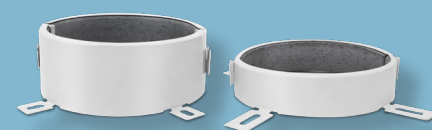


E411d.pl Technical Data Sheet



Firewin

2018-12

Knauf Firecollar

Product description

Knauf Firecollar consists of a white coated circular steel shell that splits in two to fit around the service penetrations by means of a simple 'slide-lock' system.

The steel frame contains a graphite based swelling material that reacts to heat and fills the opening from the melting plastic through-penetration in case of a fire.

Storage

Unlimited storage time when stored in temperatures between 5°C and 30°C.

Scope of application

Knauf Firecollar are designed to maintain the fire resistance of fire rated walls and floors where these are breached by continuous plastic pipes, and may be used in gypsum, masonry and concrete walls and floors.

It may be fitted both on the outside of a wall or a floor.

Available in the following sizes:

Ø32mm/30mm, Ø32mm/50mm, Ø40mm/30mm, Ø40mm/50mm, Ø55mm/30mm, Ø55mm/50mm, Ø63mm/30mm, Ø63mm/50mm, Ø75mm/30mm, Ø75mm/50mm, Ø82mm/30mm, Ø82mm/50mm, Ø90mm/30mm, Ø90mm/50mm, Ø110mm/30mm, Ø110mm/50mm, Ø125mm/60mm, Ø140mm/60mm Ø160mm/60mm

Properties

- Classified for fire sealing in all types of constructions
- Excellent sound insulation
- No emissions - environmentally and user friendly
- Simple to install using widely available standard screws
- Collars come in two different heights for different fire classifications to maximize cost efficiency
- Very high fire classifications up to 240 minutes for both integrity and insulation
- 30 years working life guarantee
- [ETA-18/0934](#)
- EAD 350141-00-1104

Technical Data	
Technical Approval	EAD 350454-00-1104
Durability according to EAD 350454-00-1104	Z2 intended for use in internal conditions with humidity classes other than Z1, excluding temperatures below 0 °C.
Shell	Powder coated 1mm steel
Conditioning procedure	EN 13238:2010
Expansion ratio	17:1
Expansion pressure	65.4 N
Colour	White shell with anthracite inlay
Graphite weight	1.4 kg/m ² per mm thickness
Graphite density	1409 kg/m ³
Normal expansion time	Less than 2 minutes
Minimum expansion temperature	105 °C
Storage	Store in temperatures between 5 °C and 30 °C
Life	Under normal conditions; 30 years +

Pipe end configurations

When testing pipes, one can choose not to cap (or close) the pipe, or cap the pipe inside the furnace, or outside the furnace, or on both sides. The configuration chosen depends on the intended application of the pipe and/or the installation environment. The code defining if a pipe is capped is stated after the fire classification. For instance EI 60 C/U which means the pipe was capped inside the furnace, and uncapped outside the furnace. The test configuration defines the approvals possible.

Our suggestions for engineering judgments are:

Pipe end configurations:		
Intended use of pipe		Pipe end condition
Rainwater pipe, plastic	At roof	C/U
	Further below	C/C
Drainage or sewage pipe, plastic	At drainage	C/U
	Further below	C/C
Pipes in closed circuits (water, gas, vacuum systems, el. etc.)		C/C
Pipes with open ends and at least 50cm pipe on both sides		U/U

Sound insulation:	
Description	Sound reduction
Collars installed as described in walls	58 dB RW
<p>The sound insulation value is only valid for the collar/pipe and not for other elements in the building construction.</p> <p>The sound insulation has been tested by the accredited laboratory Exova BM Trada in Great Britain according to EN ISO 10140-2. Test report is available upon request.</p>	

Safety:
Please observe the EC Safety Data Sheet.

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