



- Approved to BS476 Part 20: 1987 and prEN 1366 Part 3.
- Up to 4 hour fire rating - dependant on application.
- Complete installation flexibility - cut length to suit application.
- Independently tested on a range of plastic materials.
- Proven 'Grafitex' intumescent technology
- Unrivalled flexibility from a cost effective fire protection solution.



1. Measure around the pipe using the tape provided.



2. Measure along or count the number of segments required and cut the black Grafitex accordingly



3. Bend and snap off the steel strip along the perforations.



4. Shape the collar to the required diameter.



5. Fit around pipe and use first clip to join ends.



6. Secure remaining clips to wall/floor, using fixings provided.



DESCRIPTION

UniCollar is a unique method of protecting plastic pipes which pass through fire rated walls and floors. The system is supplied in continuous strip form which is cut to length and secured around to the pipework using ready-made clips. These clips fit into the pre-punched slots on the strip and are then fixed to the wall/floor using the fixings supplied. The intumescent (exfoliated graphite) activating layer is already attached to the metal band and requires no additional fixing.

USES

UniCollar is the latest generation of fire collars designed to protect PVCu, HDPE, PP and other plastic pipe which pass through fire rated elements of building construction. The system uses well tested Grafitex intumescent technology to effectively block off openings formed when plastic burns in a fire, to leave a solid barrier to maintain the compartment.

FIRE PERFORMANCE

UniCollar has been extensively tested in several countries to meet both local and ISO testing regimes. Achieving Fire Resistance Level (FRL) up to 4 hours in floors and 2 hours in walls in a variety of plastic types for which most countries' requirement will be met.

INSTALLATION

UniCollar is supplied in a dispensing carton as a continuous strip 2.19m in length (146 segments). If the pipe size is known refer to the Sizing Table below.

NOM. PIPE SIZE	LENGTH OF STRIP (Guide only)	
50mm	225mm	17 segments
82mm	360mm	24 segments
110mm	435mm	29 segments
160mm	600mm	40 segments

Total number of segments per box is 146 (146 x 15mm = 2190mm)

If you do not know the pipe diameter or need to confirm it, the circumference of the pipe can be measured using the tape provided which will identify the number of segments required. The installation process can then proceed as follows:

The prepared length of UniCollar is finally fixed into place around the pipe using the metal restraining brackets supplied which are mechanically fixed to the surrounding wall/floor surface. UniCollar is supplied with fixings for both wood/plasterboard and masonry. The 20mm x 5mm steel anchors supplied for masonry require a sound surface which will retain them securely and are hammered in to pre-drilled 5mm - 3/16" hole.

Before finally securing the collar in position any gap exceeding 8mm in width must be made good with mortar or commercial grade mortar mix. If a water tight seal is required in the case of floor installation a bead of acrylic, intumescent or silicone sealant may be applied around the pipe the top side of the floor slab. If the gap is 8mm or less this can be made good by use of the same sealant/mastic alone.

NOTE: Any intumescent fire protection product, regardless of manufacturer, will only perform relative to the quality of installation, based on correct specification for the intended application. All installations are subject to British Standard Codes of Practice and local Building Regulations.

Technical Data

Colour	Anthracite Grey
Material	Grafitex - Exfoliated Graphite
Consistency	Solid, flexible
Thickness	10mm
Density	>0.85g/cm ³
Reaction to Fire	Classification B2 - (DIN4102)
Activation Temp	Starts at approx. 180 Deg C
Expansion Ratio	Min. 1:9
Expansion Pressure	Min. 0.2N/mm ²
Body Material	Stainless Steel

Test Approvals

A rolling programme of application testing is operated for UniCollar with the most up to date test approvals, product information and installation guidance being published at www.firecollar.com. Current UK approvals are summarised overleaf.



Technical Data Sheet - CC001 - UniCollar

Current UK approvals for Hunter UniCollar

If the detail you require is not included in this table please contact Hunter Technical Services as due to a rolling programme of product testing and certification, tests and approvals may have been completed since publication of this document.

Type of Plastic	Wall or Floor	Internal Pipe diameter (mm)	Fire Resistance (minutes)	
			Integrity*	Insulation** (Fire Rating)
uPVC	Wall	Up to 65	240	120
		> 65 < 150	120	120
	Floor	Up to 150	180	120
HDPE	Wall	Up to 90	240	180
		> 90 < 200	120	120
	Floor	Up to 110	240	180
		> 110 < 200	240	120
		Up to 150	240	180
PP	Wall	-	-	-
	Floor	Up to 110	240	240

* Integrity - It is required by BS4 /61 Part 20 1987 that there is no collapse of the specimen, no sustained flaming on the unexposed surface and no loss of impermeability during the test duration.

** Insulation - Failure is considered to have taken place if 1. The mean individual temperature rises to 140 C on the unexposed side of the test construction or 2. the maximum individual temperature on the unexposed side of the test construction rises to or exceeds 180 deg C

Notes

1. Walls can either be masonry, or steel/timber framed partitions, at least 100mm thick. The fixing method will depend on the type of wall or partition. Fixings for masonry walls should be non-combustible and at least 38mm long. Fixings for partitions will depend on the type and thickness of partition lining, the type of framing and the fire resistance required. Please contact the Hunter Technical services for specific advice.
2. Floors should be concrete and at least 120mm thick. Fixings for concrete floors should be non-combustible and at least 38 mm long. For thinner floors, and for timber floors, please contact Hunter Technical Services.
3. Use at least 3 fixing brackets for pipes up to 125mm diameter (ID) and 5 brackets for 150mm pipes (ID).
4. Generally pipes penetrating walls or partitions should have a collar fitted to both sides of the wall or partition, but pipes penetrating floors only require a collar to be fitted to the underside of the floor.

Technical Services Support

Our Technical and Health and Safety Data Sheets are regularly reviewed and are available on request from Hunter Commercial department on fax 020 8854 1382 or by e-mail to fireprotection@hunterplastics.co.uk

The successful specification and installation of this product is dependant on a number of factors. As the information contained in this Data Sheet can only be of a general nature, it is advisable to consult our technical services department if there is any doubt about the correct use of this product in a particular application. Our technical and sales representatives are available to provide further technical and commercial assistance. Hunter UniCollar is manufactured under a management system certified in accordance with ISO9002



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