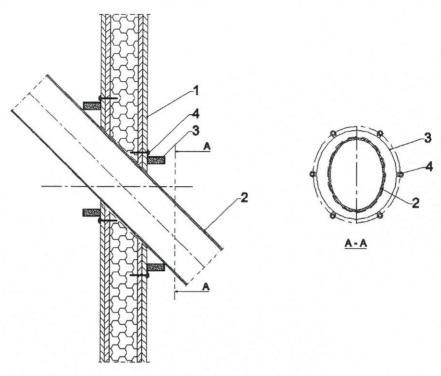
Plastic pipe penetration seal in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall.



- 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

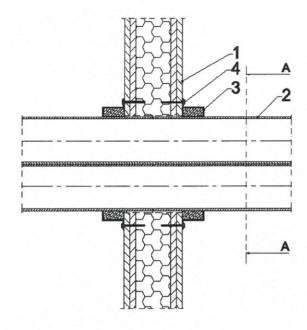
Resistance to fire classification of plastic pipes penetration seals in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall:

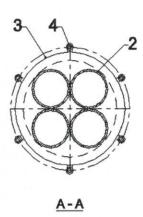
Table C1.1 PVC-U / PVC-C pipes

Pipe material	Pipe diameter,	Pipe wall			
	THE RESERVE OF THE PARTY OF THE	thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	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	
D) (0 11 (51 < Ø ≤ 71	2,5 – 4,9	30	10,0	
PVC-U / PVC-C	71 < Ø ≤ 90	2,9 - 5,7	30	12,5	
1 00-0	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	

Squeezer Compact and Maxi Wrap	Annex C1
Construction details and resistance to fire classification 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

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





- 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

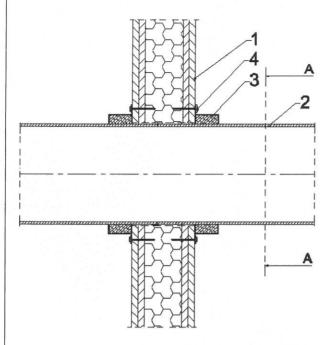
Resistance to fire classification of plastic pipes bundle penetration seals in flexible or rigid wall, made with use of Squeezer Compact:

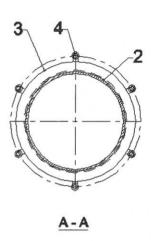
Table C2.1 PP-R pipes (maximum 4 pipes in bundle)

Pipe	Single pipe Pipe wall Intumescent mater		ent material		
material	diameter, [mm]	thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	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	
DD D	40 < Ø ≤ 49	4,1 – 5,5	60	12,5	
PP-R	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	

Squeezer Compact and Maxi Wrap	Annex C2
Construction details and resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipes bundle penetration seal in flexible or rigid wall	of European Technical Assessment ETA-17/0867

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





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

Squeezer Compact and Maxi Wrap

Construction details of penetration seals made with use of Squeezer Compact

Plastic pipe penetration seal in flexible or rigid wall

Annex C3

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	Intumesc	ent material	Fire resistance class
		thickness, [mm]	width, [mm]	thickness, [mm]	
	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	
PE-HD	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	1

Table C4.2 PP-R pipes

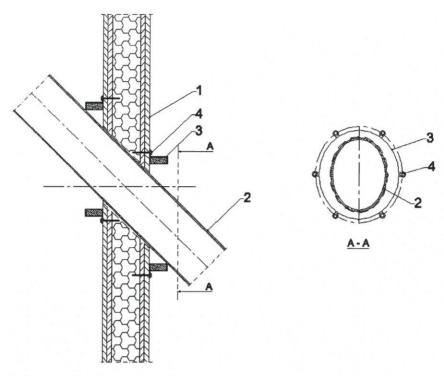
Pipe material	Pipe diameter, [mm]	Pipe wall	Intumesco	ent material	Fire resistance class
		thickness, [mm]	width, [mm]	thickness, [mm]	
	Ø ≤ 63	5,8	30	5,0	EI 60 – U/C
		5,9 - 7,9	30	7,5	
PP-R	63 < Ø ≤ 87	5,8 - 7,9	30	7,5	
PP-R	87 < Ø ≤ 111	5,8 - 10,1	30	10,0	EI 60 - C/C
	111 < Ø ≤ 135	5,7 – 12,3	30	12,5	
	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	Intumescent material		
		thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	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	
5) (6) 11 (87 < Ø ≤ 111	2,6 - 4,9	30	10,0	
PVC-U / PVC-C	111 < Ø ≤ 135	2,9 - 4,8	30	12,5	
F VC-C	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	

Squeezer Compact and Maxi Wrap	Annex C4
Resistance to fire classification 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

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

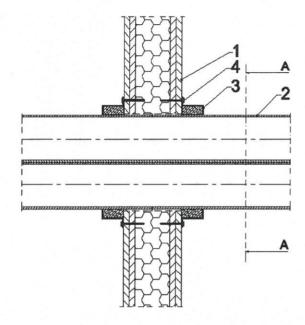
Resistance to fire classification of plastic pipes penetration seals in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall:

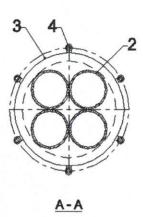
Table C5.1 PVC-U / PVC-C pipes

Pipe material	Pipe diameter,	Pipe wall	Intumescent material		
	The state of the s	thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	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	
D) (0 11 /	51 < Ø ≤ 71	3,3 – 4,9	30	10,0	
PVC-U / PVC-C	71 < Ø ≤ 90	3,3 - 5,7	30	12,5	
1 00-0	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	

Squeezer Compact and Maxi Wrap	Annex C5
Construction details and resistance to fire classification 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

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





- 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

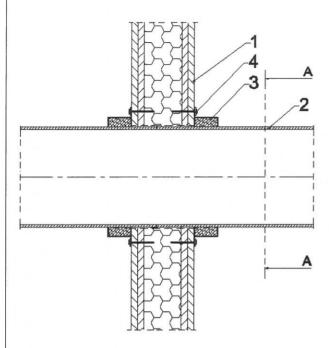
Resistance to fire classification of plastic pipes bundle penetration seals in flexible or rigid wall, made with use of Squeezer Compact:

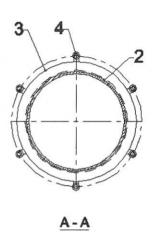
Table C6.1 PP-R pipes (maximum 4 pipes in bundle)

Pipe	Single pipe	Pipe wall	Intumescent material		
material	diameter, [mm]	thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	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	
PP-R	40 < Ø ≤ 49	4,1 – 5,5	60	12,5	
FF-K	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	

Squeezer Compact and Maxi Wrap	Annex C6
Construction details and resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipes bundle penetration seal in flexible or rigid wall	of European Technical Assessment ETA-17/0867

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





- 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

Construction details of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in flexible or rigid wall **Annex C7**

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	Intumescent material		
		thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 63	3,0-5,8	30	5,0	
-1 1	63 < Ø ≤ 87	3,8 - 7,9	30	7,5	EI 90 – U/C EI 90 – C/C
	87 < Ø ≤ 111	4,6 - 10,1	30	10,0	
PE-HD	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

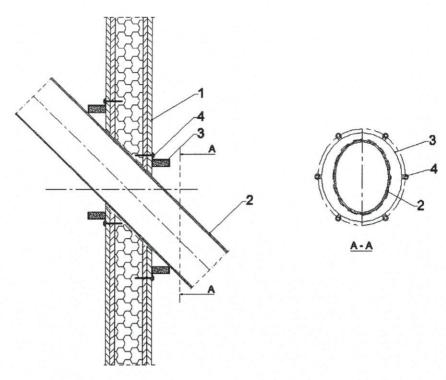
Pipe	Pipe diameter, [mm]	Pipe wall	Intumesc	ent material	Fire resistance class
material		thickness, [mm]	width, [mm]	thickness, [mm]	
	0 < 62	5,8	30	5,0	
	Ø ≤ 63	5,9 - 7,9	30	7,5	EI 90 – U/C EI 90 – C/C
PP-R	63 < Ø ≤ 87	5,8 - 7,9	30	7,5	
PP-R	87 < Ø ≤ 111	5,8 - 10,1	30	10,0	
	111 < Ø ≤ 135	5,7 – 12,3	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	Intumescent material		
		thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	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	
D) (O 11 (87 < Ø ≤ 111	2,6-4,9	30	10,0	
PVC-U / PVC-C	111 < Ø ≤ 135	2,9 - 4,8	30	12,5	
1 00-0	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	Carlo Lander Stilling

Squeezer Compact and Maxi Wrap	Annex C8
Resistance to fire classification 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

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

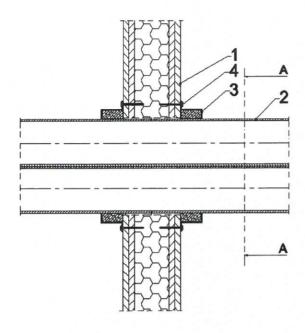
Resistance to fire classification of plastic pipes penetration seals in flexible or rigid wall, made with use of Squeezer Compact, placed in angle between 0° and 89° to the wall:

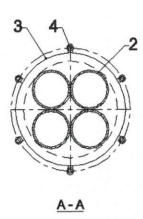
Table C9.1 PVC-U / PVC-C pipes

Pipe	Pipe diameter,	Pipe wall Intumescent material			
material		thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 32	3,4	30	5,0	
	32 < Ø ≤ 51	3,4 - 4,1	30	7,5	EI 120 – U/C EI 120 – C/C
5,40,114	51 < Ø ≤ 71	3,3 - 4,9	30	10,0	
PVC-U / PVC-C	71 < Ø ≤ 90	3,3 - 5,7	30	12,5	
1 00-0	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	

Squeezer Compact and Maxi Wrap	Annex C9
Construction details and resistance to fire classification 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

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





- 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

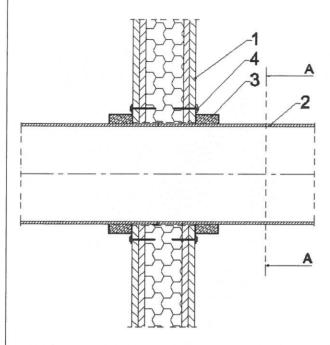
Resistance to fire classification of plastic pipes bundle penetration seals in flexible or rigid wall, made with use of Squeezer Compact:

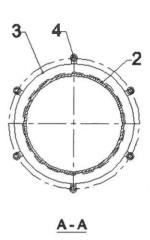
Table C10.1 PP-R pipes (maximum 4 pipes in bundle)

Pipe	Single pipe	Pipe wall	Intumescent material		
material	diameter, [mm]	thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 32	2,9 - 5,4	30	7,5	
	32 < Ø ≤ 40	3,5 - 5,4	60	10,0	EI 120 – U/C EI 120 – C/C
DD D	40 < Ø ≤ 49	4,1 – 5,5	60	12,5	
PP-R	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	

Squeezer Compact and Maxi Wrap	Annex C10
Construction details and resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipes bundle penetration seal in flexible or rigid wall	of European Technical Assessment ETA-17/0867

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





- 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

Construction details of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in flexible or rigid wall Annex C11

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

Table C12.2 PP-R pipes

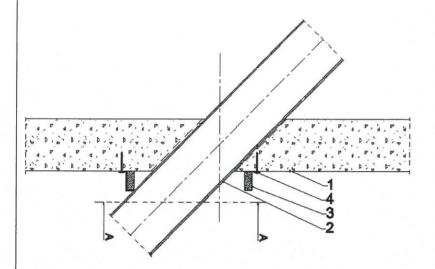
Pipe material	Pipe diameter, [mm]	Pipe wall	Intumescent material		
		thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 63	5,8	30	5,0	EI 120 – U/C EI 120 – C/C
		5,9 – 7,9	30	7,5	
DD D	63 < Ø ≤ 87	5,8 - 7,9	30	7,5	
PP-R	87 < Ø ≤ 111	5,8 - 10,1	30	10,0	
	111 < Ø ≤ 135	5,7 - 12,3	30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

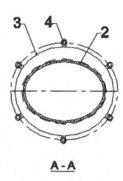
Table C12.3 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall	Intumesc	ent material	Fire resistance class
		thickness, [mm]	width, [mm]	thickness, [mm]	
	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	
D) (0 11 /	87 < Ø ≤ 111	2,6 - 4,9	30	10,0	
PVC-U / PVC-C	111 < Ø ≤ 135	2,9 - 4,8	30	12,5	
1 00-0	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	

Squeezer Compact and Maxi Wrap	Annex C12
Resistance to fire classification 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
	1

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/m³
- 2 Plastic pipe
- 3 Squeezer Compact, fixed at the bottom of the floor
- 4 Fastener M6x60, number of fasteners in accordance with Annex A

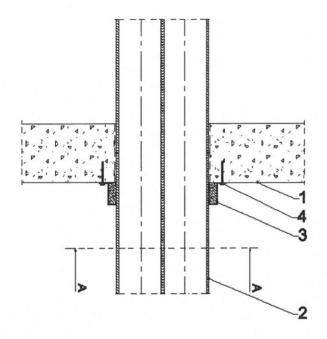
Resistance to fire classification of plastic pipes penetration seals in rigid floor, made with use of Squeezer Compact, placed in angle between 0° and 89° to the floor:

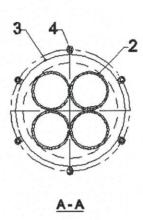
Table C13.1 PVC-U / PVC-C pipes

Pipe Pipe diameter,		Pipe wall	Intumescent material		
	[mm]	thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 32	1,8 - 3,4	30	5,0	
	32 < Ø ≤ 51	2,2 - 4,1	30	7,5	
	51 < Ø ≤ 71	2,5 - 4,9	30	10,0	
PVC-U /	71 < Ø ≤ 90	2,9 - 5,7	30	12,5	EI 90 – U/C EI 90 – C/C
' ' '	90 < Ø ≤ 110	3,2 - 6,5	30	15,0	2100-070
	110 < Ø ≤ 135	3,2 - 5,6	60	17,5	
	135 < Ø ≤ 160	3,2 – 4,7	60	20,0	

Squeezer Compact and Maxi Wrap	Annex C13
Construction details and resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in rigid floor	of European Technical Assessment ETA-17/0867

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/m³
- 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

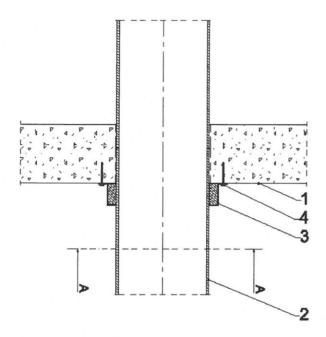
Resistance to fire classification of plastic pipes bundle penetration seals in rigid floor, made with use of Squeezer Compact:

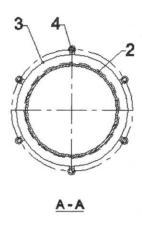
Table C14.1 PP-R pipes (maximum 4 pipes in bundle)

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

Squeezer Compact and Maxi Wrap	Annex C14
Construction details and resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipes bundle penetration seal in rigid floor	of European Technical Assessment ETA-17/0867

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





- 1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m³
- 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	Wran

Construction details of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in rigid floor

Annex C15

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	Pipe Pipe diameter, Pipe wall		Intumescent material		
material [mm]	thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class	
	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	
PE-HD	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

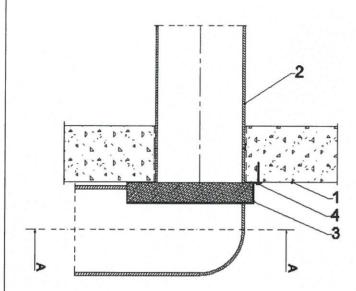
Pipe	Pipe diameter,	Pipe wall	Intumescent material		
material		thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 63	5,8 - 10,5	30	5,0	EI 90 – U/C EI 90 – C/C
	63 < Ø ≤ 87	5,8 - 11,5	30	7,5	
PP-R	87 < Ø ≤ 111	5,8 - 12,5	30	10,0	
	111 < Ø ≤ 135	5,7 - 13,5	30	12,5	
	135 < Ø ≤ 160	5,6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

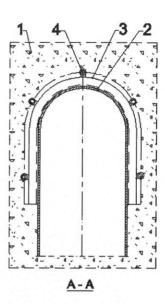
Table C16.3 PVC-U / PVC-C pipes

Pipe	Pipe diameter,	Pipe wall	Intumescent material		
material [mm]		thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 63	2,0 - 5,1	30	5,0	
	63 < Ø ≤ 87	2,3 - 5,0	30	7,5	EI 90 – U/C EI 90 – C/C
	87 < Ø ≤ 111	2,6 - 4,9	30	10,0	
PVC-U /	111 < Ø ≤ 135	2,9 - 4,8	30	12,5	
1 00-0	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	

Squeezer Compact and Maxi Wrap	Annex C16
Resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in rigid floor	of European Technical Assessment ETA-17/0867

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/m³
- 2 Plastic pipe
- 3 Squeezer Compact, fixed at the bottom of the floor
- 4 Fastener M6x60, number of fasteners in accordance with Annex A

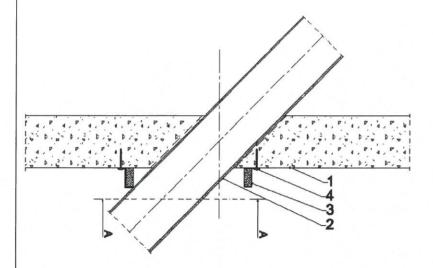
Resistance to fire classification of plastic pipe elbow penetration seals in rigid floor, made with use of Squeezer Compact:

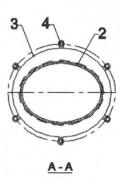
Table C17.1 PVC-U / PVC-C pipes

Pipe	Pipe diameter,	Pipe wall	Intumescent material		
material	[mm]	thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 63	2,0 - 5,1	30	5,0	EI 90 – U/C EI 90 – C/C
D. 10 11 1	63 < Ø ≤ 86	2,3 - 5,7	30	7,5	
PVC-U / PVC-C	86 < Ø ≤ 110	2,6 - 6,5	30	10,0	
100	110 < Ø ≤ 135	2,9 - 5,6	30	12,5	2130-0/0
	135 < Ø ≤ 160	3,2 - 4,7	30	15,0	

Squeezer Compact and Maxi Wrap	Annex C17
Construction details and resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipe elbow penetration seal in rigid floor	of European Technical Assessment ETA-17/0867

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/m³
- 2 Plastic pipe
- 3 Squeezer Compact, fixed at the bottom of the floor
- 4 Fastener M6x60, number of fasteners in accordance with Annex A

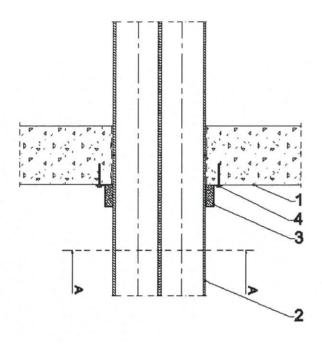
Resistance to fire classification of plastic pipes penetration seals in rigid floor, made with use of Squeezer Compact, placed in angle between 0° and 89° to the floor:

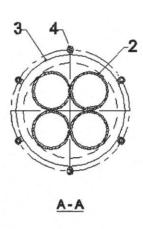
Table C18.1 PVC-U / PVC-C pipes

Pipe	Pipe diameter,	Pipe wall	Intumescent material		
material	[mm]	thickness, [mm]	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 32	1,8 – 3,4	30	5,0	
	32 < Ø ≤ 51	2,2 - 4,1	30	7,5	EI 120 – U/C EI 120 – C/C
	51 < Ø ≤ 71	2,5 - 4,9	30	10,0	
PVC-U /	71 < Ø ≤ 90	2,9 - 5,7	30	12,5	
1000	90 < Ø ≤ 110	3,2 - 6,5	30	15,0	21 120 - 0/0
	110 < Ø ≤ 135	3,2 – 5,6	60	17,5	
	135 < Ø ≤ 160	3,2 – 4,7	60	20,0	

Squeezer Compact and Maxi Wrap	Annex C18
Construction details and resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in rigid floor	of European Technical Assessment ETA-17/0867

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/m³
- 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

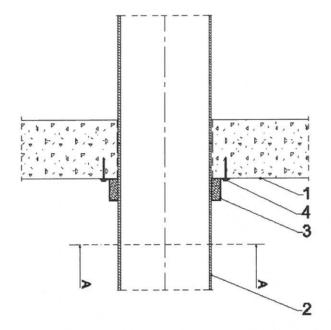
Resistance to fire classification of plastic pipes bundle penetration seals in rigid floor, made with use of Squeezer Compact:

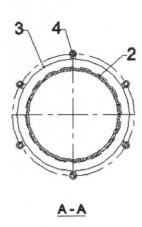
Table C19.1 PP-R pipes (maximum 4 pipes in bundle)

Pipe	Single pipe	Pipe wall	Intumescent material		
material	diameter, [mm]	The state of the s	width, [mm]	thickness, [mm]	Fire resistance class
	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	
DD D	40 < Ø ≤ 49	4,1 - 8,2	60	12,5	
PP-R	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	

Squeezer Compact and Maxi Wrap	Annex C19		
Construction details and resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipes bundle penetration seal in rigid floor	of European Technical Assessment ETA-17/0867		

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





- 1 Rigid floor with thickness ≥ 150 mm and density ≥ 600 kg/m³
- 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

Construction details of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in rigid floor

Annex C20

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

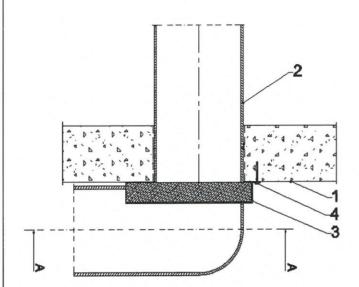
Pipe material	Pipe diameter,	Pipe wall	Intumescent material		
		Thickness	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 63 5,8 –	5,8 - 10,5	30	5,0	
	63 < Ø ≤ 87	5,8 - 9,2	30	7,5	EI 120 – U/C EI 120 – C/C
PP-R	87 < Ø ≤ 111	5,8 - 8,0	30	10,0	
	111 < Ø ≤ 135	5,7 - 6,8	30	12,5	
	135 < Ø ≤ 160	5,6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

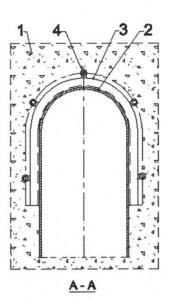
Table C21.3 PVC-U / PVC-C pipes

Pipe material	Pipe diameter, [mm]	Pipe wall	Intumescent material		
		Inickness	width, [mm]	thickness, [mm]	Fire resistance class
	Ø ≤ 63	2,0 - 5,1	30	5,0	
	63 < Ø ≤ 87	2,3 - 5,0	30	7,5	EI 120 – U/C EI 120 – C/C
	87 < Ø ≤ 111	2,6 - 4,9	30	10,0	
PVC-U / PVC-C	111 < Ø ≤ 135	2,9 - 4,8	30	12,5	
1 40-0	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	1

Squeezer Compact and Maxi Wrap	Annex C21
Resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipe penetration seal in rigid floor	of European Technical Assessment ETA-17/0867

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/m³
- 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,	Pipe wall	Intumescent material		
			width, [mm]	thickness, [mm]	Fire resistance class
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	

Squeezer Compact and Maxi Wrap	Annex C22
Construction details and resistance to fire classification of penetration seals made with use of Squeezer Compact Plastic pipe elbow penetration seal in rigid floor	of European Technical Assessment ETA-17/0867