



PE + PP + PVC pipes

dØ (mm)	service type ¹⁾		pipe insulation min. 60 kg/m ³ eg Armaflex	EI	constructive element ²⁾	Firetect joint seal width depth		application 1 or 2 sides	backing required	max. opening in construction	pipe end configuration	max. angle										
	s1 (mm)	non-standard config.				Graphite sealant																
max.																						
Ø110	PE	3,4 up to 10,0	-	EI 90	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	130 mm	U/C + C/C	perpendicular + all angles between 90° and 45°										
	PVC	2,7 up to 10,0	-																			
	PP	2,7 up to 6,3	-																			
	PE	3,4 up to 10,0	-	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	140 mm	U/C + C/C	perpendicular + all angles between 90° and 45°										
	PVC	2,7 up to 10,0	-																			
	PP	2,7 up to 6,3	-																			
individual test results																						
Ø90	PE	3,5 up to 8,2	-	EI 120	rigid walls ≥ 100 mm in FR mortar	10 mm	25 mm	2 sides	-	200 x 1000 mm	U/C + C/C	perpendicular + all angles between 90° and 45°										
	PVC	3,0 up to 8,2	-																			
	PP	3,0 up to 8,2	-																			
Ø110	PVC	3,2	max. 15° angle ³⁾	-	EI 90	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	130 mm	U/C + C/C	default: perpendicular + all angles between 90° and 45°									
	PE	1,0	PE bundle Ø16	-										EI 120	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	*	130 mm	-	
	PE	4,2	-	-										EI 120	flexible walls ≥ 100 mm	50 mm	25 mm	2 sides	-	210 mm	U/C + C/C	
	PE	4,2	-	synth. rubber 13mm										700 LS + LI + CS + CI	EI 90	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	156 mm	U/C + C/C
	PE	4,2	max. 30° angle ⁴⁾	-										EI 90	rigid walls ≥ 100 mm	10 mm	25 mm	2 sides	-	130 mm	U/C + C/C	
Ø125	PE	max. 11,4	-	EI 90	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	145 mm	U/C + C/C	default										

* smoke seal Acrylic between pipes on 2 sides

¹⁾ Penetration services must be supported; support distance ≤ 500mm (wall) or ≤ 400mm (floor).

²⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls ≥ 100mm is also applicable for rigid walls ≥ 100mm!

³⁾ Max. angle: perpendicular + all angles between 90° and 45° + 0° to max. 15°

⁴⁾ Max. angle: perpendicular + all angles between 90° and 45° + 0° to max. 30°