



**PE-Xa classification ≤ Ø54 mm**

Fire performances are valid for range of dØ pipe diameter + s1 pipe thickness within the same pipe material:

**PE-Xa acc. EN norms**  
dØ 15(28) up to 32(54) mm  
s1 2.2 up to 4.4 mm  
pipe brands eg Uponor, Rehau, Gebert  
pipe insulation brands eg Uponor, Armaflex

dØ	s1	pipe insulation	construct. type
<b>PE-Xa up to Ø32(54)</b>	2.2 up to 4.4 mm	<b>non-insulated</b>	<b>flexible + rigid walls + rigid floors</b>
	Ø 15 (28) x 2,5		
	Ø 16 (25) x 2,2		
<b>PE-Xa up to Ø32(54)</b>	2.2 up to 4.4 mm	+ pipe insulation <b>+ polyolefin rubber, min. 28 kg/m³</b>	<b>flexible + rigid walls + rigid floors</b>
	Ø 15 (28) x 2,5	10mm	
	Ø 16 (25) x 2,2	10mm	
	Ø 32 (54) x 4,4	20mm	

- 1: flexible wall ≥100mm
- 2: rigid wall ≥100mm
- 3: rigid wall ≥150mm
- 5: rigid floor ≥150mm

**suitable Firetect products within classification:**

Graphite sealant DoP CPR-14/0273		Acrylic sealant or PA sealer DoP CPR-14/0273		FMU collar DoP CPR-14/0251		Wrap DoP CPR-14/0251	
walls	floors	walls	floors	walls	floors	walls	floors
EI 90 in wall 1+2 EI 240 in wall 3	EI 240 in floor 5	EI 90 in wall 1+2 EI 240 in wall 3	EI 240 in floor 5	EI 60 in wall 1+2 EI 240 in wall 3 collar Ø40	EI 240 in floor 5 collar Ø40	EI 120 in wall 1+2+3 1 layer	
EI 120 in wall 1+2 EI 240 in wall 3	EI 240 in floor 5	EI 120 in wall 1+2 EI 240 in wall 3	EI 240 in floor 5	EI 120 in wall 1+2 EI 240 in wall 3 collar Ø40	EI 240 in floor 5 collar Ø40	EI 120 in wall 1+2+3 1 layer	
EI 120 in wall 1+2 EI 240 in wall 3	EI 240 in floor 5	EI 60 in wall 1+2 EI 180 in wall 3	EI 180 in floor 5	EI 120 in wall 1+2 EI 240 in wall 3 collar Ø63	EI 240 in floor 5 collar Ø63	EI 120 in wall 1+2+3 1 layer	
EI 120 in wall 1+2 EI 240 in wall 3	EI 240 in floor 5			EI 120 in wall 1+2 EI 120 in wall 3 collar Ø50	EI 120 in floor 5 collar Ø50	EI 120 in wall 1+2+3 2 layer	
EI 120 in wall 1+2 EI 240 in wall 3	EI 240 in floor 5			EI 120 in wall 1+2 EI 120 in wall 3 collar Ø50	EI 120 in floor 5 collar Ø50	EI 120 in wall 1+2+3 1 layer	
EI 90 in wall 1+2 EI 120 in wall 3	EI 90 in floor 5			EI 60 in wall 1+2 EI 240 in wall 3 collar Ø110	EI 240 in floor 5 collar Ø110	EI 90 in wall 1+2+3 2 layer	
joint details: min. W x D, default: walls: 10 x 25 mm, apply on 2 sides floors: 15 x 25 mm, apply on 2 sides		joint details: min. W x D, default: walls: 10 x 25 mm, apply on 2 sides floors: 15 x 25 mm, apply on 2 sides		default: walls: apply on 2 sides floors: apply on 1 side always apply smoke seal Acrylic sealant on 2 sides		default: walls: apply on 2 sides floors: apply on 1 side always apply smoke seal Acrylic sealant on 2 sides	

'eccentric to zero' position in opening is allowed

supporting construction

Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

Max. opening in constructive element:  
see principle detail.  
Use PA board if opening is larger; see how-to-read.

Penetration services must be supported;  
support distance walls max. 500mm  
support distance floors max. 400mm

Min. length pipe insulation LI / LS / CS / CI:  
see principle detail.

▶ INDEX

PE + PP + PVC

plastic cable conduits

PP-R

PP-MD

aluPE-X

PE-Xa

copper

steel

steel conduits

trays + ladders + wire mesh

cables + bundles

fire dampers

air transfer grilles

duct cladding

linear joints

socket boxes

how-to-read

acoustical

environmental