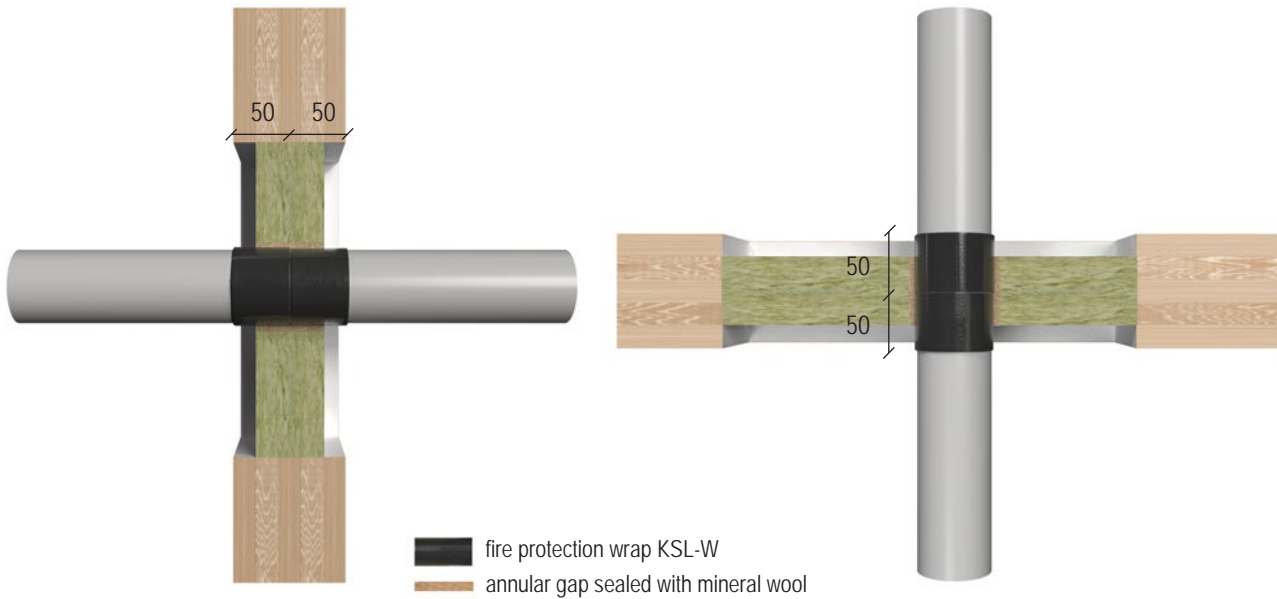


## Combustible pipes with fire protection wrap in wall and floor seals



All specifications in mm

### Wall – standard pipes

Pipe material	Outer diameter [mm]	Pipe wall thickness [mm]	KSL-W					Fire resistance class	
			Wrap width [mm]	Number of wraps [n]	Overlap	Inside seal [mm]	Outside seal [mm]		Number of layers [n]
PVC-U, PVC-C	32.0–50.0	2.4–5.6	50	2	0	2 × 30	2 × 20	2	EI 60 U/U
	63.0–75.0	2.8–4.6						3	EI 60 U/U
	90.0–110.0	3.2						4	EI 60 U/U
PE-HD, ABS, SAN + PVC	32.0–50.0	1.8–4.6						2	EI 60 U/U
	63.0–75.0	2.2–5.4						3	EI 60 U/U
		> 5.4–6.9						4	EI 30 U/U
	90.0–110.0	2.7–6.6						4	EI 60 U/U
> 6.6–10.0		4						EI 30 U/U	
PP-H	32.0–50.0	2.0–6.9						2	EI 90 U/U
	63.0–75.0	2.2–8.1						3	EI 60 U/U
		2.6–5.5						3	EI 90 U/U
	90.0	2.9–4.5	4	EI 90 U/U					
	90.0–110.0	2.7–10.0	4	EI 60 U/U					
		110.0	3.4	4	EI 90 U/U				

### Wall – non-standard pipes

Type of pipe	Outer diameter [mm]	KSL-W					Fire resistance class	
		Wrap width [mm]	Number of wraps [n]	Overlap	Inside seal [mm]	Outside seal [mm]		Number of layers [n]
REHAU RAUPIANO LIGHT, CONEL DRAIN	50	50	2	0	2 × 30	2 × 20	2	EI 90 U/U
	≤ 110.0						4	EI 90 U/U
Geberit Silent-db20	56						2	EI 90 U/U
	≤ 110.0						4	
Geberit Silent-PP	50						2	EI 60 U/U / E 90 U/U
	≤ 110.0						4	
Geberit Silent-Pro	50						2	EI 60 U/U / E 90 U/U
	≤ 110.0						4	

Wall – non-standard pipes								
Type of pipe	Outer diameter [mm]	KSL-W						Fire resistance class
		Wrap width [mm]	Number of wraps [n]	Overlap	Inside seal [mm]	Outside seal [mm]	Number of layers [n]	
POLOPLAST POLO-KAL 3S	75.0	50	2	0	2 × 30	2 × 20	3	EI 60 U/U / E 90 U/U
	≤ 110.0						4	
POLOPLAST POLO-KAL NG POLOPLAST POLO-KAL XS	50						2	EI 90 U/U
	≤ 110.0						4	
REHAU RAUPIANO PLUS	50.0						2	EI 90 U/U
	≤ 110.0						4	EI 90 U/U
Wavin AS+	50						2	EI 90 U/U
	≤ 110.0						4	

Floor – standard pipes									
Pipe material	Outer diameter [mm]	Pipe wall thickness [mm]	KSL-W						Fire resistance class
			Wrap width [mm]	Number of wraps [n]	Overlap	Inside seal [mm]	Outside seal [mm]	Number of layers [n]	
PVC-U, PVC-C	32.0–50.0	2.4	50	2	0	2 × 30	2 × 20	2	EI 60 U/U
		2.4–3.7						EI 30 U/U	
	63.0	3						EI 30 U/U	
	75.0	3						EI 30 U/U	
	90.0	4						EI 30 U/U	
	110.0	4						EI 30 U/U	
PE-HD, ABS, SAN + PVC	32.0–50.0	1.8–4.6						2	EI 90 U/U
	63.0–75.0	2.2–6.9						3	EI 90 U/U
	90.0–110.0	2.7–10.0						4	EI 90 U/U
PP-H	32.0	6.9						2	EI 90 U/U
	32.0–50.0	2.0–6.9	2	EI 60 U/U / E 90 U/U					
		2.3–8.1	3	EI 60 U/U / E 90 U/U					
	63.0–75.0	5.1–6.7	3	EI 90 U/U					
		2.7–6.3	4	EI 90 U/U					
	90.0–110.0	2.7–10.0	4	EI 60 U/U / E 90 U/U					

Floor – non-standard pipes									
Type of pipe	Outer diameter [mm]	KSL-W						Fire resistance class	
		Wrap width [mm]	Number of wraps [n]	Overlap	Inside seal [mm]	Outside seal [mm]	Number of layers [n]		
REHAU RAUPIANO LIGHT, CONEL DRAIN	50	50	2	0	2 × 30	2 × 20	2	EI 60 U/U / E 90 U/U	
Geberit Silent-db20	56						2	EI 90 U/U	
	≤ 110						4	EI 90 U/U	
Geberit Silent-PP	50						2	EI 60 U/U / E 90 U/U	
	≤ 110						4	EI 60 U/U / E 90 U/U	
Geberit Silent-Pro	50						2	EI 90 U/U	
	≤ 110						4	EI 90 U/U	
POLOPLAST POLO-KAL 3S	75						3	EI 60 U/U / E 90 U/U	
	≤ 110						4	EI 60 U/U / E 90 U/U	
POLOPLAST POLO-KAL NG POLOPLAST POLO-KAL XS	50						2	EI 60 U/U	
REHAU RAUPIANO PLUS	≤ 110						4	EI 60 U/U	
	50						2	EI 60 U/U / E 90 U/U	
Wavin AS+	50						2	EI 90 U/U	
	≤ 110						4	EI 90 U/U	