

Promat



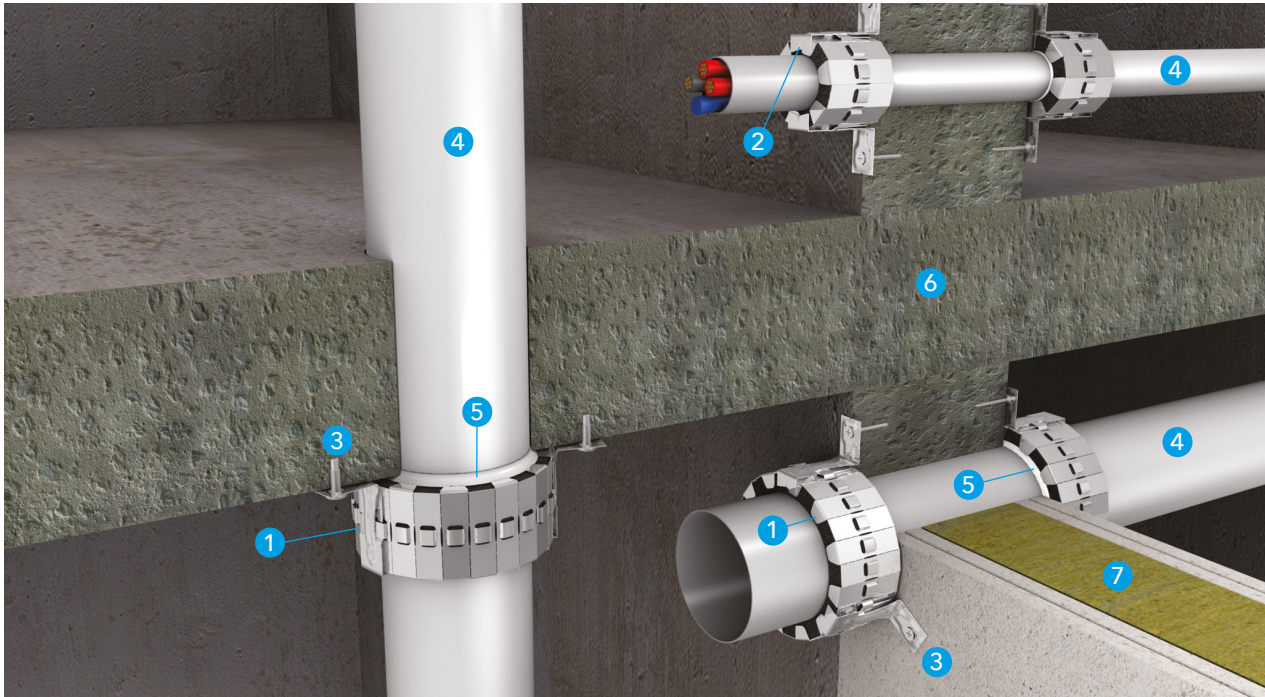
PASSIVE FIRE PROTECTION SYSTEM

PROMASTOP® UniCollar /

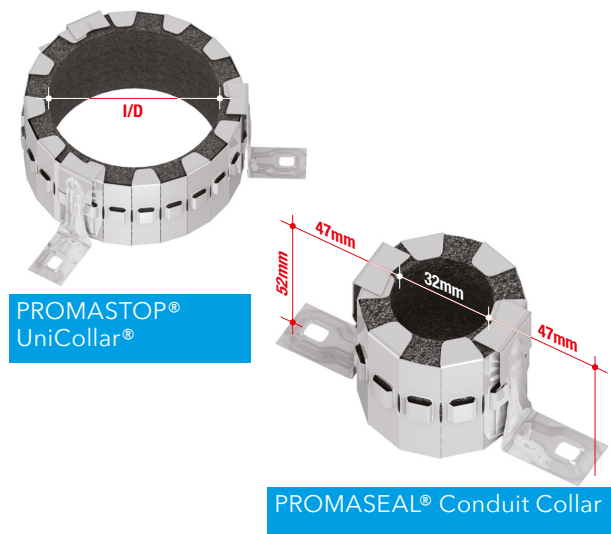
PROMASEAL® Conduit Collar



PROMASTOP® UniCollar / PROMASEAL® Conduit Collar



Up to -/240/240 fire resistance in accordance with the requirements of AS 1530: Part 4: 2014 and/or AS 4072: Part 1: 2005; insulation criteria will vary depending on type and size of plastic pipes AND the type of penetrating elements



- 1 PROMASTOP® UniCollar®
- 2 PROMASEAL® Conduit Collar
- 3 Brackets attached with suitable fixing, i.e. steel bolt anchors for masonry/concrete floors and walls OR laminating screws for lightweight partitions
- 4 Various plastic piping
- 5 All gaps caulked with PROMASEAL®-A Acrylic Sealant to achieve the required fire resistance performance
- 6 Fire resistant concrete/masonry floors or walls
- 7 Fire resistant steel/timber framed lightweight partitions

Usage guide

Inside diameter (I/D) mm inches	43	50	55	63	69	75	83	90	110	114	125	140	160	200
	1.25	1.5	-	2	-	2.5	-	3	-	4	-	5	6	-
Approximate number of collars per box	10	8.5	8	7.5	7	6.5	6	6	5	5	4.5	4	3.5	3
Number of brackets per collar for floor application (For 1 hour wall systems, please contact Promat)	2	2	2	2	2	3	3	3	3	3	4	5	5	5
Number of brackets per collar for wall application	2	2	2	2	2	3	3	3	3	3	3	5	5	5

PROMASTOP® UniCollar®

PROMASTOP® UniCollars® are a fire stopping device containing intumescent material designed to maintain the integrity of the fire resistant element through which plastic pipes pass. The collars are suitable for installation in various floors and walls similar to that in which they have been tested.

In the event of a fire, the intumescent material in PROMASTOP® UniCollar® rapidly expands, closing off the plastic pipe or combustible insulation and forming an insulating barrier. This intumescent compound continues to expand throughout the fire and forms a non combustible char which stops the fire passing into adjacent fire compartments.

However, it is important to note that there are many different kinds of plastic and they react to fire in different ways. This means that fire collars may have to be tested on many types and sizes of pipe. Please note that local regulations must be accurately assessed if this is appropriate or necessary. Examples of plastic pipes are uPVC, HDPE, PP, PPR, ABS, PE and Pex/Al/Pex.

Australian Standard AS 4072: Part 1: 2005 "Components for the protection of openings in fire resistant separating elements. Part 1: service penetrations and joints" calls for all types of plastic pipe and all sizes to be tested. This means that any assessments written to AS 4072: Part 1: 2005 must be able to refer to tested specimens that clearly show the type of plastic has been tested with the collar in the same orientation and size as to be used in practise.

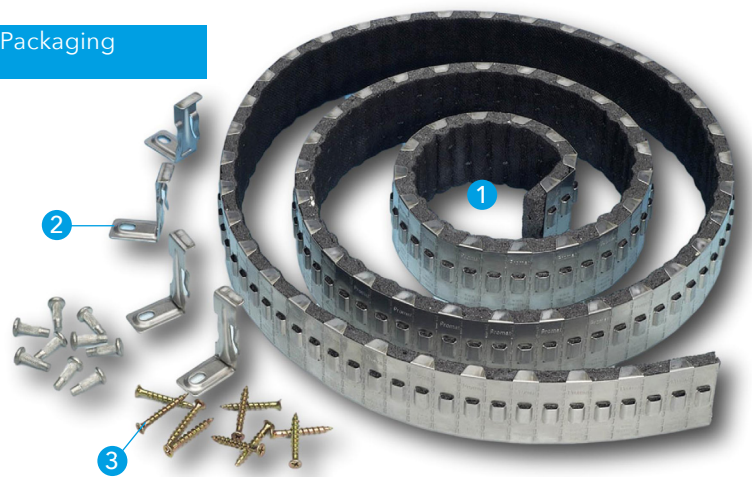
It is currently acceptable to test new types of plastic using uPVC as a benchmark.

PROMASTOP® UniCollar® has undergone fire tests in numerous countries around the world to many standards. Please contact Promat to check if the approval of the required application is already covered.

Packaging

PROMASTOP® UniCollar® is packaged in individual boxes each containing

Packaging



- 1 PROMASTOP® UniCollar®
- 2 Brackets
- 3 Fixings as provided

2250mm length of collar or 150 segments. The collar is designed so that it can be cut and snapped in modules of 15mm.

One box contains the equivalent of 5 x 110mm collars. Please see table on page 11 for a usage guide to the approximate number of collars and brackets each full length of PROMASTOP® UniCollar® equates to in most typical on-site applications.

The table shows the suggested lengths of collar (segments) required for various inside diameters (I/D) of plastic pipes. In difficult situations it may be necessary to use longer lengths of collar to assist with installation.

The number of collar units per box may vary depending on installer's skill and attention to detail.

At time of this publication, tests have not been carried out on plastic pipes greater than 200mm outside diameter. Please consult Promat for details of such applications.

For uPVC pipes with 110mm outside diameter or less, add two segments if the collar has to fit around a pipe joiner.

Removing Casing And Accessories

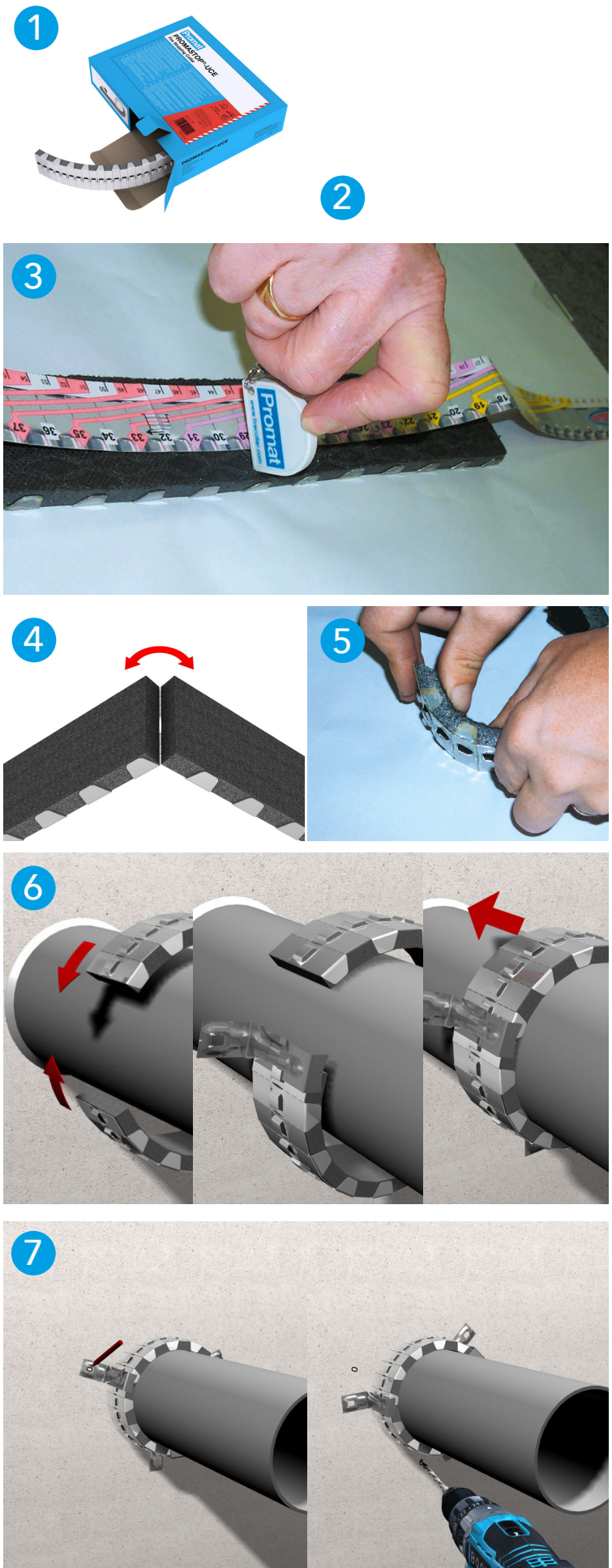
Each package of PROMASTOP® UniCollar® contains the fixings and other accessories required for installation (see pictures on page 12).

Please read the information in this manual in conjunction with the diagrams printed on the rear of the package and use of the measuring tape provided as an accessory in the package:

- Open the package at the position clearly marked with an arrow.
- Remove the accessories box before pulling out one end of the PROMASTOP® UniCollar®. The collar strip will uncoil.
- Ensure the soft Graftex side of the collar strip faces up. The steel has perforations to ease the snapping of the length located at 15mm centres.
- Use only sufficient length (segments) required of the collar from the package. For example, approximately 600mm of a segment pulled out is adequate and convenient for a 110mm cut of the collar.

Cutting/Snapping The Collar

- Correctly identify the required outside diameter of the plastic pipes to which the PROMASTOP® UniCollar® will be applied. The diagrams printed on the package provide concise information on the number of segments required for various sizes of plastic pipes.
- Count the number of the 15mm segments required
- Cut through the soft Graftex side of the collar strip at an appropriate



- 1 Pull out the PROMASTOP® UniCollar® strip and accessories box
- 2 Identify outside diameter of the plastic pipe
- 3 Identify number of segments needed for the particular pipe size from table on box
- 4 Bend and snap the collar strip accordingly
- 5 Shape the cut collar section (casing) to suit the pipe
- 6 Fit the casing around the pipe with one bracket first to joint ends
- 7 Attach other brackets onto the floor/wall

position, e.g. cut at segment 29 for a 110mm outside diameter pipe. It is important to note that, for safety purpose, the strip should be cut in an opposite direction from fingers at all times and this exercise should be performed in a consistent manner.

- Hold the collar strip between finger and thumb on each side and as close as possible to the desired cut section. Fold in a downward direction as far as possible. The cut Graftitex will open. Repeat the folding and unfolding sequence until the steel snaps.

PROMASEAL® Conduit Collar

For plastic conduits with 32mm diameter or less, the PROMASEAL® Conduit Collar has been tested up to 240 minute fire resistance in floors and walls. The collar is fixed to the floors/walls with two brackets.

Insulation criteria will vary depending on types of the plastic pipes and the penetrating building element through which the collar passes.

For the limited diameter required, only one size of 32mm PROMASEAL® Conduit Collar is available and prefabricated from Promat. It can be purchased individually.

Assemble The Collar

- Both cut ends of the Graftex should be square. For easier fixing, cut these square ends to a slight angle. Shape the cut collar section (casing) to the approximate outside diameter of the plastic pipe. For small pipes (e.g. < 75mm), pay attention to the square ends of these casings to ensure they have been shaped correctly.
- Push one of the prongs of a bracket through the notch at one end of the casing. Fold the casing around the plastic pipe and push the other prong through the notch at the other end of the casing. If pushing is difficult, the bracket can be gently hammered into position. Attach this bracket followed by others onto the floor/wall.

If it is difficult to position the first bracket, additional bracket(s) can be positioned against the strip casing. The correct number of brackets must be used and both ends of the casing must be connected with one bracket. The prongs of all brackets must be fully engaged through the notch on the casing, i.e. the prong should go in one side and out from the other side, and does not get caught inside the casing.

Plastic Pipe Penetration Seals Retrofit installation to underside of floors

PROMASTOP® UniCollar® has been tested up to 240 minute fire resistance with various plastic pipes up to 150mm outside diameter when fixed to soffit of concrete/masonry floors (with an equal or greater fire resistance level) through the provided brackets using 20mm x 5mm steel bolt anchors, on condition that the floor is in a secure condition for holding the anchors.

Backfill all annular gaps greater than 8mm between the plastic pipe and the floor with PROMASEAL® Mortar or other commercial grade mortar mix. A suitable water resistant sealant may be applied around the pipe on top side of the floor if a water seal is required.

If the gap is less than 8mm, apply a bead of PROMASEAL®-A Acrylic Sealant approximately 8mm deep into the gap on underside of the floor.

Retrofit installation to both sides of walls/partitions

PROMASTOP® UniCollar® has been tested up to 240 minute fire resistance with various plastic pipes up to 150mm outside diameter, depending on types and sizes of the pipes using the recommended number of the provided brackets.

For concrete/masonry walls, use the 20mm x 5mm steel bolt anchors provided. For steel/timber framed lightweight partitions, use 40mm x 10g laminating screws provided. The walls or partitions must be in a secure condition that will hold the anchors.

All annular gaps between the pipe and the walls/partitions must be minimum 2mm and filled with a bead of PROMASEAL®-A Acrylic Sealant.

Please consult Promat for details of PROMASTOP® UniCollar® retrofit installation to underside of floors and both sides of walls/partitions.

Other Services Penetration Seals Retrofit installation to concrete/masonry floors

Position PROMASTOP® UniCollar® around the services and fix to the underside of the slab in the same manner as fitting for plastic pipes. Then fill any gaps inside the collar caused by the orientation of the service with PROMASEAL® Graftex. Size of services should not exceed the inside diameter of the 100mm collar.

Retrofit installation to plasterboard walls

Position PROMASTOP® UniCollar® around the services and fix to the wall in the same manner as fitting for plastic pipes. Then fill any gaps inside the collar caused by the orientation of the service with PROMASEAL® Graftex. Size of services should not exceed the inside diameter of the 100mm collar.

Please refer to illustrations on page 16 for fixing details.

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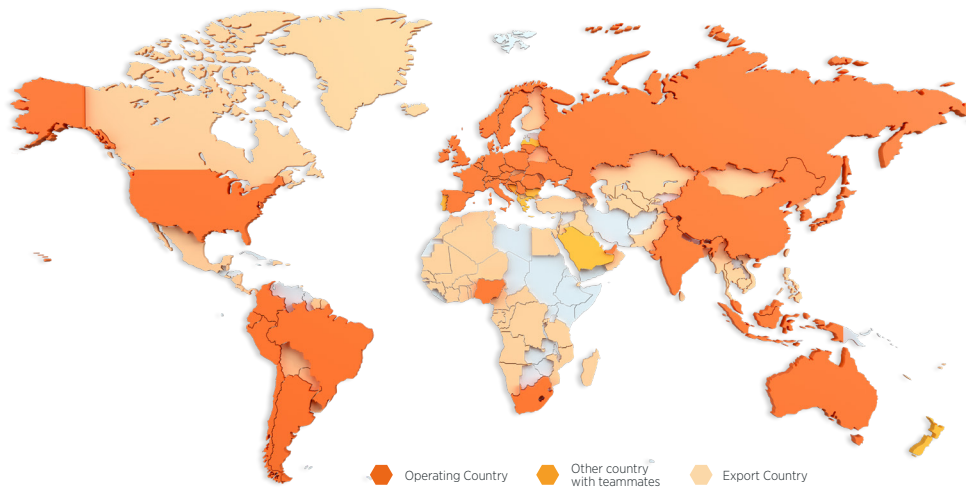


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Promat Asia Pacific

- The technical data provided in this publication is based on mean values prevalent at time of publication and is thus subject to fluctuation. It should not be regarded as a guarantee to system performance.
- All data contained herein conforms to and frequently surpasses generally accepted fire protection standards recognised by most professional fire science practitioners and regulatory authorities worldwide. The same general principle is equally applicable to all Promat products and systems. Promat has access to a considerable body of test authentication data and this can be provided on a complimentary basis upon request. It should be noted however that this publication replaces all previous editions in its entirety.



About Etex

Etex is a global building material manufacturer and pioneer in lightweight construction. Etex wants to inspire people around the world to build living spaces that are ever more safe, sustainable, smart and beautiful.

Founded in 1905, headquartered in Zaventem, Belgium, Etex is a family-owned company with more than 13,500 employees globally. It operates more than 160 sites in 45 countries and recorded a revenue of EUR 3.7 billion in 2022. Etex fosters a collaborative and caring culture, a pioneering spirit and a passion to always do better for its customers.

Etex has five R&D centres supporting five global divisions:

- Building Performance: dry construction solutions including plasterboards and fibre cement boards, plasters and formulated products, passive fire protection and associated products.
- Exteriors: a range of aesthetic fibre cement materials for use in agriculture, architectural and residential exteriors.
- Industry: fire protection and high-performance insulation products for the construction and OEM (Original Equipment Manufacturer) industries.
- Insulation: glass mineral wool and extruded polystyrene (XPS) for thermal and acoustic insulation.
- New Ways: high-tech offsite modular solutions based on wood and steel framing.

Etex's global portfolio includes leading commercial brands such as Promat, Kalsi, Siniat, Equitone, Eternit, Cedral, Durlock, Gyplac, Pladur, Superboard and URSA.

Etex is Inspiring Ways of Living, for more information, please visit our website: www.etexgroup.com