

**Notes:**

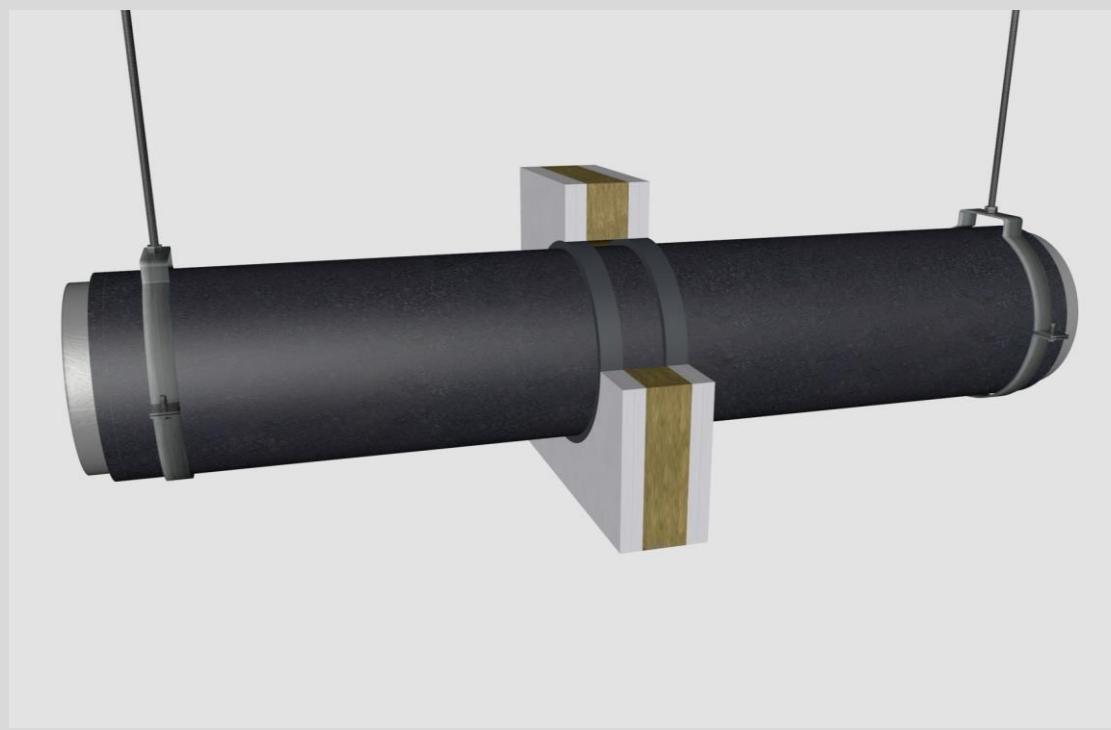
- installation instructions in [TDS](#)
- apply joint seal in opening, flush with wall/floor on 2 sides
- **other pipe dØ + s1** (thickness) are allowed within range and same pipe material
- EI for flexible walls ≥100mm is also applicable for **rigid walls** ≥100mm
- angle: perpendicular + all angles between 90° and 45°

**principle detail**

**Firetect®**

tested property  
test method  
service no.

fire resistance  
EN 1366-3  
19-3



## steel pipes

service type <sup>1)</sup> dØ (mm)	pipe insulation s1 (mm)	EI	constructive element <sup>2)</sup>	Graphite sealant		application 1 or 2 sides	backing required	max. opening in construction	pipe end configuration	max. angle	
				width	depth						
Ø15	1,0	synth. rubber 13mm	700 LS + LI + CS + CI	EI 120	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	61 mm	C/U + U/C + C/C
		25mm	700 LS + LI + CS + CI	EI 90	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	85 mm	C/U + U/C + C/C
Ø22	1,1	synth. rubber 13mm	700 LS + LI + CS + CI	EI 60	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	600 x 1200 mm + 25%	C/U + U/C + C/C
		13mm	700 LS + LI + CS + CI	EI 90	rigid walls ≥ 150 mm	10 mm	25 mm	2 sides	-	68 mm	C/U + U/C + C/C
		13mm	700 LS + LI + CS + CI	EI 90	rigid floors ≥ 150 mm	10 mm	25 mm	2 sides	-	68 mm	C/U + U/C + C/C
		13mm	700 LS + LI + CS + CI	EI 60	rigid floors ≥ 150 mm	10 mm	25 mm	2 sides	-	600 x 5000 mm	C/U + U/C + C/C
Ø35	1,5	synth. rubber 13mm	700 LS + LI + CS + CI	EI 90	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	81 mm	C/U + U/C + C/C
		25mm	700 LS + LI + CS + CI	EI 90	flexible walls ≥ 100 mm	6 mm	25 mm	2 sides	-	98 mm	C/U + U/C + C/C
Ø42,2	3,25	synth. rubber 10mm	1000 LS + LI + CS + CI	EI 120	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	82 mm	C/U + U/C + C/C
		10mm	1000 LS + LI + CS + CI	EI 240	rigid walls ≥ 150 mm	15 mm	25 mm	2 sides	-	102 mm	C/U + U/C + C/C
		10mm	1000 LS + LI + CS + CI	EI 240	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	102 mm	C/U + U/C + C/C
		13mm	700 LS + LI + CS + CI	EI 120	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	89 mm	C/U + U/C + C/C
		13mm	750 LS + LI + CS + CI	EI 180	rigid walls ≥ 150 mm	15 mm	25 mm	2 sides	-	98 mm	C/U + U/C + C/C
		13mm	750 LS + LI + CS + CI	EI 180	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	98 mm	C/U + U/C + C/C
		25mm	700 LS + LI + CS + CI	EI 120	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	112 mm	C/U + U/C + C/C
		25mm	750 LS + LI + CS + CI	EI 180	rigid walls ≥ 150 mm	15 mm	25 mm	2 sides	-	122 mm	C/U + U/C + C/C
		25mm	750 LS + LI + CS + CI	EI 180	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	122 mm	C/U + U/C + C/C
Ø101,6	3,6	synth. rubber 13mm	1000 LS + LI + CS + CI	EI 60	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	600 x 1200 mm + 25%	C/U + U/C + C/C
		13mm	1000 LS + LI + CS + CI	EI 90	rigid floors ≥ 150 mm	10 mm	25 mm	2 sides	-	148 mm	C/U + U/C + C/C
		13mm	1000 LS + LI + CS + CI	EI 60	rigid floors ≥ 150 mm	10 mm	25 mm	2 sides	-	600 x 5000 mm	C/U + U/C + C/C
<b>max.</b>											
Ø219,1	14,2	synth. rubber 10mm	1000 LS + LI + CS + CI	EI 90	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	259 mm	C/U + U/C + C/C
		10mm	1000 LS + LI + CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	269 mm	C/U + U/C + C/C
		13mm	1000 LS + LI + CS + CI	EI 120	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	265 mm	C/U + U/C + C/C
		13mm	750 LS + LI + CS + CI	EI 60	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	276 mm	C/U + U/C + C/C
		25mm	1000 LS + LI + CS + CI	EI 60	flexible walls ≥ 100 mm	10 mm	25 mm	2 sides	-	600 x 1200 mm	C/U + U/C + C/C
		25mm	750 LS + LI + CS + CI	EI 60	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	300 mm	C/U + U/C + C/C

in PA board 2S 50 mm

perpendicular + all  
angles between 90°  
and 45°

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

<sup>2)</sup> 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!