British Gypsum
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GYPROC®
PIPE COLLAR

Installation Guide

Installation images shown are from a benchmark application of firestopping products, and do not reflect on-site conditions.

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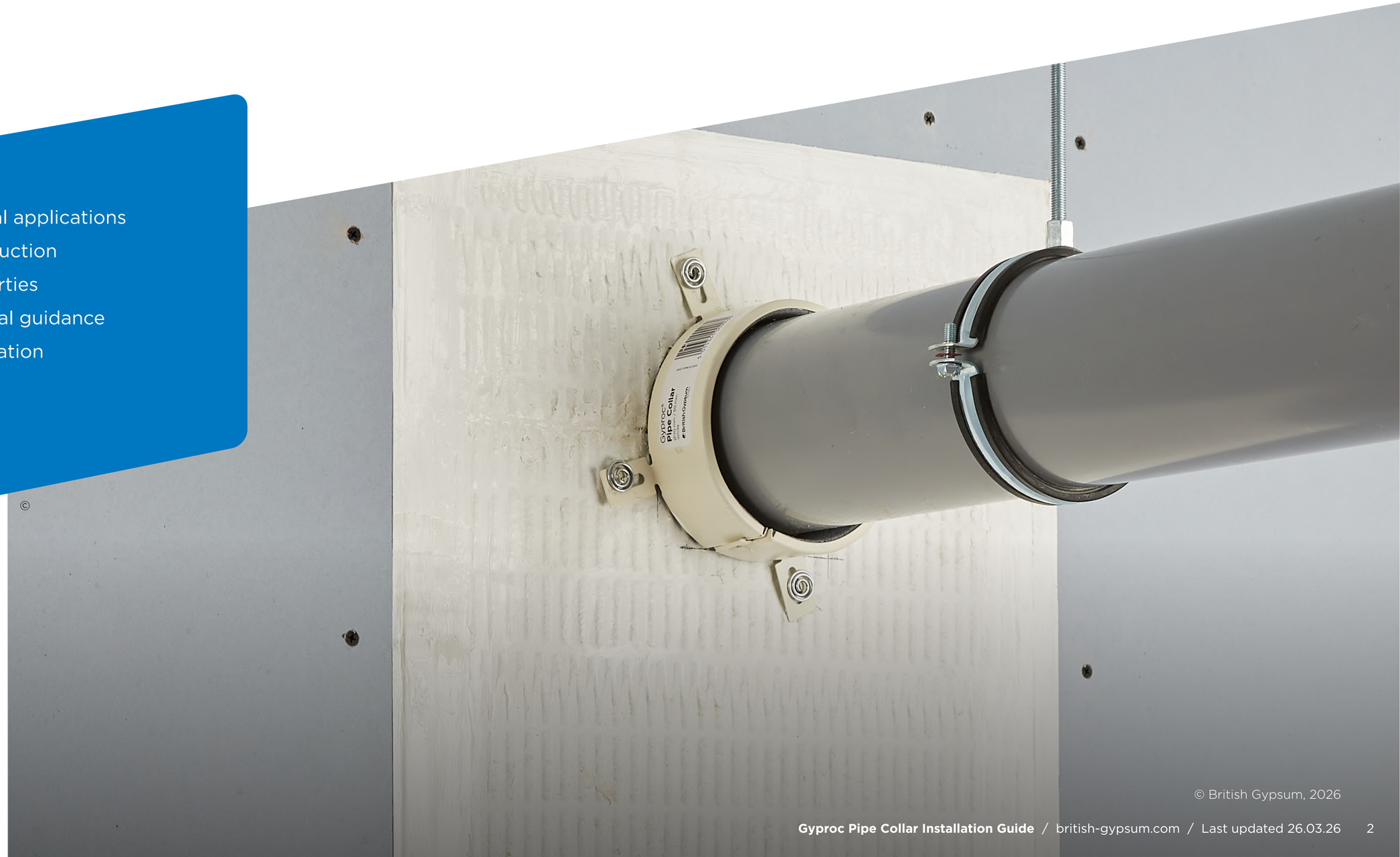

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Typical applications

The Gyproc Firestopping range delivers trusted passive fire protection across a variety of applications.

Backed by a comprehensive suite of test data, each product is designed to meet rigorous performance standards. This guide outlines installation best practices to ensure reliable firestopping and compliance with certified system requirements.

For illustrative purposes only

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Introduction

Gyproc Pipe Collars are designed to reinstate the fire resistance of compartment walls and floors where these are breached by combustible service penetrations. They can provide up to 240 minutes fire resistance dependent on application. They are tested for use in drywalls, timber, masonry or concrete walls and floors.

Gyproc Pipe Collars consists of a white powder coated cylindrical steel shell in two halves, designed to easily fit around the service penetration utilising a simple 'slide-lock' system. The steel shell contains a graphite intumescent reactive material which expands when exposed to fire, closing any voids left by the softening combustible service penetration.

Tested and proven to perform for use with commonly specified plastic pipework to suit diameters 32 mm to 400 mm.

Gyproc Pipe Collars have also been tested for ventilated pipework such as rainwater pipework.

Pipe collars may be used in all angles between 90° and 45° in all directions with maximum diameter of 50 mm, combined with oversized collars with maximum size of 160 mm.

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Properties

- Tested for various types of building service penetrations such as cable bundles, cable conduits, metal and plastic pipework and rectangular plastic ducts
- Metal and plastic pipes are certified with commonly used combustible pipe insulations, continuous through the fire seal
- Tested with a single collar in masonry wall applications where access is restricted
- Collars are available in different widths for flexibility during install
- Angled pipe solutions available
- Solutions for restricted access using half a collar shell
- Unlimited storage time (under correct conditions)
- The SpecSure® Warranty covers British Gypsum Gyproc® Firestopping within new build British Gypsum and Isover partition Systems, performing as specified with a working life of 25 years*.

SpecSure®
SYSTEMS WARRANTY

* The provisions made in the United Kingdom Technical Assessment for Gyproc Firestopping are based on an assumed working life of 25 years, provided that the conditions laid down in the manufacturers datasheet and instructions for the packaging/transport/storage/installation/use/repair are met. See SpecSure® Firestopping Insert for full details here: british-gypsum.com/SpecSure

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General guidance

Tools required
- Electric screwdriver
- Sealant gun
- Sharp knife/snips

Ancillary Items
- Gyproc Acrylic Fire Sealant
- Fixings to suit substrate

Health and Safety

- The mechanical effect of fibres in contact with skin may cause temporary itching
- Cover exposed skin
- When working in unventilated area wear a disposable face mask
- Clean area using vacuum equipment
- Waste should be disposed of according to local regulations
- Rinse skin in cold water before washing
- Ventilate working area if possible
- Wear goggles when working overhead
- See the product Safety Data Sheet (SDS) for more information

Supporting constructions

Flexible walls must have a minimum thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Rigid walls must have a minimum thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m^3. Rigid floors must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m^3.

The supporting construction must have a proven fire resistance rating established through testing in accordance with the appropriate BS EN standard for the element or have a classified performance in line with BS EN 13501-2. The fire resistance rating must be at least equal to the required fire performance.

* Timber studs: no part of the penetration seal may be closer than 100 mm to a stud, and minimum 100 mm of insulation of class A1 or A2 according to BS EN 13501-1 must be provided within the cavity between the penetration seal and the stud.

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Before fitting a Gyproc Pipe Collar ensure that any annular gap between the service penetration and the separating element has been sealed.

Where Gyproc Acrylic Fire Sealant is required, ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.

Collars should be the closest diameter to the aperture size (and not necessarily the diameter of the service). The Gyproc Pipe Collar should be fixed to the surface of the construction and not against any seal surrounding the services (unless within scope of tested solution).

On site where the aperture size is greater than the service diameter, an oversized collar can be used. If not specified in the detailed drawings, in general, any gaps between a service penetration and a construction should not exceed 55 mm width.

When fixing a Gyproc Pipe Collar to flexible and rigid walls, fill any annular gaps between the pipe and the substrate with Gyproc Acrylic Fire Sealant. For gaps below 8 mm, install a bead of Gyproc Acrylic Fire Sealant to cover the gap. For gaps 8 mm or above, install a backing of 20 mm stone mineral wool with 20 mm depth of Gyproc Acrylic Fire Sealant. Alternatively, you can use 40 mm Gyproc Acrylic Fire Sealant with no backing.

Refer to UKTA25-0024 for further details.

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When installing Gyproc Pipe Collar to floors, gaps between service and substrate below 10 mm must have 20 mm deep stone wool to fill the gap, or alternatively 20 mm deep Gyproc Acrylic Fire Sealant. For gaps 10 mm or above, the seal must be plugged with 10 mm deep Gyproc Acrylic Fire Sealant on 40 mm deep backing of stone wool, alternatively 50 mm deep Gyproc Acrylic Fire Sealant with no backing.

For collars installed on top side of floors, gaps between the pipe and the top side of the collar must have a bead of Gyproc Acrylic Fire Sealant to cover the opening.

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Fit the Gyproc Pipe Collar around the service penetration ensuring that the collar shell and fixing lugs are positioned tightly to the substrate, so that the anchors/fixings can be fitted.

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Where the surface is uneven, apply a sealing bead of Gyproc Acrylic Fire Sealant between the wall/floor and the collar shell.

Where pipes are placed against a wall or a floor, half a collar shell of double the diameter of the pipe can be used. The half collar shell must be placed towards the surface of the wall or floor, and the maximum allowed pipe diameter is 160 mm, with a maximum collar size of 315 mm.

Refer to UKTA25-0024 for further details.

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Attach the collar with steel screws, anchors or bolts that are suitable for the substrate that the collar will be fitted to.

For drywalls use drywall or wood screws with a length suitable for the number of boards that form the wall.

For concrete or masonry walls and floors, use minimum 40 mm long masonry screws or expansion bolts.

Refer to UKTA25-0024 for further details.

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