

SikaSeal[®]-629 Fire Wrap

DECLARATION OF PERFORMANCE

No. 20971646

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	20971646
2	INTENDED USE/S	ETA 18/1046/ EAD 350454-00-1104:2017 Fire stopping and fire sealing products, 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, Edition 2017 Fire Stopping and Fire Sealing Products, Penetration Seals
	European Technical Assessment:	ETA 18/1046 of 23/01/2019
	Technical Assessment Body:	Warrington Fire Testing and Certification Limited
	Notified body/ies:	1121, 2812

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7 DECLARED PERFORMANCE/S

The assessment of fitness for use has been made in accordance with EAD 350454-00-1104

Product Type: Wrap		Intended use: Pipe closure device
Basic requirement for construction work	Basic Requirement	Performance
BWR 1 Mechanical resistance and stability		
	None	Not relevant
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	Class E
EN 13501-2	Resistance to fire	Annex A
BWR 3 Hygiene, Health and the Environment		
EN 1026:2000	Air permeability	No performance determined
EAD 350454-00-1104	Water permeability	No performance determined
Declaration by manufacturer	Release of dangerous substances	Use category IA1, S/W3 Declaration of manufacturer
BWR 4 Safety in use		
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/movement	No performance determined
EOTA TR 001:2003	Adhesion	No performance determined
BWR 5 Protection against noise		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	No performance determined
BWR 6 Energy, Economy and Heat Retention		
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN12086	Water vapour permeability	No performance determined
General aspects relating to fitness for use		
EOTA TR 024:2009	Durability and serviceability	X
BWR 7 Sustainable use of natural resources		
		No performance determined

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Annex A

Resistance to Fire Classification of SikaSeal® - 629 Fire Wrap

A.1 Intumescent Thickness

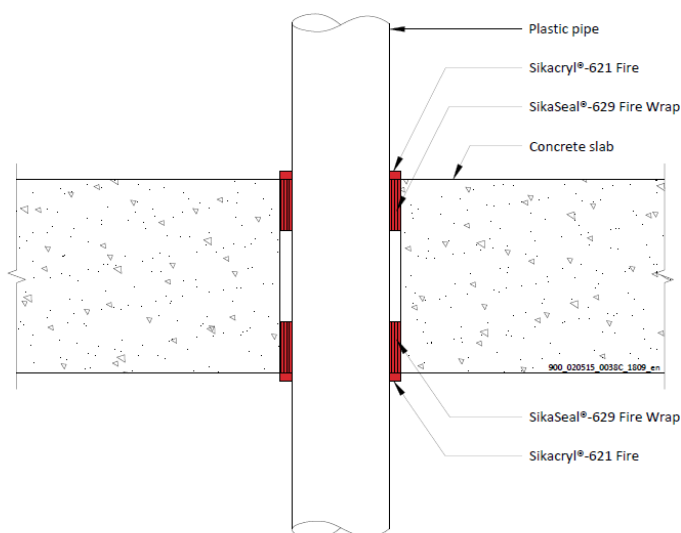
The permitted thickness of the intumescent material for various ranges of pipe diameters:

Intumescent Thickness	
Pipe Diameter	Intumescent Material
ø 32 mm - ø 50 mm	1 off 40 mm (W) x 2 (T)
ø 50 mm - ø 82 mm	2 off 40 mm (W) x 2 (T)
ø 82 mm - ø 115 mm	3 off 40 mm (W) x 2 (T)
ø 115 mm - ø 160 mm	4 off 40 mm (W) x 2 (T)
ø 160 mm - ø 200 mm	5 off 40 mm (W) x 2 (T)
ø 200 mm - ø 250 mm	6 off 40 mm (W) x 2 (T)

A.2 Floor construction with thickness of minimum 150 mm

A.2.1 Penetration seal with SikaSeal® - 629 Fire Wrap installed within both sides of rigid floor

Construction details: Combustible pipes installed with a single SikaSeal® - 629 Fire Wrap within both sides. Maximum annular space according to the tables listed in A.2.1.1 to A.2.1.3 filled with Sikacryl® - 621 Fire.



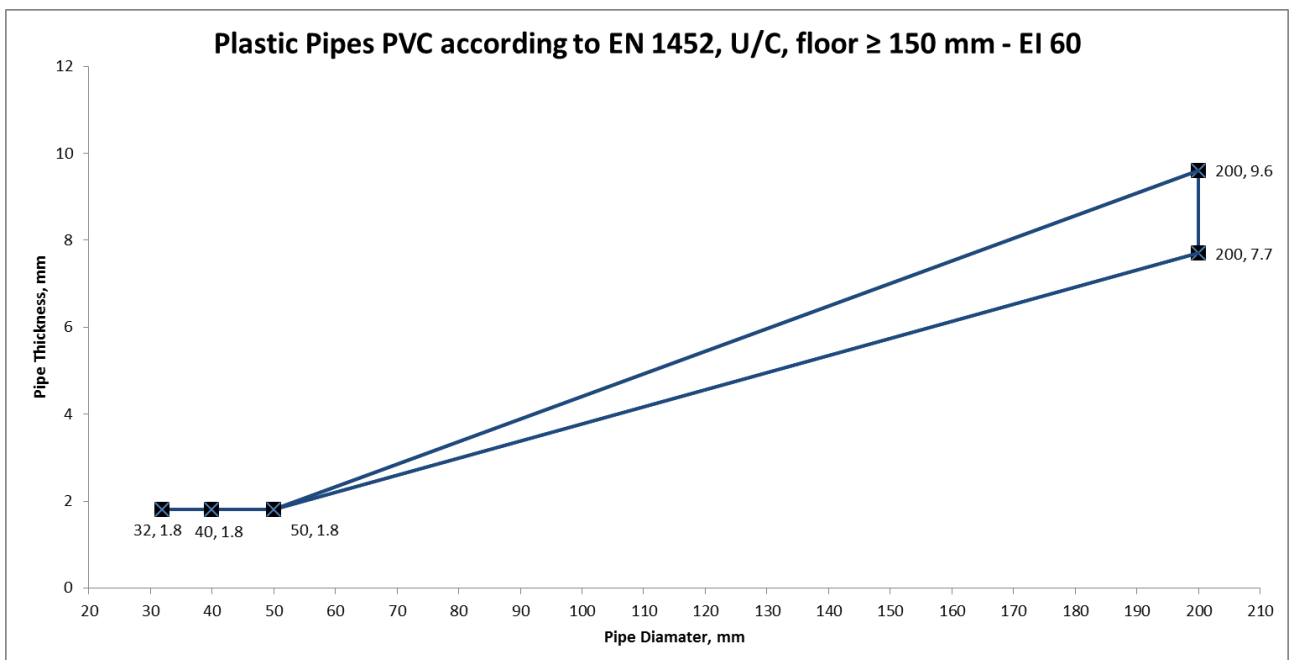
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A.2.1.1 PVC-U pipes with SikaSeal® - 629 Fire Wrap installed within both sides of rigid floor

PVC pipes according to EN 1452 with SikaSeal® - 629 Fire Wrap.

SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Rigid Floor (min 150 mm thick) PVC Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PVC Pipe 32 mm ϕ 1.8 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PVC Pipe 40 mm ϕ 1.8 mm wall thickness			
PVC Pipe 50 mm ϕ 1.8 mm wall thickness			
PVC Pipe 200 mm ϕ 7.7 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	E 120 U/C
PVC Pipe 200 mm ϕ 9.6 mm wall thickness			EI 90 U/C
			EI 60 U/C



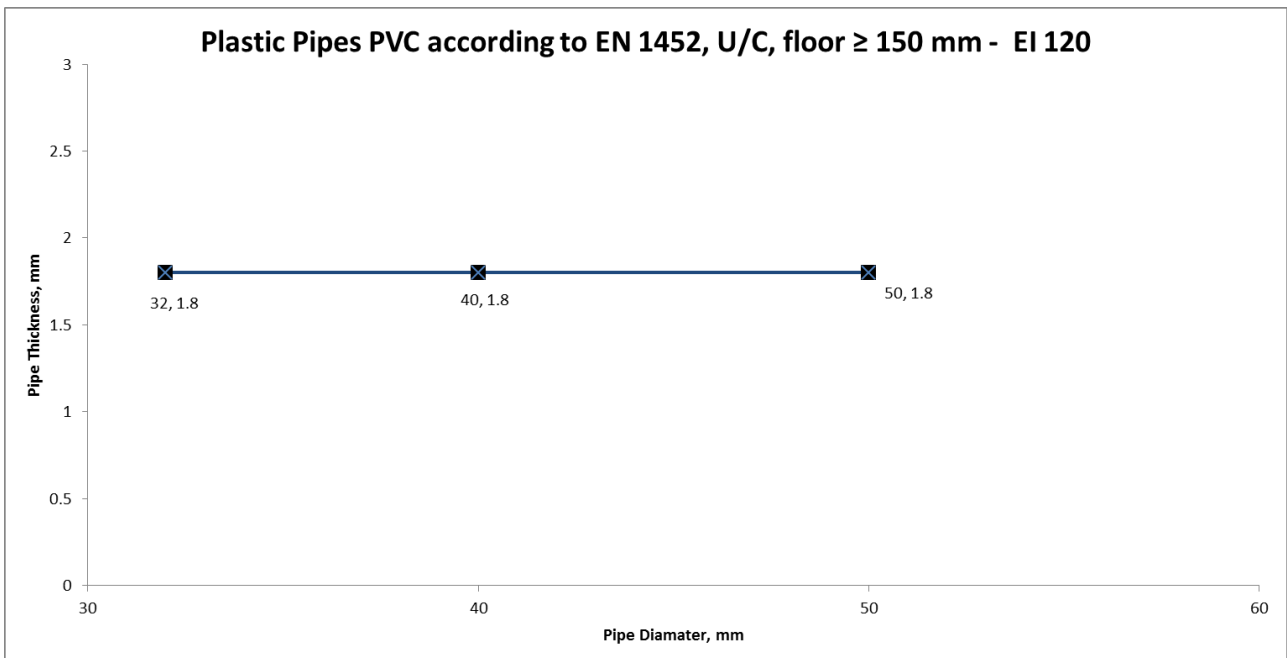
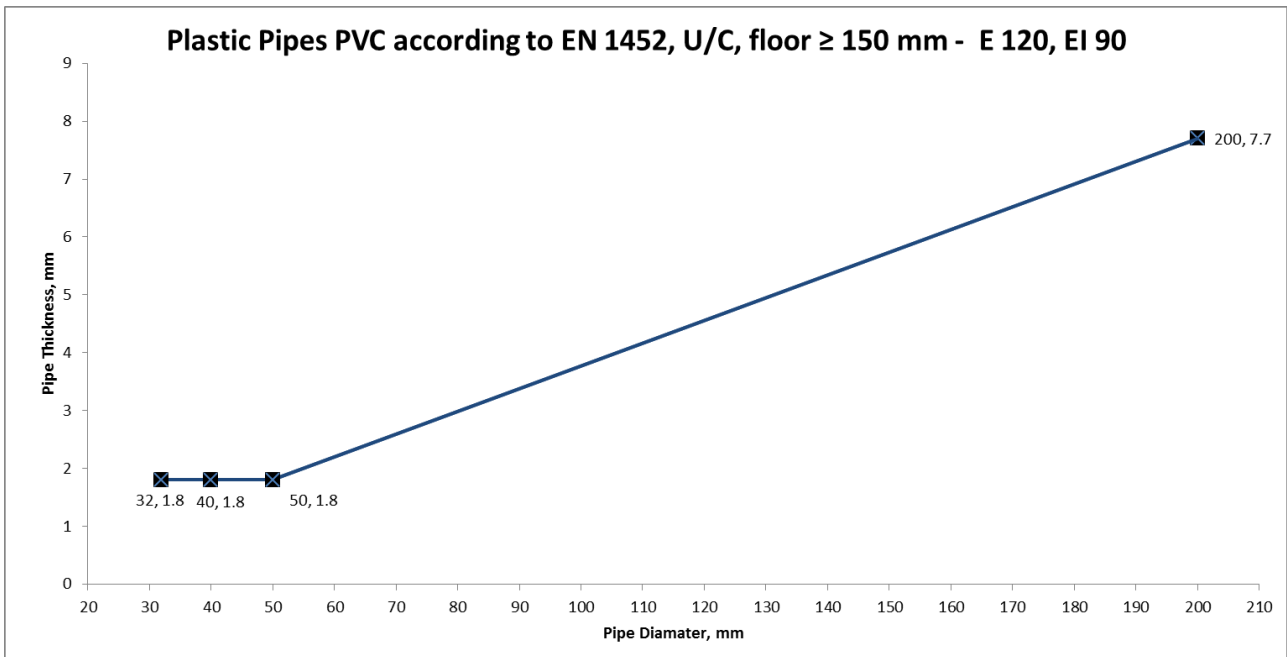
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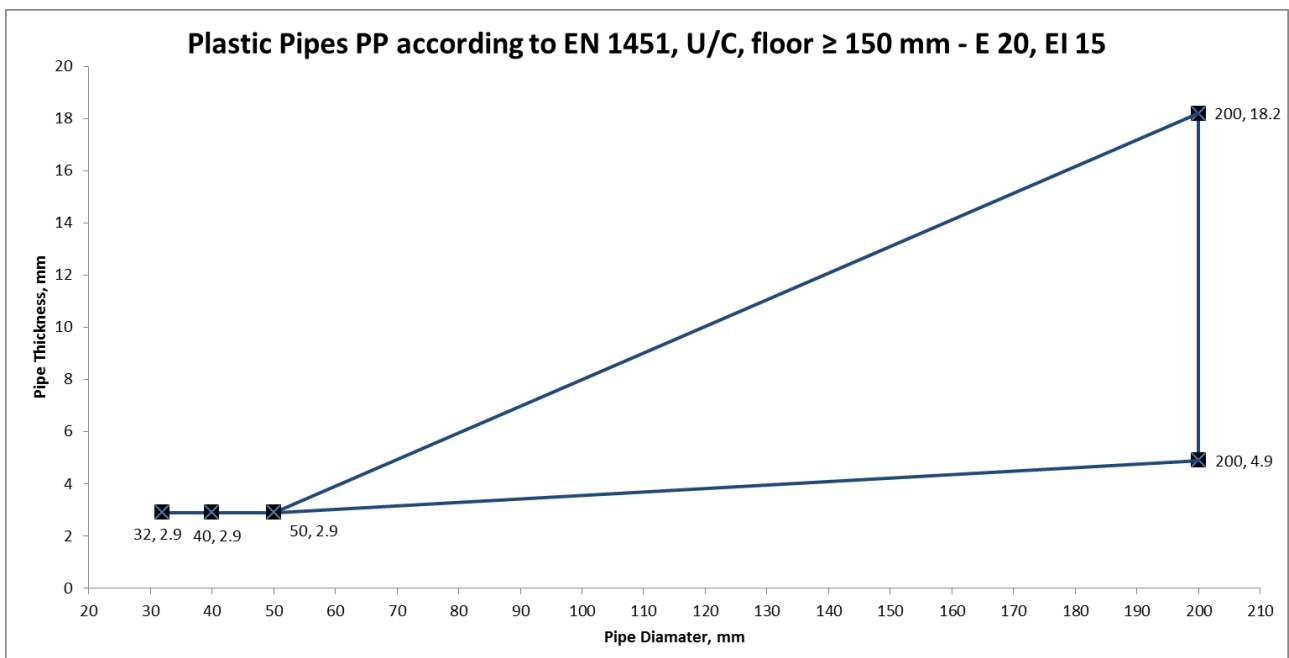
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A.2.1.2 PP pipes with SikaSeal® - 629 Fire Wrap installed within both sides of rigid floor

PP pipes according to EN 1451 with SikaSeal® - 629 Fire Wrap.

SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Rigid Floor (min 150 mm thick) PP Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PP Pipe 32 mm ϕ 2.9 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PP Pipe 40 mm ϕ 2.9 mm wall thickness			
PP Pipe 50 mm ϕ 2.9 mm wall thickness			
PP Pipe 200 mm ϕ 4.9 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	E 20 U/C
PP Pipe 200 mm ϕ 18.2 mm wall thickness			EI 15 U/C
			E 120 U/C
			EI 90 U/C



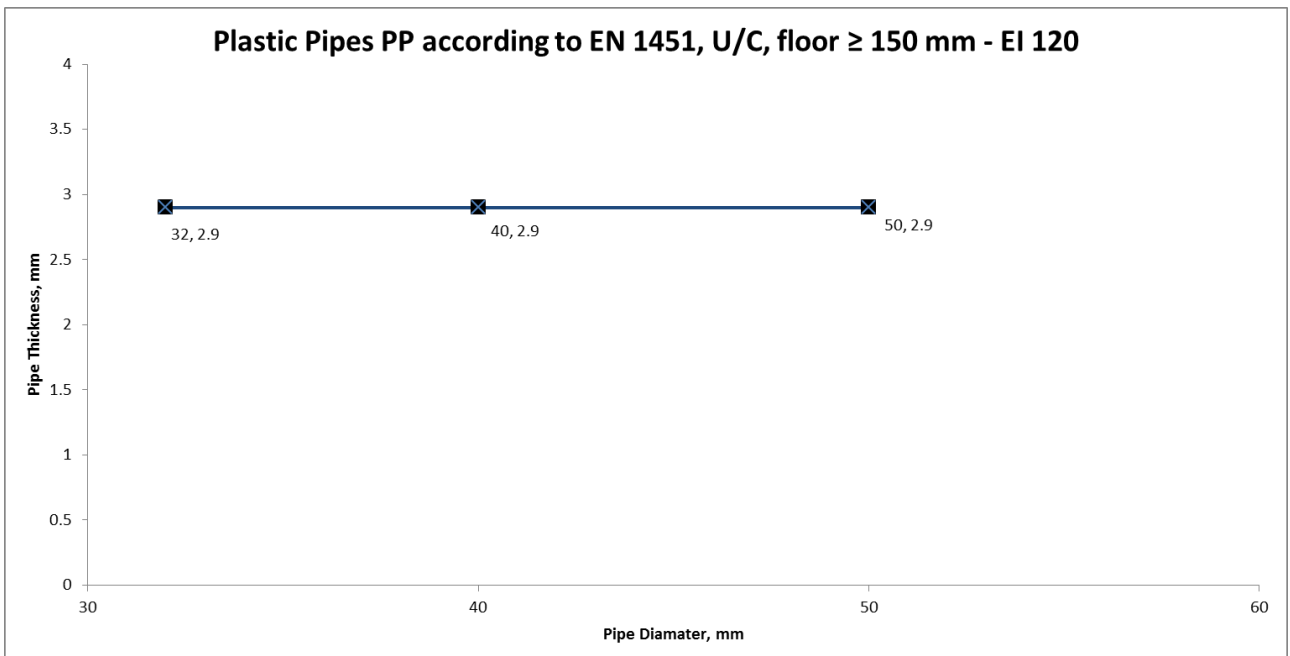
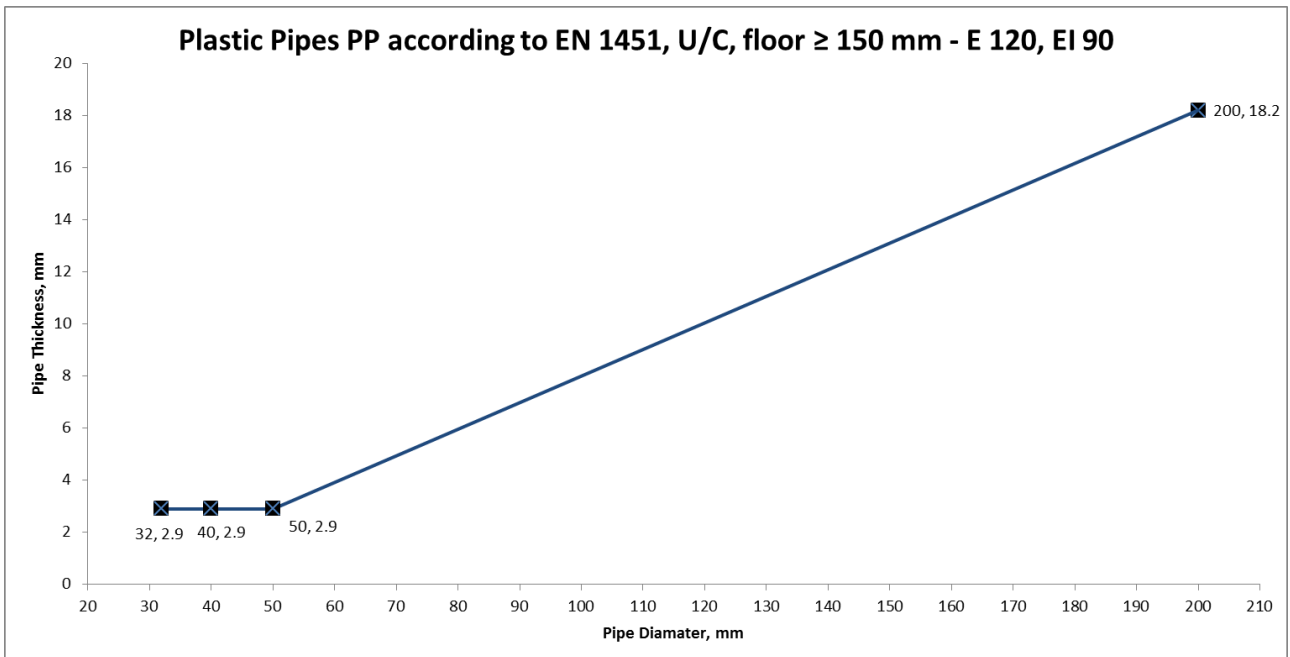
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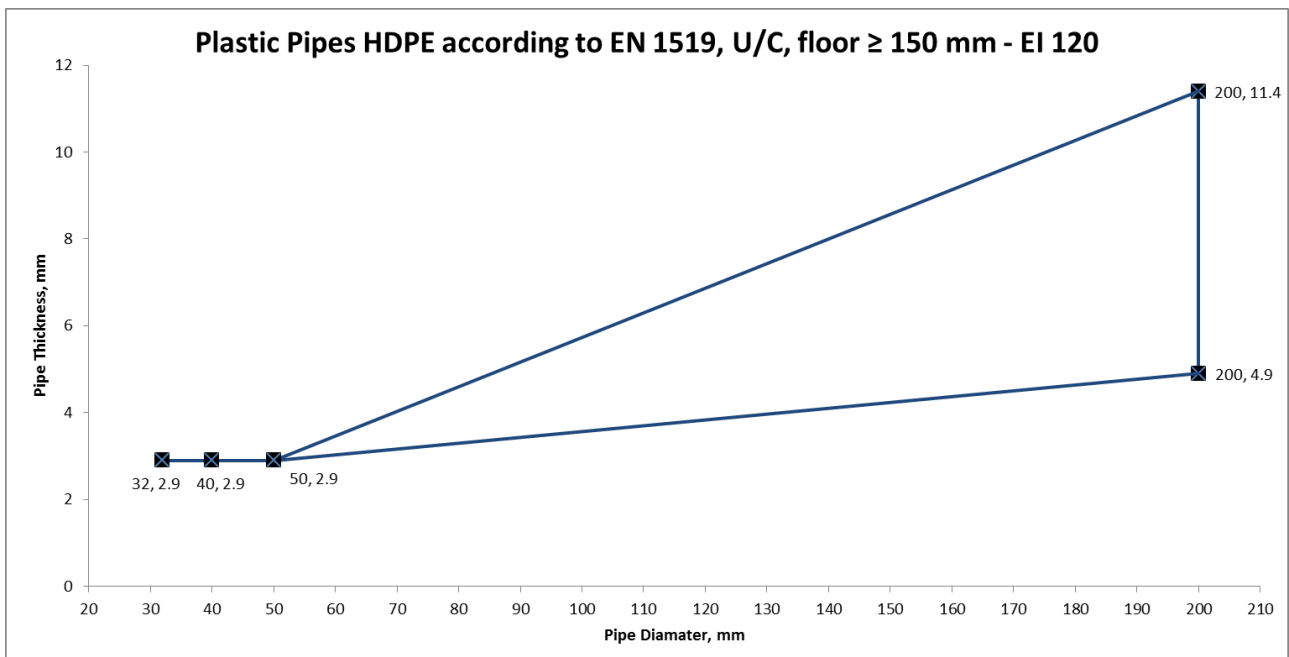
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A.2.1.3 HDPE pipes with SikaSeal® - 629 Fire Wrap installed within both sides of rigid floor

HDPE pipes according to EN 1519 with SikaSeal® - 629 Fire Wrap.

SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Rigid Floor (min 150 mm thick) HDPE Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
HDPE Pipe 32 mm ø 2.9 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
HDPE Pipe 40 mm ø 2.9 mm wall thickness			
HDPE Pipe 50 mm ø 2.9 mm wall thickness			
HDPE Pipe 200 mm ø 4.9 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	
HDPE Pipe 200 mm ø 11.4 mm wall thickness			



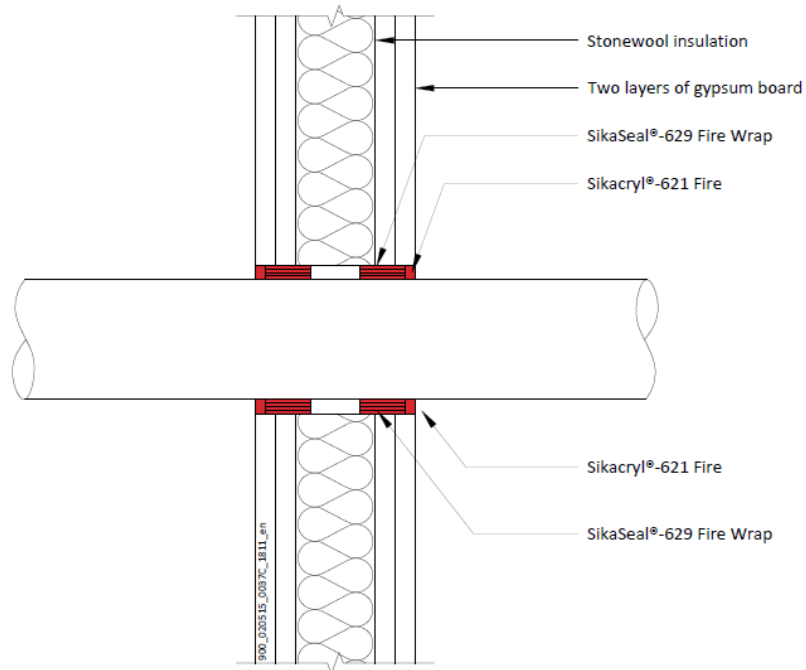
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A.3 Wall construction with thickness of minimum 100 mm

A.3.1 Penetration seal with SikaSeal® - 629 Fire Wrap installed within both sides of flexible or rigid wall

Construction details: Combustible pipes installed with a single SikaSeal® - 629 Fire Wrap within both sides. Maximum annular space according to the tables listed in A.3.1.1 to A.3.1.3 filled with Sikacryl® - 621 Fire.



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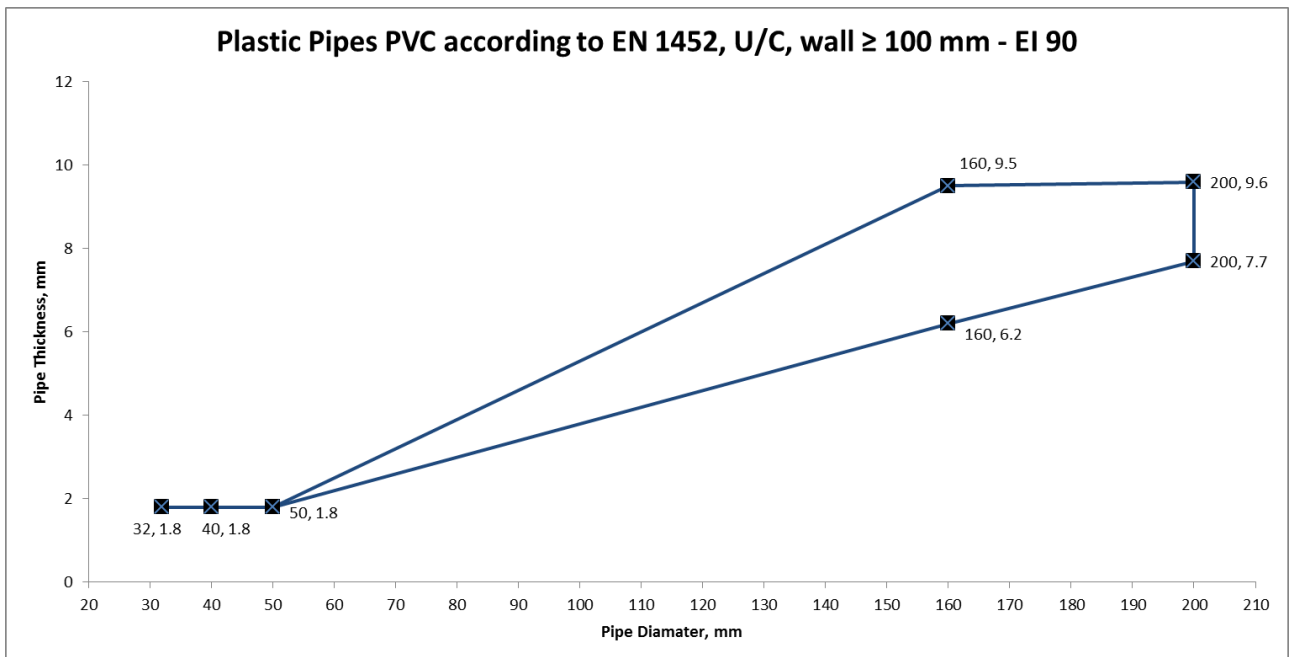
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A.3.1.1 PVC pipes with SikaSeal® - 629 Fire Wrap installed within both sides of flexible or rigid wall

PVC pipes according to EN 1452 with SikaSeal® - 629 Fire Wrap.

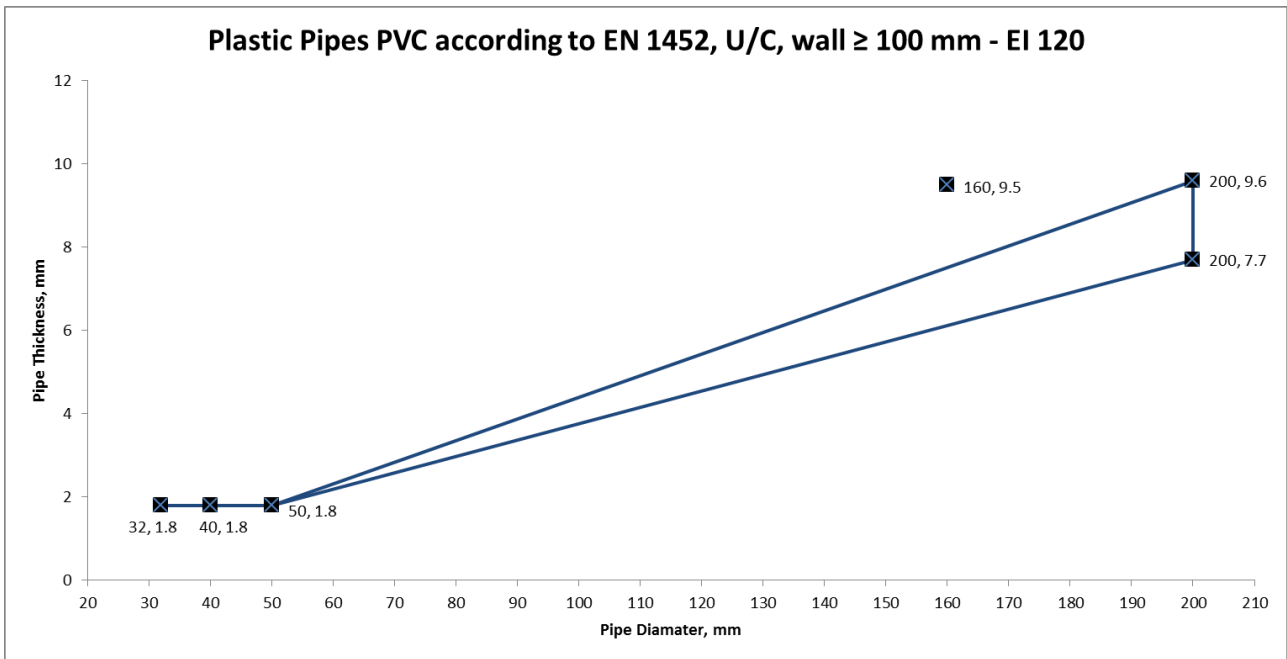
SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Flexible or Rigid Wall (min 100 mm thick) PVC Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PVC Pipe 32 mm ϕ 1.8 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PVC Pipe 40 mm ϕ 1.8 mm wall thickness			
PVC Pipe 50 mm ϕ 1.8 mm wall thickness			
PVC Pipe 160 mm ϕ 6.2 mm wall thickness	4 off 40 mm (W) x 2 mm (T)	10	EI 90 U/C
PVC Pipe 160 mm ϕ 9.5 mm wall thickness			EI 120 U/C
PVC Pipe 200 mm ϕ 7.7 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	
PVC Pipe 200 mm ϕ 9.6 mm wall thickness			



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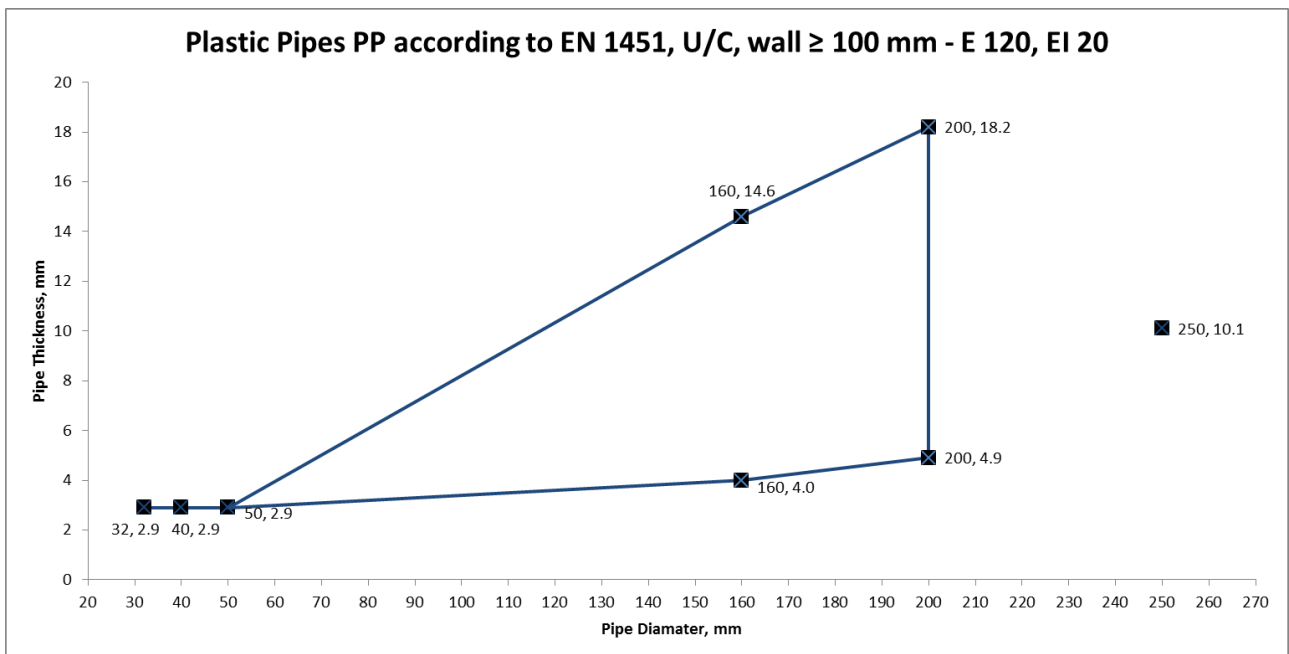
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A.3.1.2 PP pipes with SikaSeal® - 629 Fire Wrap installed within both sides of flexible or rigid wall

PP pipes according to EN 1451 with SikaSeal® - 629 Fire Wrap.

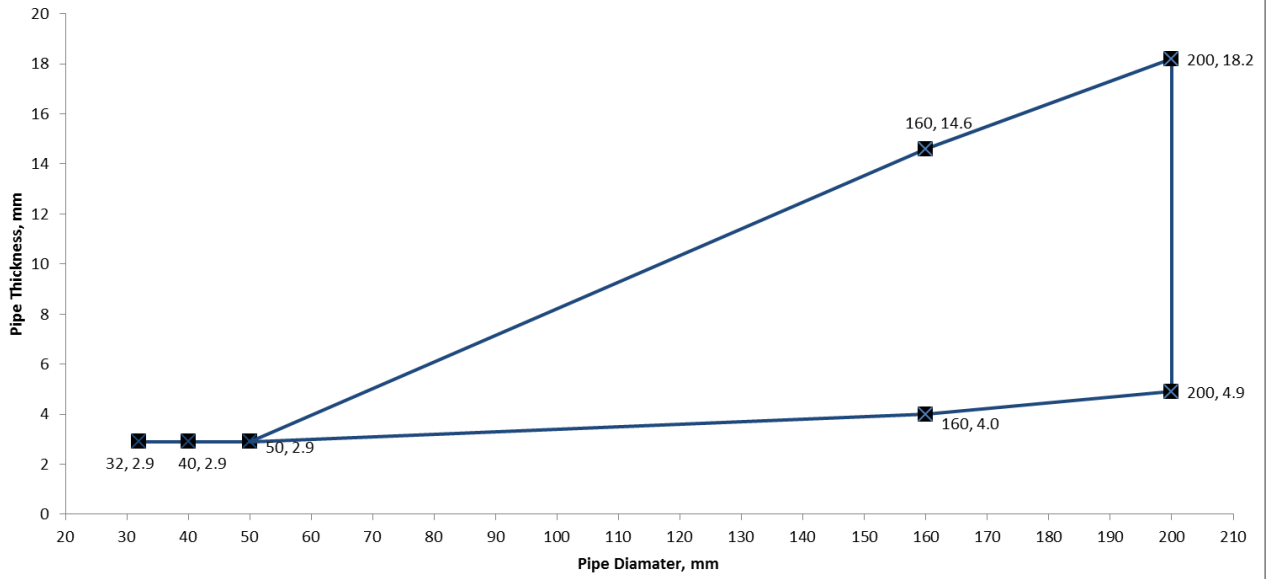
SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Flexible or Rigid Wall (min 100 mm thick) PP Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PP Pipe 32 mm ϕ 2.9 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PP Pipe 40 mm ϕ 2.9 mm wall thickness			
PP Pipe 50 mm ϕ 2.9 mm wall thickness			
PP Pipe 160 mm ϕ 4.0 mm wall thickness	4 off 40 mm (W) x 2 mm (T)	10	E 120 U/C
PP Pipe 160 mm ϕ 14.6 mm wall thickness			EI 120 U/C
PP Pipe 200 mm ϕ 4.9 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	E 120 U/C
PP Pipe 200 mm ϕ 18.2 mm wall thickness			EI 120 U/C
PP Pipe 250 mm ϕ 10.1 mm wall thickness	6 off 40 mm (W) x 2 mm (T)	14	E 120 U/C EI 20 U/C



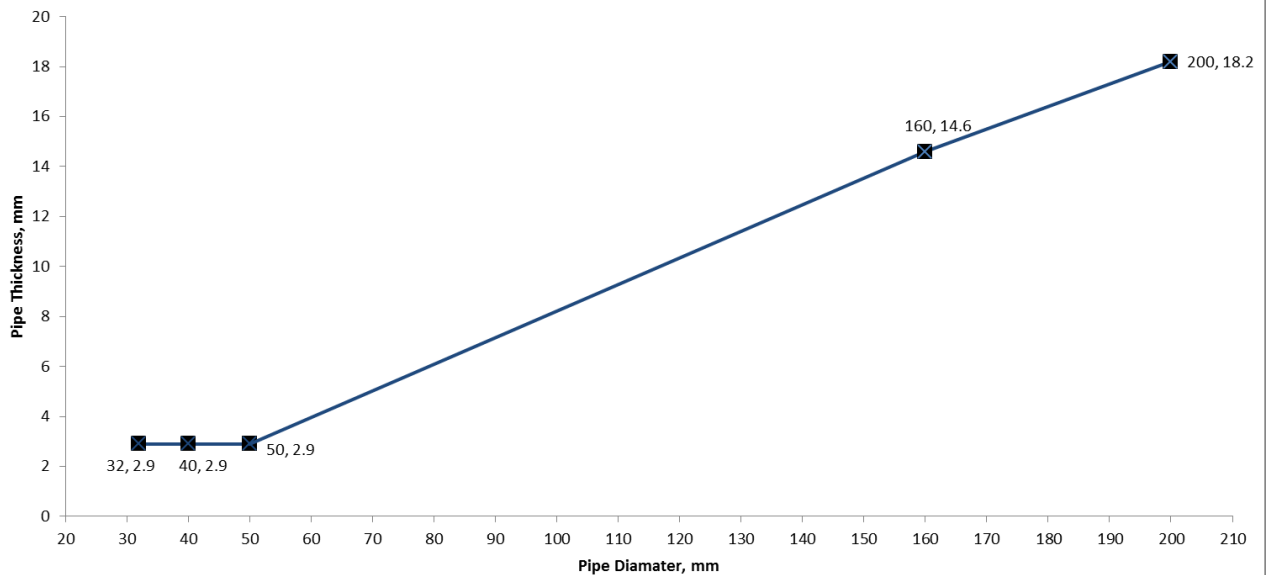
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Plastic Pipes PP according to EN 1451, U/C, wall \geq 100 mm - E 120, EI 90



Plastic Pipes PP according to EN 1451, U/C, wall \geq 100 mm - EI 120



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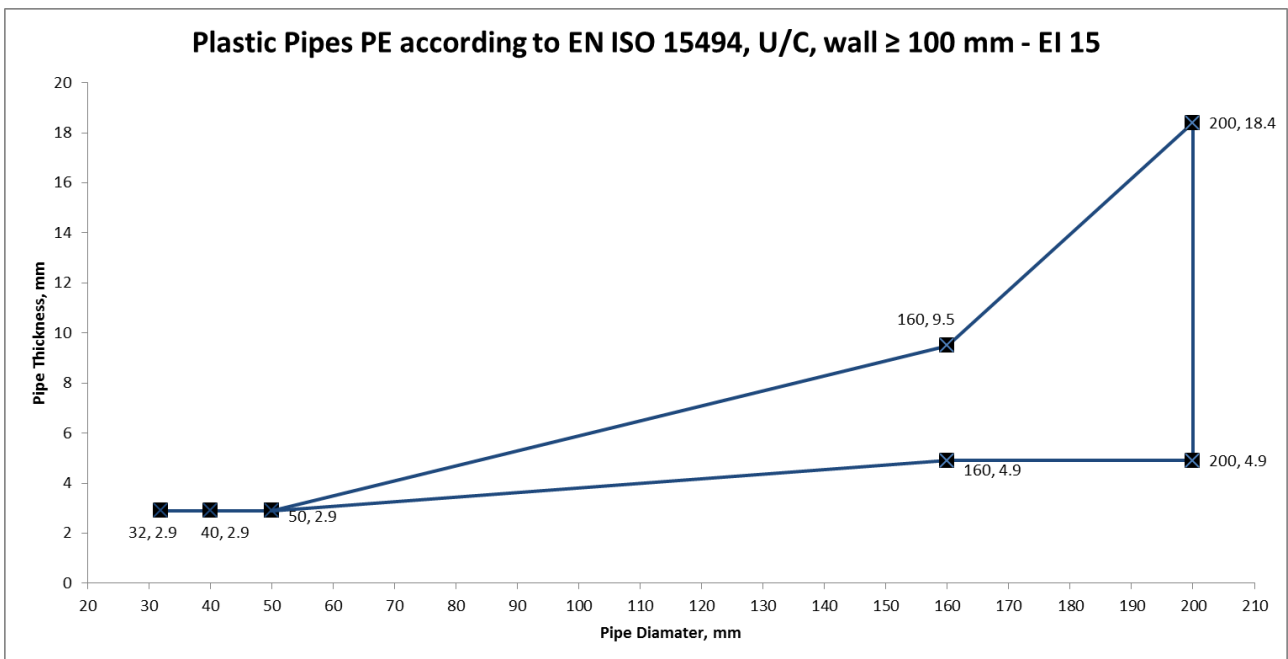
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A.3.1.3 PE pipes with SikaSeal® - 629 Fire Wrap installed within both sides of flexible or rigid wall

PE pipes according to EN ISO 15494 with SikaSeal® - 629 Fire Wrap.

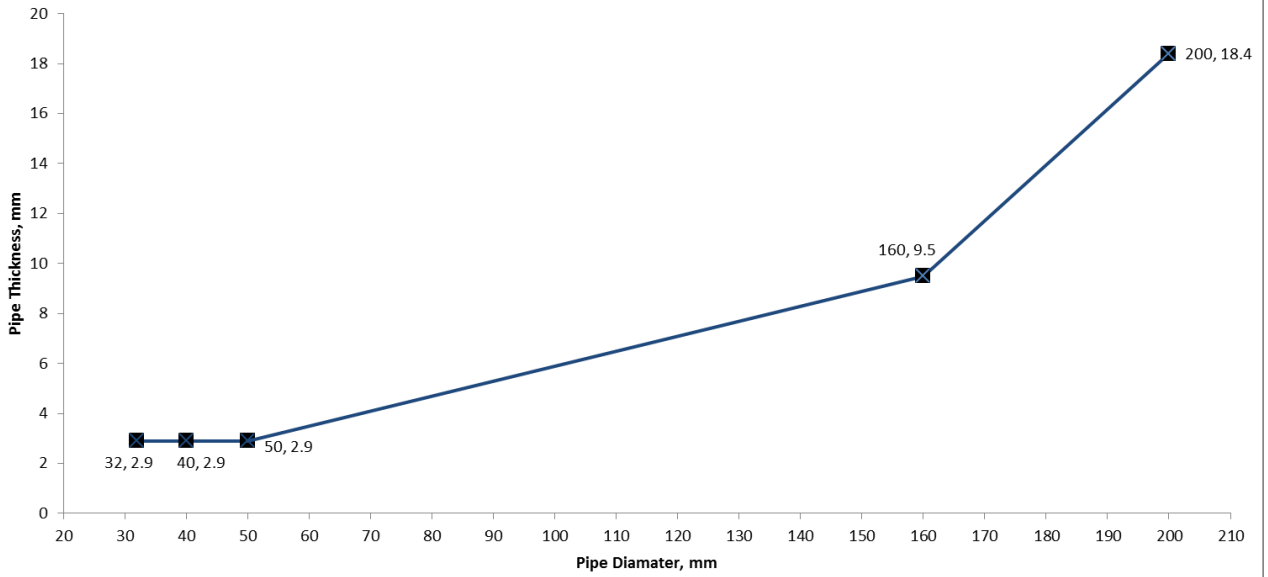
SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Flexible or Rigid Wall (min 100 mm thick) PE Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PE Pipe 32 mm ϕ 2.9 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PE Pipe 40 mm ϕ 2.9 mm wall thickness			
PE Pipe 50 mm ϕ 2.9 mm wall thickness			
PE Pipe 160 mm ϕ 4.9 mm wall thickness	4 off 40 mm (W) x 2 mm (T)	10	EI 15 U/C
PE Pipe 160 mm ϕ 9.5 mm wall thickness			EI 90 U/C
PE Pipe 200 mm ϕ 4.9 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	EI 15 U/C
PE Pipe 200 mm ϕ 18.4 mm wall thickness			EI 120 U/C



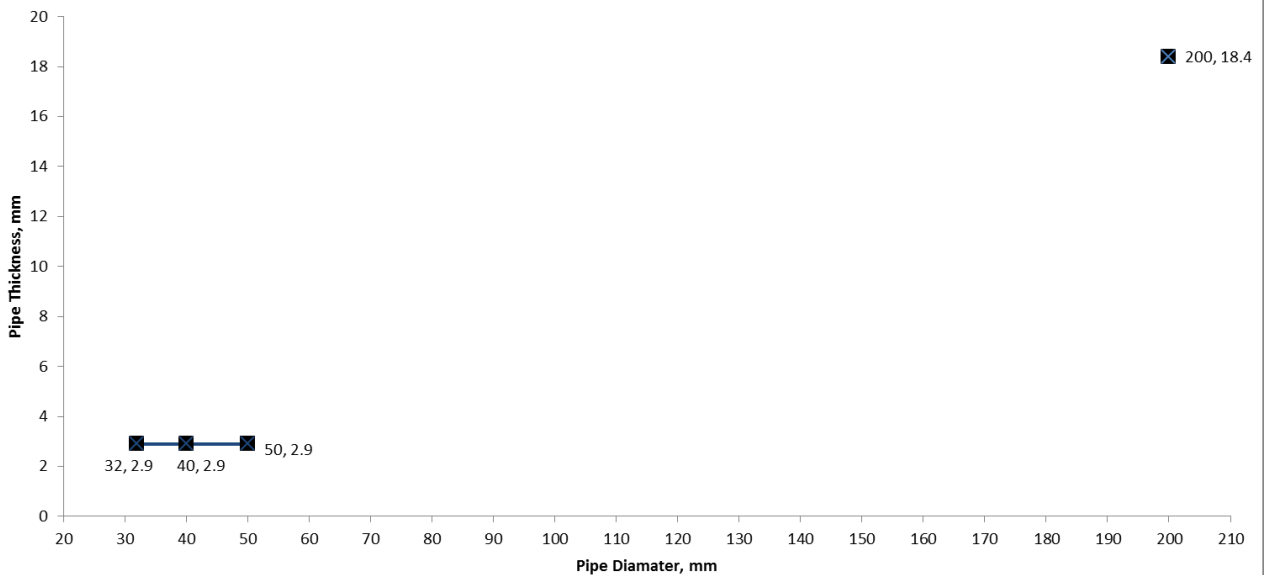
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Plastic Pipes PE according to EN ISO 15494, U/C, wall \geq 100 mm - EI 90



Plastic Pipes PE according to EN ISO 15494, U/C, wall \geq 100 mm - EI 120



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**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.

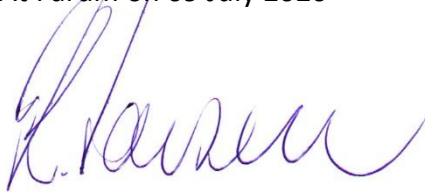
Signed for and on behalf of the manufacturer by:

Name : Anders Beier
Function: General Manager
At Farum on 09 July 2020



.....


Name : Kristian Larsen
Function: Head Sealing and Bonding
At Farum on 09 July 2020



.....

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

FULL CE MARKING

 19
Sika Services AG, Zurich, Switzerland
20971646
EAD 350454-00-1104:2017
1121, 2812
Fire stopping and fire sealing products, penetration seals

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The assessment of fitness for use has been made in accordance with EAD 350454-00-1104

Product Type: Wrap		Intended use: Pipe closure device
Basic requirement for construction work	Basic Requirement	Performance
BWR 1 Mechanical resistance and stability		
	None	Not relevant
BWR 2 Safety in case of fire		
EN 13501-1	Reaction to fire	Class E
EN 13501-2	Resistance to fire	Annex A
BWR 3 Hygiene, Health and the Environment		
EN 1026:2000	Air permeability	No performance determined
EAD 350454-00-1104	Water permeability	No performance determined
Declaration by manufacturer	Release of dangerous substances	Use category IA1, S/W3 Declaration of manufacturer
BWR 4 Safety in use		
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined
EOTA TR 001:2003	Resistance to impact/movement	No performance determined
EOTA TR 001:2003	Adhesion	No performance determined
BWR 5 Protection against noise		
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	No performance determined
BWR 6 Energy, Economy and Heat Retention		
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined
EN ISO 12572 EN12086	Water vapour permeability	No performance determined
General aspects relating to fitness for use		
EOTA TR 024:2009	Durability and serviceability	X
BWR 7 Sustainable use of natural resources		
		No performance determined

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Annex A

Resistance to Fire Classification of SikaSeal® - 629 Fire Wrap

A.1 Intumescent Thickness

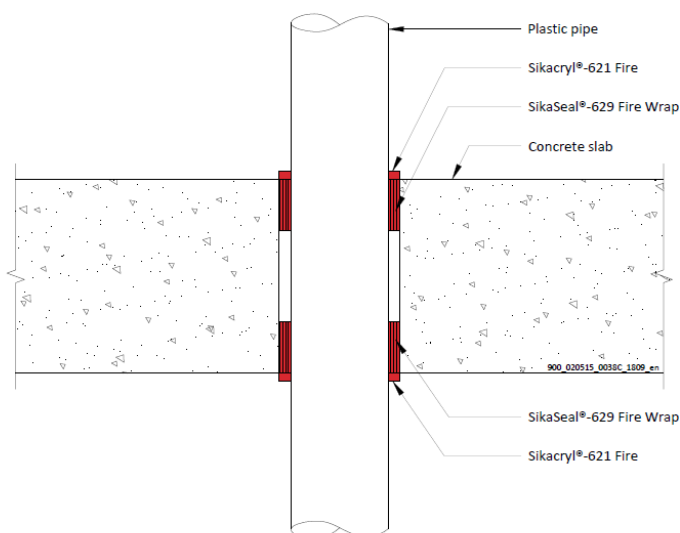
The permitted thickness of the intumescent material for various ranges of pipe diameters:

Intumescent Thickness	
Pipe Diameter	Intumescent Material
ø 32 mm - ø 50 mm	1 off 40 mm (W) x 2 (T)
ø 50 mm - ø 82 mm	2 off 40 mm (W) x 2 (T)
ø 82 mm - ø 115 mm	3 off 40 mm (W) x 2 (T)
ø 115 mm - ø 160 mm	4 off 40 mm (W) x 2 (T)
ø 160 mm - ø 200 mm	5 off 40 mm (W) x 2 (T)
ø 200 mm - ø 250 mm	6 off 40 mm (W) x 2 (T)

A.2 Floor construction with thickness of minimum 150 mm

A.2.1 Penetration seal with SikaSeal® - 629 Fire Wrap installed within both sides of rigid floor

Construction details: Combustible pipes installed with a single SikaSeal® - 629 Fire Wrap within both sides. Maximum annular space according to the tables listed in A.2.1.1 to A.2.1.3 filled with Sikacryl® - 621 Fire.



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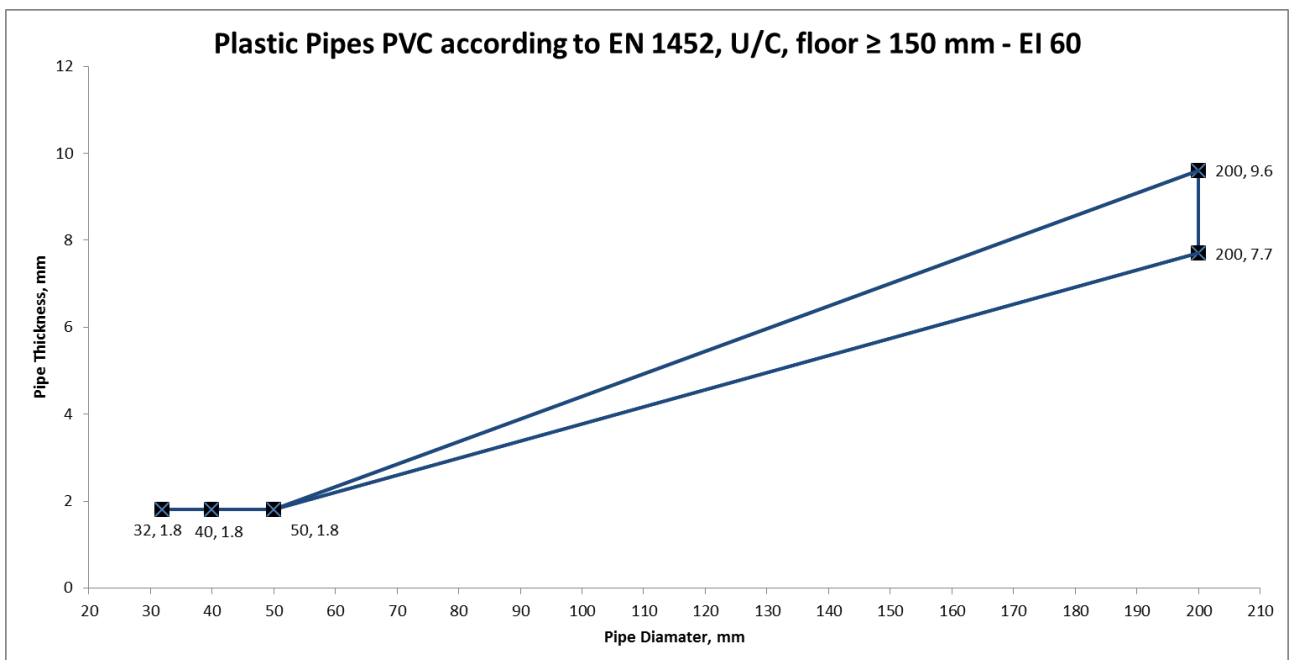
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A.2.1.1 PVC-U pipes with SikaSeal® - 629 Fire Wrap installed within both sides of rigid floor

PVC pipes according to EN 1452 with SikaSeal® - 629 Fire Wrap.

SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Rigid Floor (min 150 mm thick) PVC Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PVC Pipe 32 mm ϕ 1.8 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PVC Pipe 40 mm ϕ 1.8 mm wall thickness			
PVC Pipe 50 mm ϕ 1.8 mm wall thickness			
PVC Pipe 200 mm ϕ 7.7 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	E 120 U/C
PVC Pipe 200 mm ϕ 9.6 mm wall thickness			EI 90 U/C
			EI 60 U/C



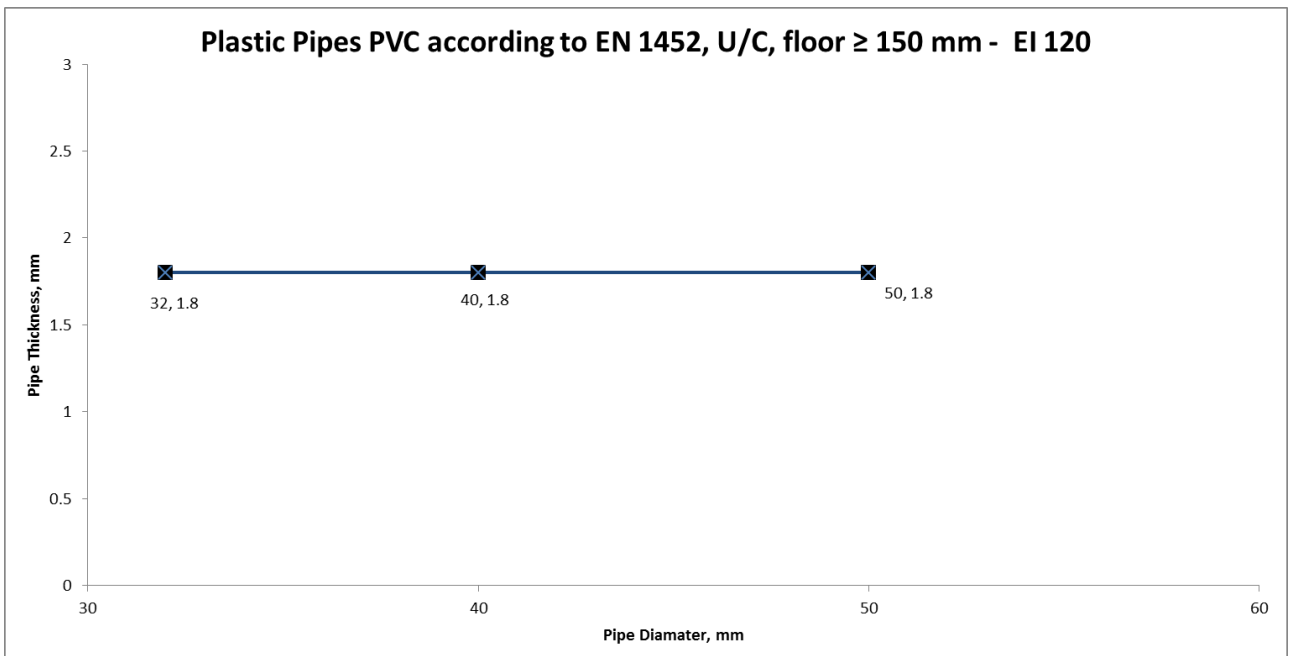
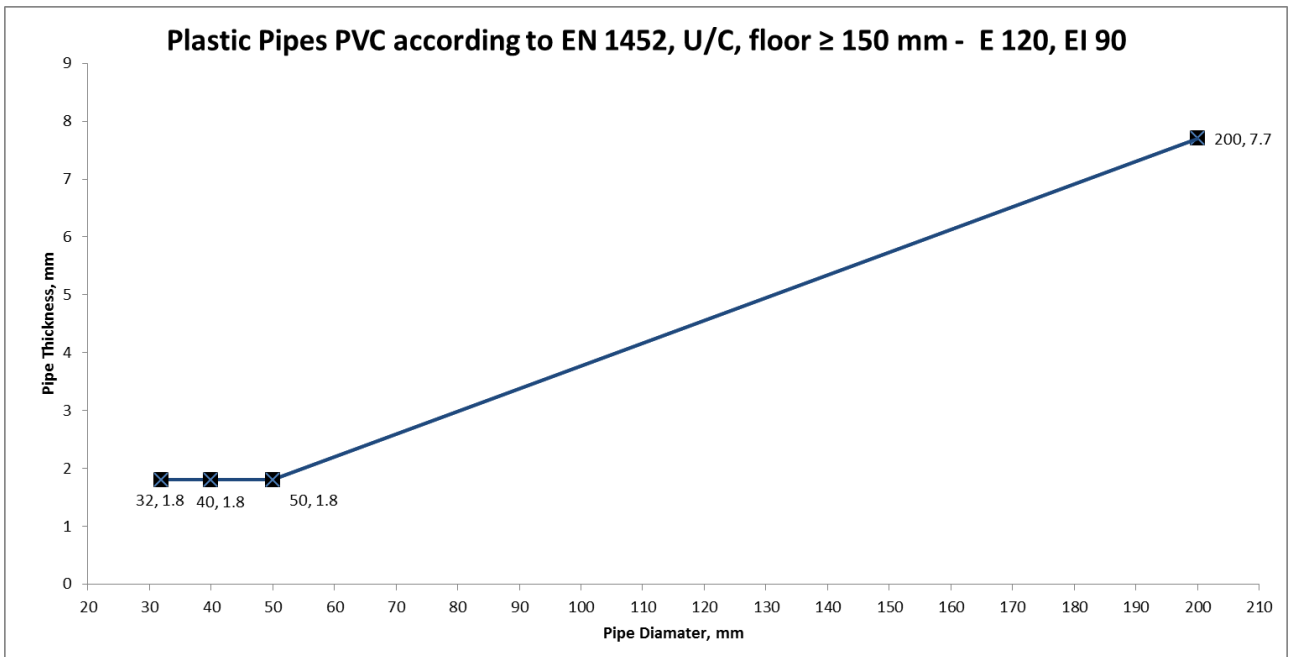
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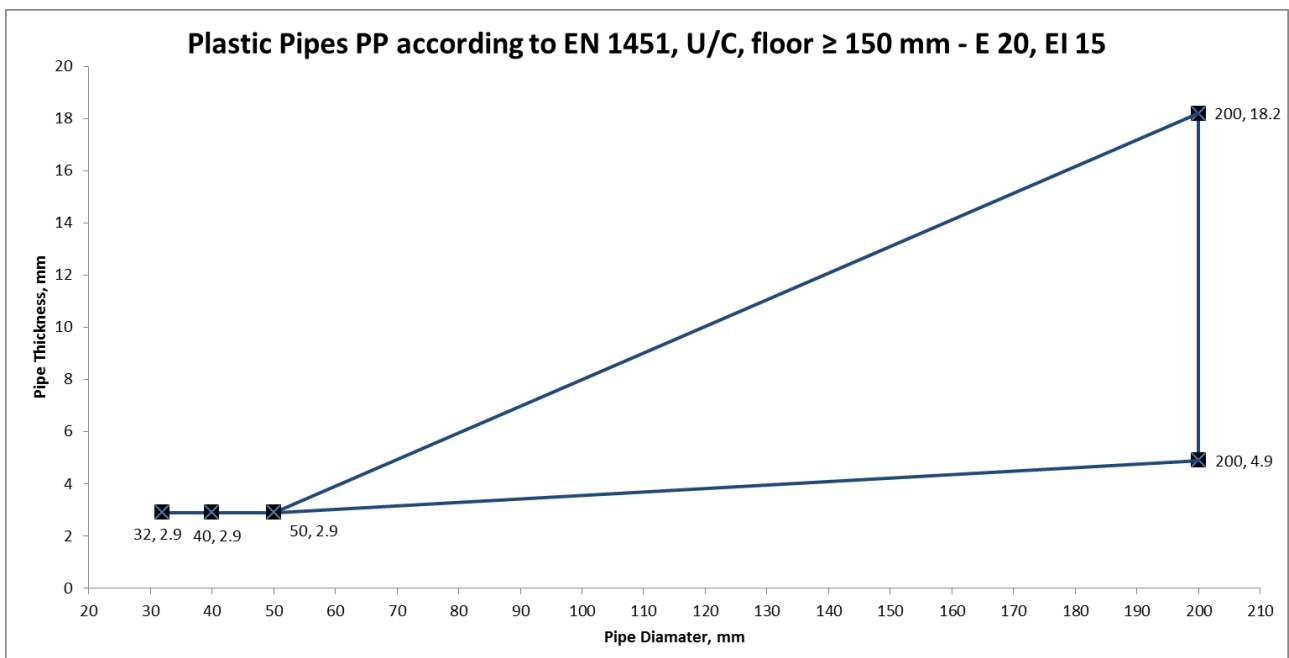
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A.2.1.2 PP pipes with SikaSeal® - 629 Fire Wrap installed within both sides of rigid floor

PP pipes according to EN 1451 with SikaSeal® - 629 Fire Wrap.

SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Rigid Floor (min 150 mm thick) PP Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PP Pipe 32 mm ϕ 2.9 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PP Pipe 40 mm ϕ 2.9 mm wall thickness			
PP Pipe 50 mm ϕ 2.9 mm wall thickness			
PP Pipe 200 mm ϕ 4.9 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	E 20 U/C
PP Pipe 200 mm ϕ 18.2 mm wall thickness			EI 15 U/C
			E 120 U/C
			EI 90 U/C



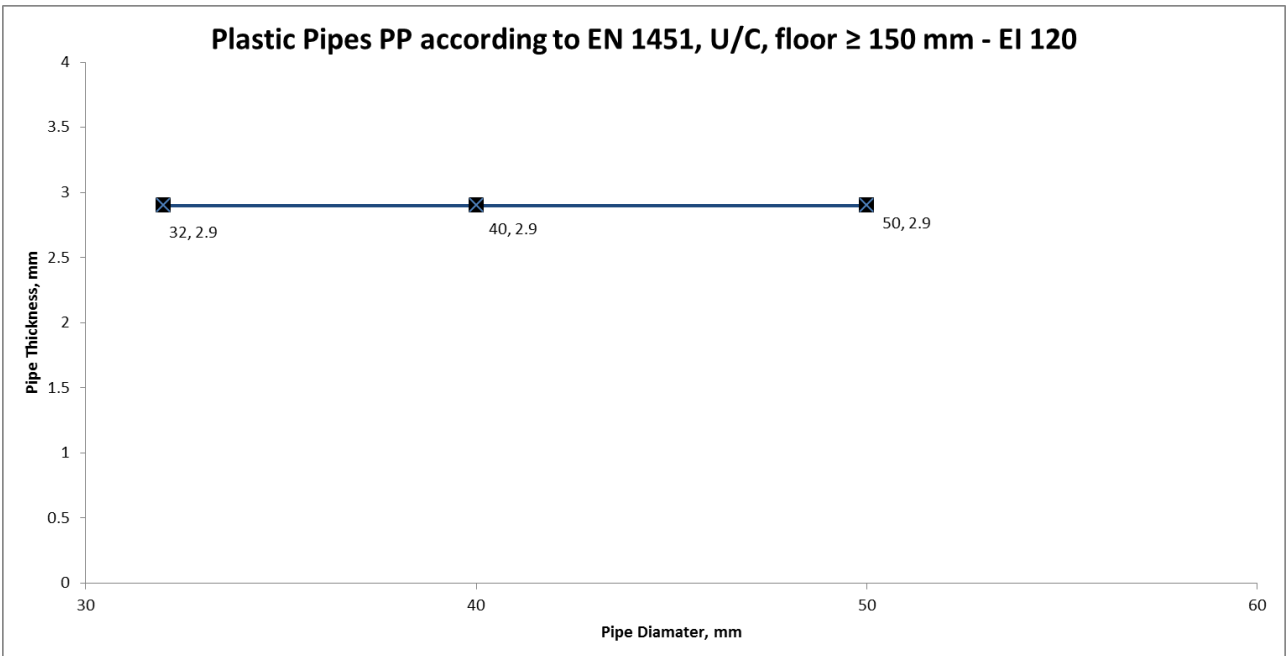
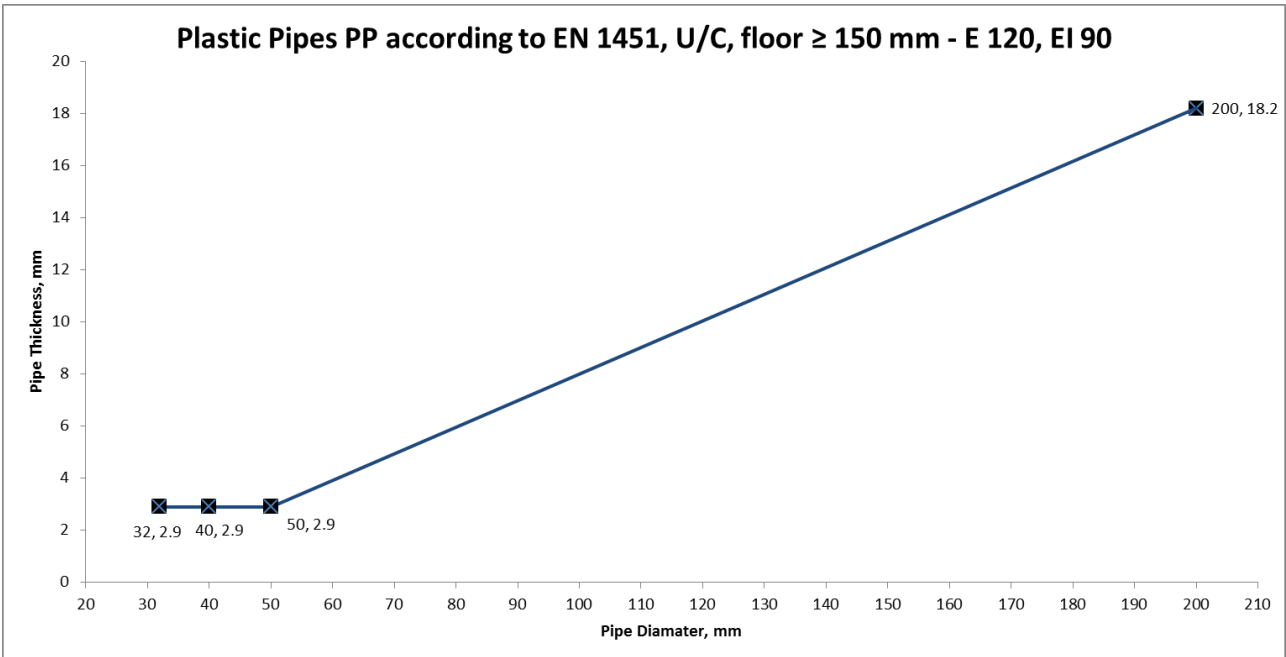
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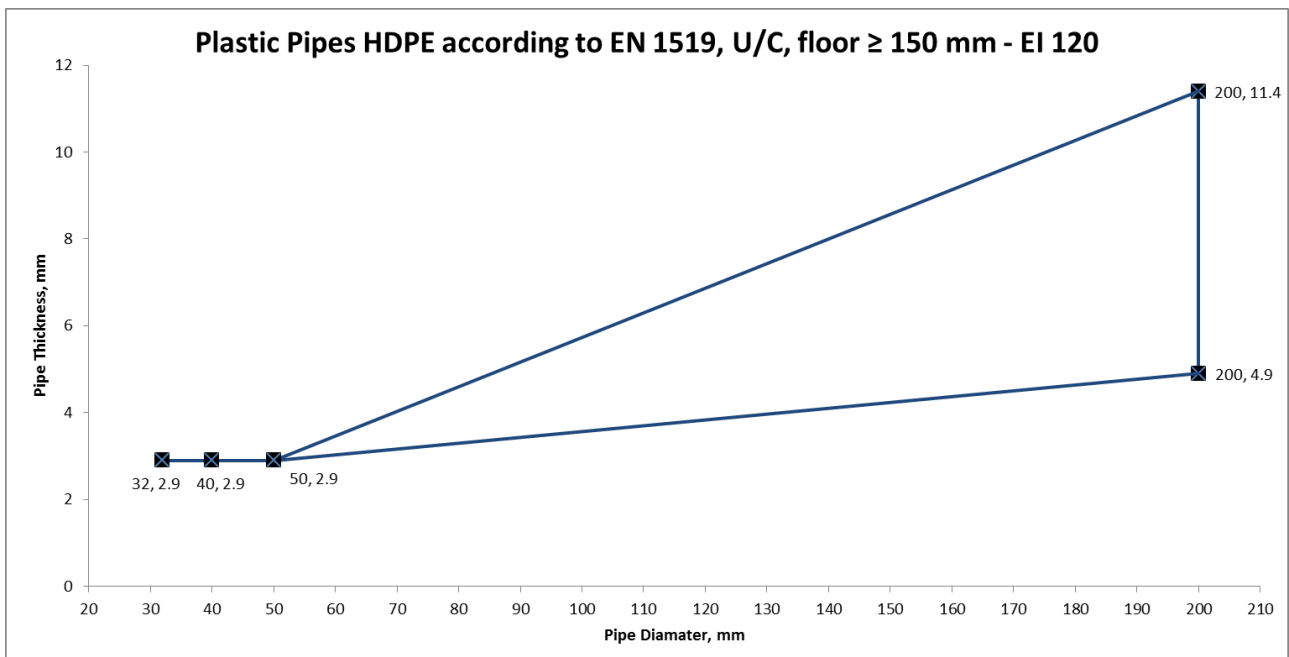
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A.2.1.3 HDPE pipes with SikaSeal® - 629 Fire Wrap installed within both sides of rigid floor

HDPE pipes according to EN 1519 with SikaSeal® - 629 Fire Wrap.

SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Rigid Floor (min 150 mm thick) HDPE Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
HDPE Pipe 32 mm ϕ 2.9 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
HDPE Pipe 40 mm ϕ 2.9 mm wall thickness			
HDPE Pipe 50 mm ϕ 2.9 mm wall thickness			
HDPE Pipe 200 mm ϕ 4.9 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	
HDPE Pipe 200 mm ϕ 11.4 mm wall thickness			



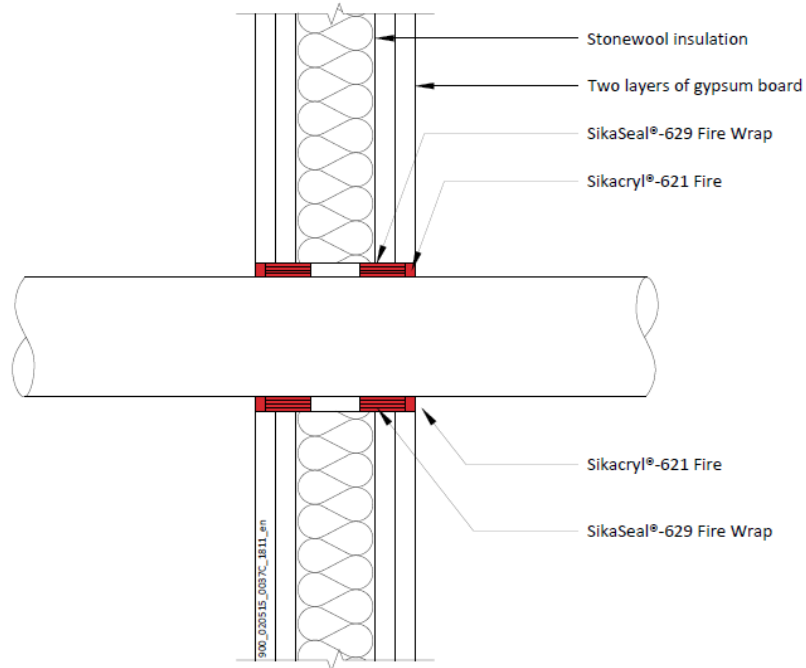
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A.3 Wall construction with thickness of minimum 100 mm

A.3.1 Penetration seal with SikaSeal® - 629 Fire Wrap installed within both sides of flexible or rigid wall

Construction details: Combustible pipes installed with a single SikaSeal® - 629 Fire Wrap within both sides.
Maximum annular space according to the tables listed in A.3.1.1 to A.3.1.3 filled with Sikacryl® - 621 Fire.



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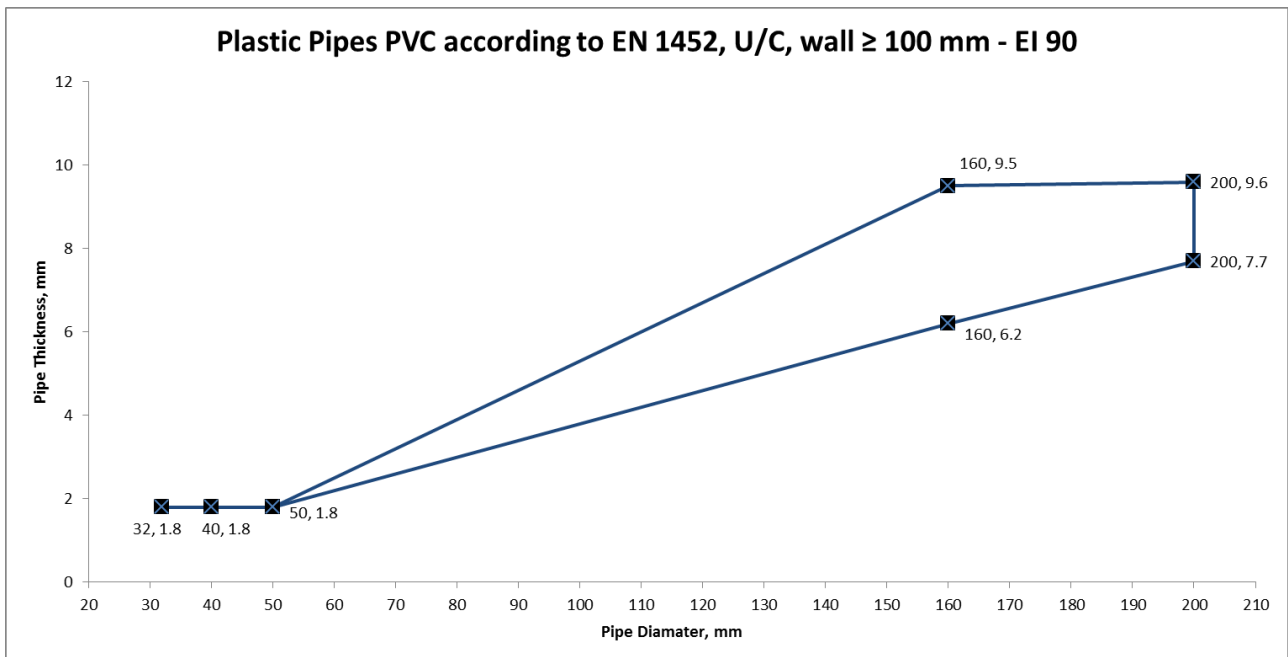
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A.3.1.1 PVC pipes with SikaSeal® - 629 Fire Wrap installed within both sides of flexible or rigid wall

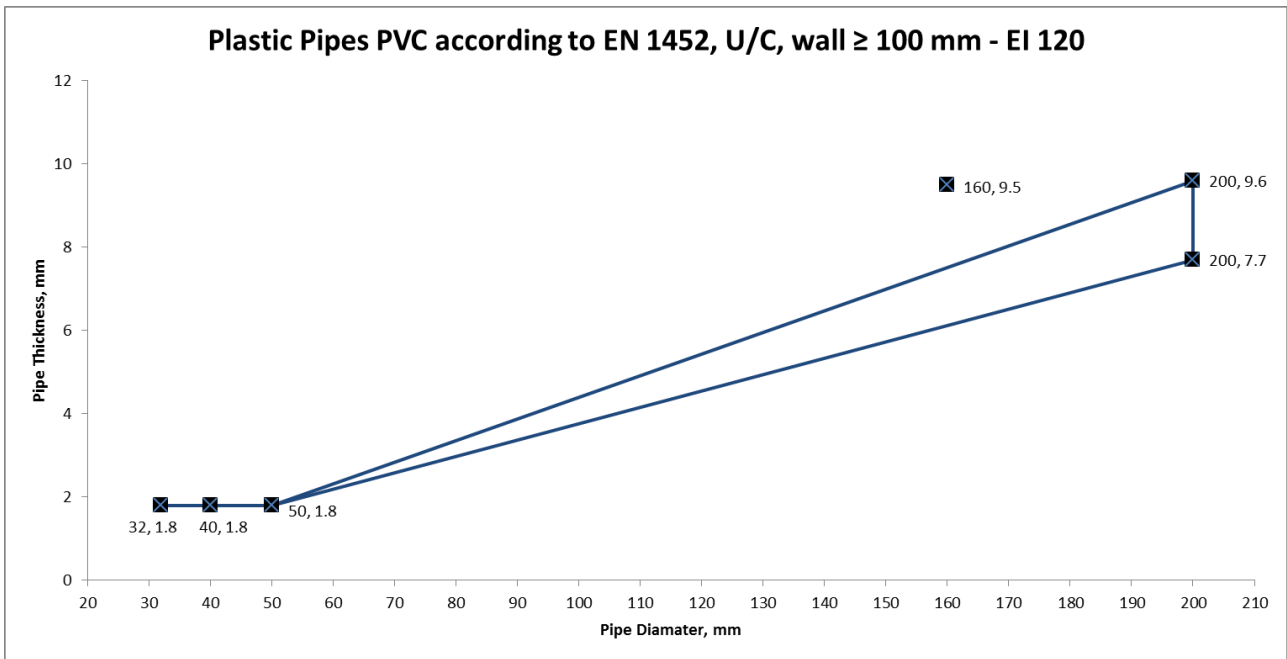
PVC pipes according to EN 1452 with SikaSeal® - 629 Fire Wrap.

SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Flexible or Rigid Wall (min 100 mm thick) PVC Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PVC Pipe 32 mm ϕ 1.8 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PVC Pipe 40 mm ϕ 1.8 mm wall thickness			
PVC Pipe 50 mm ϕ 1.8 mm wall thickness			
PVC Pipe 160 mm ϕ 6.2 mm wall thickness	4 off 40 mm (W) x 2 mm (T)	10	EI 90 U/C
PVC Pipe 160 mm ϕ 9.5 mm wall thickness			EI 120 U/C
PVC Pipe 200 mm ϕ 7.7 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	
PVC Pipe 200 mm ϕ 9.6 mm wall thickness			



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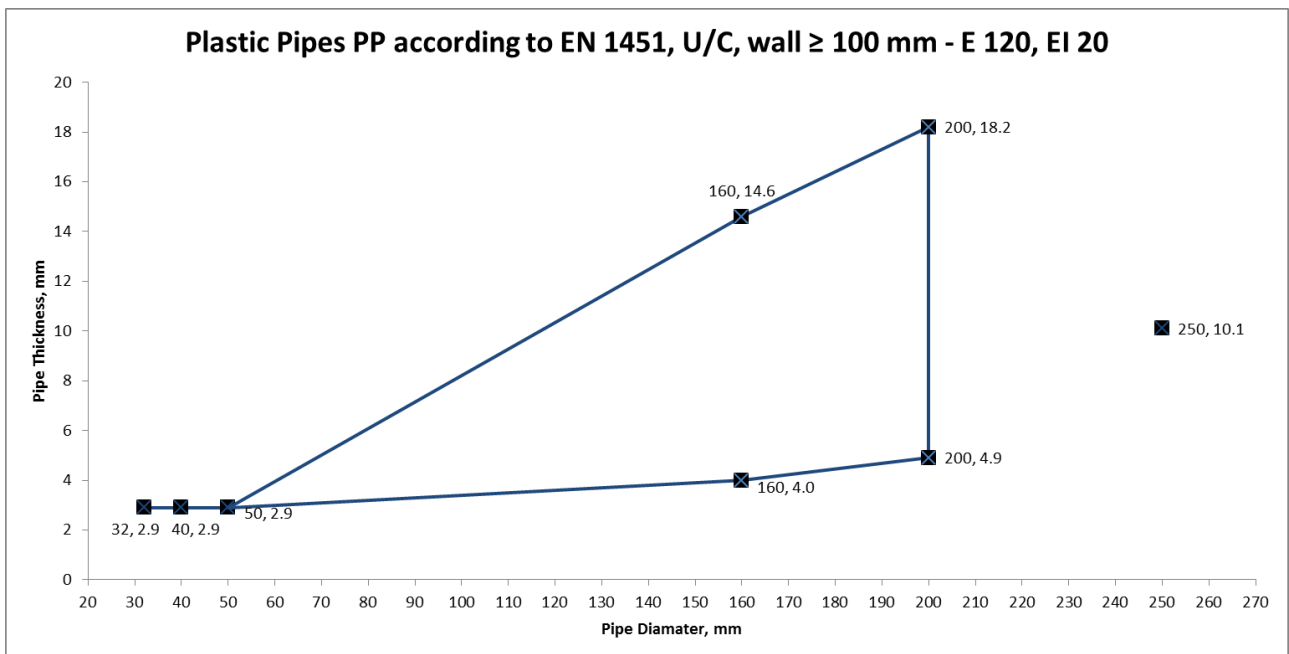
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A.3.1.2 PP pipes with SikaSeal® - 629 Fire Wrap installed within both sides of flexible or rigid wall

PP pipes according to EN 1451 with SikaSeal® - 629 Fire Wrap.

SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Flexible or Rigid Wall (min 100 mm thick) PP Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PP Pipe 32 mm ϕ 2.9 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PP Pipe 40 mm ϕ 2.9 mm wall thickness			
PP Pipe 50 mm ϕ 2.9 mm wall thickness			
PP Pipe 160 mm ϕ 4.0 mm wall thickness	4 off 40 mm (W) x 2 mm (T)	10	E 120 U/C
PP Pipe 160 mm ϕ 14.6 mm wall thickness			EI 120 U/C
PP Pipe 200 mm ϕ 4.9 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	E 120 U/C
PP Pipe 200 mm ϕ 18.2 mm wall thickness			EI 120 U/C
PP Pipe 250 mm ϕ 10.1 mm wall thickness	6 off 40 mm (W) x 2 mm (T)	14	E 120 U/C EI 20 U/C



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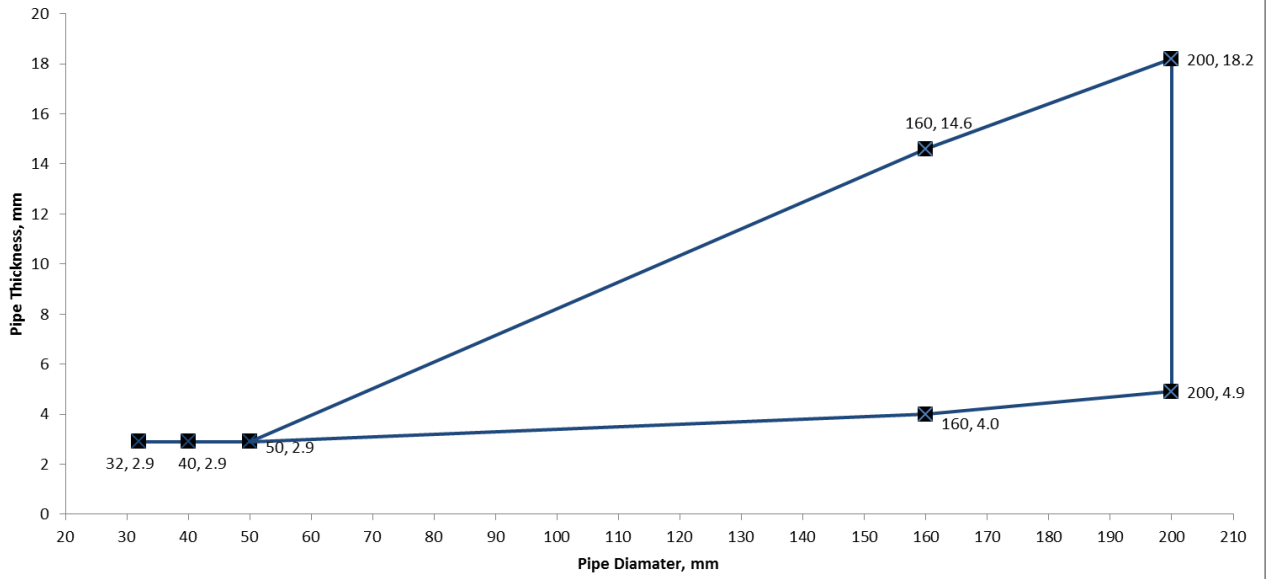
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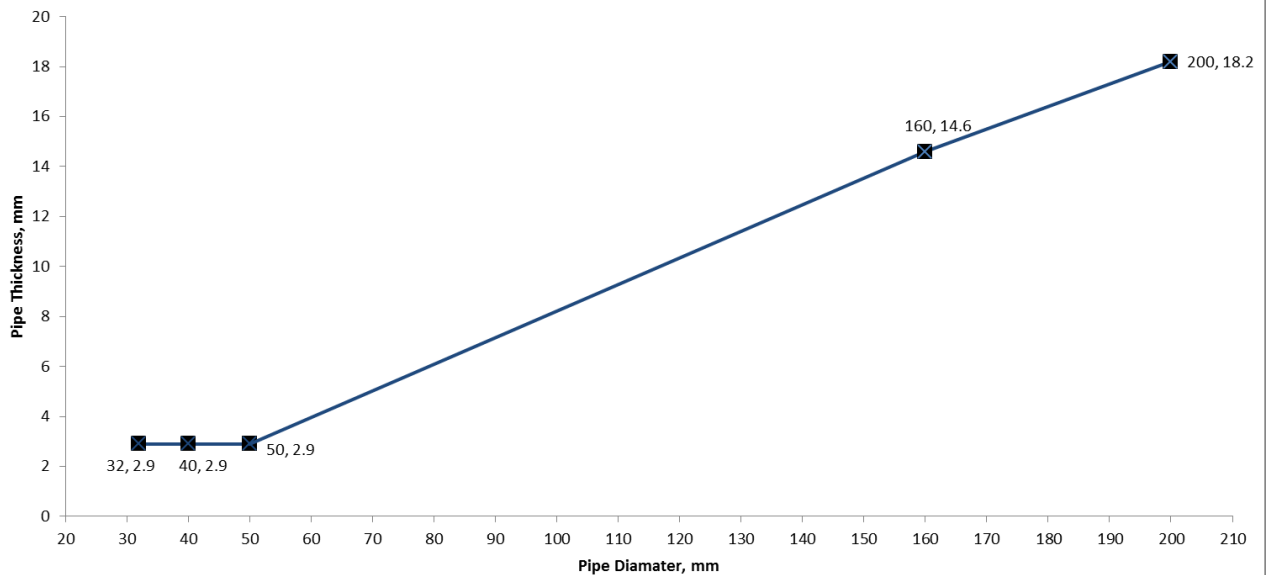
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Plastic Pipes PP according to EN 1451, U/C, wall \geq 100 mm - E 120, EI 90



Plastic Pipes PP according to EN 1451, U/C, wall \geq 100 mm - EI 120



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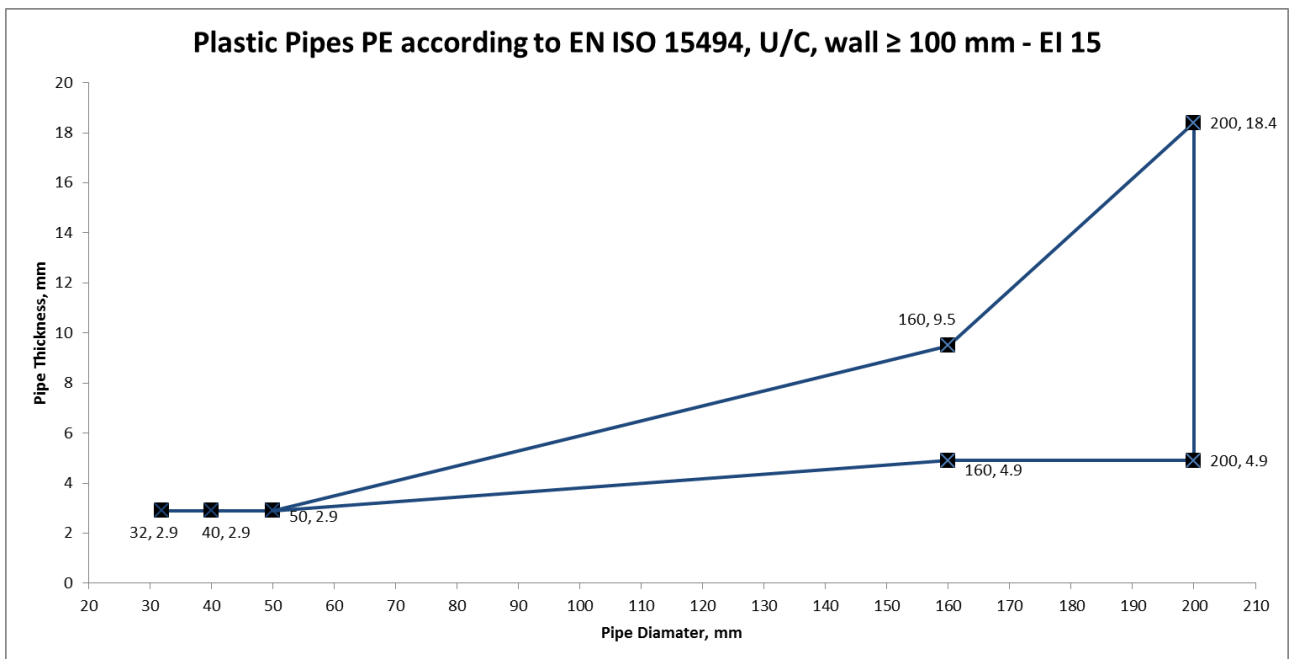
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A.3.1.3 PE pipes with SikaSeal® - 629 Fire Wrap installed within both sides of flexible or rigid wall

PE pipes according to EN ISO 15494 with SikaSeal® - 629 Fire Wrap.

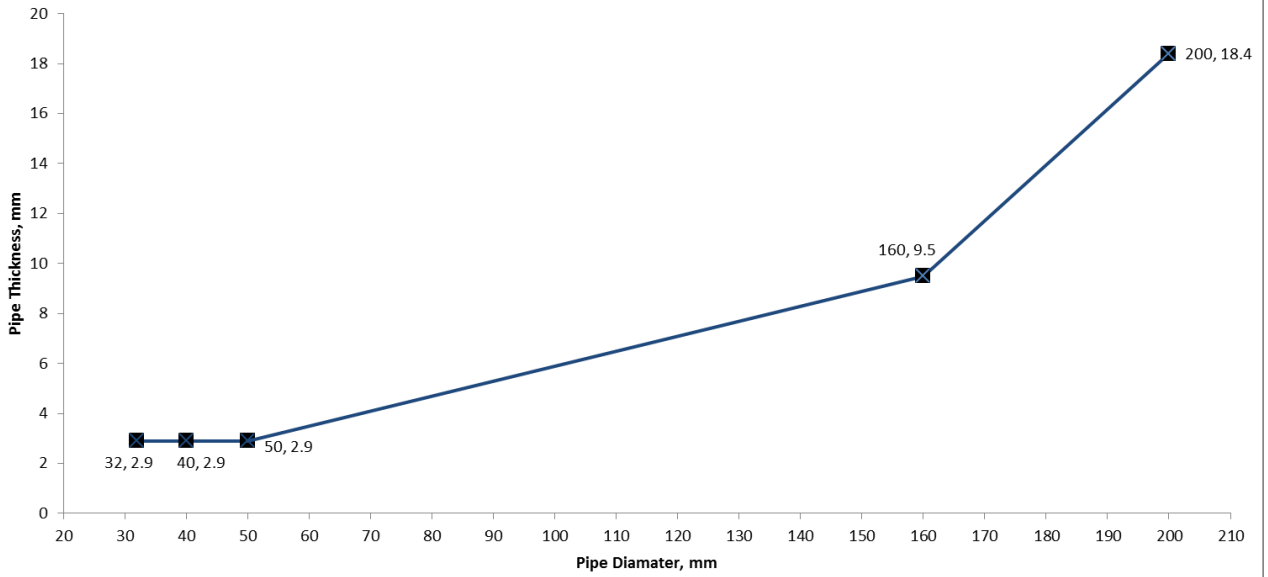
SikaSeal® - 629 Fire Wrap, Friction Fitted Flush to Both Sides of Flexible or Rigid Wall (min 100 mm thick) PE Pipes			
Penetration Specification	Wrap Size / Number	Annulus Space (mm)	Classification
PE Pipe 32 mm ϕ 2.9 mm wall thickness	1 off 40 mm (W) x 2 mm (T)	4	EI 120 U/C
PE Pipe 40 mm ϕ 2.9 mm wall thickness			
PE Pipe 50 mm ϕ 2.9 mm wall thickness			
PE Pipe 160 mm ϕ 4.9 mm wall thickness	4 off 40 mm (W) x 2 mm (T)	10	EI 15 U/C
PE Pipe 160 mm ϕ 9.5 mm wall thickness			EI 90 U/C
PE Pipe 200 mm ϕ 4.9 mm wall thickness	5 off 40 mm (W) x 2 mm (T)	12	EI 15 U/C
PE Pipe 200 mm ϕ 18.4 mm wall thickness			EI 120 U/C



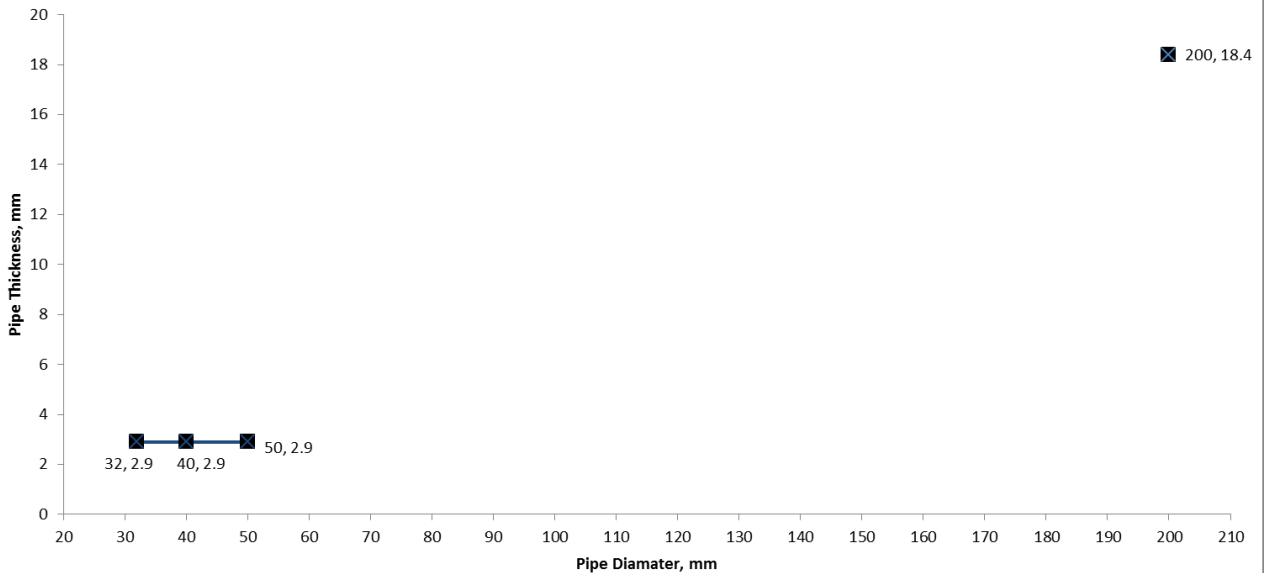
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Plastic Pipes PE according to EN ISO 15494, U/C, wall \geq 100 mm - EI 90



Plastic Pipes PE according to EN ISO 15494, U/C, wall \geq 100 mm - EI 120



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EAD 350454-00-1104:2017
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For details see accompanying documents
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