PROMASEAL/PROMASTOP FIRE COLLAR FIXINGS TECHNICAL NOTE

The purpose of this Technical Note is to clarify the issues with regards to the use of the correct fixings currently available in the market place for fire collars and explain the differences between them.

It is essential that fire collars are only installed with the correct size **ALL STEEL** fixings. In the past alloy-based fixings have been tested and have shown that they will not provide the required fire performance.

Currently some fixing products available are marketed as all metal, or zinc alloy. These types of anchors need to be thoroughly checked because some of them have other alloys included in the matrix of the fixing and these can melt at lower temperatures than those found in cellulosic fires, thus rendering them inappropriate for supporting fire resistant devices such as fire collars. This list is not exhaustive and if a particular anchor is not shown, it doesn't mean that it is suitable or not suitable. Always check!

THE TYPE OF ANCHORS IN TABLE 1 BELOW ARE <u>NOT SUITABLE</u> AS FIXINGS FOR PROMAT FIRE COLLARS UNLESS THERE IS THIRD PARTY TEST EVIDENCE TO SUPPORT THEIR USE.

TABLE 1

Ramset's	Shuredrive		❌
Macsim's	Macdrive		❌
Hilti's	HD Metal Drive Anchor		❌
Power's	Metal Pin Anchor		❌

THE ANCHORS IN TABLE 2 BELOW <u>ARE SUITABLE</u> AS FIXINGS FOR PROMAT FIRE COLLARS

TABLE 2

Ramset's Dynabolt		Macsim's DBZ Metal Pin Anchor	
Ramset's Trubolt		Macsim's Masonbolt	
Ramset's Redidrive		Power's Sleeve Anchor	
Hilti's DBZ		Power's Powerbolt	
Hilti's HSA Stud Anchor		Power's PBZ Wedge Anchor	
Hilti's HUS-P Concrete Screw		Ramset Ankascrew	

Bridgland Set Anchors are also acceptable.

etex building performance

CONCRETE WALLS / FLOORS	PLASTERBOARD WALLS
Fire Collars should be installed on both sides of the wall.	
For PROMASTOP® UniCollar® installed into concrete walls or floors, steel fixings are supplied within the collar packaging and the collars should be installed with the requisite number of brackets depending upon the pipe size. For PROMASEAL® FC and PROMASEAL® FCS fire collars installed into concrete walls or floors steel fixings must be installed using all the collar fixing points with the following sizes: • For collars up to 150mm, Fixings shall be either, min 25mm long expanding anchor, 20mm long knock-ins, or 35mm long DBZ, such as those shown on page 1 Table 2. • For collars from 250mm to 315mm, minimum 38mm x 6mm steel expanding anchors must be used, as per Ramset Dynabolt or similar.	For PROMASTOP® UniCollar® installed into plasterboard walls, 40mm x No.10 laminating screws are supplied within the collar packaging and should be installed with the requisite number of brackets depending on the pipe size. For PROMASEAL® FC and PROMASEAL® FCS fire collars installed into plasterboard walls, steel fixings must be installed using all the collar fixing points and using the following fixing sizes: • For collars up to 150mm, 40mm x 6-gauge laminating screws should be used. • For collars above 150mm, 8mm diameter threaded rod must pass from one side of the wall to the other and washers and nuts should be placed onto the ends of the rods where they pass through the fixing points of the collar.

Plasterboard Ceilings	
PROMASEAL® FC - up to 160mm	**PROMASTOP® UniCollar® - up to 110mm**
PROMASEAL® FC Retrofit Collars can be installed onto uPVC in 60 to 120-minute fire rated ceilings. Use PROMASEAL® A Acrylic Sealant to seal annular gaps. Provide additional framing to support the collar. Fix the collar through the plasterboard and into the framing above. The gap between the ceiling lining board and the pipe should be no more than 15mm and sealed with PROMASEAL® A Acrylic Sealant to the full depth of the lining board.	PROMASTOP® UniCollar® can be installed into fire rated plasterboard ceilings that provide a similar fire rating. For 90 minutes' integrity and 60 minutes' insulation fit the collar to the ceiling lining with 10g x 40mm coarse thread screws, use 2 brackets for pipes 40mm-69mm and 3 brackets for pipes 70-110mm. For 90 minutes' integrity and 90 minutes' insulation fix the collar as above but install one layer of PROMATECT® L500 board locally above the collar friction fitted between the joists.

Head Office
Promat Australia Pty. Ltd.
1 Scotland Road Mile End South,
SA 5031
T: 1800 PROMAT (776 628)
F: +61 (8) 8352 1014
E: PAPL.mail@etexgroup.com
W: www.promat.com.au

New South Wales Office
Promat Australia Pty. Ltd.
Unit 1, 175 Briens Road
Northmead, NSW 2152
T: 1800 PROMAT (776 628)
F: +61 (2) 9630 0258
E: PAPL.mail@etexgroup.com
W: www.promat.com.au

Victoria Office
Promat Australia Pty. Ltd.
Suite 205, 198 Harbour Esp.
Docklands, VIC 3008
T: 1800 PROMAT (776 628)
F: 1800 334 598
E: PAPL.mail@etexgroup.com
W: www.promat.com.au

Queensland Office
Promat Australia Pty. Ltd.
T: 1800 011 376
F: 1800 334 598
E: PAPL.mail@etexgroup.com
W: www.promat.com.au

Issued: 02/07/19

etex building performance