

APPLICATION OVERVIEW

Type of penetration	Seals without penetrations						Cables						Steel pipes	Copper pipes	Alupex pipes	ventilation ducts	Plastic Pipes												
	30mm	50mm	100mm	300x300mm	1200x2400mm	1200x∞mm	≤Ø 21 single	≤Ø 21 bundled	≤Ø 50 single	≤Ø 50 bundled	≤Ø 80 single	≤Ø 80 bundled	Trays & ladders	Without insulation ≤Ø 325	Without insulation ≤Ø 54	Without insulation ≤Ø 75	≤1.2m x 1.7m ≤Ø 1250	≤Ø 32	≤Ø 40	≤Ø 75	≤Ø 110	≤Ø 160	≤Ø 400	Conduits	PEX pipe-in-pipe				
FR PUTTY CORD	x	x	x	x	x	x	√	√	√	√	√	x	x	√	√	√	√	x	√ ²⁾	√ ²⁾	x	x	x	x	x	x	x		
FR COLLAR	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	√	√	√	√	√	x	x		
FR ACRYLIC	√	√	√	√	x	x	√	√	√	√	√	√	x	√	√	√	√	√	√ ²⁾	√ ²⁾	√	√	√	x	x	x	√	√	
FR GRAPHITE	x	x	x	x	x	x	√	x	x	x	x	x	√	x	x	x	x	x	x	x	x	√	√	√	√	x	x	√	x
FR IPT	√	x	x	x	x	x	x	x	x	x	x	x	x	√	x	√	x	√	x	x	x	x	x	x	x	x	x		
FR FOAM	√	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
EX MORTAR	√	√	√	√	√	x	√	√	√	√	√	√	√	√	√	√	√	√	√	√ ²⁾	√ ²⁾	√	√	√ ¹⁾	√ ¹⁾	√ ¹⁾	√ ¹⁾	√	√ ¹⁾
FR BOARD	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√ ²⁾	√ ²⁾	√	√ ¹⁾	√ ¹⁾	√ ¹⁾	√ ¹⁾	√	√ ¹⁾	
FR PIPE WRAP	x	x	x	x	x	x	x	x	x	x	x	x	x	x	√	x	√	x	√	x	x	√	√	√	√	√	√		
FR SERVICE TRANSIT	x	x	x	x	x	x	√	√	x	x	x	x	x	x	x	x	x	x	x	x	√	x	x	x	x	x	√	x	
FR DAMPER	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	√	√	x	x	x	x	x	x	x	

√ = Yes x = No ¹⁾ With Protecta® FR Pipe Wrap. ²⁾ With Protecta® FR Damper.