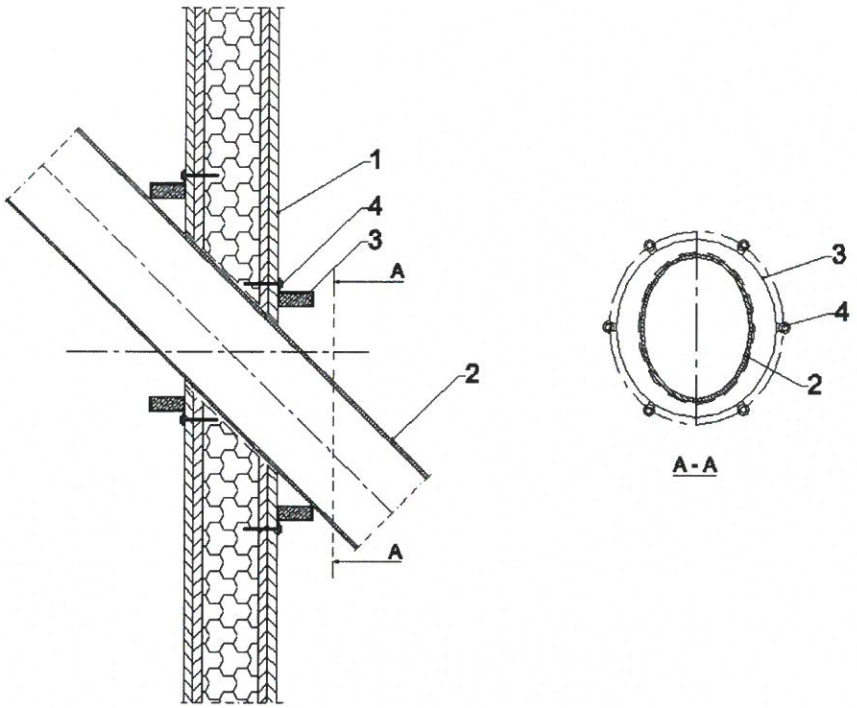
Plastic pipe penetration seal in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall.



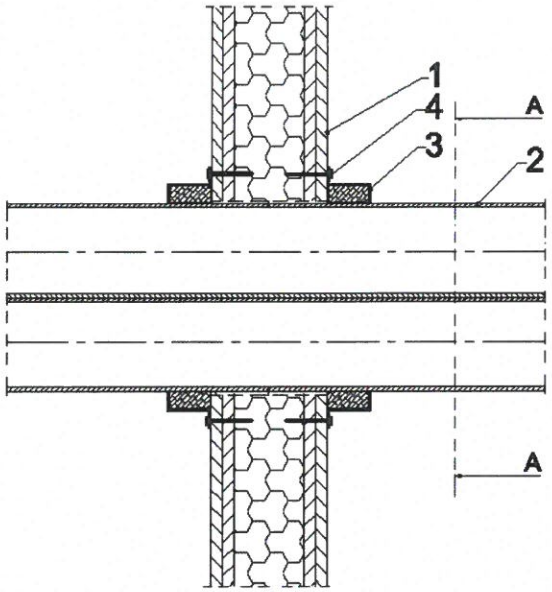
1 Flexible or rigid wall with thickness ≥ 100 mm
2 Plastic pipe
3 Squeezer Compact, fixed on both sides of the wall
4 Fastener M6x90, number of fasteners in accordance with Annex A

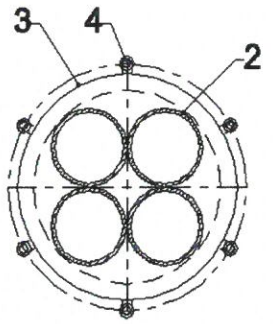
Resistance to fire classification of plastic pipes penetration seals in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall:

Table C1.1 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 32	1,8 – 3,4	30	5,0	**EI 60 – U/C** **EI 60 – C/C**
	32 < Ø ≤ 51	2,2 – 4,1	30	7,5	
	51 < Ø ≤ 71	2,5 – 4,9	30	10,0	
	71 < Ø ≤ 90	2,9 – 5,7	30	12,5	
	90 < Ø ≤ 110	3,2 – 6,5	30	15,0	
	110 < Ø ≤ 135	3,2 – 5,6	60	17,5	
	135 < Ø ≤ 160	3,2 – 4,7	60	20,0	

Plastic pipes bundle penetration seal in flexible or rigid wall, made with use of Squeezer Compact.





A-A

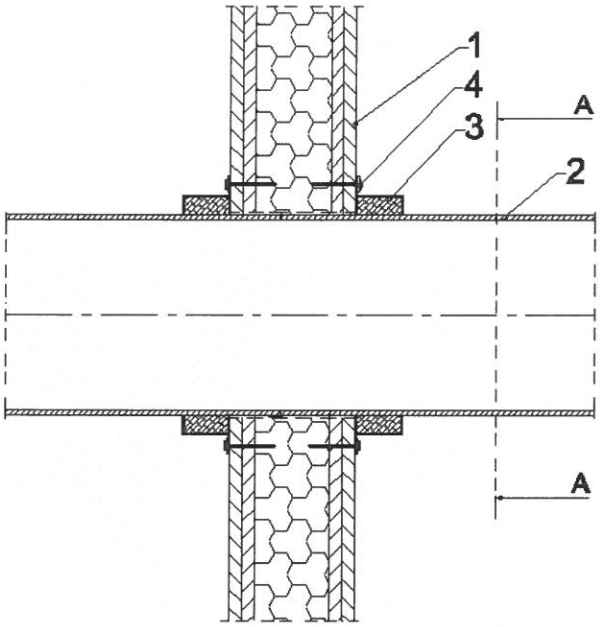
1 Flexible or rigid wall with thickness ≥ 100 mm
2 Plastic pipe (maximum 4 pipes in bundle)
3 Squeezer Compact, fixed on both sides of the wall
4 Fastener M6x90, number of fasteners in accordance with Annex A

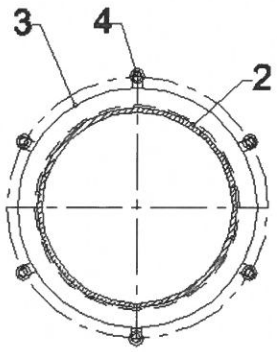
Resistance to fire classification of plastic pipes bundle penetration seals in flexible or rigid wall, made with use of Squeezer Compact:

Table C2.1 PP-R pipes (maximum 4 pipes in bundle)

Pipe material	Single pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 32	2,9 – 5,4	30	7,5	**EI 60 – U/C** **EI 60 – C/C**
	32 < Ø ≤ 40	3,5 – 5,4	60	10,0	
	40 < Ø ≤ 49	4,1 – 5,5	60	12,5	
	49 < Ø ≤ 57	4,6 – 5,6	60	15,0	
	57 < Ø ≤ 66	5,2 – 5,7	60	17,5	
	66 < Ø ≤ 75	5,8	60	20,0	

Plastic pipe penetration seal in flexible or rigid wall, made with use of Squeezer Compact.





A-A

1 Flexible or rigid wall with thickness ≥ 100 mm
2 Plastic pipe
3 Squeezer Compact, fixed on both sides of the wall
4 Fastener M6x90, number of fasteners in accordance with Annex A

Squeezer Compact and Maxi Wrap	Annex C3
Construction details of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in flexible or rigid wall	of European Technical Assessment ETA-17/0867

Resistance to fire classification of plastic pipes penetration seals in flexible or rigid wall, made with use of Squeezer Compact, in accordance with Annex C3:

Table C4.1 PE-HD pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PE-HD	Ø ≤ 63	3,0 – 5,8	30	5,0	EI 60 – U/C EI 60 – C/C
	63 < Ø ≤ 87	3,8 – 7,9	30	7,5	
	87 < Ø ≤ 111	4,6 – 10,1	30	10,0	
	111 < Ø ≤ 135	5,4 – 12,3	30	12,5	
	135 < Ø ≤ 160	6,2 – 14,6	30	15,0	
	160 < Ø ≤ 205	7,9 – 14,6	60	17,5	
	205 < Ø ≤ 250	9,6 – 14,6	60	20,0	

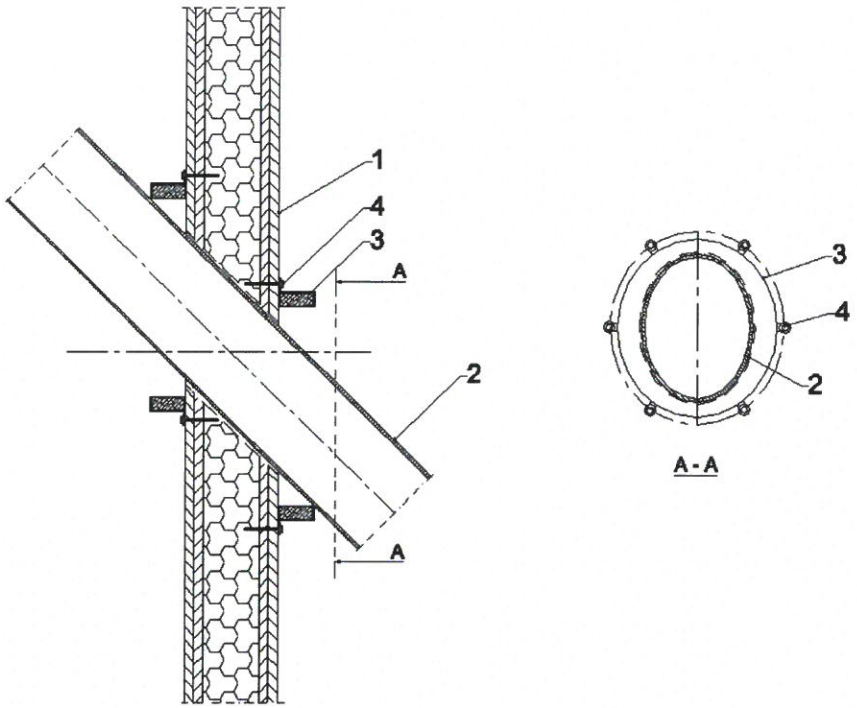
Table C4.2 PP-R pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 63	5,8	30	5,0	EI 60 – U/C EI 60 – C/C
		5,9 – 7,9	30	7,5	
	63 < Ø ≤ 87	5,8 – 7,9	30	7,5	
	87 < Ø ≤ 111	5,8 – 10,1	30	10,0	
	111 < Ø ≤ 135	5,7 – 12,3	30	12,5	
	135 < Ø ≤ 160	5,6 – 14,6	30	15,0	

Table C4.3 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 63	2,0 – 5,1	30	5,0	EI 60 – U/C EI 60 – C/C
	63 < Ø ≤ 87	2,3 – 5,0	30	7,5	
	87 < Ø ≤ 111	2,6 – 4,9	30	10,0	
	111 < Ø ≤ 135	2,9 – 4,8	30	12,5	
	135 < Ø ≤ 160	3,2 – 4,7	30	15,0	
	160 < Ø ≤ 205	4,7 – 8,5	60	17,5	
	205 < Ø ≤ 250	6,2 – 9,6	60	20,0	

Plastic pipe penetration seal in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall.



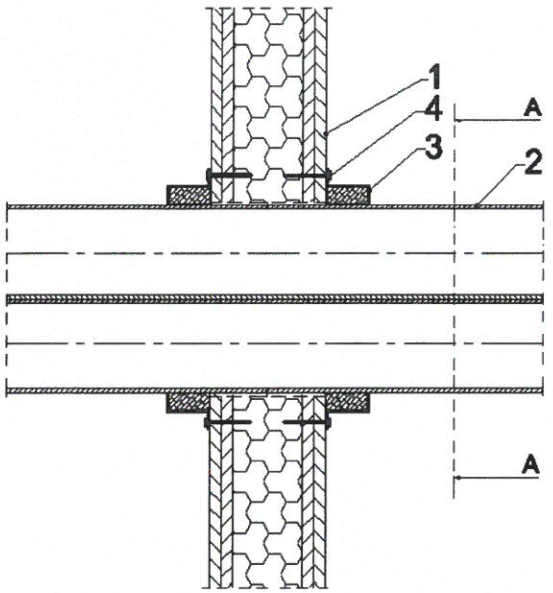
1 Flexible or rigid wall with thickness ≥ 100 mm
2 Plastic pipe
3 Squeezer Compact, fixed on both sides of the wall
4 Fastener M6x90, number of fasteners in accordance with Annex A

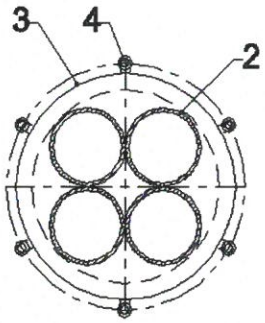
Resistance to fire classification of plastic pipes penetration seals in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall:

Table C5.1 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 32	3,4	30	5,0	**EI 90 – U/C** **EI 90 – C/C**
	32 < Ø ≤ 51	3,4 – 4,1	30	7,5	
	51 < Ø ≤ 71	3,3 – 4,9	30	10,0	
	71 < Ø ≤ 90	3,3 – 5,7	30	12,5	
	90 < Ø ≤ 110	3,2 – 6,5	30	15,0	
	110 < Ø ≤ 135	3,2 – 5,6	60	17,5	
	135 < Ø ≤ 160	3,2 – 4,7	60	20,0	

Plastic pipes bundle penetration seal in flexible or rigid wall, made with use of FireSeal FS-Squeezer-D.





A-A

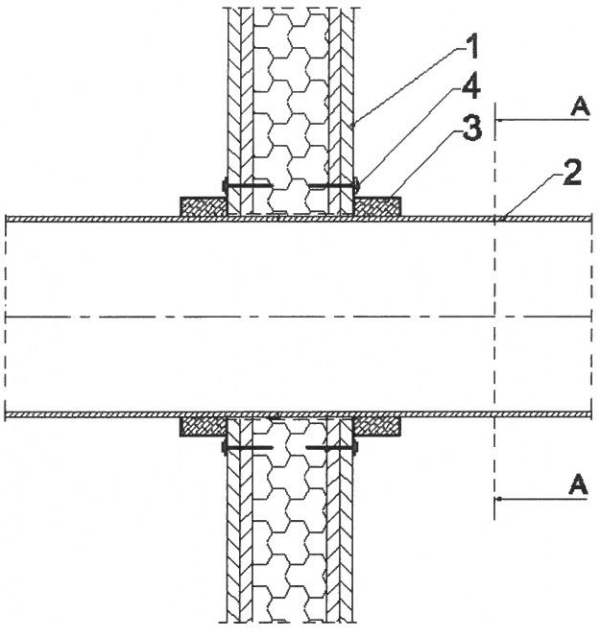
1 Flexible or rigid wall with thickness ≥ 100 mm
2 Plastic pipe (maximum 4 pipes in bundle)
3 Squeezer Compact, fixed on both sides of the wall
4 Fastener M6x90, number of fasteners in accordance with Annex A

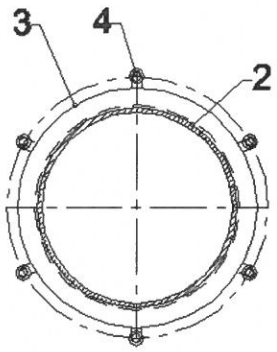
Resistance to fire classification of plastic pipes bundle penetration seals in flexible or rigid wall, made with use of Squeezer Compact:

Table C6.1 PP-R pipes (maximum 4 pipes in bundle)

Pipe material	Single pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 32	2,9 – 5,4	30	7,5	**EI 90 – U/C** **EI 90 – C/C**
	32 < Ø ≤ 40	3,5 – 5,4	60	10,0	
	40 < Ø ≤ 49	4,1 – 5,5	60	12,5	
	49 < Ø ≤ 57	4,6 – 5,6	60	15,0	
	57 < Ø ≤ 66	5,2 – 5,7	60	17,5	
	66 < Ø ≤ 75	5,8	60	20,0	

Plastic pipe penetration seal in flexible or rigid wall, made with use of Squeezer Compact.





A - A

1 Flexible or rigid wall with thickness ≥ 100 mm
2 Plastic pipe
3 Squeezer Compact, fixed on both sides of the wall
4 Fastener M6x90, number of fasteners in accordance with Annex A

Squeezer Compact and Maxi Wrap	Annex C7
Construction details of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in flexible or rigid wall	of European Technical Assessment ETA-17/0867

Resistance to fire classification of plastic pipes penetration seals in flexible or rigid wall, made with use of Squeezer Compact, in accordance with Annex C7:

Table C8.1 PE-HD pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PE-HD	Ø ≤ 63	3,0 – 5,8	30	5,0	**EI 90 – U/C** **EI 90 – C/C**
	63 < Ø ≤ 87	3,8 – 7,9	30	7,5	
	87 < Ø ≤ 111	4,6 – 10,1	30	10,0	
	111 < Ø ≤ 135	5,4 – 12,3	30	12,5	
	135 < Ø ≤ 160	6,2 – 14,6	30	15,0	
	160 < Ø ≤ 205	7,9 – 14,6	60	17,5	
	205 < Ø ≤ 250	9,6 – 14,6	60	20,0	

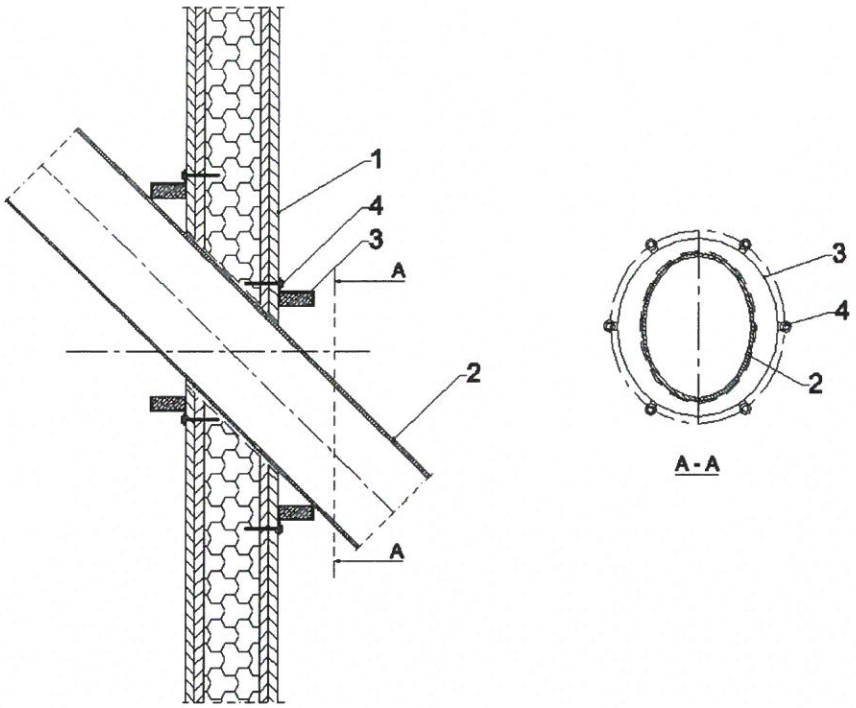
Table C8.2 PP-R pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 63	5,8	30	5,0	**EI 90 – U/C** **EI 90 – C/C**
		5,9 – 7,9	30	7,5	
	63 < Ø ≤ 87	5,8 – 7,9	30	7,5	
	87 < Ø ≤ 111	5,8 – 10,1	30	10,0	
	111 < Ø ≤ 135	5,7 – 12,3	30	12,5	
	135 < Ø ≤ 160	5,6 – 14,6	30	15,0	

Table C8.3 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 63	2,0 – 5,1	30	5,0	**EI 90 – U/C** **EI 90 – C/C**
	63 < Ø ≤ 87	2,3 – 5,0	30	7,5	
	87 < Ø ≤ 111	2,6 – 4,9	30	10,0	
	111 < Ø ≤ 135	2,9 – 4,8	30	12,5	
	135 < Ø ≤ 160	3,2 – 4,7	30	15,0	
	160 < Ø ≤ 205	4,7 – 8,5	60	17,5	
	205 < Ø ≤ 250	6,2 – 9,6	60	20,0	

Plastic pipe penetration seal in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall.



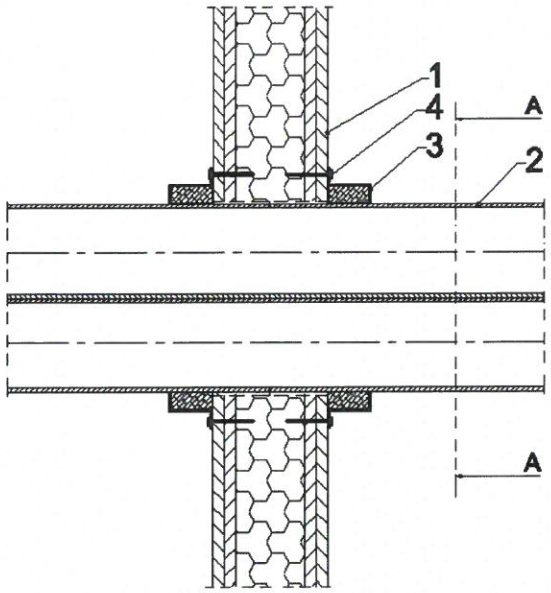
1 Flexible or rigid wall with thickness ≥ 100 mm
2 Plastic pipe
3 Squeezer Compact, fixed on both sides of the wall
4 Fastener M6x90, number of fasteners in accordance with Annex A

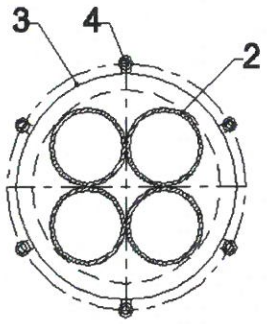
Resistance to fire classification of plastic pipes penetration seals in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall:

Table C9.1 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 32	3,4	30	5,0	EI 120 – U/C EI 120 – C/C
	32 < Ø ≤ 51	3,4 – 4,1	30	7,5	
	51 < Ø ≤ 71	3,3 – 4,9	30	10,0	
	71 < Ø ≤ 90	3,3 – 5,7	30	12,5	
	90 < Ø ≤ 110	3,2 – 6,5	30	15,0	
	110 < Ø ≤ 135	3,2 – 5,6	60	17,5	
	135 < Ø ≤ 160	3,2 – 4,7	60	20,0	

Plastic pipes bundle penetration seal in flexible or rigid wall, made with use of FireSeal FS-Squeezer-D.





A-A

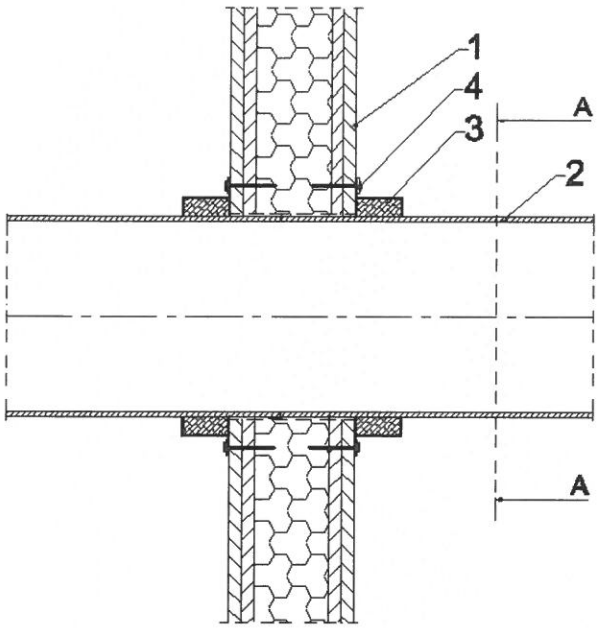
1 Flexible or rigid wall with thickness ≥ 100 mm
2 Plastic pipe (maximum 4 pipes in bundle)
3 Squeezer Compact, fixed on both sides of the wall
4 Fastener M6x90, number of fasteners in accordance with Annex A

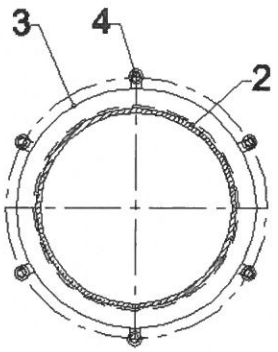
Resistance to fire classification of plastic pipes bundle penetration seals in flexible or rigid wall, made with use of Squeezer Compact:

Table C10.1 PP-R pipes (maximum 4 pipes in bundle)

Pipe material	Single pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 32	2,9 – 5,4	30	7,5	**EI 120 – U/C** **EI 120 – C/C**
	32 < Ø ≤ 40	3,5 – 5,4	60	10,0	
	40 < Ø ≤ 49	4,1 – 5,5	60	12,5	
	49 < Ø ≤ 57	4,6 – 5,6	60	15,0	
	57 < Ø ≤ 66	5,2 – 5,7	60	17,5	
	66 < Ø ≤ 75	5,8	60	20,0	

Plastic pipe penetration seal in flexible or rigid wall, made with use of Squeezer Compact.





A - A

1 Flexible or rigid wall with thickness ≥ 100 mm
2 Plastic pipe
3 Squeezer Compact, fixed on both sides of the wall
4 Fastener M6x90, number of fasteners in accordance with Annex A

Squeezer Compact and Maxi Wrap	Annex C11
Construction details of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in flexible or rigid wall	of European Technical Assessment ETA-17/0867

Resistance to fire classification of plastic pipes penetration seals in flexible or rigid wall, made with use of Squeezer Compact, in accordance with Annex C11:

Table C12.1 PE-HD pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PE-HD	Ø ≤ 63	3,0 – 5,8	30	5,0	EI 120 – U/C EI 120 – C/C
	63 < Ø ≤ 87	3,8 – 5,9	30	7,5	
	87 < Ø ≤ 111	4,6 – 6,0	30	10,0	
	111 < Ø ≤ 135	5,4 – 6,1	30	12,5	
	135 < Ø ≤ 160	6,2	30	15,0	

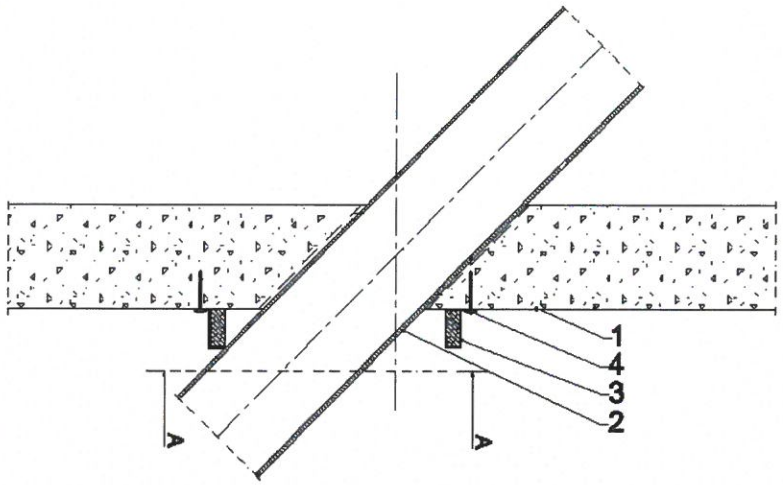
Table C12.2 PP-R pipes

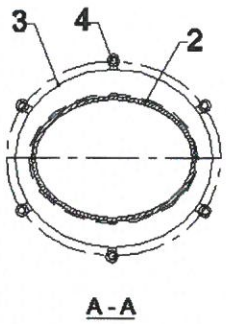
Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 63	5,8	30	5,0	EI 120 – U/C EI 120 – C/C
		5,9 – 7,9	30	7,5	
	63 < Ø ≤ 87	5,8 – 7,9	30	7,5	
	87 < Ø ≤ 111	5,8 – 10,1	30	10,0	
	111 < Ø ≤ 135	5,7 – 12,3	30	12,5	
	135 < Ø ≤ 160	5,6 – 14,6	30	15,0	

Table C12.3 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 63	2,0 – 5,1	30	5,0	EI 120 – U/C EI 120 – C/C
	63 < Ø ≤ 87	2,3 – 5,0	30	7,5	
	87 < Ø ≤ 111	2,6 – 4,9	30	10,0	
	111 < Ø ≤ 135	2,9 – 4,8	30	12,5	
	135 < Ø ≤ 160	3,2 – 4,7	30	15,0	
	160 < Ø ≤ 205	4,7 – 8,5	60	17,5	
	205 < Ø ≤ 250	6,2 – 9,6	60	20,0	

Plastic pipe penetration seal in rigid floor, made with use of Squeezer Compact, placed in angle between 0° and 89° to the floor.





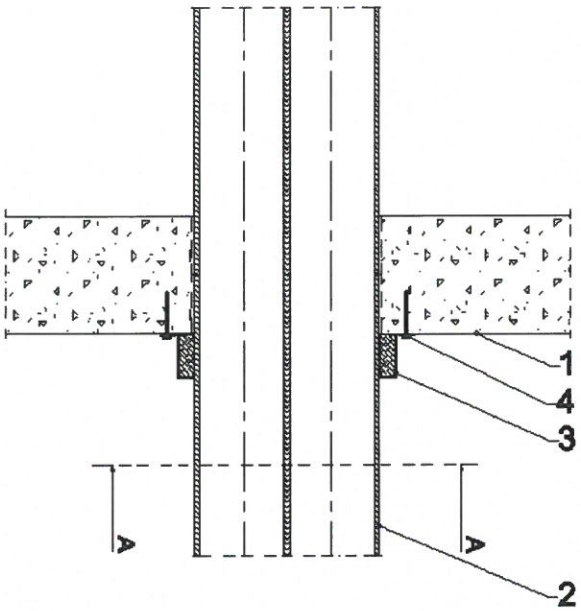
1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m^3
2 Plastic pipe
3 Squeezer Compact, fixed at the bottom of the floor
4 Fastener M6x60, number of fasteners in accordance with Annex A

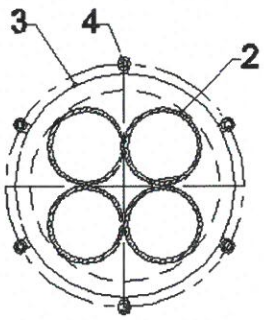
Resistance to fire classification of plastic pipes penetration seals in rigid floor, made with use of Squeezer Compact, placed in angle between 0° and 89° to the floor:

Table C13.1 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 32	1,8 – 3,4	30	5,0	**EI 90 – U/C** **EI 90 – C/C**
	32 < Ø ≤ 51	2,2 – 4,1	30	7,5	
	51 < Ø ≤ 71	2,5 – 4,9	30	10,0	
	71 < Ø ≤ 90	2,9 – 5,7	30	12,5	
	90 < Ø ≤ 110	3,2 – 6,5	30	15,0	
	110 < Ø ≤ 135	3,2 – 5,6	60	17,5	
	135 < Ø ≤ 160	3,2 – 4,7	60	20,0	

Plastic pipes bundle penetration seal in rigid floor, made with use of Squeezer Compact.





A-A

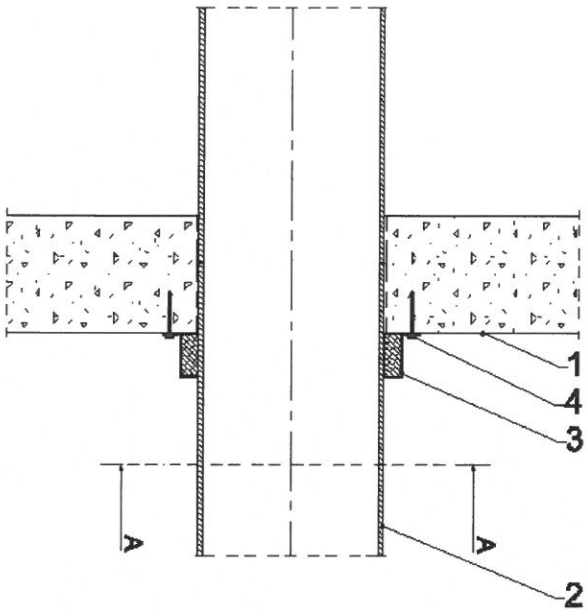
1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m^3
2 Plastic pipe (maximum 4 pipes in bundle)
3 Squeezer Compact, fixed at the bottom of the floor
4 Fastener M6x60, number of fasteners in accordance with Annex A

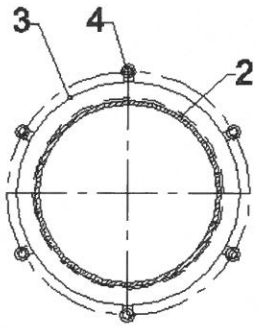
Resistance to fire classification of plastic pipes bundle penetration seals in rigid floor, made with use of Squeezer Compact:

Table C14.1 PP-R pipes (maximum 4 pipes in bundle)

Pipe material	Single pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 32	2,9 – 5,4	30	7,5	**EI 90 – U/C** **EI 90 – C/C**
	32 < Ø ≤ 40	3,5 – 6,7	60	10,0	
	40 < Ø ≤ 49	4,1 – 8,2	60	12,5	
	49 < Ø ≤ 57	4,6 – 9,5	60	15,0	
	57 < Ø ≤ 66	5,2 – 11,0	60	17,5	
	66 < Ø ≤ 75	5,8 – 12,5	60	20,0	

Plastic pipe penetration seal in rigid floor, made with use of Squeezer Compact.





A - A

1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m^3
2 Plastic pipe
3 Squeezer Compact, fixed at the bottom of the floor
4 Fastener M6x60, number of fasteners in accordance with Annex A

Squeezer Compact and Maxi Wrap	Annex C15
Construction details of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in rigid floor	of European Technical Assessment ETA-17/0867

Resistance to fire classification of plastic pipes penetration seals in rigid floor, made with use of Squeezer Compact, in accordance with Annex C15:

Table C16.1 PE-HD pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PE-HD	Ø ≤ 63	3,0 – 5,8	30	5,0	EI 90 – U/C EI 90 – C/C
	63 < Ø ≤ 87	3,8 – 7,9	30	7,5	
	87 < Ø ≤ 111	4,6 – 10,1	30	10,0	
	111 < Ø ≤ 135	5,4 – 12,3	30	12,5	
	135 < Ø ≤ 160	6,2 – 14,6	30	15,0	
	160 < Ø ≤ 205	7,9 – 14,6	60	17,5	
	205 < Ø ≤ 250	9,6 – 14,6	60	20,0	

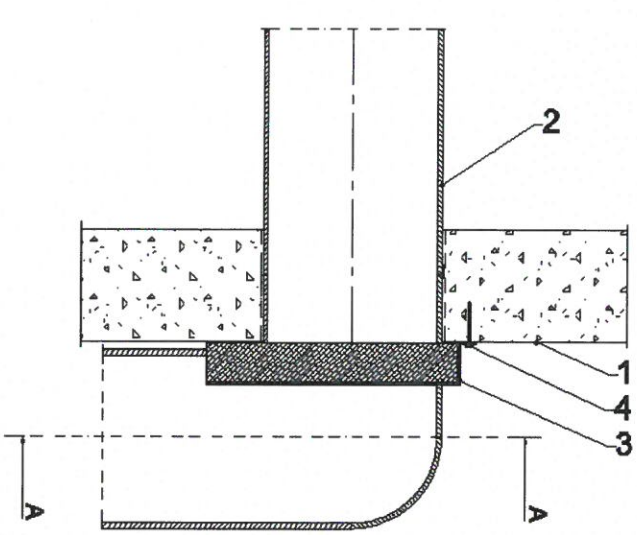
Table C16.2 PP-R pipes

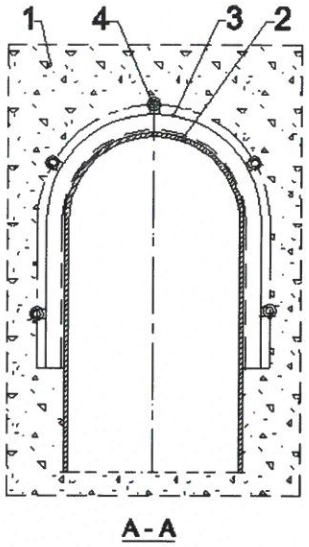
Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 63	5,8 – 10,5	30	5,0	EI 90 – U/C EI 90 – C/C
	63 < Ø ≤ 87	5,8 – 11,5	30	7,5	
	87 < Ø ≤ 111	5,8 – 12,5	30	10,0	
	111 < Ø ≤ 135	5,7 – 13,5	30	12,5	
	135 < Ø ≤ 160	5,6 – 14,6	30	15,0	

Table C16.3 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 63	2,0 – 5,1	30	5,0	EI 90 – U/C EI 90 – C/C
	63 < Ø ≤ 87	2,3 – 5,0	30	7,5	
	87 < Ø ≤ 111	2,6 – 4,9	30	10,0	
	111 < Ø ≤ 135	2,9 – 4,8	30	12,5	
	135 < Ø ≤ 160	3,2 – 4,7	30	15,0	
	160 < Ø ≤ 205	4,7 – 8,5	60	17,5	
	205 < Ø ≤ 250	6,2 – 9,6	60	20,0	

Plastic pipe penetration seal in rigid floor, made with use of Squeezer Compact – pipe elbow on the bottom of the floor.





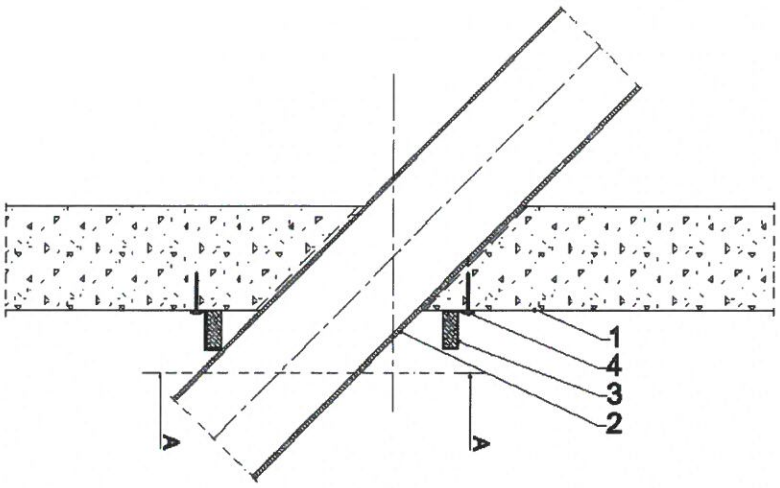
1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m^3
2 Plastic pipe
3 Squeezer Compact, fixed at the bottom of the floor
4 Fastener M6x60, number of fasteners in accordance with Annex A

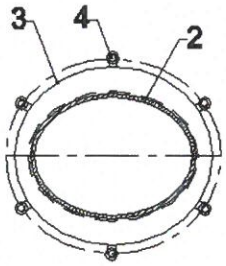
Resistance to fire classification of plastic pipe elbow penetration seals in rigid floor, made with use of Squeezer Compact:

Table C17.1 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 63	2,0 – 5,1	30	5,0	**EI 90 – U/C** **EI 90 – C/C**
	63 < Ø ≤ 86	2,3 – 5,7	30	7,5	
	86 < Ø ≤ 110	2,6 – 6,5	30	10,0	
	110 < Ø ≤ 135	2,9 – 5,6	30	12,5	
	135 < Ø ≤ 160	3,2 – 4,7	30	15,0	

Plastic pipe penetration seal in rigid floor, made with use of Squeezer Compact, placed in angle between 0° and 89° to the floor.





A - A

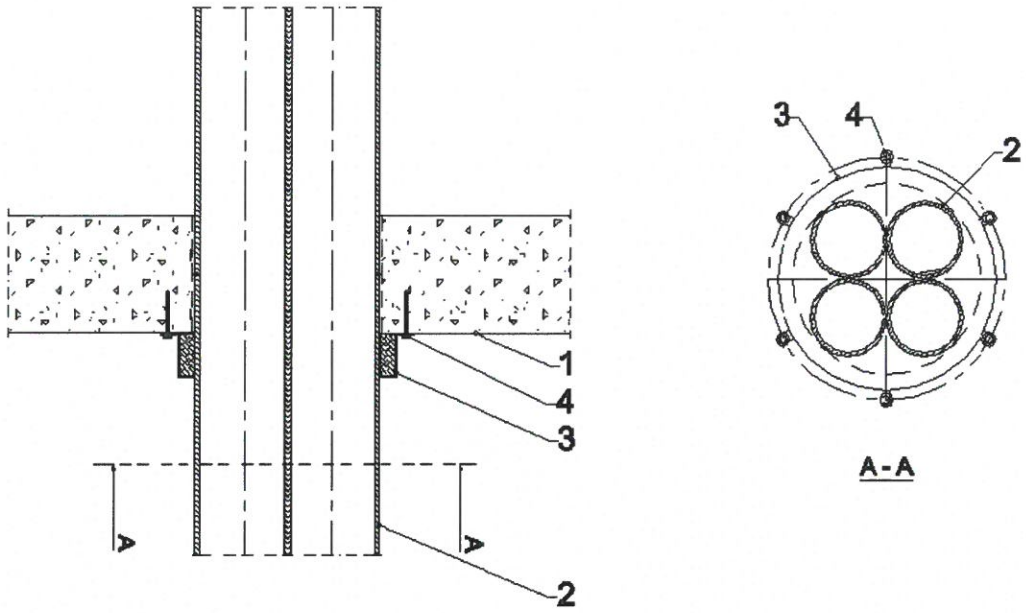
1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m^3
2 Plastic pipe
3 Squeezer Compact, fixed at the bottom of the floor
4 Fastener M6x60, number of fasteners in accordance with Annex A

Resistance to fire classification of plastic pipes penetration seals in rigid floor, made with use of Squeezer Compact, placed in angle between 0° and 89° to the floor:

Table C18.1 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 32	1,8 – 3,4	30	5,0	EI 120 – U/C EI 120 – C/C
	32 < Ø ≤ 51	2,2 – 4,1	30	7,5	
	51 < Ø ≤ 71	2,5 – 4,9	30	10,0	
	71 < Ø ≤ 90	2,9 – 5,7	30	12,5	
	90 < Ø ≤ 110	3,2 – 6,5	30	15,0	
	110 < Ø ≤ 135	3,2 – 5,6	60	17,5	
	135 < Ø ≤ 160	3,2 – 4,7	60	20,0	

Plastic pipes bundle penetration seal in rigid floor, made with use of Squeezer Compact.



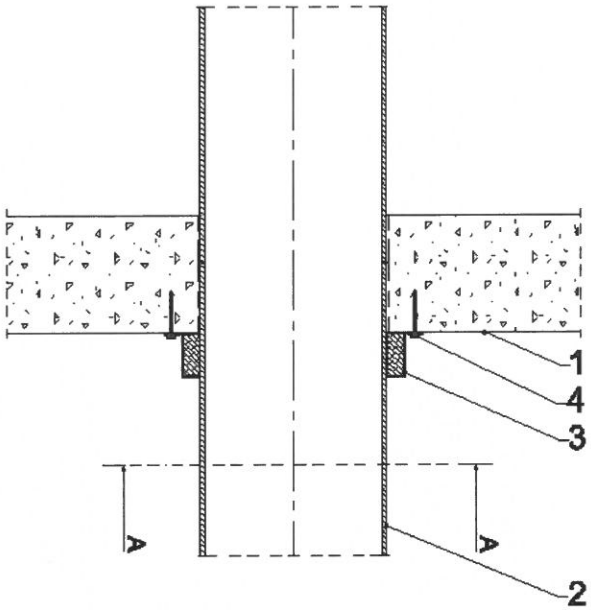
1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m^3
2 Plastic pipe (maximum 4 pipes in bundle)
3 Squeezer Compact, fixed at the bottom of the floor
4 Fastener M6x60, number of fasteners in accordance with Annex A

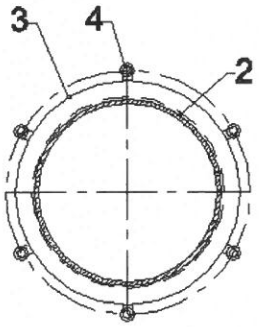
Resistance to fire classification of plastic pipes bundle penetration seals in rigid floor, made with use of Squeezer Compact:

Table C19.1 PP-R pipes (maximum 4 pipes in bundle)

Pipe material	Single pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 32	2,9 – 5,4	30	7,5	EI 120 – U/C EI 120 – C/C
	32 < Ø ≤ 40	3,5 – 6,7	60	10,0	
	40 < Ø ≤ 49	4,1 – 8,2	60	12,5	
	49 < Ø ≤ 57	4,6 – 9,5	60	15,0	
	57 < Ø ≤ 66	5,2 – 11,0	60	17,5	
	66 < Ø ≤ 75	5,8 – 12,5	60	20,0	

Plastic pipe penetration seal in rigid floor, made with use of Squeezer Compact.





A-A

1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m^3
2 Plastic pipe
3 Squeezer Compact, fixed at the bottom of the floor
4 Fastener M6x60, number of fasteners in accordance with Annex A

Squeezer Compact and Maxi Wrap	Annex C20
Construction details of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in rigid floor	of European Technical Assessment ETA-17/0867

Resistance to fire classification of plastic pipes penetration seals in rigid floor, made with use of Squeezer Compact, in accordance with Annex C20:

Table C21.1 PE-HD pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PE-HD	Ø ≤ 63	3,0 – 5,8	30	5,0	**EI 120 – U/C** **EI 120 – C/C**
	63 < Ø ≤ 87	3,8 – 7,9	30	7,5	
	87 < Ø ≤ 111	4,6 – 10,1	30	10,0	
	111 < Ø ≤ 135	5,4 – 12,3	30	12,5	
	135 < Ø ≤ 160	6,2 – 14,6	30	15,0	
	160 < Ø ≤ 205	7,9 – 12,1	60	17,5	
	205 < Ø ≤ 250	9,6	60	20,0	

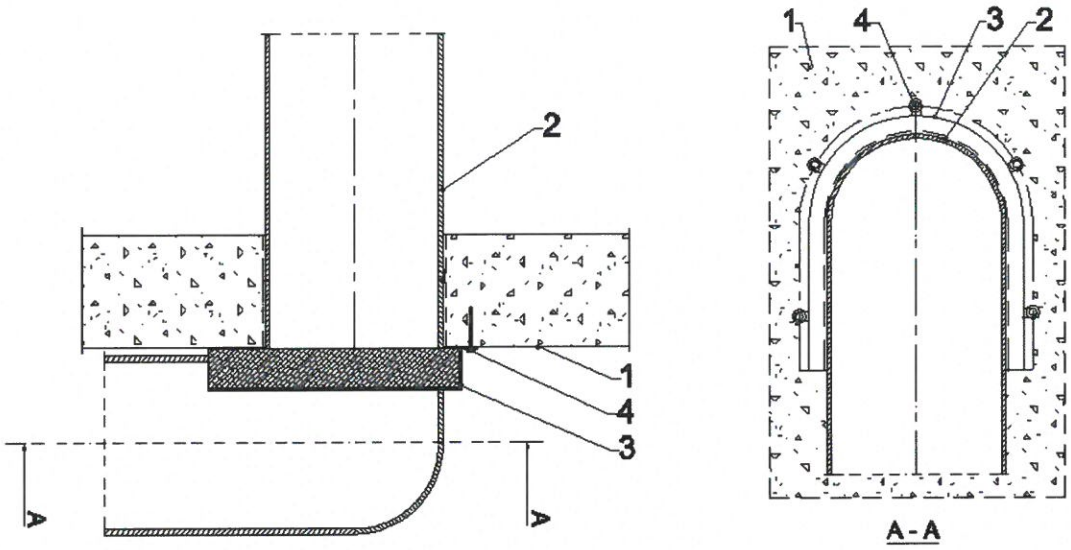
Table C21.2 PP-R pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PP-R	Ø ≤ 63	5,8 – 10,5	30	5,0	**EI 120 – U/C** **EI 120 – C/C**
	63 < Ø ≤ 87	5,8 – 9,2	30	7,5	
	87 < Ø ≤ 111	5,8 – 8,0	30	10,0	
	111 < Ø ≤ 135	5,7 – 6,8	30	12,5	
	135 < Ø ≤ 160	5,6	30	15,0	

Table C21.3 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 63	2,0 – 5,1	30	5,0	**EI 120 – U/C** **EI 120 – C/C**
	63 < Ø ≤ 87	2,3 – 5,0	30	7,5	
	87 < Ø ≤ 111	2,6 – 4,9	30	10,0	
	111 < Ø ≤ 135	2,9 – 4,8	30	12,5	
	135 < Ø ≤ 160	3,2 – 4,7	30	15,0	
	160 < Ø ≤ 205	4,7 – 8,5	60	17,5	
	205 < Ø ≤ 250	6,2 – 9,6	60	20,0	

Plastic pipe penetration seal in rigid floor, made with use of Squeezer Compact – pipe elbow on the bottom of the floor.



1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m^3
2 Plastic pipe
3 Squeezer Compact, fixed at the bottom of the floor
4 Fastener M6x60, number of fasteners in accordance with Annex A

Resistance to fire classification of plastic pipe elbow penetration seals in rigid floor, made with use of Squeezer Compact:

Table C22.1 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall thickness, [mm]	Intumescent material		Fire resistance class
			width, [mm]	thickness, [mm]	
PVC-U / PVC-C	Ø ≤ 63	2,0 – 5,1	30	5,0	**EI 120 – U/C** **EI 120 – C/C**
	63 < Ø ≤ 86	2,3 – 5,7	30	7,5	
	86 < Ø ≤ 110	2,6 – 6,5	30	10,0	
	110 < Ø ≤ 135	2,9 – 5,6	30	12,5	
	135 < Ø ≤ 160	3,2 – 4,7	30	15,0	