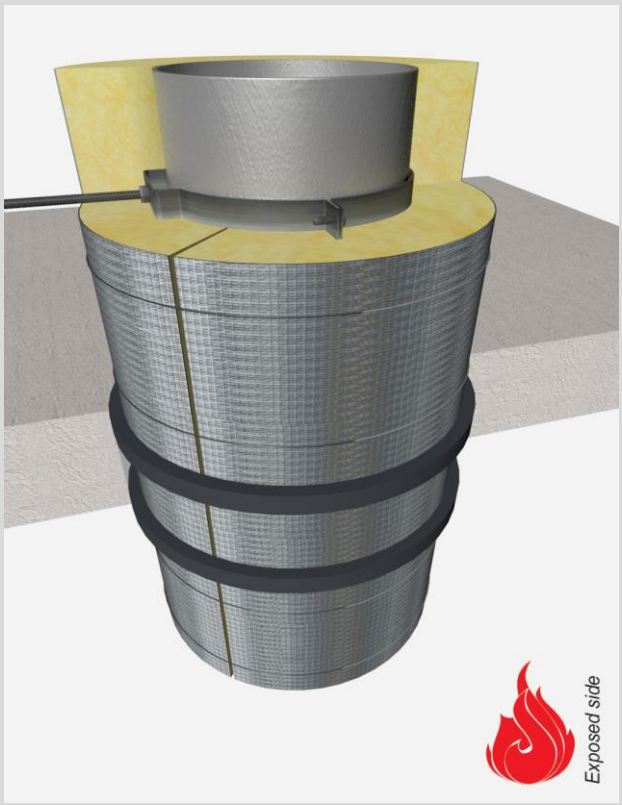
Notes:

- installation instructions in TDS
- apply joint seal in opening, flush with floor on 2 sides
- **other pipe dØ + s1** (thickness) are allowed within range and same pipe material
- angle: perpendicular + all angles between 90° and 45°

principle detail

Firetect®

tested property	fire resistance
test method	EN 1366-3
service no.	22-1



steel pipes

Graphite sealant

service type [1] dØ (mm)	s1 (mm)	pipe insulation [2] min. 75 kg/m³ eg Climpipe, Rockwool or U Protect Pipe Section Alu2		EI	constructive element [3]	Firetect joint seal width	Firetect joint seal depth	application 1 or 2 sides	backing required	max. opening in construction	pipe end configuration	max. angle
Ø15	1,0	glass / rock wool 20mm	1200 CS + CI	EI 240	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	85 mm	U/C + C/C	perpendicular + all angles between 90° and 45°
		30mm	1200 CS + CI	EI 240	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	105 mm	U/C + C/C	
		40mm	1200 CS + CI	EI 240	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	125 mm	U/C + C/C	
		50mm	1200 CS + CI	EI 240	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	145 mm	U/C + C/C	
		60mm	1200 CS + CI	EI 240	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	165 mm	U/C + C/C	
		80mm	1200 CS + CI	EI 240	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	205 mm	U/C + C/C	
Ø42,2	3,25	glass / rock wool 20mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	112 mm	C/U + U/C + C/C	
		30mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	132 mm	C/U + U/C + C/C	
		40mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	152 mm	C/U + U/C + C/C	
		50mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	172 mm	C/U + U/C + C/C	
		60mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	192 mm	C/U + U/C + C/C	
		80mm	1200 CS + CI	EI 180	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	244 mm	C/U + U/C + C/C	
Ø76	2,1	glass / rock wool 20mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	150 mm	U/C + C/C	
		30mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	166 mm	U/C + C/C	
		40mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	186 mm	U/C + C/C	
		50mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	206 mm	U/C + C/C	
		60mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	226 mm	U/C + C/C	
		80mm	1200 CS + CI	EI 240	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	266 mm	U/C + C/C	
max.												
Ø219,1	4,5	glass / rock wool 20mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	289 mm	C/U + U/C + C/C	
Ø219,1	4,5	30mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	309 mm	C/U + U/C + C/C	
Ø219,1	4,5	40mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	329 mm	C/U + U/C + C/C	
Ø219,1	4,5	50mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	349 mm	C/U + U/C + C/C	
Ø219,1	4,5	60mm	1200 CS + CI	EI 90	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	369 mm	C/U + U/C + C/C	
Ø219,1	4,5	80mm	1200 CS + CI	EI 180	rigid floors ≥ 150 mm	15 mm	25 mm	2 sides	-	409 mm	C/U + U/C + C/C	

[1] Penetration services must be supported; support distance ≤ 400mm.

[2] Pipe insulation must be fastened individually (not wrapped!) with steel wire: at max. 50mm + 300mm from constructive element.

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