



PE/PP/PVC pipes

pipe Ø (mm) pipe type pipe thickness (mm) construct. type

standard classification ≤ Ø250 mm

individual test results ≤ Ø400: see page 2

≤ Ø110	PE	(3,4 up to 10,0)	1+2+3+4+5
	PP	(2,7 up to 6,3)	
Ø125	PVC	(2,7 up to 10,0)	1+2+3+5
		MIXED	
Ø140 - 160	collar screwed on PA board or cast-in collar in PA board		
	PE	(3,9 up to 11,7)	1+2+3+5
	PP	(3,1 up to 7,1)	
PVC	(3,1 up to 11,7)		
Ø200	PE	(4,9 up to 14,6)	1+2+3+5
	PP	(4,0 up to 14,6)	
	PVC	(4,0 up to 14,6)	
≤ Ø250	PE	(6,2 up to 18,2)	1+2+3
	PP	(4,9 up to 18,2)	
	PVC	(4,9 up to 18,2)	
≤ Ø250	PE	(9,6 up to 22,7)	1+2+3
	PP	(6,2 up to 22,7)	
	PVC	(6,2 up to 16,1)	
in FR mortar / onto PA board			

Graphite DoP CPR-14/0273	or	Acrylic or PA sealer DoP CPR-14/0273	or	FMU collar DoP CPR-14/0251	or	Wrap DoP CPR-14/0251
<i>for higher EI requirements, see individual test results on page 2</i>						
EI 90 U/C walls + floors walls, joint 10x25mm floors, joint 15x25mm		<i>PE/PVC ≥ Ø16 ≤ Ø50, see page 2</i>		EI 60 U/C in walls EI120 U/C in floors 4 + 5 EI 90 U/C in floors		EI 120 U/C in walls EI 180 U/C in floors Wrap: 2 layers
<i>U/U for ventilation pipes, see page 2</i>				in FR mortar or PA board: EI 60 U/C walls + floors EI 60 U/C walls + floors		EI 60 U/C in walls Wrap: 2 layers EI 180 U/C in floors Wrap: 3 layers
EI 30 U/C in walls joint 10x25mm ≥ EI 60, see page 2				EI 60 U/C in walls EI 90 U/C in floors		EI 60 U/C in walls Wrap: 2 layers EI 180 U/C in floors Wrap: 3 layers
				EI 60 U/C in walls EI 90 U/C in floors		EI 180 U/C in floors Wrap: 3 layers
				EI 60 U/C in walls		
				EI 60 U/C in walls		
				in FR mortar or PA board: EI 60 U/C in walls		

opening in supporting construction		
max. opening (mm)	FR mortar DoP CPR-14/0260	or PA board DoP CPR-14/0260
mastic: 130 up to 210 wrap: up to 132 collar: Ø + ≤15		
walls: 600x1200 + 25% = 0.9 m ² floors: 600x5000	FR mortar 100mm	PA board with spiral screws 2x 50mm 2S
mastic: 145 collar / wrap: Ø + ≤15		
Ø + ≤15		
Ø + ≤15		
Ø + ≤15		
400x1375	FR mortar 100mm	PA board with spiral screws 2x 50mm 2S

use PA board if annular space of pipe is larger; see How-to-read

- 1 walls: metal stud ≥100mm
- 2 walls: blockwork ≥100mm
- 3 walls: blockwork ≥150mm
- 4 floors: metal stud ceilings ≥150mm
- 5 floors: aerated concrete ≥150mm (default floor type)

mastic: apply on **2 sides**, also in floors!
joint details: min. W x D in mm

collar + wrap: apply with smoke seal Acrylic on **2 sides**, also in floors!

NOTE:

PVC conduits + hdPE pipes: see chart [CABLES](#)

[go to
INDEX](#)



PE/PP/PVC pipes

pipe Ø (mm) pipe type pipe thickness (mm) construct. type

individual test results ≤ Ø400 mm

in stone wool or mortar	PE ≤ Ø110 (3,4)	1+2+3
	PP Ø125 collar screwed onto PA board box (3,1)	
	PVC ≤ Ø110 (3,2)	
in mortar	PE ≤ Ø90 (3,5 up to 8,2)	2+3
	PP ≤ Ø90 (3,0 up to 8,2)	
	PVC ≤ Ø90 (3,0 up to 8,2)	3
	PVC Ø200 collar cast-in 6,0	
U/U	PE ≤ Ø110 (3,4)	1+2+3
	PP ≤ Ø110 (2,7)	
	PE/PP/PVC ≤ Ø110 ≤ 10mm	
	oversized collar	
electrical Ø16	1x PE Ø16 (1,0)	1+2+3+5
	≤ 29x PE Ø16 bundled (1,0)	1+2+3
	≤ 2x PVC Ø16 in FR mortar or PA board (1,0)	
angled	PVC ≤ Ø110 max. 15° (3,2)	1+2+3
	PE ≤ Ø110 max. 15/30° (4,2)	2+3
	PE Ø125 max. 45° in open U-shape (3,9)	5
	oversized collar	
bundled	≤ 3x PE Ø110 bundled collars chained (3,4)	2+3
XXL	PVC Ø315 - 400 (12,5)	3
other non-standard situations	PVC ≤ Ø50 (3,4)	1+2+3
	PE ≤ Ø110 (4,2)	
	+ Armaflex 13mm 700LS (4,2)	
	+ Armaflex 13mm 1000CS (3,4)	
	PVC ≤ Ø125 + pipe joint (3,7)	
	PE Ø125 (3,9 up to 11,4)	

Graphite DoP CPR-14/0273	or	Acrylic or PA sealer DoP CPR-14/0273	or	FMU collar DoP CPR-14/0251	or	Wrap DoP CPR-14/0251
<i>standard classification ≤ Ø250, see page 1</i>						
						EI 60 U/C in walls EI 30 U/C in walls Wrap: 2 layers
						EI 90 U/C in walls
						EI 90 U/C in floors Wrap: 2 layers
						EI 120 U/C in walls Wrap: 1 layer
						EI 60 C/U in walls
						EI 120 U/U in walls EI 120 U/U in walls EI 30 U/U in walls oversized Ø110 collar
						EI 120 U/C in walls + floors 8mm bead or joint min. 5x10mm
						EI 120 U/C in walls joint 10x25mm
						EI 120 C/C in walls joint 10x25mm
						EI 90 U/C in walls joint 10x25mm
						EI 90 U/C in walls joint 10x25mm
						EI 120 U/C in walls oversized Ø125 collar
						EI 180 U/C in floors EI 120 U/C in floors
						EI 90 U/C in walls
						EI 90 C/C in walls
						EI 120 U/C in walls joint 10x25mm
						EI 120 U/C in walls joint 50x25mm
						EI 60 U/C in walls joint 10x25mm
						EI 30 U/C in walls oversized Ø125 collar
						EI 90 U/C in walls
						EI 60 U/C in walls joint 10x25mm

opening in supporting construction		
max. opening (mm)	FR mortar DoP CPR-14/0260	or PA board DoP CPR-14/0260
600x1200	100mm	2x 50mm 2S
600x600	50mm	1x 50mm 2S
125		with spiral screws 1x 50mm 2S
400x400	FR mortar 50mm	PA board 1x 50mm 2S
mastic: 110	FR mortar	
wrap: 200x1000	100mm	
255		
110		
16 up to 76		
130		
450x200	FR mortar 50mm	PA board 1x 50mm 2S
130		
mastic: 130 collar: 115		
125		
3x 115		
405		
70		
210		
156		
127		
125		
145		

- 1 walls: metal stud ≥100mm
- 2 walls: blockwork ≥100mm
- 3 walls: blockwork ≥150mm
- 5 floors: aerated concrete ≥150mm

use PA board if annular space of pipe is larger; see How-to-read

mastic: apply on 2 sides, also in floors!
joint details: min. W x D in mm

collar + wrap: apply with smoke seal Acrylic on 2 sides, also in floors!

go to
INDEX