



### PIPE COLLAR

#### GENERAL PRODUCT DESCRIPTION

GRAFT® Pipe Collars are designed to maintain the fire resistance of fire rated walls and floors where these are breached by service penetrations, and may be used in drywalls, masonry or concrete walls and floors.

Each collar 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 shell contains a graphite based reactive material which reacts when exposed to heat from fire closing the openings left by the softening combustible material.



#### PROPERTIES

- High end fast expanding patented graphite material, certified Worldwide
- Classified for fire sealing all types of constructions and many different building service penetrations including plastic pipes, composite pipes, metal pipes and cable bundles
- Approved plastic pipe sizes range from smallest pipes available to Ø 400mm, each with a wide range of pipe wall thicknesses
- Collars are available in two different heights for different fire classifications to maximise cost efficiency
- Smaller pipes can be fitted within larger collars with the benefit of accommodating pipes that are at an angle, or if the opening around the pipe is too large
- Fire classifications up to 240 minutes for both integrity and insulation
- Tested and certified for U/U pipe end applications
- Very high sound insulation
- Causes no deleterious effects on cPVC pipes like BlazeMaster, supported by mechanical testing evidence
- No emissions - environmentally and user friendly
- Simple to install using widely available standard fixings
- Unlimited storage time (under correct conditions)
- 30 years working life guarantee

#### SOUND INSULATION

Description	Sound reduction
Collars installed as described in walls	RW 58 dB

The sound insulation value is only valid for the collar/pipe and not for other elements in the building construction.

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.

#### 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 engineering judgment based on EN 1366-3:2009 are:

Intended use of pipe	Pipe end condition <sup>4)</sup>	
Rainwater pipe, plastic	At drainage	U/U <sup>1)</sup>
	Not at drainage	C/C <sup>2)</sup>
Drainage or sewage pipe, plastic	Ventilated drain	U/U <sup>1)</sup>
	Unventilated drain	U/C <sup>1)</sup>
	Drain w/water trap	U/C <sup>1)</sup>
	Not at drainage	C/C <sup>2)</sup>
Pipe in closed circuit (water, gas, air, electricity etc.)	C/C <sup>2)3)</sup>	
Flue gas recovery system pipe, plastic	U/C <sup>1)</sup>	
Pipe with open ends and ≥ 50cm length on both sides, plastic	U/U <sup>2)</sup>	
Pipe supported by suspension system, metal	Fire rated support	C/U <sup>1)</sup>
	Non-fire rated	U/C <sup>1)</sup>
Waste disposal shaft pipe, metal	U/C <sup>1)</sup>	

<sup>1)</sup> Suggested in EN 1366-3:2009.

<sup>2)</sup> Polyseam's judgment based on tests.

<sup>3)</sup> Metal pipes should have fire rated support.

<sup>4)</sup> U/U classified fire seals cover C/U, U/C and C/C. C/U classified fire seals cover U/C and C/C. U/C classified fire seals cover C/C.

Remark: As a part of our policy of on-going product development and testing, we reserve the right to modify, alter or change product specifications without giving notice. All information contained in this document is given in good faith and is provided for guidance only. Any drawings provided are for illustrative purposes only. As Polyseam has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied, are intended to be given as to the actual performance of the product mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given.



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#### SIZES & PACKAGING

Product code	Product diameter & height	Qty / Box
GFT033-32-30-GB	GRAFT Pipe Collar Ø32 / 30mm	24
GFT033-32-GB	GRAFT Pipe Collar Ø32 / 50mm	24
GFT033-40-30-GB	GRAFT Pipe Collar Ø40 / 30mm	24
GFT033-40-GB	GRAFT Pipe Collar Ø40 / 50mm	24
GFT033-55-30-GB	GRAFT Pipe Collar Ø55 / 30mm	24
GFT033-55-GB	GRAFT Pipe Collar Ø55 / 50mm	24
GFT033-63-30-GB	GRAFT Pipe Collar Ø63 / 30mm	24
GFT033-63-GB	GRAFT Pipe Collar Ø63 / 50mm	24
GFT033-75-30-GB	GRAFT Pipe Collar Ø75 / 30mm	24
GFT033-75-GB	GRAFT Pipe Collar Ø75 / 50mm	24
GFT033-82-30-GB	GRAFT Pipe Collar Ø82 / 30mm	24
GFT033-82-GB	GRAFT Pipe Collar Ø82 / 50mm	24
GFT033-90-30-GB	GRAFT Pipe Collar Ø90 / 30mm	24
GFT033-90-GB	GRAFT Pipe Collar Ø90 / 50mm	24
GFT033-110-30-GB	GRAFT Pipe Collar Ø110 / 30mm	24
GFT033-110-GB	GRAFT Pipe Collar Ø110 / 50mm	24
GFT033-125-GB	GRAFT Pipe Collar Ø125 / 60mm	20
GFT033-140-GB	GRAFT Pipe Collar Ø140 / 60mm	12
GFT033-160-GB	GRAFT Pipe Collar Ø160 / 60mm	12
GFT033-200-GB	GRAFT Pipe Collar Ø200 / 75mm	1
GFT033-250-GB	GRAFT Pipe Collar Ø250 / 75mm	1
GFT033-315-GB	GRAFT Pipe Collar Ø315 / 75mm	1
GFT033-400-GB	GRAFT Pipe Collar Ø400 / 100mm	1

Collars ≤ Ø 160mm are available in white and red. For red collars -R is added to end of product code.

#### TECHNICAL DATA

<b>Condition</b>	Ready for use, steel shell with a graphite material
<b>Shell</b>	Powder coated 1mm steel
<b>Conditioning procedure</b>	EN 13238:2010
<b>Expansion ratio</b>	17:1
<b>Expansion pressure</b>	65.4 N
<b>Graphite weight</b>	1.4 kg/m <sup>2</sup> per mm thickness
<b>Graphite density</b>	1409 kg/m <sup>3</sup>
<b>Normal expansion time</b>	Less than 2 minutes
<b>Minimum expansion</b>	105 °C
<b>Durability</b>	Z <sub>2</sub> intended for use in internal conditions with humidity classes other than Z <sub>1</sub> , excluding temperatures below 0 °C.
<b>Life</b>	Under normal conditions; 30 years +
<b>Storage</b>	May be stored for a long period of time. To be stored in temperatures between 5°C and 30°C
<b>Installation temp.</b>	+5°C to +50°C (sealant)
<b>Colour</b>	White or red shell with anthracite inlay

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