



INTRODUCTION

Promat PROMASEAL® UniCollar® is a patented method of protecting plastic pipes which pass through fire rated walls and floors. The system is supplied in a boxed continuous strip, 2190mm long, which is simply cut to length on site, and attached to the wall or floor using clips (supplied), and suitable screws, bolts and anchors, as necessary.

APPLICATIONS

Promat PROMASEAL® UniCollar® is used to maintain the fire resistance of walls or floors when they are penetrated by combustible pipework made from PVC, PE, HDPE or PP and many other materials.

FIRE PERFORMANCE

Promat PROMASEAL® UniCollar® has been extensively tested in several countries to meet both national and international testing regimes, achieving fire resistance levels up to 240 minutes in walls and floors.

ADVANTAGES

- Fire tested up to 240 minutes in accordance with the principles of BS 476: Part 20
- Tested on a variety of pipe materials
- One product for pipe sizes from 43mm up to 200mm
- Packaged in single ordered box for lower inventory cost
- Continuous strip form
- Tools and fixings supplied
- Quick and easy to install

QUALITY ASSURANCE

Promat manufactures to a quality system in accordance with ISO 9001: 2008 and has received full accreditation to these standards.

Operating to these standards means that all activities, which have a bearing upon quality, are set out in written procedures. Systematic and thorough checks are made on all materials and their usage. Test equipment is subjected to regular checks and is referred back to national standards.

The information given in this data sheet is based on actual tests and is believed to be typical of the product. No guarantee of results is implied however, since conditions of use are beyond our control.

Promat PROMASEAL® UniCollar®

PRE INSTALLATION UNPACKING

Step 1: Open box at contents lid. Pull out accessories. Pull out only enough Promat PROMASEAL® UniCollar® strip to protect the pipe in question.

Step 2: Lay a measuring tape on the intumescent face of the collar and cut it at marked measuring points according to the pipe size. The length required can also be determined using the chart provided and counting the segments or holding the strip around the pipe.

Step 3: Bend the intumescent side of the collar 2 or 3 times until it snaps.

Step 4: Shape the collar to fit the pipe and bevel the intumescent edge for close fit.

Step 5: Wrap the collar around the pipe and clip the first bracket into slots on both ends.

Step 6: Complete other brackets and fix the collar onto floor/wall.

INSTALLATION

Promat PROMASEAL® UniCollar® comes in a boxed strip. The length of collar can be gauged in several ways. Refer to chart as shown if the diameter of the pipe is known. If not, the circumference of the pipe can be found using a tape measure.

The strip of Promat PROMASEAL® UniCollar® is then fixed into place around the plastic pipe with metal restraining brackets (supplied) which are bolted or screwed into the surrounding surface.

DELIVERY FORM

Each box of Promat PROMASEAL® UniCollar® comprises of a 2190mm strip (146 segments) plus fixings.

The chart below shows the suggested length of strip required for each size pipe and how many casing segments to use. At the time of this press test data is

Nominal pipe size (mm)	43	50	55	63	69	75	83	90	110	114	125	140	160	200
Casing segments	15	17	18	20	21	22	24	25	29	30	33	36	40	49
Approximate collars per box	10	8.5	8	7.5	7	6.5	6	6	5	5	4.5	4	3.75	3

available for pipe sizes (OD as in illustration) up to 200mm.



Step 1



Step 2



Step 3



Step 4



Step 5



Step 6



Promat PROMASEAL® UniCollar®

ASSESSMENT NO. WFRA C91611b & WFRA 21818

ANNOTATIONS PER ILLUSTRATIONS

Up to 240 minutes fire rating, integrity in accordance with the criteria of BS 476: Part 20: 1987.

- 1 Promat PROMASEAL® UniCollar®
- 2 Attachment with suitable anchor fixing
- 3 Plastic piping, e.g. Polyethylene (PE), Polyvinylchloride (PVC), Polypropylene (PP)
- 4 Concrete wall, floor or fire rated partitions
- 5 Promat PROMASEAL® Sealant to act as a seal against the passage of cold smoke (not required for fire performance if the movement of cold smoke is not being considered)

For HDPE pipes penetrating a 120mm thick concrete floor slab protected by one Promat PROMASEAL® UniCollar® on the exposed face.

Nominal pipe size (mm)	40	56	63	75	90	110	125	150	150*	200
Wall thickness (mm)	3.5	3.5	3.0	4.0	3.5	5.0	4.9	6.2	6.2	6.2
Integrity (minutes)	240	240	240	240	240	240	120	120	240	120
Insulation (minutes)	180	180	180	180	180	180	90	90	180	120

*The penetration was protected by two Promat PROMASEAL® UniCollar®'s, both fitted on the exposed side.

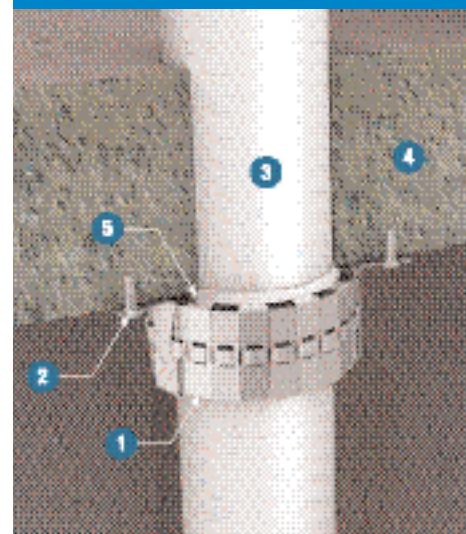
For HDPE pipes penetrating a 120mm fire rated plasterboard partition protected by one Promat PROMASEAL® UniCollar® on each side.

Nominal pipe size (mm)	40	50	63	90	110*	200
Wall thickness (mm)	3.0	3.0	3.0	3.5	5.0	7.5
Integrity (minutes)	180	240	180	240	120	120
Insulation (minutes)	180	180	180	180	120	30

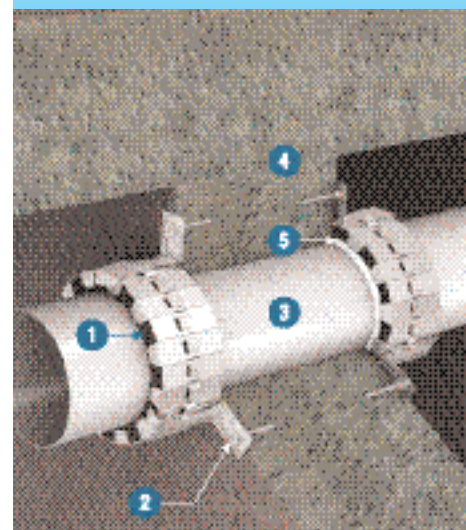
*The penetration was protected by one Promat PROMASEAL® UniCollar®'s on the exposed side only.

Nominal pipe size (mm)	110
Wall thickness (mm)	5.0
Integrity (minutes)	240
Insulation (minutes)	240

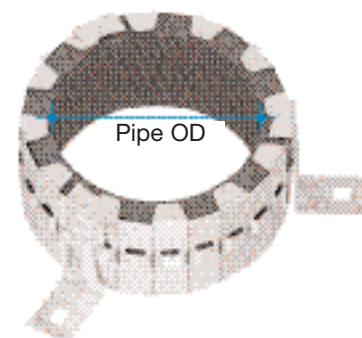
For PP pipes penetrating a 120mm thick concrete floor slab protected by one Promat PROMASEAL® UniCollar® on the exposed face.



Floor penetration



Wall penetration



Dimension drawing of Promat PROMASEAL® UniCollar®

Promat PROMASEAL® UniCollar®

For uPVC pipes penetrating a 120mm thick concrete floor slab protected by one Promat PROMASEAL® UniCollar® on the exposed face.

Nominal pipe size (mm)	40	50	50	65	80	100	150
Wall thickness (mm)	2.2	2.5	2.7	2.8	3.2	3.2	4.2
Integrity (minutes)	240	120	240	120	120	240	180
Insulation (minutes)	240	120	180	120	120	180	120

For uPVC pipes penetrating a 120 minute fire rated plasterboard partition protected by one Promat PROMASEAL® UniCollar® on each side.

Nominal pipe size (mm)	40	50	65	80	100	150
Wall thickness (mm)	2.4	2.5	3.0	3.2	3.0	4.0
Integrity (minutes)	120	240	240	120	120	120
Insulation (minutes)	120	120	120	120	90	90

For HDPE pipes penetrating a 150mm thick concrete floor slab protected by one Promat PROMASEAL® UniCollar® on the exposed face.

Nominal pipe size (mm)	40	56	63	75	90	110	125	150	150*	200
Wall thickness (mm)	3.5	3.5	3.0	4.0	3.5	5.0	4.9	6.2	6.2	6.2
Integrity (minutes)	240	240	240	240	240	240	120	120	240	120
Insulation (minutes)	180	180	180	180	180	180	90	90	180	120

*The penetration was protected by two Promat PROMASEAL® UniCollar®'s, both fitted on the exposed side.

HEALTH AND SAFETY

A safety data sheet is available from the Promat Technical Services Department and, as with any other materials, should be read before working with the product. The product is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill. This can be placed in an on-site skip with other general building waste which should be disposed of by a registered contractor.



Promat PROMASEAL® UniCollar®

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WFRA 21818

For uPVC pipes penetrating a 150mm thick concrete floor slab protected by one Promat PROMASEAL® UniCollar® on the exposed face.

Nominal pipe size (mm)	40	50	50	65	80	100	150
Wall thickness (mm)	2.2	2.5	2.7	2.8	3.2	3.2	4.2
Integrity (minutes)	240	120	240	120	120	240	180
Insulation (minutes)	240	120	180	120	120	180	180

For HDPE pipes penetrating a 170mm thick concrete floor slab protected by one Promat PROMASEAL® UniCollar® on the exposed face.

Nominal pipe size (mm)	40	56	63	75	90	110	125	150	150*	200
Wall thickness (mm)	3.5	3.5	3.0	4.0	3.5	5.0	4.9	6.2	6.2	6.2
Integrity (minutes)	240	240	240	240	240	240	120	120	240	120
Insulation (minutes)	240	240	180	240	180	240	90	90	180	120

*The penetration was protected by two Promat PROMASEAL® UniCollar®s, both fitted on the exposed side.

For uPVC pipes penetrating a 170mm thick concrete floor slab protected by one Promat PROMASEAL® UniCollar® on the exposed face.

Nominal pipe size (mm)	40	50	50	65	80	100	150
Wall thickness (mm)	2.2	2.5	2.7	2.8	3.2	3.2	4.2
Integrity (minutes)	240	120	240	120	120	240	180
Insulation (minutes)	240	120	180	120	120	240	180

Promat



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