



tested property
test method
service no.

fire resistance
EN 1366-3
22-1

steel pipes

Graphite sealant

service type ¹⁾ dØ (mm)	pipe insulation ²⁾ s1 (mm)	min. 75 kg/m ³ eg Climpipe, Rockwool or U Protect Pipe Section Alu2	EI	constructive element ³⁾	Firetect joint seal		application 1 or 2 sides	backing required	max. opening in construction	pipe end configuration	max. angle	
					width	depth						
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	perpendicular + all angles between 90° and 45°
		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	perpendicular + all angles between 90° and 45°
		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	perpendicular + all angles between 90° and 45°
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.