

**Notes:**

- installation instructions in [TDS](#)
- apply smoke seal Firetect Acrylic on 2 sides (default)
- **other pipe dØ + s1** (thickness) are allowed within range and same pipe material
- angle: perpendicular + all angles between 90° and 45° (default for range) or 45° (individually tested)

principle detail

Firetect®

tested property

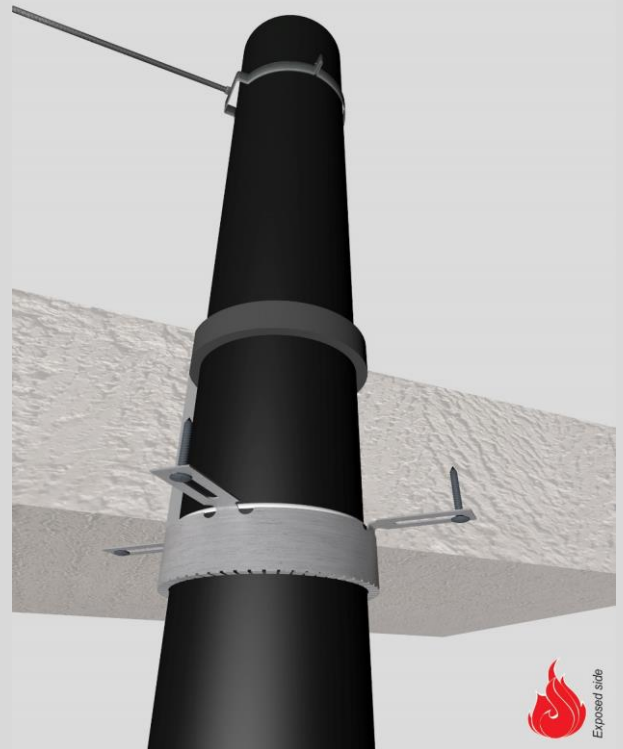
test method

service no.

fire resistance

EN 1366-3

0178r



## PE + PP + PVC pipes

**FMU collar**

dØ (mm)	service type <sup>1)</sup>		non-standard config.	EI	constructive element <sup>2)</sup>	Firetect pipe collar Ø in mm	application 1 or 2 sides	finish required	max. opening in construction	pipe end configuration	
	s1 (mm)										
<b>up to</b>											
Ø110	PE	3,4 up to 10,0	screwed on or cast-in	EI 120	rigid floors ≥ 150 mm	Ø110	1 side	<sup>3)</sup>	110 mm	U/C + C/C	perpendicular + all angles between 90° and 45°
	PVC	2,7 up to 10,0		EI 120	flexible ceilings ≥ 150 mm	Ø110	1 side	<sup>3)</sup>	110 mm	U/C + C/C	
	PP	2,7 up to 6,3		EI 60	rigid floors ≥ 150 mm	Ø110	1 side	*	600x5000 mm	U/C + C/C	
Ø140	PE	4,9 up to 14,6		EI 90	rigid floors ≥ 150 mm	Ø140	1 side	*	140 mm	U/C + C/C	perpendicular + all angles between 90° and 45°
	PVC	4,0 up to 14,6									
	PP	4,0 up to 14,6									
<b>max.</b>											
Ø160	PE	4,9 up to 14,6		EI 90	rigid floors ≥ 150 mm	Ø160	1 side	*	160 mm	U/C + C/C	perpendicular + all angles between 90° and 0°
	PVC	4,0 up to 14,6									
	PP	4,0 up to 14,6									
<b>individual test results</b>											
Ø125	PE	3,9	max. 45° angle, ellipse shape	EI 120	rigid floors ≥ 150 mm	Ø160	1 side	*	125 mm	U/C + C/C	perpendicular + all angles between 90° and 0°
	PE	3,9	max. 45° angle, open collar	EI 180	rigid floors ≥ 150 mm	Ø200	1 side	*	125 mm	U/C + C/C	

in PA board 2S 50 mm

\* smoke seal Acrylic on 2 sides

<sup>1)</sup> Penetration services must be supported; support distance ≤ 400mm.

<sup>2)</sup> Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

<sup>3)</sup> smoke seal Acrylic on exposed side; Graphite 8x25mm on unexposed side.