



tested property
test method
service no.

fire resistance
EN 1366-3
22-6

copper pipes

Graphite sealant

service type ¹⁾		pipe insulation ²⁾		EI	constructive element ³⁾	Firetect joint seal		application	backing required	max. opening in construction	pipe end configuration	max. angle
dØ (mm)	s1 (mm)	min. 75 kg/m ³ eg Climpipe, Rockwool	or U Protect Pipe Section Alu2			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	
max.												
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	

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.