



## PRODUCT DESCRIPTION

iPASSIVE FR Collars are designed to maintain the fire resistance of fire rated walls and floors and will stop smoke, fire and hot gasses passing through penetrations by combustible pipes. iPASSIVE FR Collars consist of a steel shell that splits in two to fit around the service penetrations by means of a simple slide-lock system. The graphite based reactive material reacts when exposed to heat closing the openings left by the softening plastic pipe in fire.

iPASSIVE FR Collars have been tested in accordance to AS 1530.4 and AS 4072.1 with various types and sizes of plastic pipes and may be used on gypsum, masonry and concrete walls and floors.

## TECHNICAL INFORMATION

<b>Technical Approval</b>	ETAG 026-2
<b>Durability according to ETAG 026-2</b>	Z2 intended for use in internal conditions with humidity classes other than Z1, excluding temperatures below 0°C.
<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>Colour</b>	Red shell with anthracite inlay
<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 temperature</b>	105 °C
<b>Storage</b>	Store in temperatures between 5°C and 30°C
<b>Life</b>	Under normal conditions: 30 years +

## FEATURES

- Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS, SAN+PVC and PP pipes
- Smaller pipes can be fitted within larger collars accommodating openings around the pipe that are too large
- Tested for angled penetrations
- For pipes up to Ø315mm with a wide range of wall thicknesses
- FRR up to -/240/240
- New patented fast expanding graphite material
- Simple to install using widely available standard fixings
- No emissions – environmentally friendly
- Unlimited shelf life under the correct conditions
- 30 years working life

## SOUND INSULATION

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

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.

## SPECIAL CONSIDERATIONS

- Flexible walls may be reduced to a minimum thickness of 75mm with a single layer 13mm plasterboard lining, for a corresponding (reduced) FRR. Apertures are not required to be lined.
- Rigid walls may be reduced to a minimum thickness of 75mm for a corresponding (reduced) FRR.
- Rigid floors may be reduced to a minimum thickness of 60mm for a corresponding (reduced) FRR.

## TESTED STANDARD

Tested and assessed in accordance with AS 1530.4 and AS 4072.1.

## FIRE RESISTANCE RATINGS

Construction	Services	Collar inlay	FRR
Flexible or rigid wall ≥ 100 mm thick	PVC-u Pipes Ø32-Ø160mm/1.2-9.5mm wall	30x3mm-50x15mm	up to -/60/60
	PVC-u Pipes Ø32-Ø315mm/1.2-9.5mm wall	30x3mm-75x18mm	up to -/90/60
	PE Pipes Ø32-Ø160mm/3-9.5mm wall	30x3mm-50x15mm	up to -/90/60
	PE Pipes Ø32-Ø250mm/3-22.7mm wall	30x3mm-75x12.6mm	up to -/90/90
	PP pipes Ø32-Ø160mm/3-14.6mm wall	30x3mm-50x15mm	up to -/90/60
	PP pipes Ø32 Ø160mm/1.8-14.6mm wall	30x3mm-60x15mm	up to -/90/60
Rigid wall ≥ 150 mm thick	PVC-u Pipes Ø32-Ø315mm/2-9.2mm wall	50x3mm-75x18mm	up to -/240/240
	PE Pipes Ø32-Ø250mm/3-22.7mm wall	50x3mm-75x18mm	up to -/240/240
	PP pipes Ø32-Ø160mm/3-14.6mm wall	30x3mm-60x15mm	up to -/240/240
	PP pipes Ø32 Ø160mm/1.6-14.6mm wall	30x3mm-60x15mm	up to -/240/240
Rigid floor ≥ 150 mm thick	PVC-u Pipes Ø32-Ø160mm/2-9.5mm wall	50x3mm-50x15mm	-/120/120
	PVC-u Pipes Ø32-Ø160mm/1.9-9.5mm wall	30x3mm-60x15mm	up to -/90/60
	PE Pipes Ø32-Ø160mm/3-14.7mm wall	50x3mm-50x15mm	-/120/120
	PE Pipes Ø32-Ø160mm/3-14.6mm wall	30x3mm-60x15mm	-/60/60
	PP pipes Ø32 Ø110mm/1.8-6.6mm wall	30x3mm-50x6mm	-/60/60
	PP pipes Ø32-Ø160mm/1.9-14.6mm wall	30x3mm-60x15mm	-/120/120

## DISCLAIMER

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