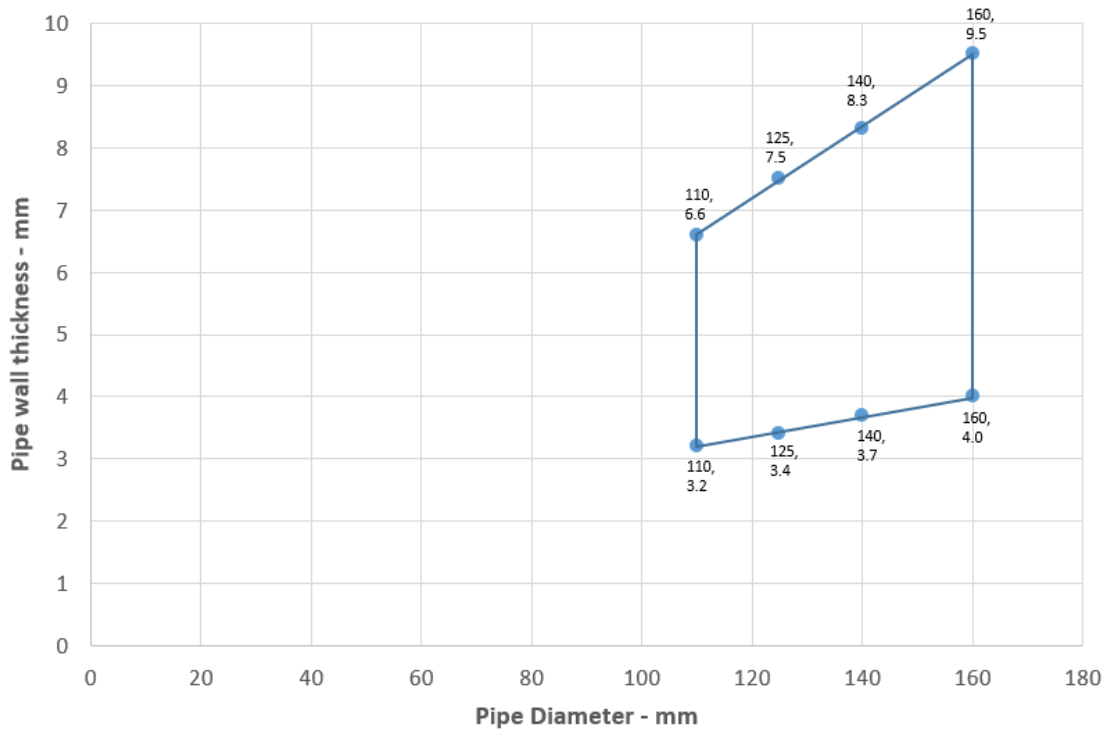
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PVC-U Pipes 50-110 / 50 mm Collar



PVC-U Pipes 125-160 / 60 mm Collar



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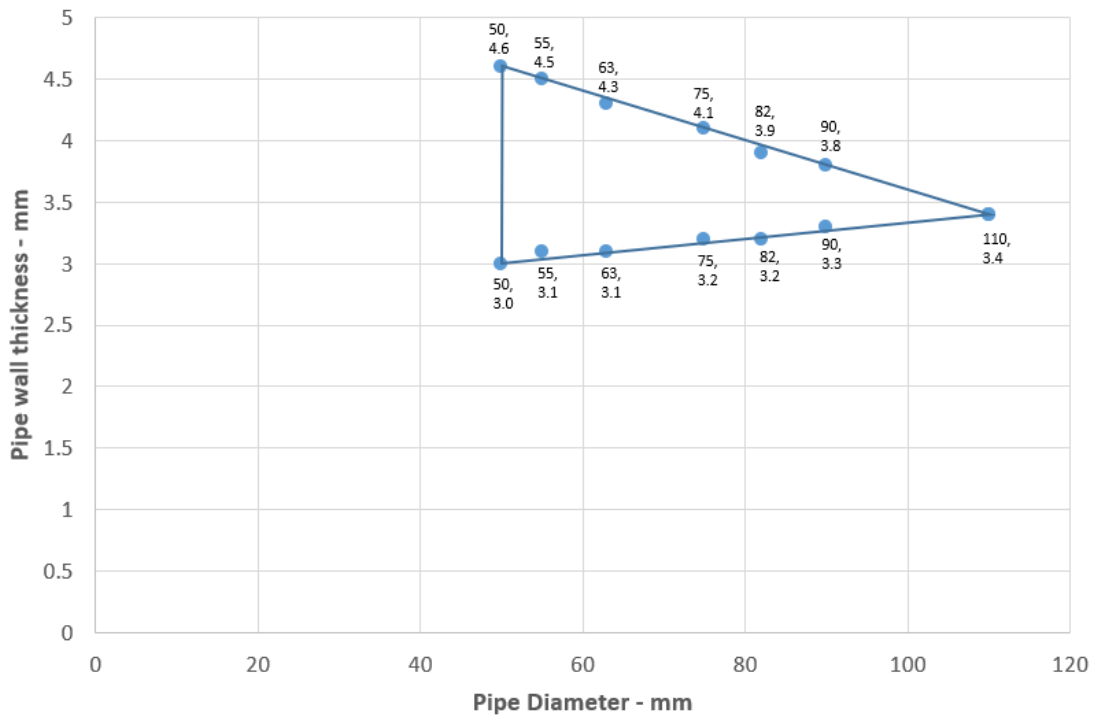
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A.4.2.2

Services	Collar Inlay	Classification
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	50 x 3.0 mm	E 180 U/C, E 180 C/C EI 120 U/C, EI 120 C/C
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*	50 x 3.2 mm	EI 90 U/C, EI 90 C/C
Diameter 63 mm, wall thickness 3.1-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 3.2-4.1 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 3.2-3.9 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 3.3-3.8 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 50 mm Collar



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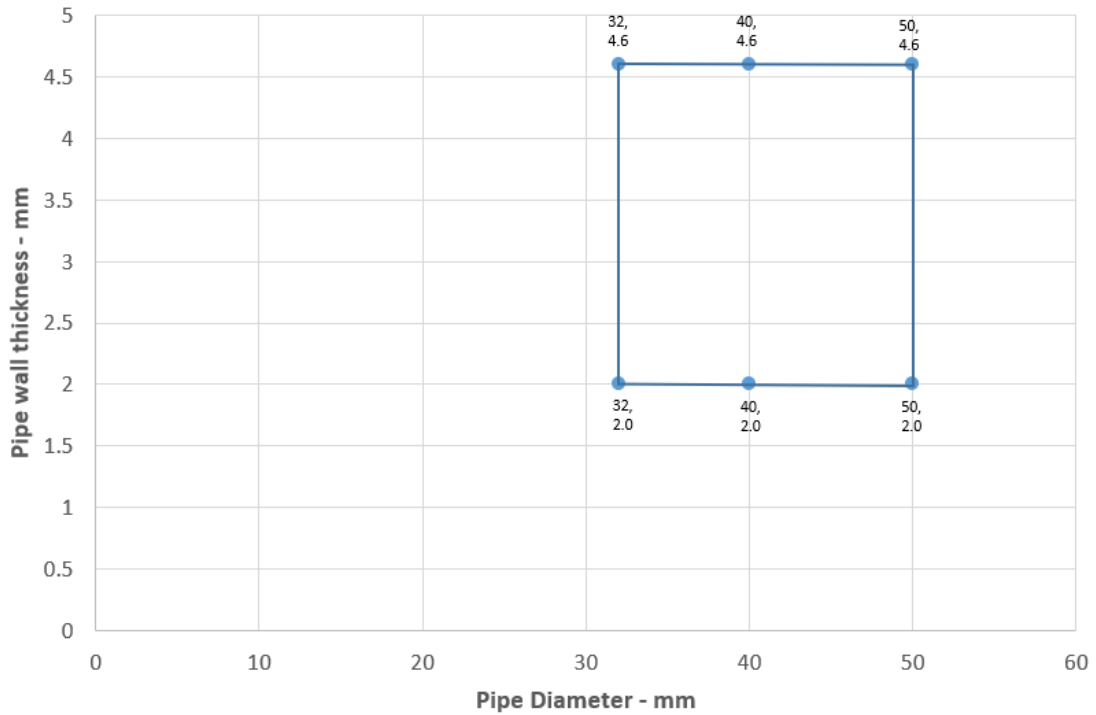
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A.4.2.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1	50 x 3.0 mm	EI 90 U/C, EI 90 C/C
Diameter 32 mm, wall thickness 2.0-4.6 mm		
Diameter 40 mm, wall thickness 2.0-4.6 mm		
Diameter 50 mm, wall thickness 2.0-4.6 mm		

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 32-50 / 50 mm Collar



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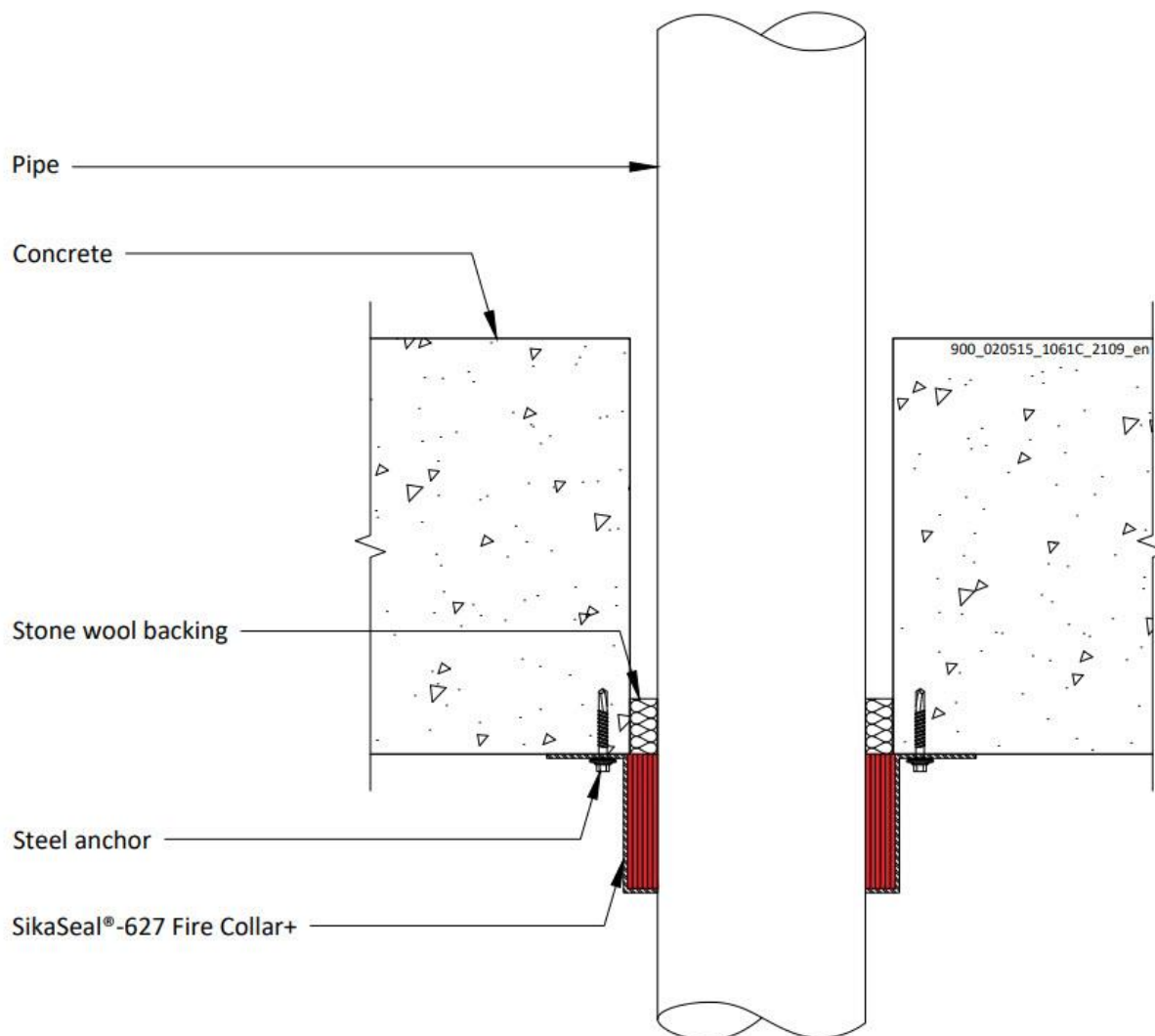
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A.5 Rigid floor constructions with floor thickness of minimum 150 mm

A.5.1 Penetration seals, surface mounted in concrete floors

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to the soffit of the floor.

Construction details:



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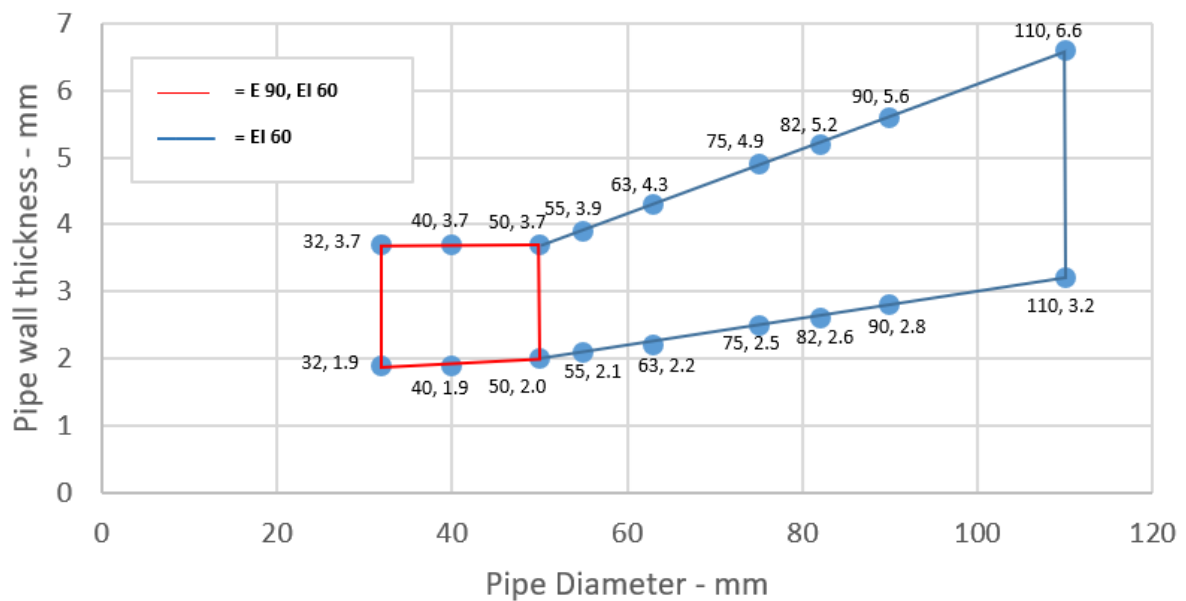
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A.5.1.1

Services	Collar Inlay	Classification
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*	30 x 3.0 mm	E 90 U/U, E 90 C/U, E 90 U/C, E 90 C/C EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
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*	30 x 3.2 mm	EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 63 mm, wall thickness 2.2-4.3 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.5-4.9 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 2.6-5.2 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 2.8-5.6 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.2-6.6 mm*	30 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 32-110 / 30 mm Collar - U/U



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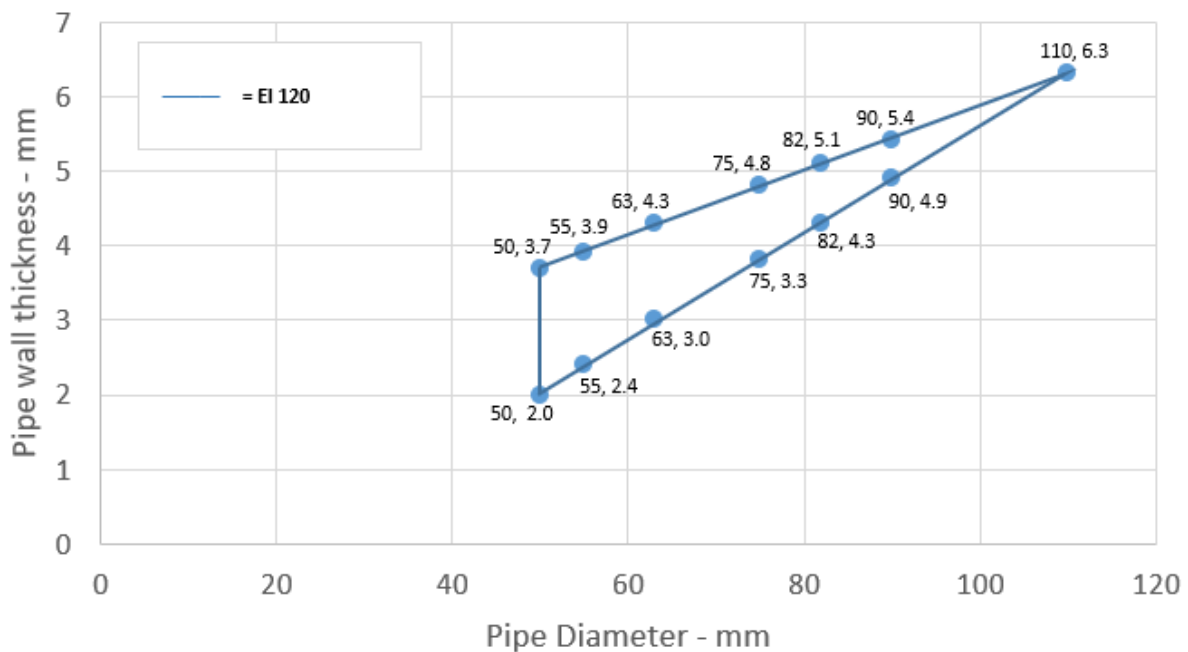
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A.5.1.1.1

Services	Collar Inlay	Classification
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	50 x 3.0 mm	EI 120 U/C, EI 120 C/C
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*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 3.0-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 3.8-4.8 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 4.3-5.1 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 4.9-5.4 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 6.3 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 50-110 / 50 mm Collar - U/C



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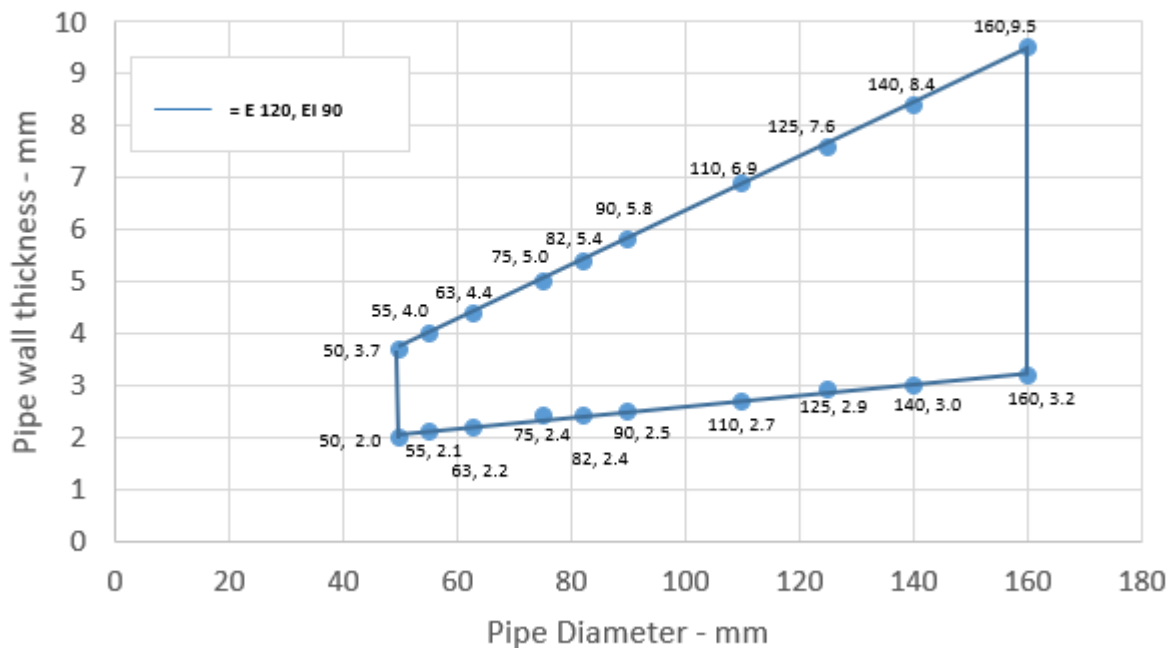
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A.5.1.1.2

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 50 mm, wall thickness 2.0-3.7 mm*	50 x 3.0 mm	E 120 U/C, EI 90 U/C
Diameter 55 mm, wall thickness 2.1-4.0 mm*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.2-4.4 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.4-5.0 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.4-5.4 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.5-5.8 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.9 mm*	50 x 6.0 mm	
Diameter 125 mm, wall thickness 2.9-7.6 mm*	50 x 8.8 mm	
Diameter 140 mm, wall thickness 3.0-8.4 mm*	50 x 11.5 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	50 x 15.0 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm	50 x 15.0 mm	E 180 U/C, E 180 C/C EI 90 U/C, EI 90 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 50-160 / 50 mm Collar - U/C



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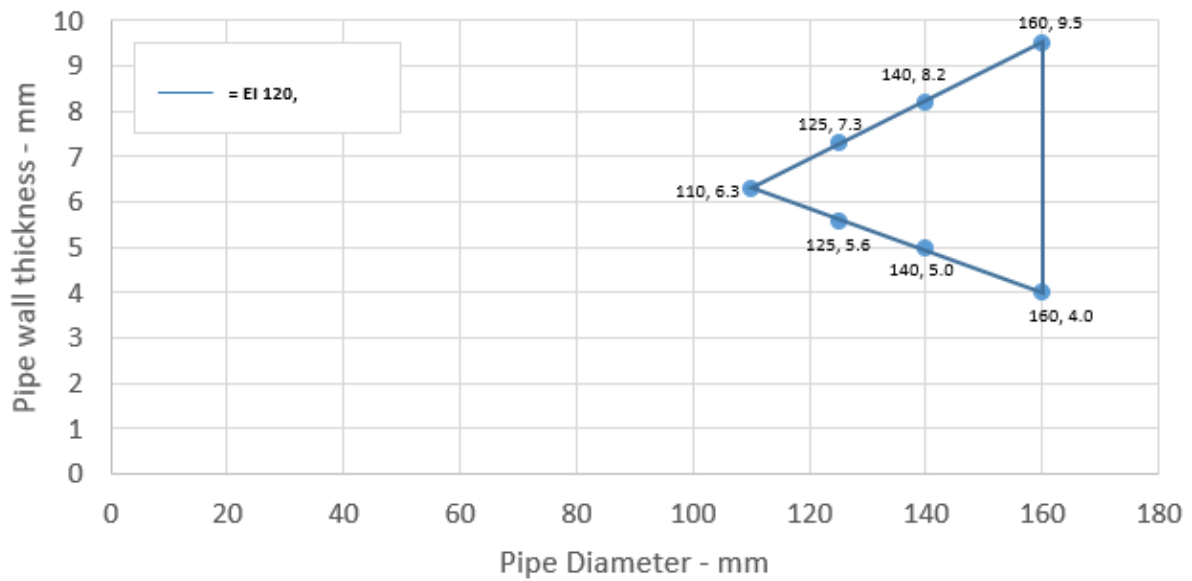
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A.5.1.1.3

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 6.3 mm*	60 x 6.0 mm	EI 120 U/C, EI 120 C/C
Diameter 125 mm, wall thickness 5.6-7.3 mm*	60 x 9.0 mm	
Diameter 140 mm, wall thickness 5.0-8.2 mm*	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.0-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar -U/C



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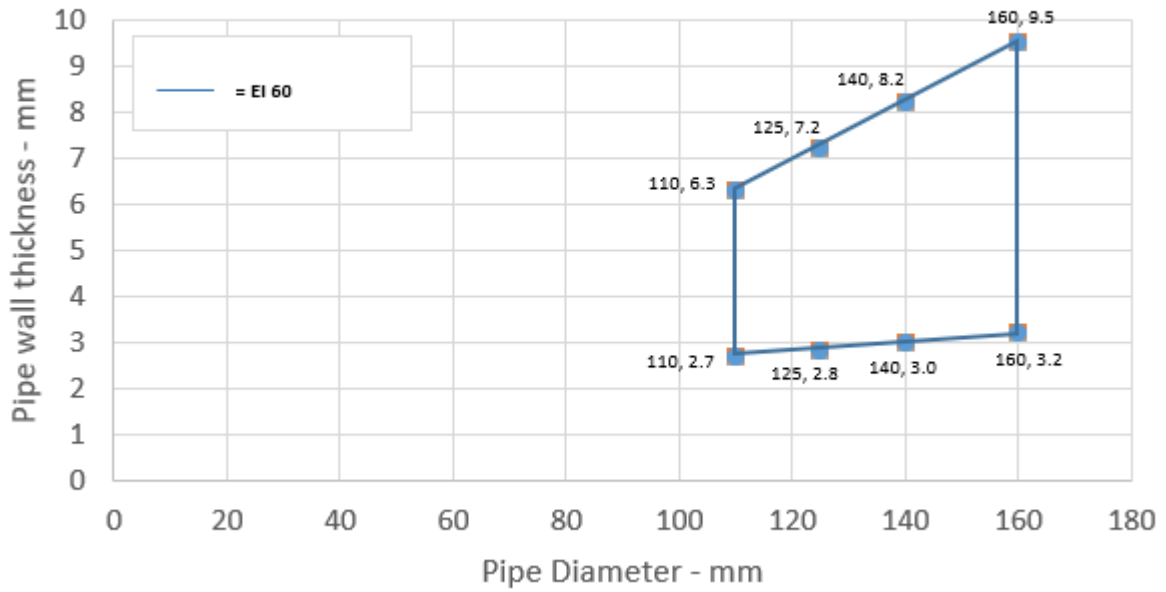
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A.5.1.1.4

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.3 mm*	60 x 6.0 mm	EI 60 U/C
Diameter 125 mm, wall thickness 2.8-7.2 mm*	60 x 8.7 mm	
Diameter 140 mm, wall thickness 3.0-8.2 mm*	60 x 11.4 mm	
Diameter 160 mm, wall thickness 3.2-9.5 mm*	60 x 15.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar -U/C



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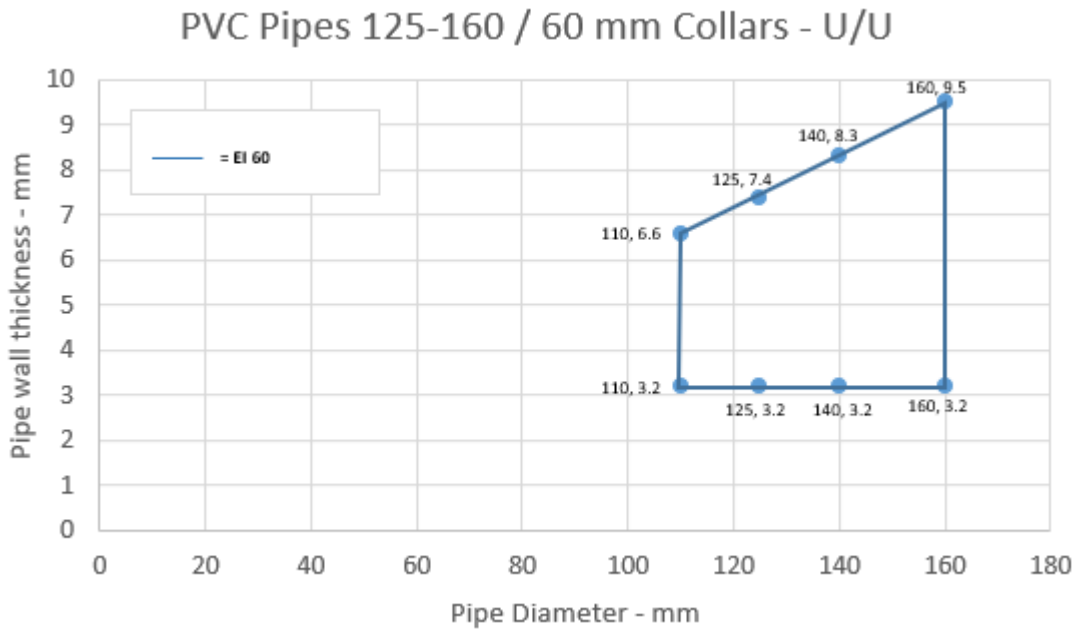
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A.5.1.1.5

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 3.2-6.6 mm*	60 x 6.0 mm	EI 60 U/U
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	

* Typical pipe diameters shown, see below graph for intermediate sizes



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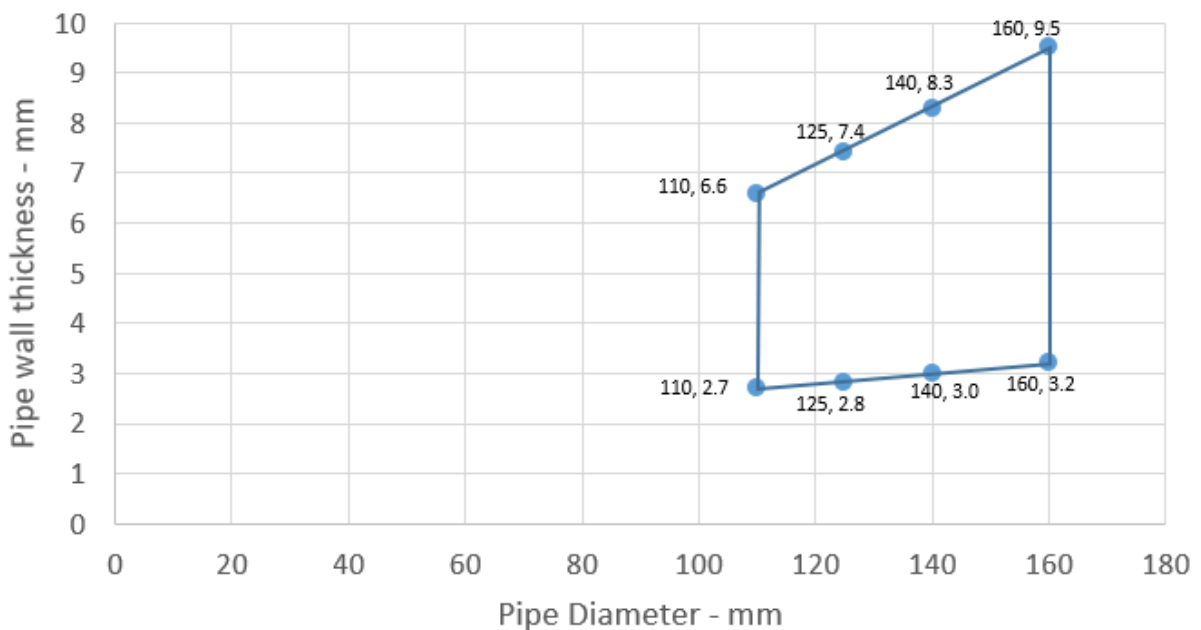
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A.5.1.1.6

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	EI 60 C/U
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC Pipes 125-160 / 60 mm Collar - C/U



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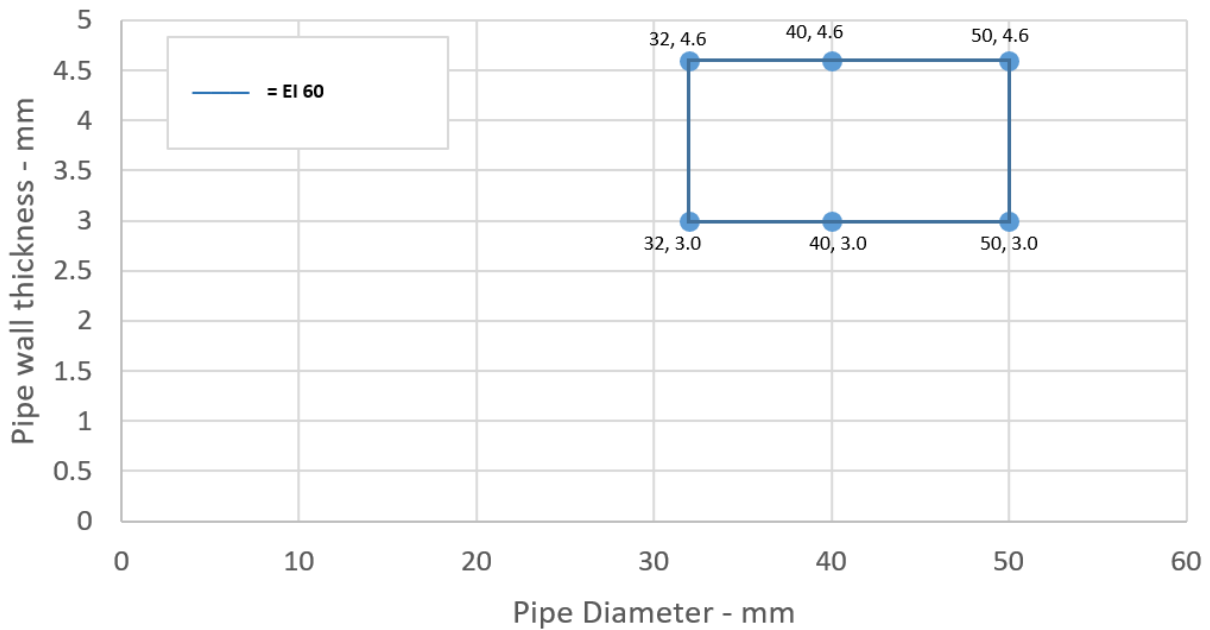


A.5.1.2

Services	Collar Inlay	Classification
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*	30 x 3.0 mm	EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 40 mm, wall thickness 3.0-4.6 mm*		
Diameter 50 mm, wall thickness 3.0-4.6 mm*		
Diameter 110 mm, wall thickness 10.0 mm	30 x 6.0 mm	EI 180 U/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 32-50 / 30 mm Collar - U/U



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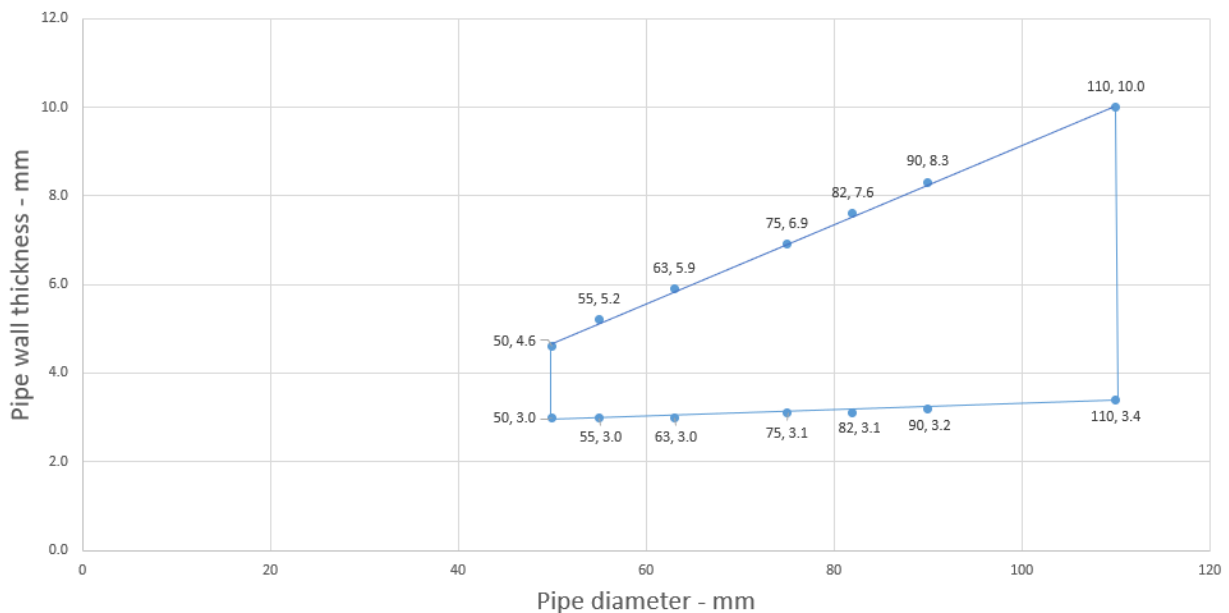
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A.5.1.2.1

Services	Collar Inlay	Classification
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 50 mm, wall thickness 3.0-4.6 mm*	30 x 3.0 mm	EI 60 U/U, EI 60 C/U, EI 60 U/C, EI 60 C/C
Diameter 55 mm, wall thickness 3.0-5.2 mm*	30 x 3.2 mm	
Diameter 63 mm, wall thickness 3.0-5.9 mm*	30 x 3.6 mm	EI 60 U/C, EI 60 C/C
Diameter 75 mm, wall thickness 3.1-6.9 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 3.1-7.6 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 3.2-8.3 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 3.4-10.0 mm*	30 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE pipes 50-110 / 30 mm Collar - U/C



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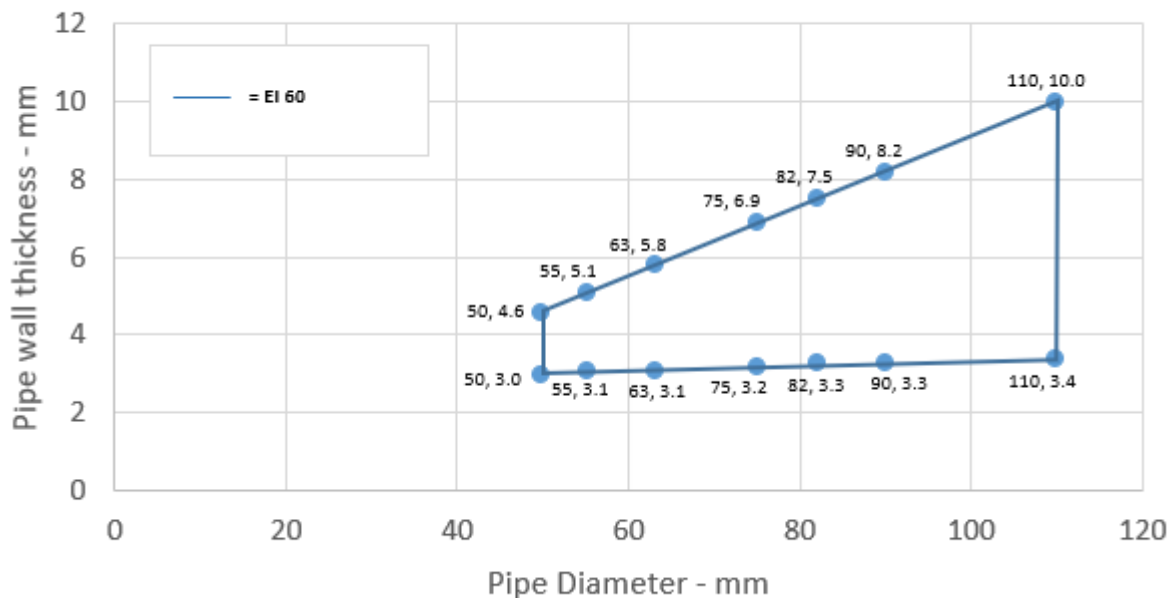
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A.5.1.2.2

Services	Collar Inlay	Classification
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 32-40 mm, wall thickness 3.0-4.6 mm	50 x 3.0 mm	EI 240 U/C
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	EI 240 U/U
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	EI 60 U/U, EI 60 C/U
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 50-110 / 50 mm Collar - U/U



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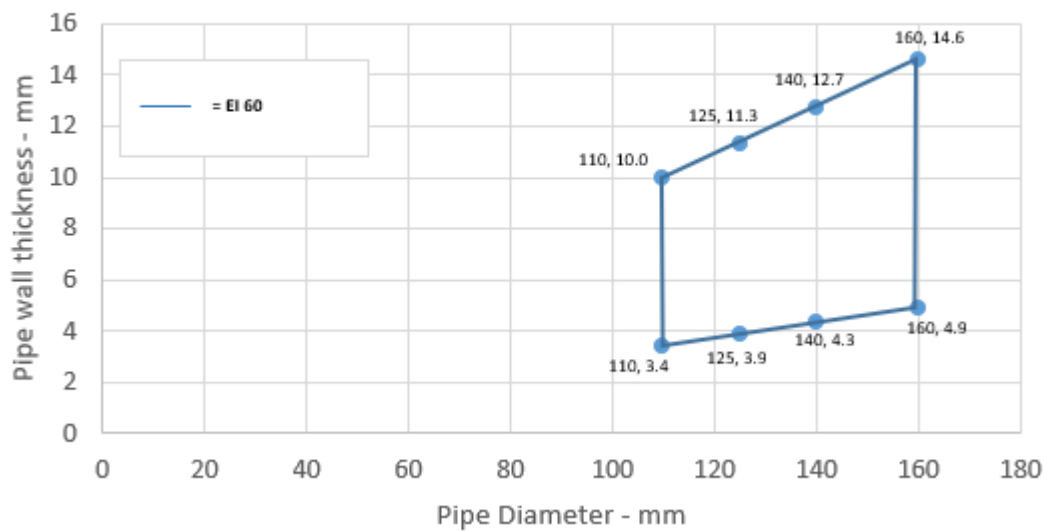
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A.5.1.2.3

Services	Collar Inlay	Classification
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 110 mm, wall thickness 3.4-10.0 mm*	60 x 6.0 mm	EI 60 U/U, EI 60 C/U
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 125-160 / 60 mm Collar - U/U



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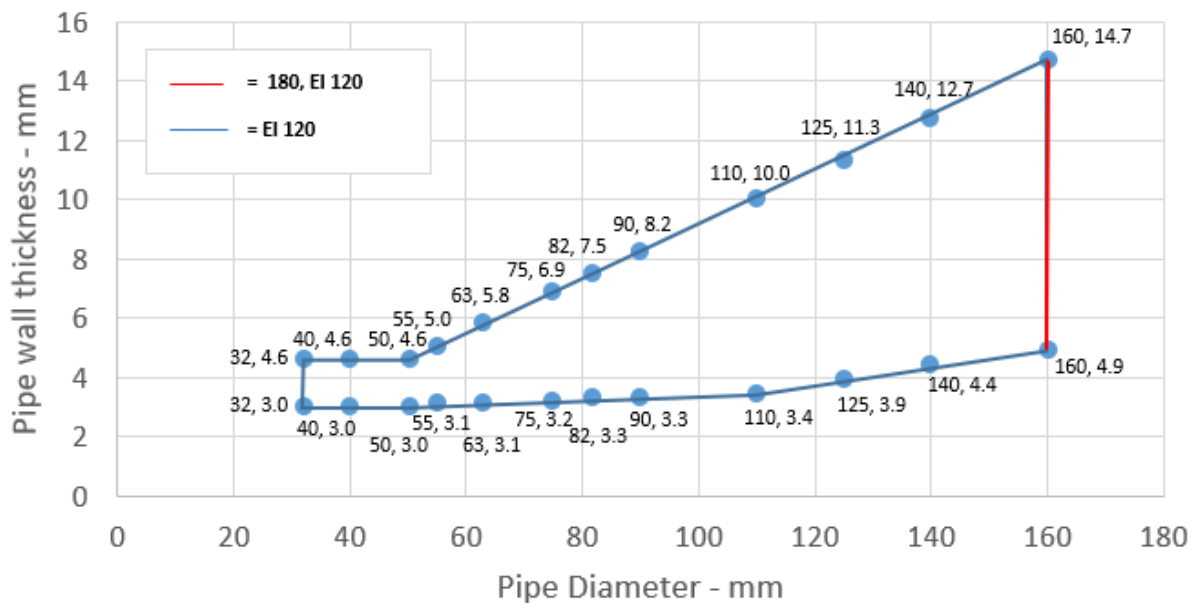
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A.5.1.2.4

Services	Collar Inlay	Classification
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	50 x 3.0 mm	EI 120 U/C, EI 120 C/C
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	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 125 mm, wall thickness 3.9-11.3 mm	50 x 8.8 mm	
Diameter 140 mm, wall thickness 4.4-12.7 mm	50 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-14.7 mm	50 x 15.0 mm	E 180 U/C, E 180 C/C EI 120 U/C, EI 120 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE Pipes 32-16 / 50 mm Collar - U/C



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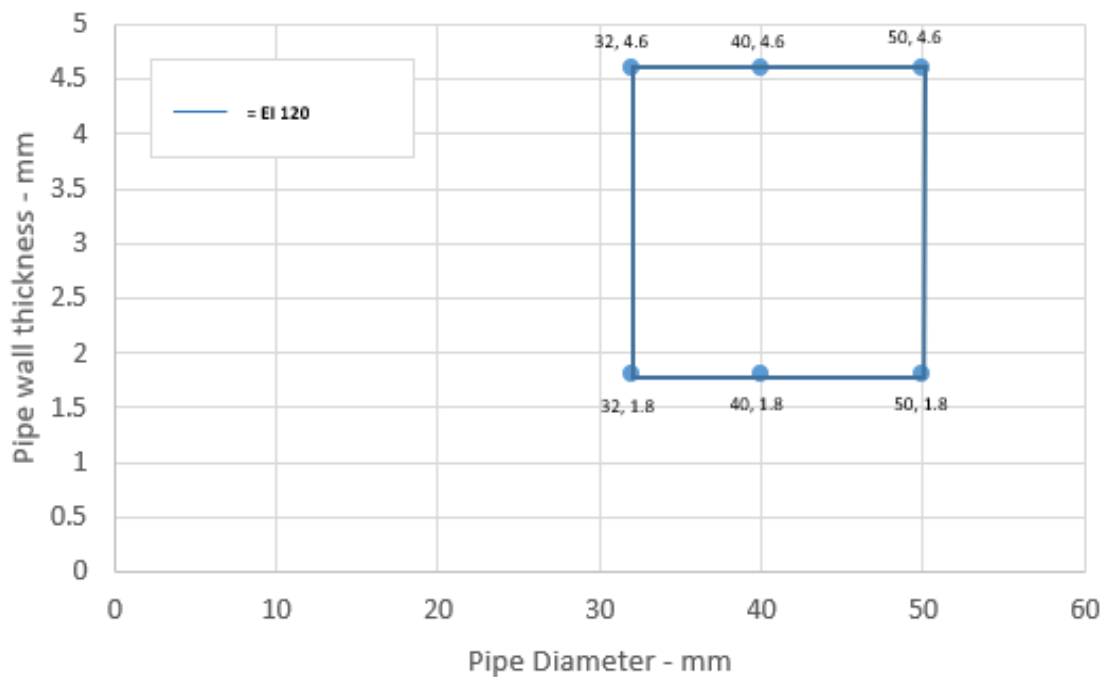
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A.5.1.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 1.8-4.6 mm*	30 x 3.0 mm	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
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 2.0-4.8 mm*	30 x 3.2 mm	EI 120 U/C, EI 120 C/C
Diameter 63 mm, wall thickness 2.3-5.5 mm*	30 x 3.6 mm	
Diameter 75 mm, wall thickness 2.8-5.4 mm*	30 x 4.2 mm	
Diameter 82 mm, wall thickness 3.1-5.6 mm*	30 x 4.6 mm	
Diameter 90 mm, wall thickness 3.4-5.9 mm*	30 x 5.0 mm	
Diameter 110 mm, wall thickness 4.2-6.6 mm*	30 x 6.0 mm	EI 180 U/C, EI 180 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

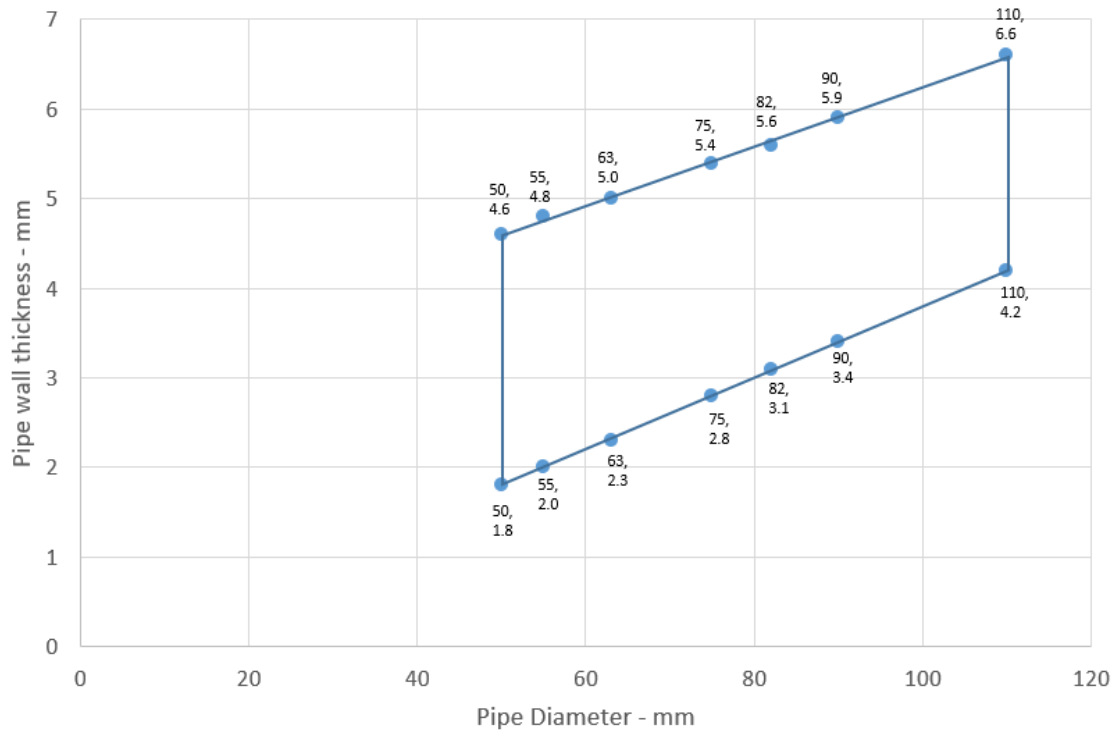
PP Pipes 32-50 / 30 mm Collar - U/U



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PP Pipes 50-110 / 30 mm Collar - U/C



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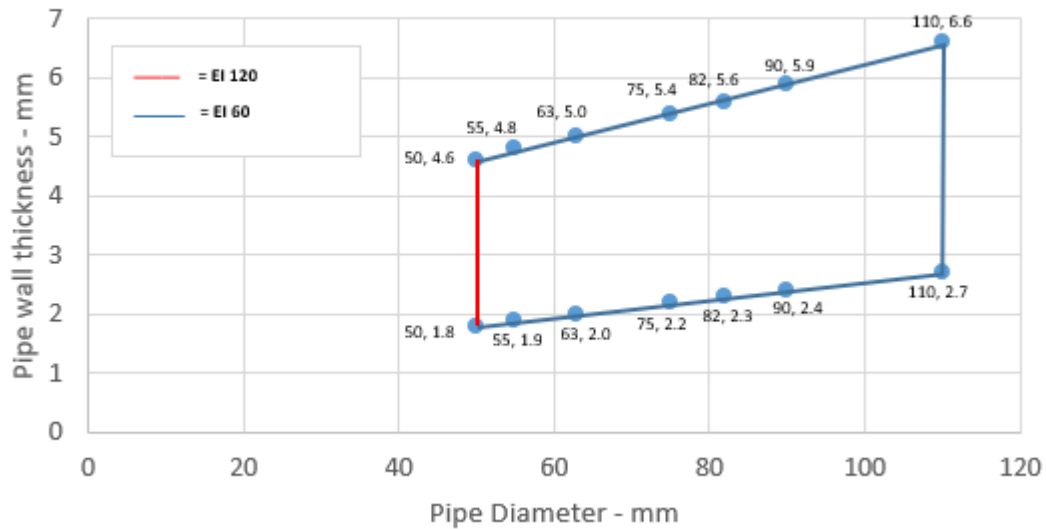


A.5.1.3.1

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 2.9 mm	50 x 3.2 mm	EI 240 U/U
Diameter 50 mm, wall thickness 1.8-4.6 mm*	50 x 3.0 mm	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter 55 mm, wall thickness 1.9-4.8 mm*	50 x 3.2 mm	EI 60 U/U, EI 60 C/U
Diameter 63 mm, wall thickness 2.0-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.2-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.3-5.6 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.4-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 55-110 / 50 mm Collar - U/U



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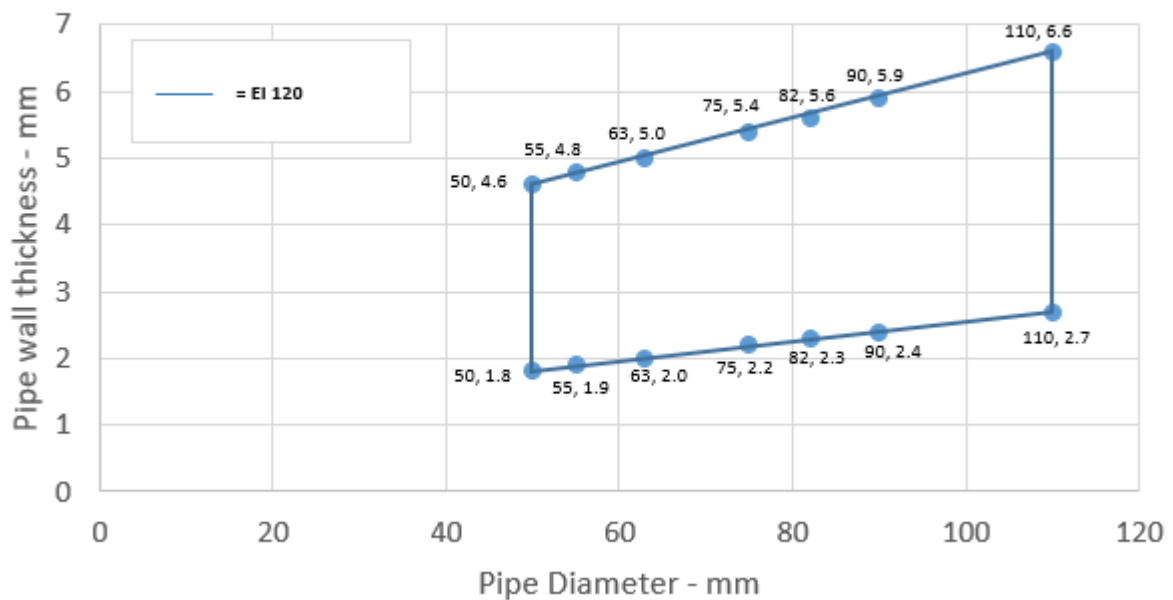
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A.5.1.3.2

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.8-4.6 mm*	50 x 3.0 mm	EI 120 U/U, EI 120 C/U, EI 120 U/C, EI 120 C/C
Diameter 55 mm, wall thickness 1.9-4.8 mm*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.0-5.0 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.2-5.4 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.3-5.6 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.4-5.9 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 55-110 / 50 mm Collar - U/C



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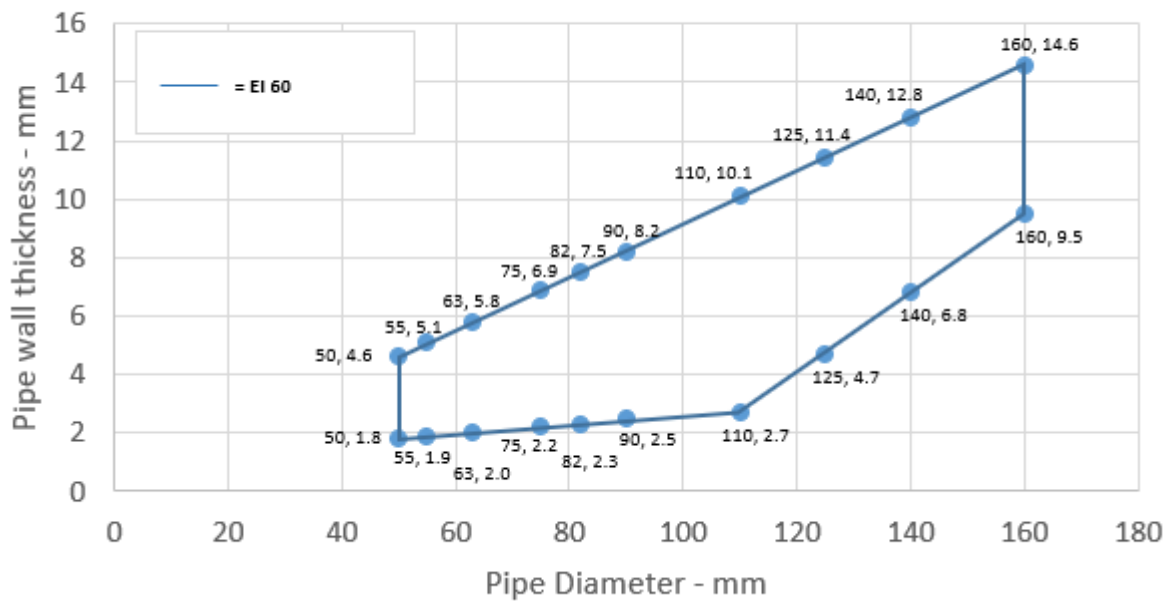
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A.5.1.3.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 50 mm, wall thickness 1.8-4.6 mm*	30 x 3.0 mm	EI 60 U/C, EI 60 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 55-160 / 50 mm Collar - U/C



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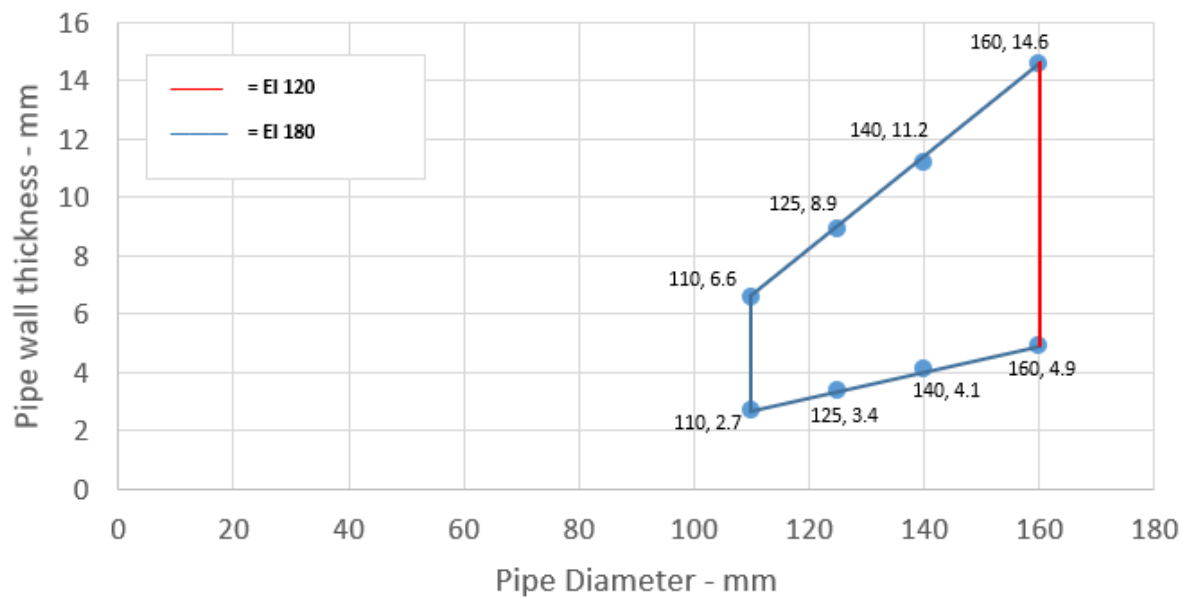
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A.5.1.3.4

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	60 x 6.0 mm	EI 120 U/C, EI 120 C/C
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	EI 180 U/C, EI 180 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm Collar - U/C



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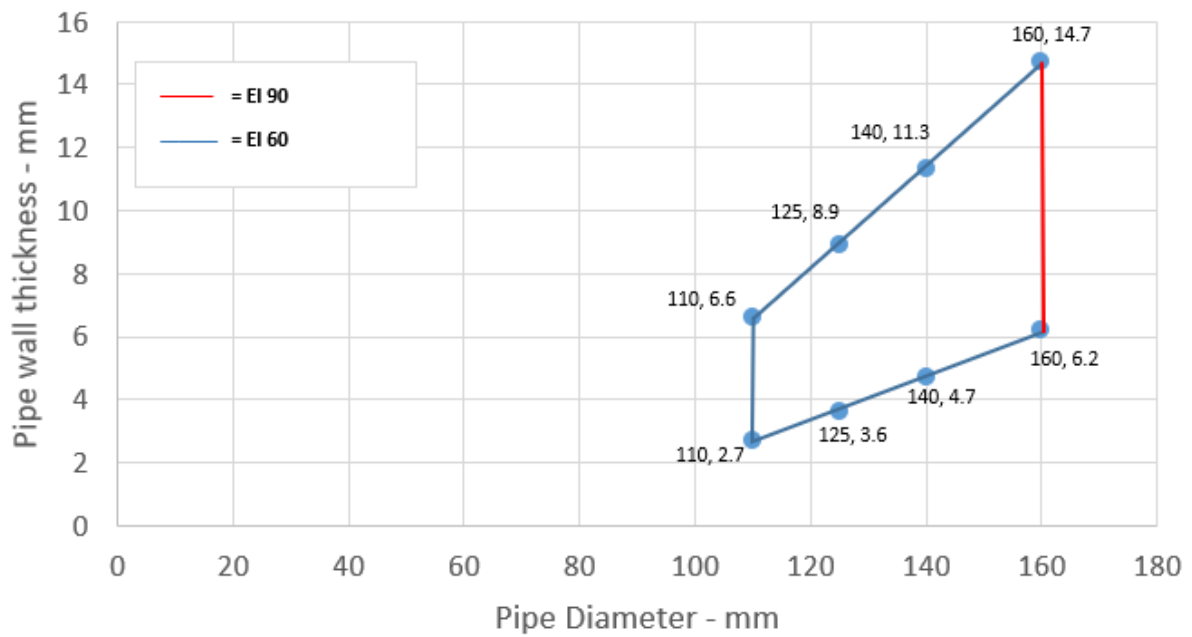
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A.5.1.3.5

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 110 mm, wall thickness 2.7-6.6 mm*	50 x 6.0 mm	EI 60 U/U
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	
Diameter 160 mm, wall thickness 6.2 mm	60 x 15.0 mm	EI 90 U/U

* Typical pipe diameters shown, see below graph for intermediate sizes

PP Pipes 125-160 / 60 mm Collar - U/U



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A.5.1.4

Services	Collar Inlay	Classification
Wavin SiTech + PP-M B according to EN 13501-1		
32-40 mm diameter/ 1.8 mm wall thickness	50 x 3.0 mm	EI 240 U/U
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	EI 180 C/U
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/3.6-5.6 mm wall thickness	30 x 3.0 mm	EI 240 C/C
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	EI 120 C/C
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	
Geberit Silent PP according to DIN 4102		
32-40 mm diameter/ 1.8 mm wall thickness	50 x 3.0 mm	EI 240 U/U
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	EI 180 C/U
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		
32-40 mm diameter/1.8-2.0 mm wall thickness	50 x 3.0 mm	EI 240 U/U
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	EI 240 C/U
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	EI 240 U/C
Diameter 160 mm, wall thickness 4.9 mm	60 x 15 mm	E 240 C/U, EI 240 U/C

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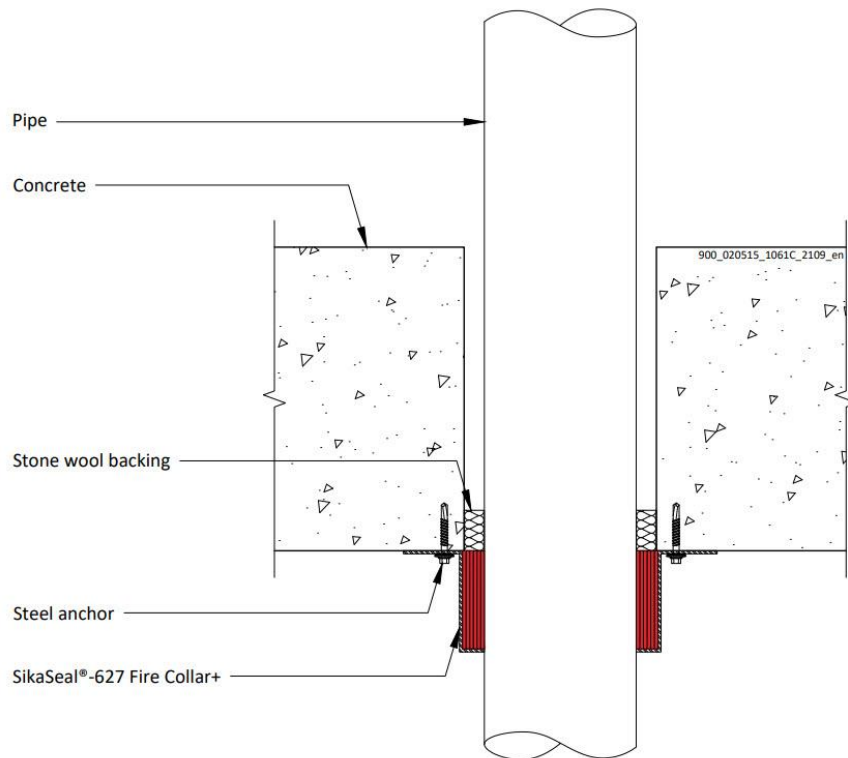
A.5.1.4.1

Services	Collar Inlay	Classification
Rehau Raupiano Plus PP-DD according to DIN 4102		
40 mm diameter/1.8 wall thickness	50 x 3.0 mm	EI 240 U/U
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	EI 120 C/U
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	EI 180 C/U
Diameter 160 mm, wall thickness 3.9 mm	60 x 15.0 mm	E 240 C/U, EI 240 U/C
BluePower Multilayer pipe – TR02-PP according to EN 1451-1		
32-40 mm diameter/1.8 mm wall thickness	50 x 3.0 mm	EI 180 U/U
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	EI 180 C/U
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	EI 240 C/U
Uponor Decibel according to EN 14366		
50 mm diameter/ 2.0 mm wall thickness	50 x 3.0 mm	EI 180 U/U
75 mm diameter/ 2.6 mm wall thickness	50 x 4.2 mm	EI 120 C/U
110 mm diameter/ 3.8 mm wall thickness	50 x 6.0 mm	

A.5.2 Penetration seals, surface mounted in concrete floors

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to the soffit of the floor.

Construction details:



A.5.2.1

Services	Collar Inlay	Classification
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*	50 x 3.0 mm	EI 120 C/C, EI 60 C/U
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*	50 x 3.2 mm	
Diameter 63 mm, wall thickness 2.2-4.3 mm*	50 x 3.6 mm	
Diameter 75 mm, wall thickness 2.3-4.8 mm*	50 x 4.2 mm	
Diameter 82 mm, wall thickness 2.4-5.1 mm*	50 x 4.6 mm	
Diameter 90 mm, wall thickness 2.5-5.4 mm*	50 x 5.0 mm	
Diameter 110 mm, wall thickness 2.7-6.3 mm*	50 x 6.0 mm	

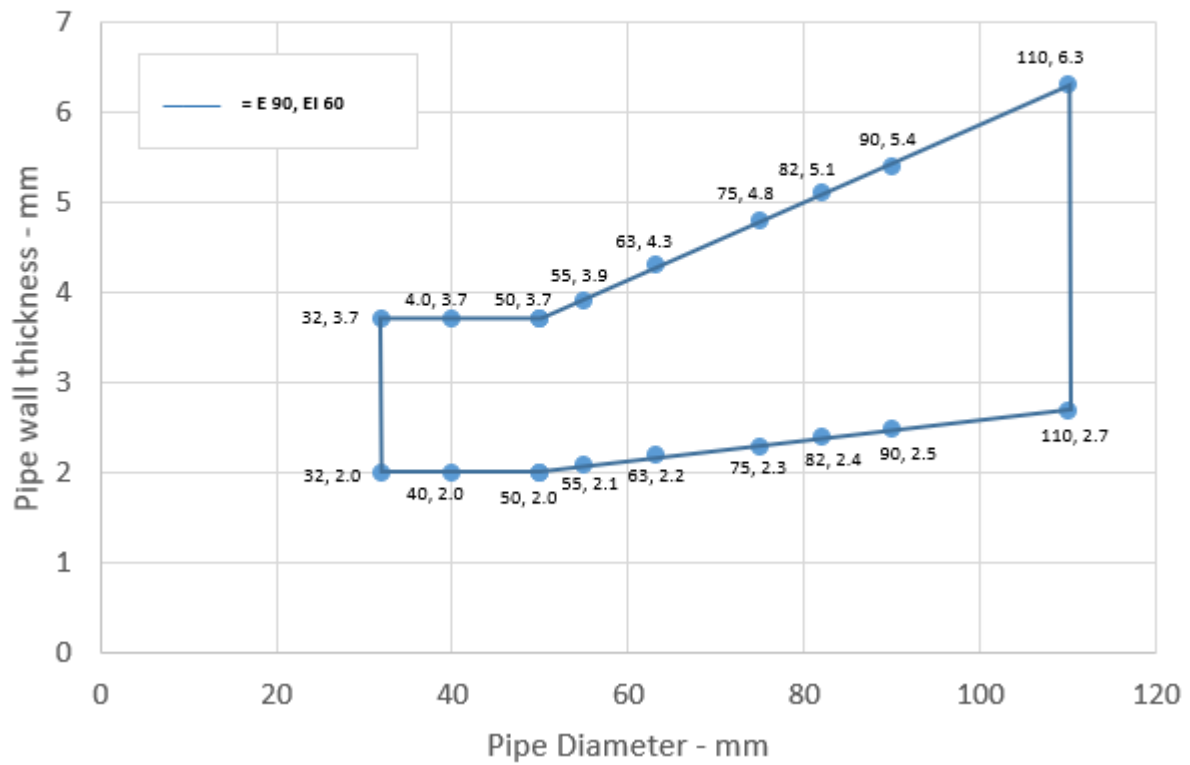
* Typical pipe diameters shown, see below graph for intermediate sizes

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PVC Pipes 32-110 / 50 mm Collar - C/C



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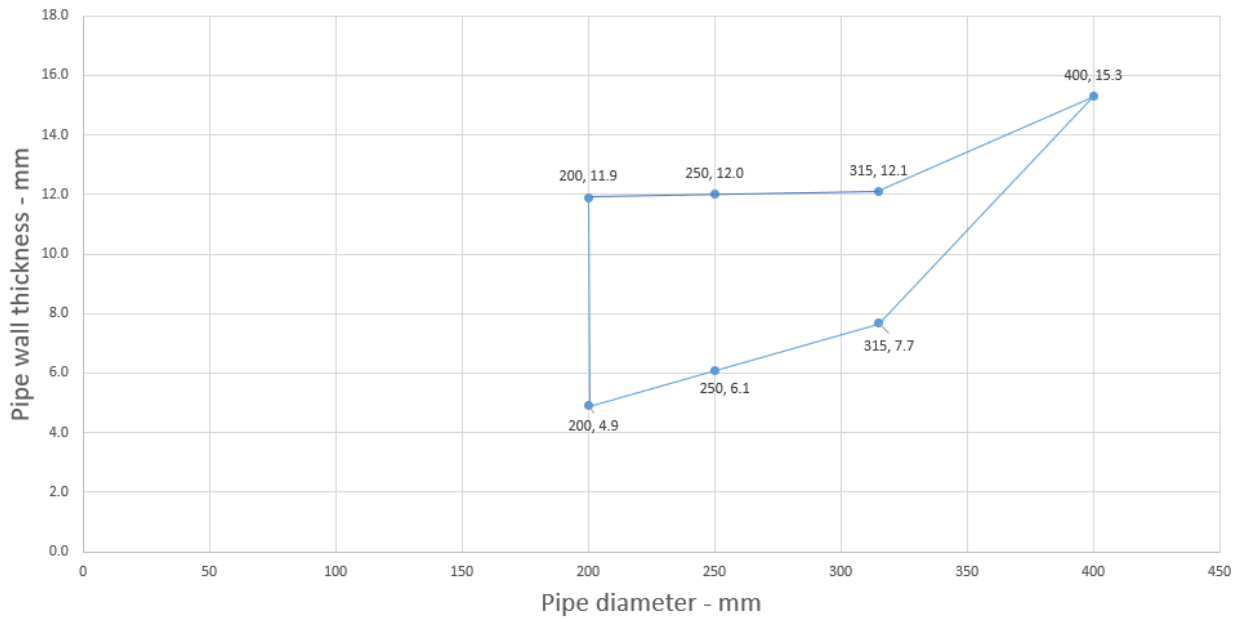
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A.5.2.1.1

Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Up to 200 mm diameter / 4.9-11.9 mm wall thickness*	60 x 18 mm	E 120 C/C, EI 60 C/C
Up to 250 mm diameter / 6.1-11.9 mm wall thickness*	75 x 24 mm	EI 60 C/C
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	

* Typical pipe diameters shown, see below graph for intermediate sizes

PVC pipes 200-400 / 60-100 mm Collar - C/C



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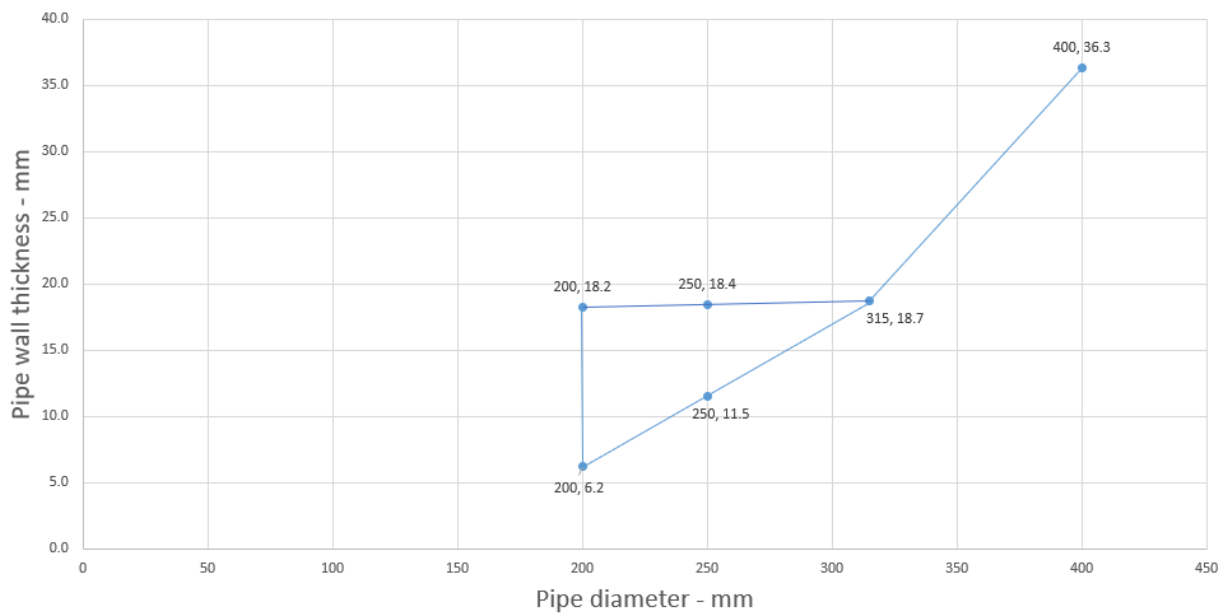
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A.5.2.2

Services	Collar Inlay	Classification
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		
Up to 200 mm diameter / 6.2-18.2 mm wall thickness*	60 x 18 mm	E 240 C/C, EI 120 C/C
Up to 250 mm diameter / 11.5-18.4 mm wall thickness*	75 x 24 mm	EI 240 C/C
Up to 315 mm diameter / 18.7 mm wall thickness*	75 x 30 mm	
Up to 400 mm diameter / 36.3 mm wall thickness*	100 x 39 mm	EI 90 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PE pipes 200-400 / 60-100 mm Collar - C/C



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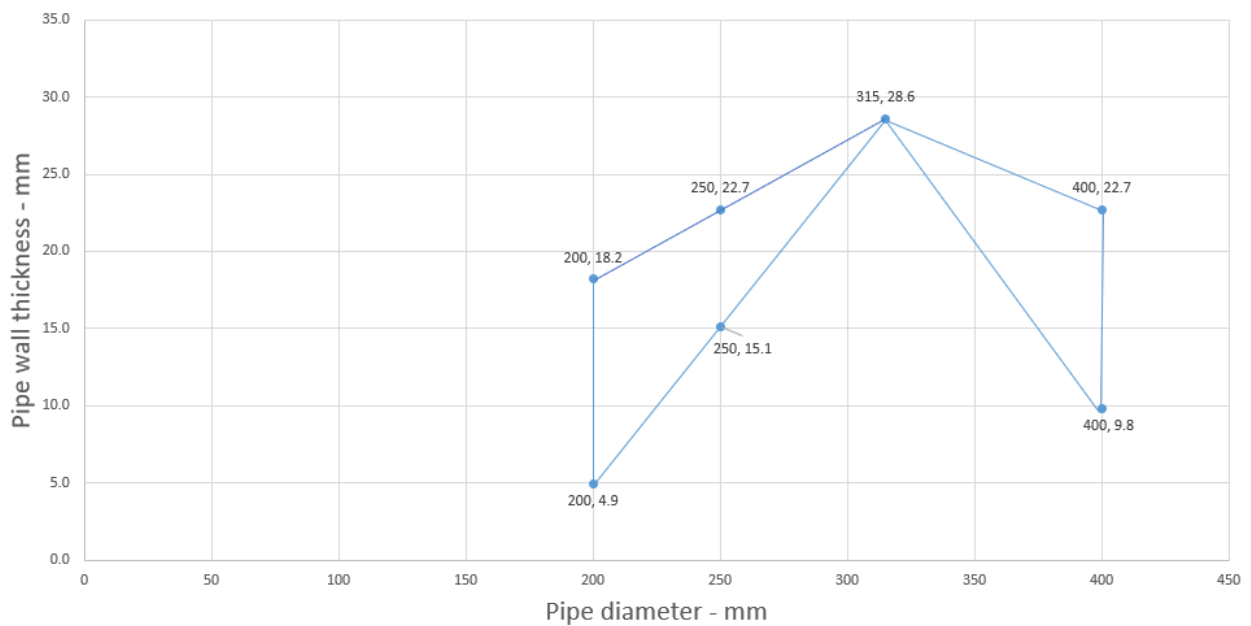
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A.5.2.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Up to 200 mm diameter / 4.9-18.2 mm wall thickness*	60 x 18 mm	EI 120 C/C
Up to 250 mm diameter / 15.1-22.7 mm wall thickness*	75 x 24 mm	EI 60 C/C
Up to 315 mm diameter / 28.6 mm wall thickness*	75 x 30 mm	
Up to 400 mm diameter / 9.8-22.7 mm wall thickness*	100 x 39 mm	EI 30 C/C

* Typical pipe diameters shown, see below graph for intermediate sizes

PP pipes 200-400 / 60-100 mm Collar - C/C



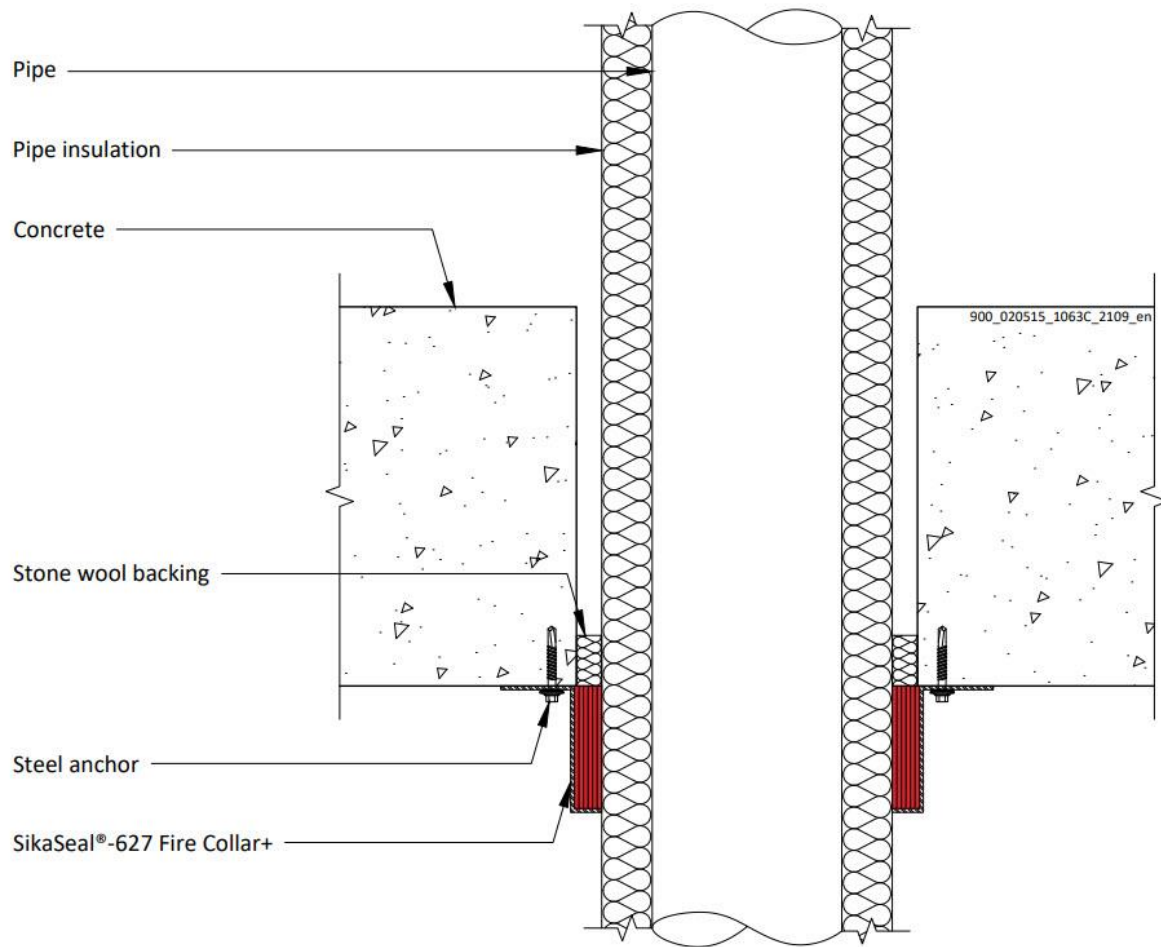
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A.5.3 Penetration seals, surface mounted in concrete floors

Penetration Seal: Metallic pipes fitted with SikaSeal-627 Fire Collar+, to the soffit of the floor.

Construction details:



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A.5.3.1

Services	Insulation	Collar	Classification
Copper pipe or mild steel			
Maximum diameter 42 mm, wall thickness 0.7-14.2 mm*	9 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 63 mm collar at 50 mm height	EI 120 C/C
Maximum diameter 42 mm, wall thickness 0.7-14.2 mm*	10-50 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 110 mm collar at 50 mm height, 125-160 mm at 60 mm height	EI 60 C/C
Maximum diameter 54 mm, wall thickness 0.7-14.2 mm*	19 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height	E 120 C/C, EI 60 C/C
Alupex pipe			
Maximum diameter 75 mm, wall thickness 2.25-4.6 mm	9 mm thick Elastomeric insulation minimum class D-s3, d0	Up to 110 mm collar at 50 mm height	EI 120 C/C
	10-50 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height	E 120 C/C, EI 90 C/C
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			
Maximum diameter 160 mm, wall thickness 3.0-9.5 mm	9 mm thick Elastomeric insulation minimum class BL-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height	EI 180 C/C
	10-50 mm thick Elastomeric insulation minimum class B-s3, d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height, 250-315 mm at 75 mm height	EI 120 C/C
PP pipe according to EN 1451-1			
Maximum diameter 160 mm, wall thickness 1.8-9.1 mm	9 mm thick Elastomeric insulation minimum class BL-s3,d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height	E 180 C/C, EI 120 C/C
	10-50 mm thick Elastomeric insulation minimum class B-s3,d0	Up to 110 mm collar at 50 mm height, 125-200 mm at 60 mm height, 250-315 mm at 75 mm height	EI 60 C/C

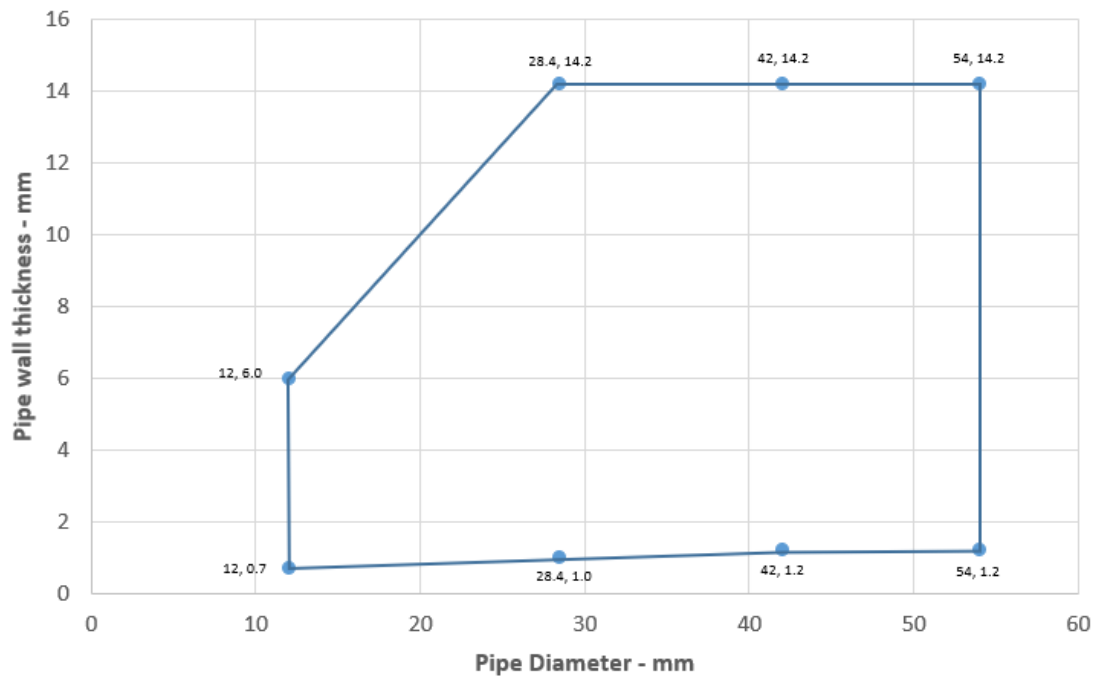
* Typical pipe diameters shown, see below graph for intermediate sizes

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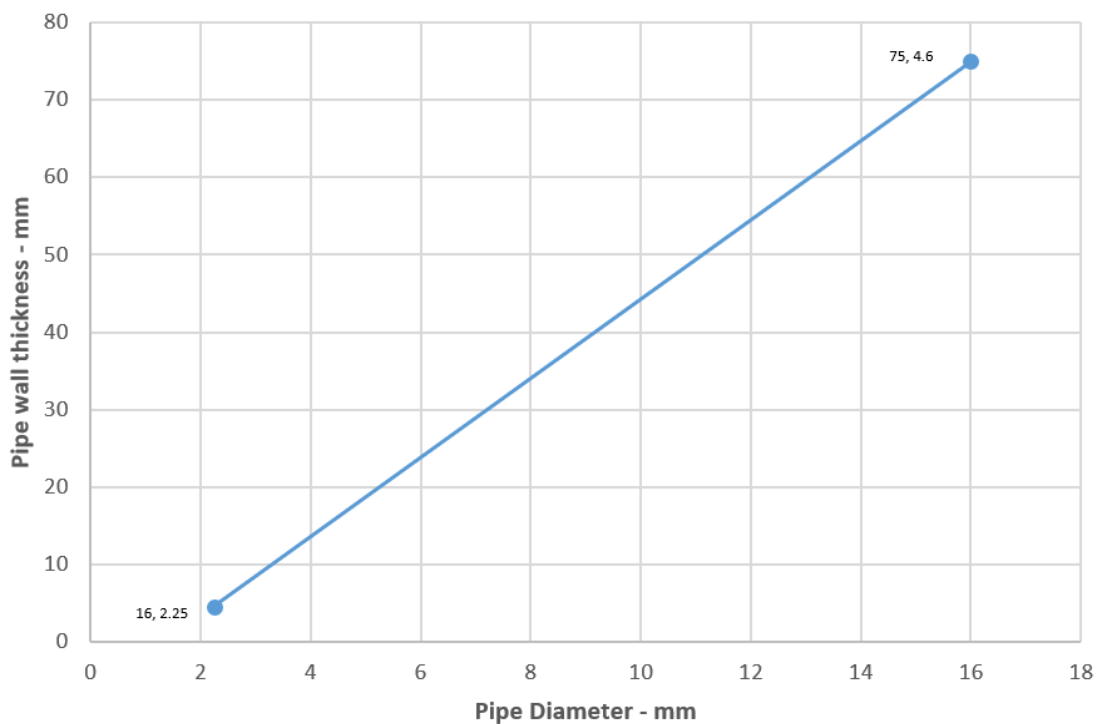
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Copper or Steel Pipes 12-54 / 9-50 mm Elastomeric Insulation - C/C



Alupex Pipes with Elastomeric Pipe Insulation - C/C

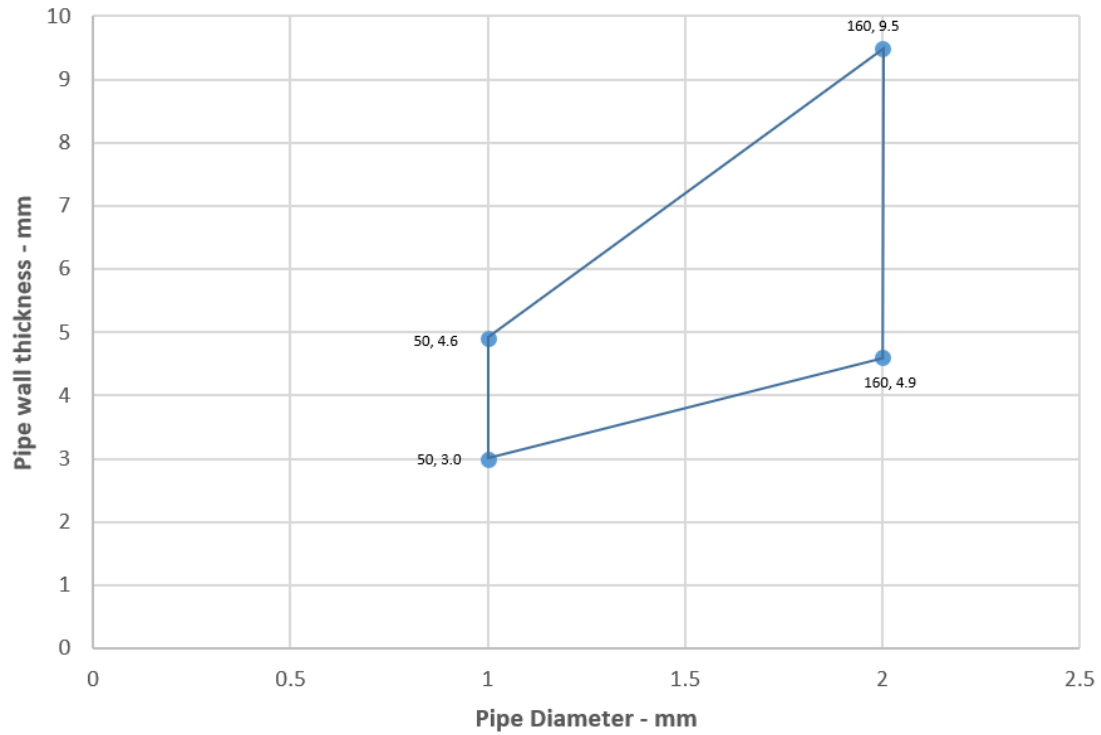


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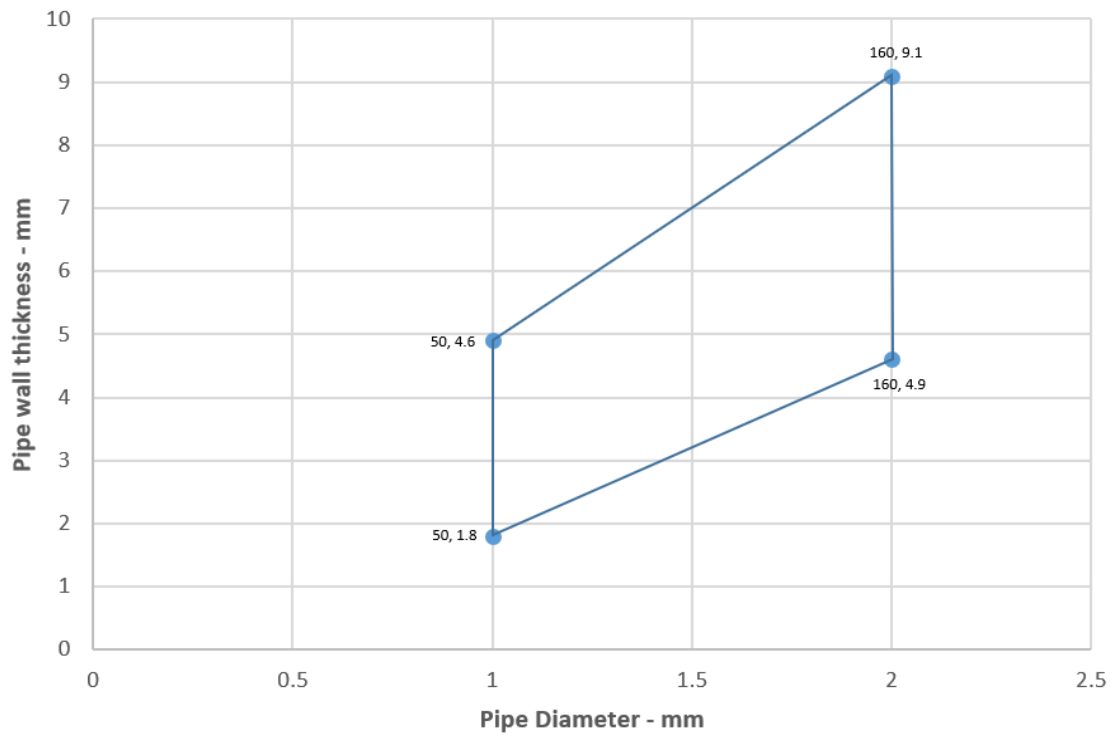
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PE Pipes with Elastomeric Pipe Insulation - C/C



PP Pipes with Elastomeric Pipe Insulation - C/C

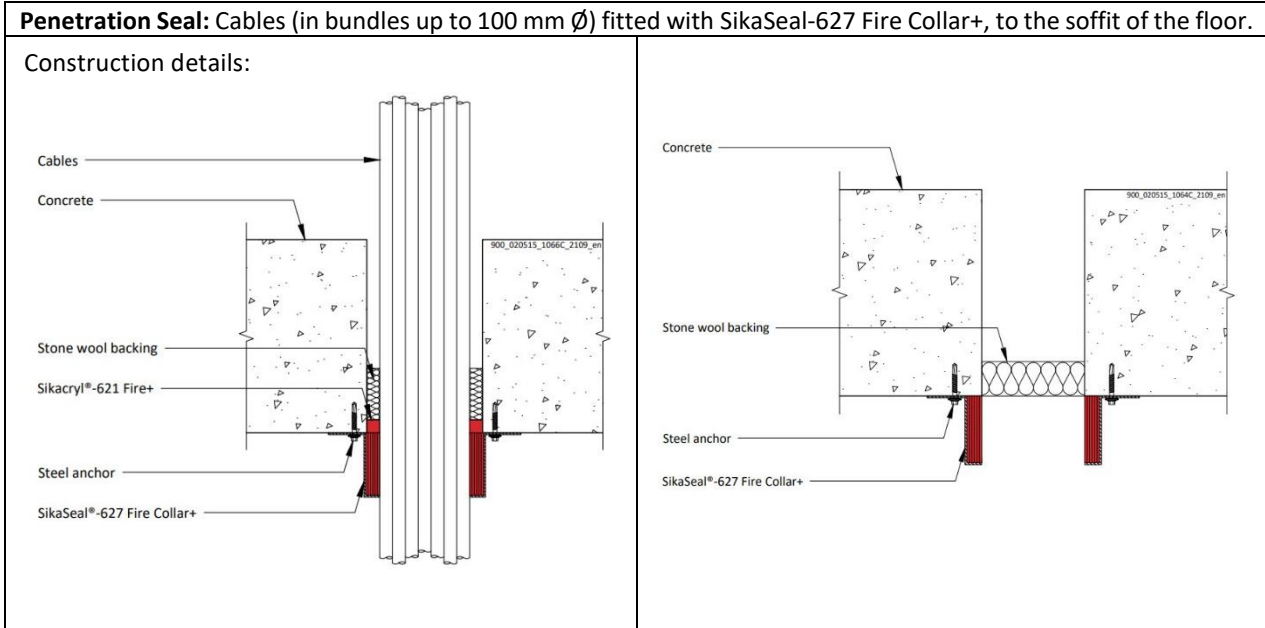


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A.5.4 Penetration seals, surface mounted in concrete floors



A.5.4.1

Services	Collar	Classification
None (blank)	Ø 55 x 30 x 3.2 mm	E 240, EI 60
None (blank)	Ø 160 x 60 x 15.0 mm	EI 120
Cables up to 21 mm Ø, in bundles up to 55 mm Ø	Ø 55 x 30 x 3.2 mm	EI 120
Cables up to 21 mm Ø, in bundles up to 100 mm Ø	Ø 110 x 50 x 6.0 mm	EI 90
Cables up to 21 mm Ø, in bundles up to 160 mm Ø	Ø 160 x 60 x 15.0 mm	EI 180
PVC pipes up to 32 mm Ø, wall thickness 1.0-2.4 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø *	Up to 110 mm collar at 50 mm height, 125-160 mm at 60 mm height	EI 90 C/U
PE pipes up to 32 mm Ø, wall thickness 2.0-3.0 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø *		
PP pipes up to 32 mm Ø, wall thickness 1.8-4.4 mm with or without cables up to 21 mm Ø, in partial or fully filled pipe bundles up to 160 mm Ø *		
PEX pipe-in-pipe system		
Diameter up to 25 mm pipes, wall thicknesses 0.6 mm outer and 2.5 mm inner pipe, in bundle up to 50 mm	50 mm collar at 50 mm height	EI 90 C/C

* PVC, PE and PP pipes can be mixed in the same bundle.

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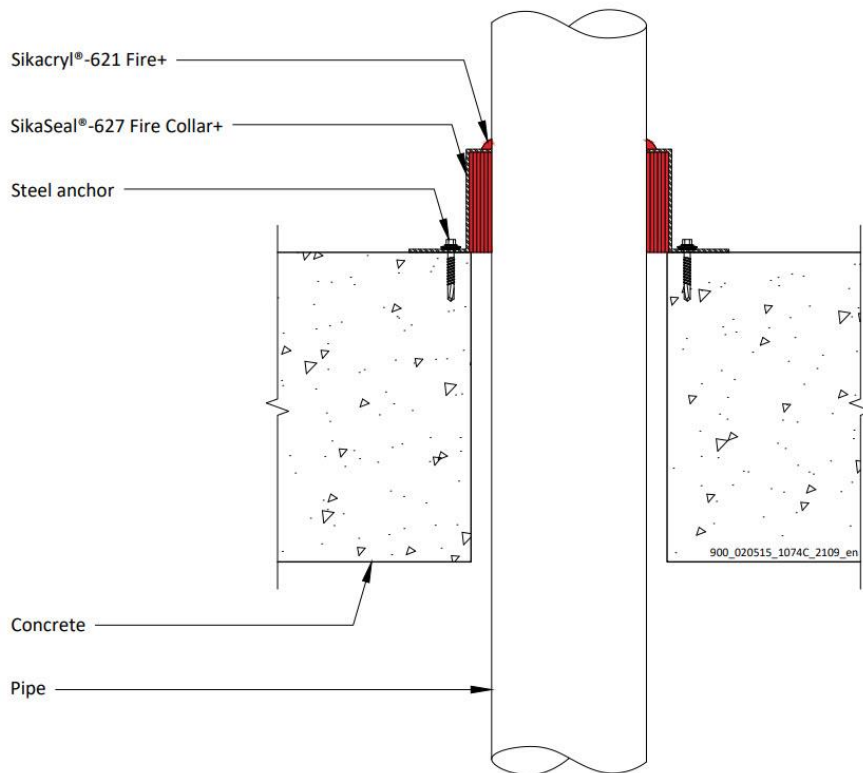
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A.5.5 Penetration seals, surface mounted in concrete floors

Penetration Seal: Combustible pipes fitted with SikaSeal-627 Fire Collar+, to the top face of the floor.

Construction details:



A.5.5.1

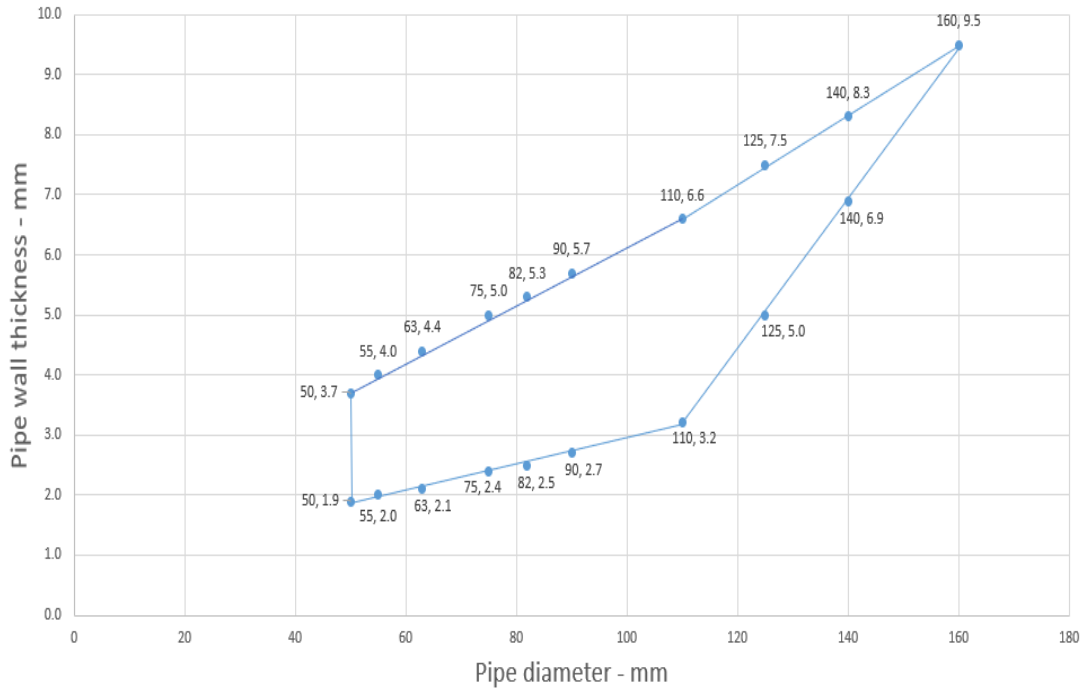
Services	Collar Inlay	Classification
PVC-U pipe according to EN 1329-1, EN 1452-1 and EN 1453-1 and PVC-C according to EN 1566-1		
Diameter 32 mm, wall thickness 1.9-3.7 mm	50 x 3.0 mm	EI 240 U/C
Diameter 40 mm, wall thickness 1.9-3.7 mm	50 x 3.0 mm	
Diameter 50 mm, wall thickness 1.9-3.7 mm	50 x 3.2 mm	
Diameter 55 mm, wall thickness 2.0-4.0 mm	50 x 3.2 mm	EI 120 U/C
Diameter 63 mm, wall thickness 2.1-4.4 mm	50 x 3.6 mm	
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	E 240 U/C, EI 180 U/C
Diameter 125 mm, wall thickness 5.0-7.5 mm	60 x 8.8 mm	
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	E 180 U/C, EI 90 U/C
Diameter 125 mm, wall thickness 4.1-7.5 mm	60 x 8.8 mm	
Diameter 140 mm, wall thickness 5.0-8.3 mm	60 x 11.5 mm	
Diameter 160 mm, wall thickness 6.2-9.5 mm	60 x 15 mm	

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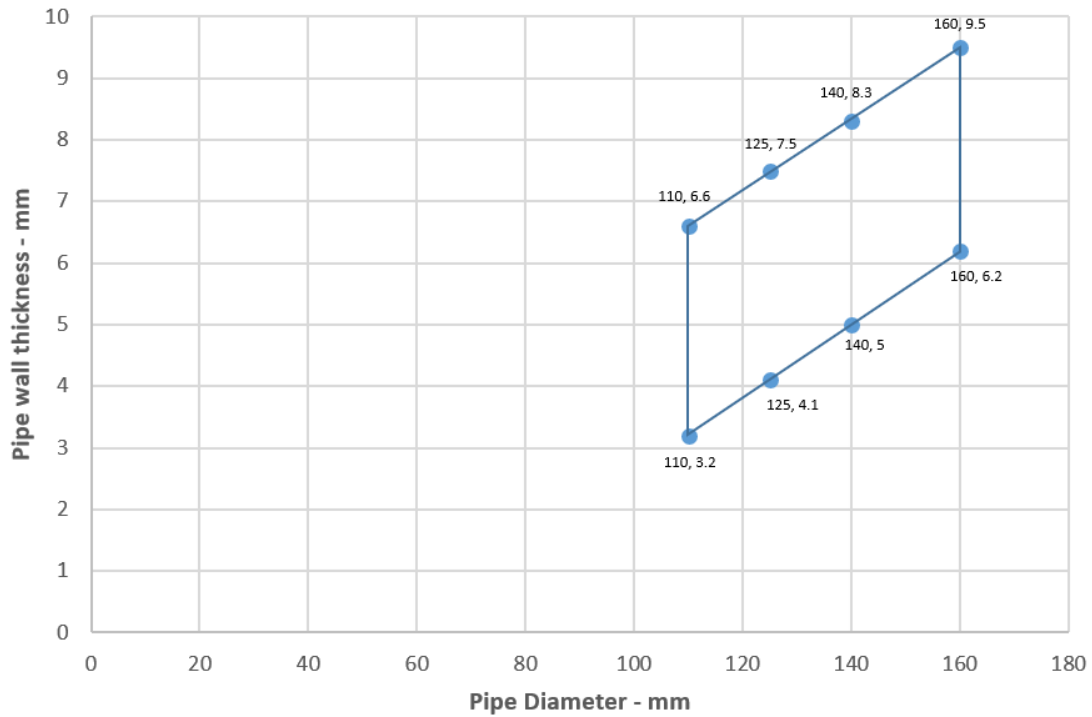
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PVC pipes 50-160 / 50-60 mm Collar - U/C



PVC Pipes 110-160 - U/C



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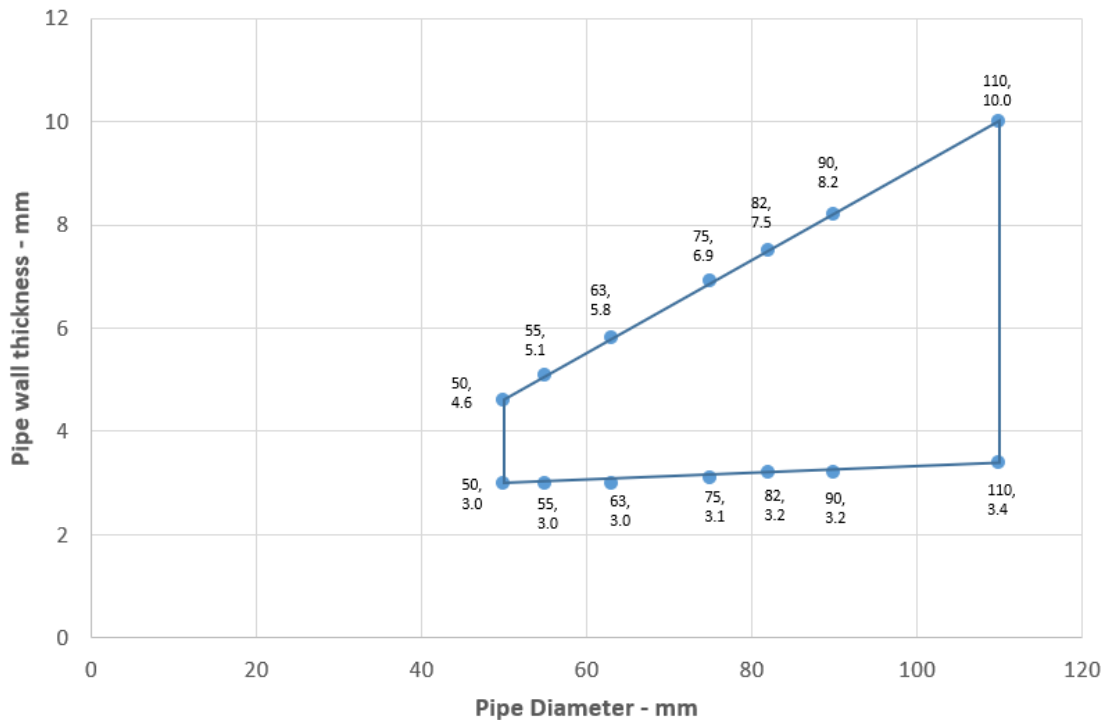
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A.5.5.2

Services	Collar Inlay	Classification
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	50 x 3.0 mm	EI 240 U/C
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	E 240 U/C, EI 60 U/C
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	EI 60 U/C
Diameter 125 mm, wall thickness 3.9-9.8 mm	60 x 8.8 mm	
Diameter 140 mm, wall thickness 4.3-9.7 mm	60 x 11.5 mm	
Diameter 160 mm, wall thickness 4.9-9.5 mm	60 x 15 mm	

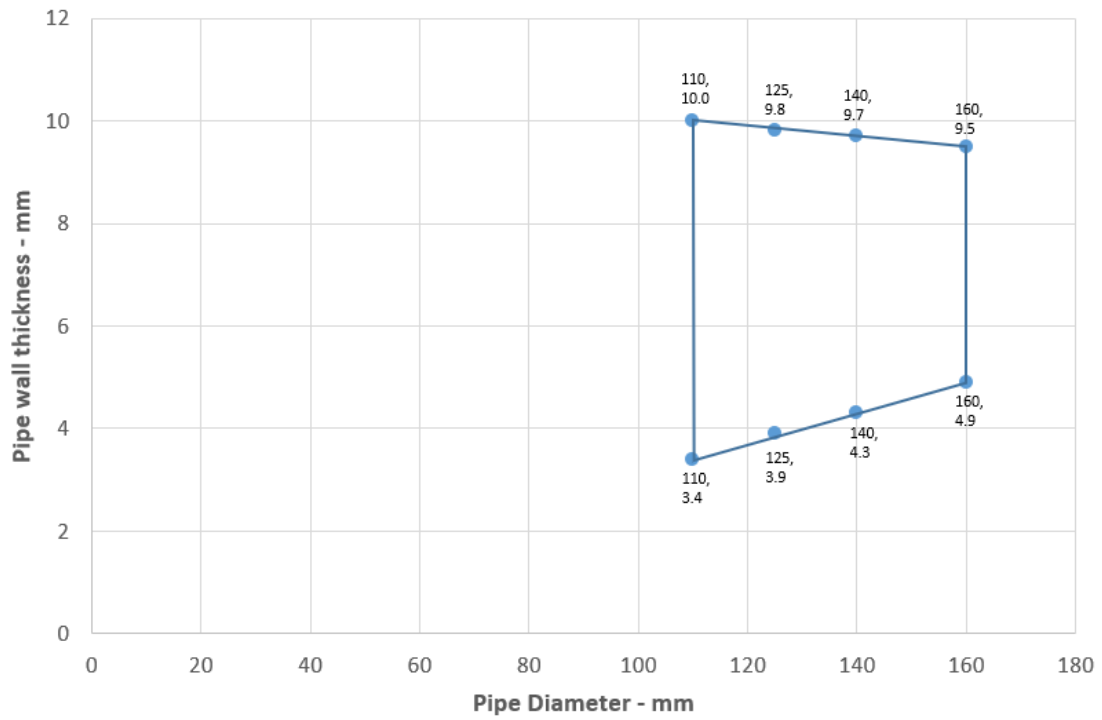
PE Pipes 50-110 / 50 mm collar - U/C



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PE Pipes 110-160 - U/C



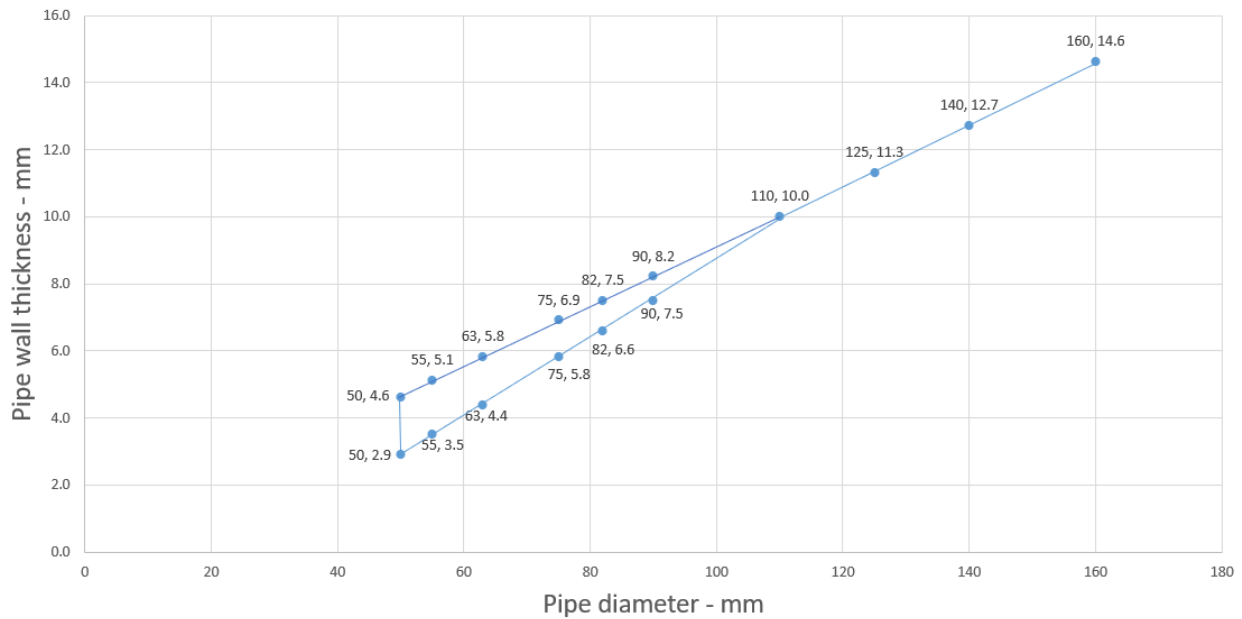
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A.5.5.3

Services	Collar Inlay	Classification
PP pipe according to EN 1451-1		
Diameter 32 mm, wall thickness 2.9-4.6 mm	50 x 3.0 mm	E 240 U/C, EI 180 U/C
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	E 180 U/C, EI 90 U/C
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	
Diameter 125 mm, wall thickness 11.3 mm	60 x 8.8 mm	E 240 U/C, EI 60 U/C
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	

PP pipes 50-160 / 50-60 mm Collar - U/C

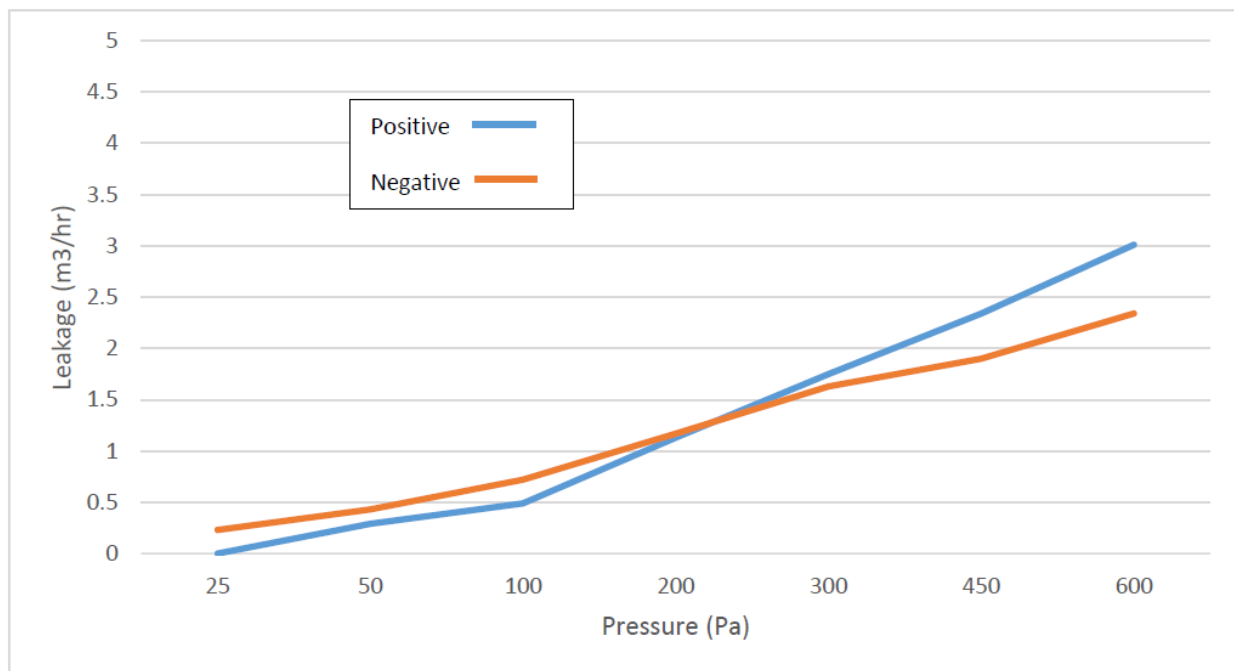


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ANNEX B – AIR PERMEABILITY – SIKASEAL-627 FIRE COLLAR+

Product tested	110mm SikaSeal-627 Fire Collar+ each face fixed with plasterboard anchors		
Summary of testing procedure		Result	
	Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)
Results under negative chamber pressure	25	0.23	N/A
	50	0.43	N/A
	100	0.72	N/A
	200	1.17	N/A
	300	1.63	N/A
	450	1.9	N/A
	600	2.34	N/A
Results under positive chamber pressure	25	0.2	N/A
	50	0.29	N/A
	100	0.49	N/A
	200	1.13	N/A
	300	1.75	N/A
	450	2.34	N/A
	600	3.01	N/A



EAD 350454-00-1104:2017

Notified Body 2531

Fire Stopping and Sealing Product: Penetration Seals

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For details see accompanying documents
EAD 350454-00-1104:2017
Notified Body 2531
Fire Stopping and Sealing Product: Penetration Seals

<http://dop.sika.com>

ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

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