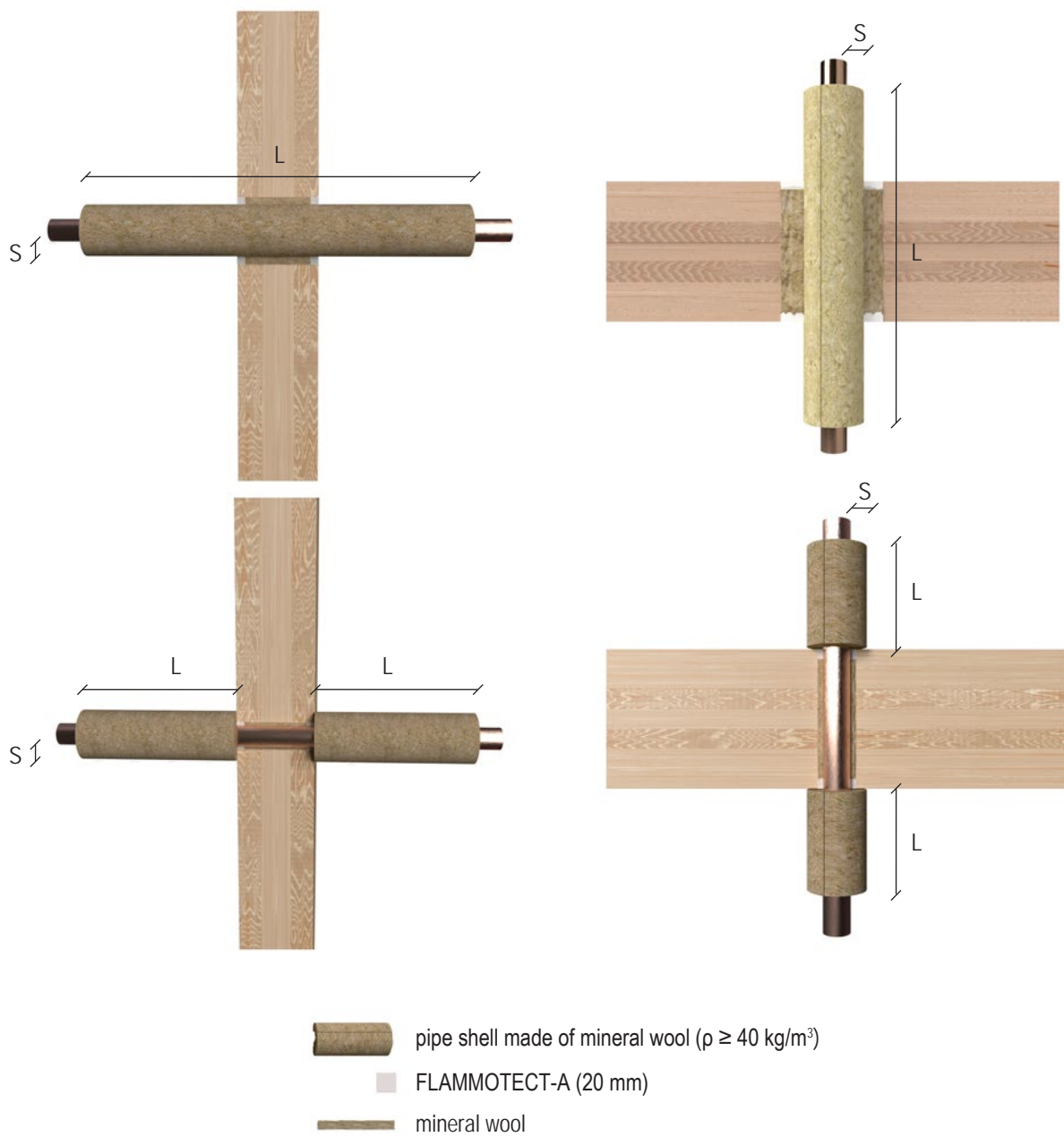


Non-combustible pipes in wall and floor seals – sustained (LS/CS) or interrupted (LI/CI) insulation



All specifications in mm

Wall						
Wall thickness ≥ 100 mm, CLT layers: 30/40/30						
Pipe material	Outer diameter [mm]	Pipe wall thickness [mm]	Insulation material	Insulation length L [mm]	Insulation thickness S [mm]	Fire resistance class
Copper, steel, stainless steel, cast iron	≤ 60.0	0.6–14.2	pipe shell	> 1000 or protruding ≥ 450 from both sides of the wall	50	EI 90 U/C*
	≤ 28.0	1.0–14.2	lamella mat		20	
Steel, stainless steel, cast iron	≤ 28.0	1.0–14.2	pipe shell	> 500 or protruding ≥ 200 from both sides of the wall	20–40	EI 90 U/C**
	≤ 42.0	1.5–14.2	pipe shell			
	≤ 114.3	1.0–14.2	pipe shell	entire length of pipe	≥ 30	
			lamella mat		≥ 60	

Floor						
Floor thickness: ≥ 100 mm, CLT layers: 40/20/20/20/40						
Pipe material	Outer diameter [mm]	Pipe wall thickness [mm]	Insulation material	Insulation length L [mm]	Insulation thickness S [mm]	Fire resistance class
Copper, steel, stainless steel, cast iron	≤ 54.0	1.0–14.2	pipe shell	> 1000 or protruding ≥ 430 from both sides of the wall	20–50	EI 90 U/C*
Steel, stainless steel, cast iron	≤ 54.0	1.0–14.2			20–100	EI 90 U/C**
	$> 54.0 - \leq 114.3$				30–100	

* In CLT walls and floors with the fire resistance class EI 120 these pipes can also attain EI 120 at a diameter of ≤ 54 mm.

** In CLT walls and floors with the fire resistance class EI 120 these pipes can also attain EI 120 at a diameter of ≤ 114 mm.

Zero Distances

Possible zero distances for single pipe penetrations

Wall					
	Pipe material	Outer diameter [mm]	Pipe wall thickness [mm]	Type of insulation	Insulation length [mm]
Pipe 1	Steel, stainless steel, cast iron	≤ 28	1.0–14.2	aluminium laminated mineral wool	1000 sustained (LS)
Pipe 2		≤ 42	1.5–14.2		

Floor						
	Pipe material / type	Outer diameter [mm]	Pipe wall thickness [mm]	Type of insulation	Insulation length [mm]	Insulation thickness [mm]
Pipe 1	Copper, steel, stainless steel, cast iron	≤ 28	1.0–14.2	aluminium laminated mineral wool or Rockwool RS 800	1000 sustained (LS)	20
Pipe 2		≤ 54	1.5–14.2			
Pipe 3	Geberit Silent-db20	≤ 110	3.2–6.0	PE soundproofing tube ≤ 5 mm + AWM II	50 from pipe collar or 50 from building element (upper side of floor)	5
Pipe 1	Copper, steel, stainless steel, cast iron	≤ 28	1.0–14.2	aluminium laminated mineral wool or Rockwool RS 800	1000 sustained (LS)	20
Pipe 2		≤ 42	1.5–14.2			
Pipe 3	POLOPLAST POLO-KAL NG	≤ 110	2.0–3.4	PE soundproofing tube ≤ 5 mm + AWM II	50 from pipe collar or 50 from building element (upper side of floor)	5
Pipe 1	Steel, stainless steel, cast iron	≤ 28	1.0–14.2	aluminium laminated mineral wool or Rockwool RS 800	1000 sustained (LS)	20
Pipe 2		≤ 48	1.5–14.2			
Pipe 3	Geberit Silent-db20	≤ 110	3.2–6.0	PE soundproofing tube ≤ 5 mm + AWM II	50 from pipe collar or 50 from building element (upper side of floor)	5
Pipe 1	Geberit Silent-db20	≤ 110	3.2–6.0	PE soundproofing tube ≤ 5 mm + AWM II	50 from pipe collar or 50 from building element (upper side of floor)	5
Pipe 2						