

PROMASIL® 1100 Super

Barriers with Service Penetrations



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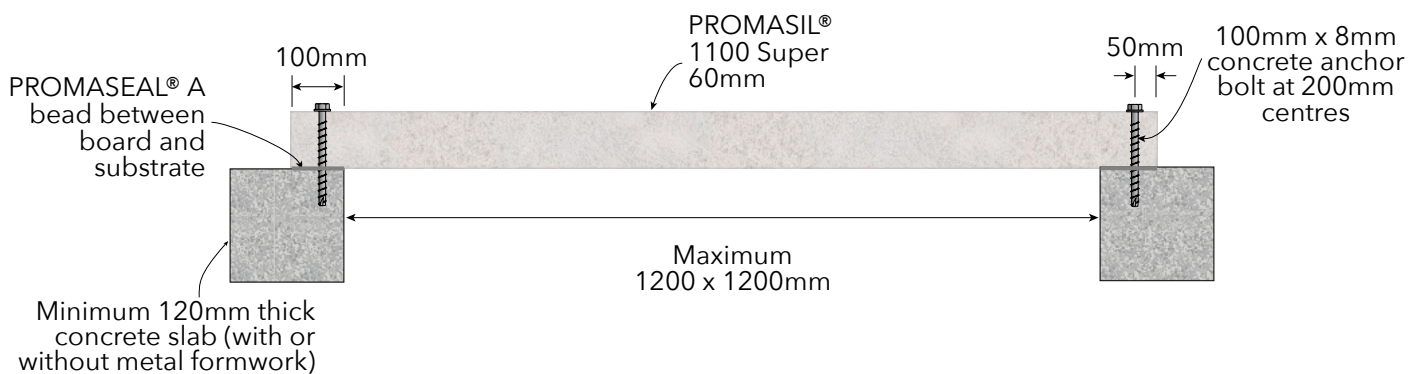
Service Penetrations through PROMASIL® 1100 Super

(See CSIRO FCO-3570 for full details)

CONCRETE SLAB - Barrier Top Side Installation

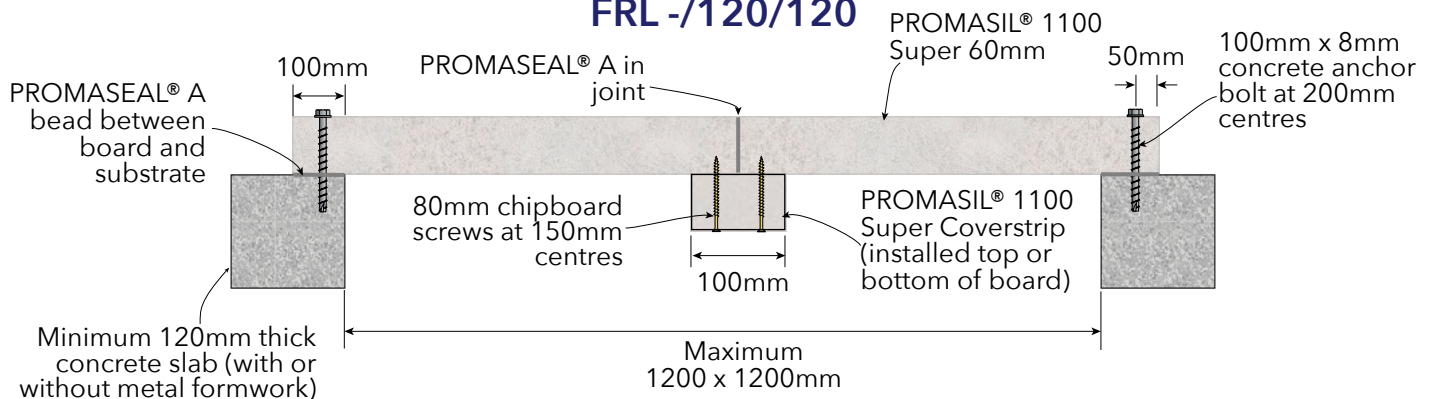
System - S1 (No Joints)

FRL -/120/120



System - S2 (Coverstrip)

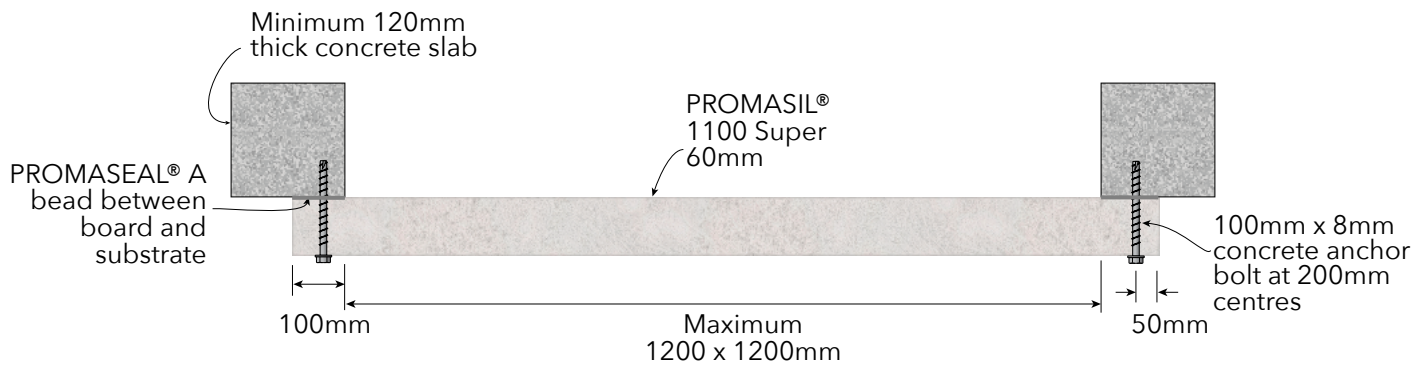
FRL -/120/120



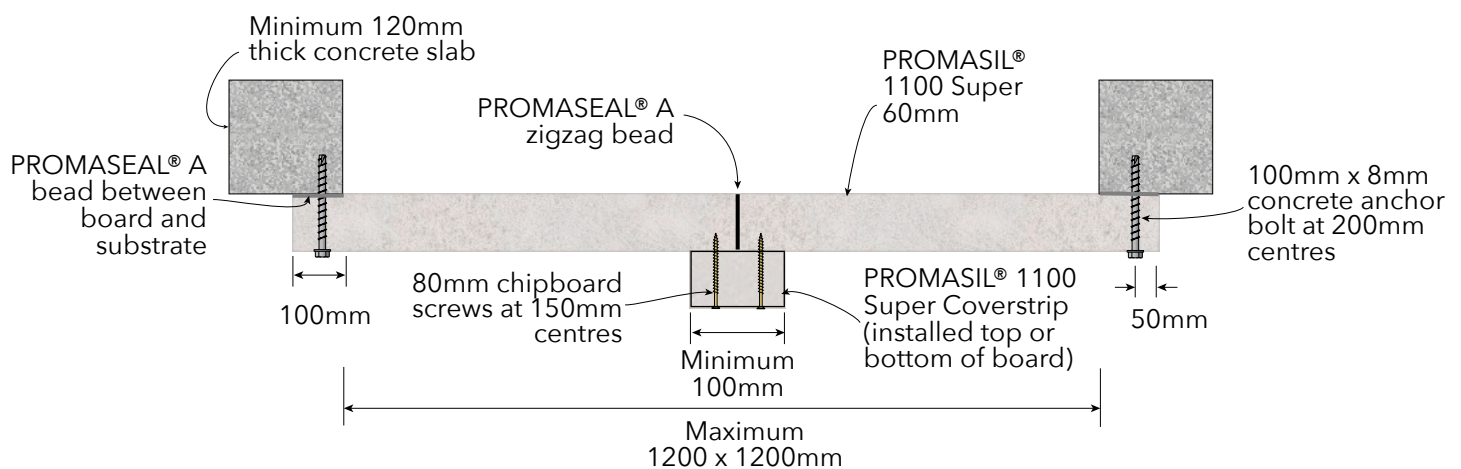
1. Install zigzag bead of PROMASEAL® A to the slab around the opening before installing the board
2. Fix board to slab at 200mm centres with 100mm long x 8mm concrete screw anchor. Ensure one fixing in each corner of the board. Fixings to be minimum 50mm from edge of the board.
3. If using multiple pieces of board, PROMASEAL® A zigzag bead to one edge of the joint before pushing together. Then apply 100mm wide coverstrip to the joint fixed with 80mm long chipboard screws at 150mm centres. The strip can be applied to the top or underside of the joint.

CONCRETE SLAB - Barrier Under Side Installation

System- S3 (No Joints)



System - S4 (Coverstrip)

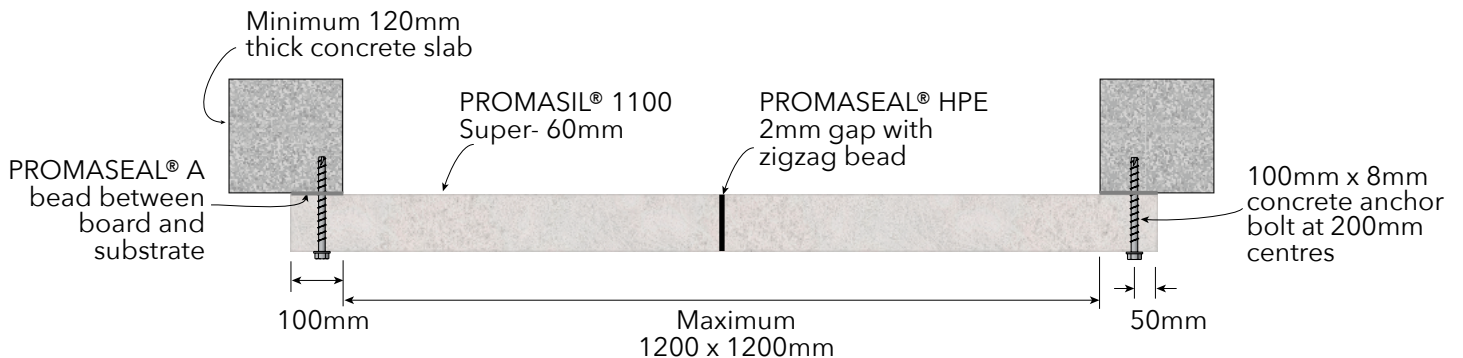


1. Install zigzag bead of PROMASEAL® A to the slab around the opening before installing the board
2. Fix board to slab at 200mm centres with 100mm long x 8mm concrete screw anchor. Ensure one fixing in each corner of the board. Fixings to be minimum 50mm from edge of the board.
3. If using multiple pieces of board, PROMASEAL® A zigzag bead to one edge of the joint before pushing together. Then apply 100mm wide coverstrip to the joint fixed with 80mm long chipboard screws at 150mm centres. The strip can be applied to the top or underside of the joint. For topside apply bead of PROMASEAL® A between strip and main board

CONCRETE SLAB - Barrier Under Side Installation

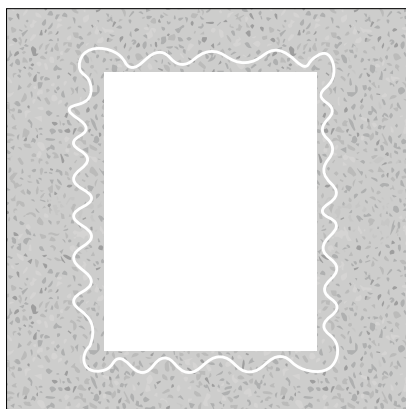
System - S5 (Joint and no coverstrip)

FRL -/90/90



1. Install zigzag bead of PROMASEAL® A to the slab around the opening before installing the board
2. Fix board to slab at 200mm centres with 100mm long x 8mm concrete screw anchor. Ensure one fixing in each corner of the board. Fixings to be minimum 50mm from edge of the board.
3. Install PROMASEAL® HPE zigzag bead to one edge of the joint before pushing together.

Examples of Zigzag Beads



Slab before board Install



Board edge for joint

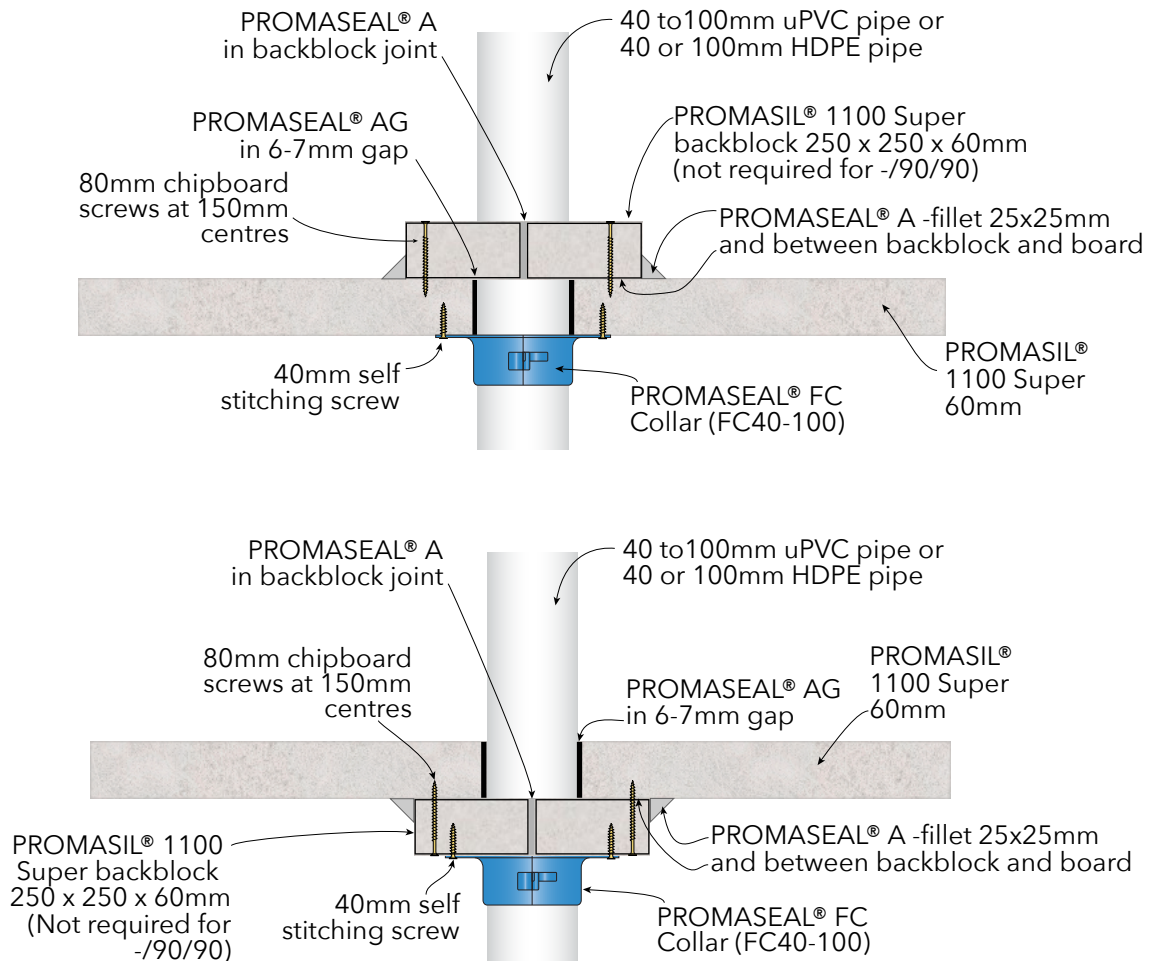
CONCRETE SLAB OPENINGS - SERVICES

Service	Product	Additional Protection	Maximum FRL*	Install #
40 to 100mm uPVC	PROMASEAL® Retrofit Collar (FC40 to FC100)	Backblock	-/120/120	PS1
40 & 100mm HDPE	PROMASEAL® Retrofit Collar (FC40 to FC100)	Backblock	-/120/120	PS1
40 to 100mm uPVC	PROMASEAL® Retrofit Collar (FC40 to FC100)	None	-/90/90	PS1
40 & 100mm HDPE	PROMASEAL® Retrofit Collar (FC40 to FC100)	None	-/90/90	PS1
3/8" & 5/8" PairCoil + TPS cable + CAT6 + uPVC Flex drain	PROMASEAL® FC Collar (FC100) + PROMASEAL Grafitex (GRAF4T)	800mm PROMASEAL® SupaWrap Top Side	-/120/120	PS2
16mm PEX-AL-PEX	PROMASEAL® Conduit Collar (CFC32)	Backblock	-/120/120	PS3
20mm PEX-AL-PEX	PROMASEAL® Conduit Collar (CFC32)	Backblock	-/90/90	PS3
25mm uPVC Conduit with CAT6,TPS or Fibre Optics	PROMASEAL® Conduit Collar (CFC32)	Backblock	-/120/120	PS3
100mm uPVC Floor waste with PROMASEAL® CIL	PROMASEAL® Floor Waste Retrofit (FWR100)	Single layer fixed direct to underside of slab	-/120/120	PS4
Redundant PROMASEAL® CIH100	PROMASIL® 1100 Super	Single layer fixed direct to underside of slab	-/120/120	PS5
75mm Bundle of CAT6	PROMASTOP® IM-CBOX 125	Backblock (topside)	-/120/120	PS6
Up to 20mm Copper	PROMASEAL® A	600mm PROMASEAL® SupaWrap Top Side	-/120/60	PS7
Up to 100mm Copper	PROMASEAL® A	800mm PROMASEAL® SupaWrap Top Side	-/120/120	PS7
Up to 50mm bundle of TPS cable	PROMASEAL® A	300mm PROMASEAL® SupaWrap Top Side	-/120/120	PS8a
Up to 3 Co-axial cables	PROMASEAL® A	None	-/120/120	PS8b

* FRL of service penetration will be limited to the FRL achieved by the board installation or the substrate.

Install PS1: PROMASEAL® Retrofit Collars

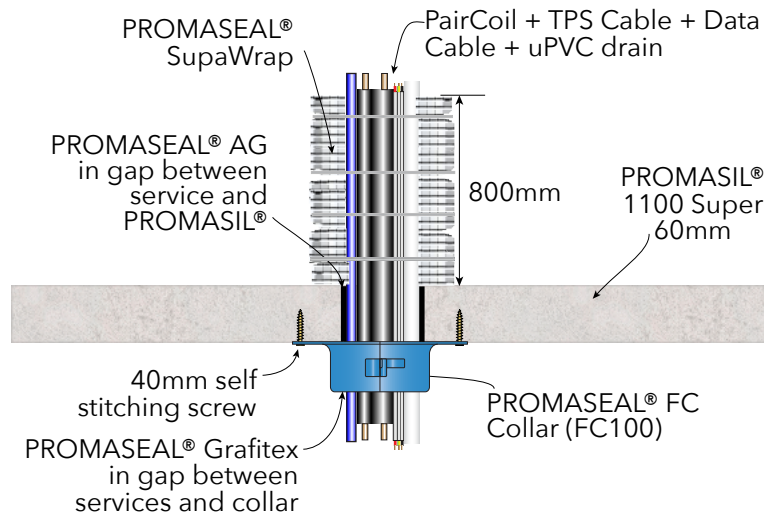
FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 15mm.
2. Install board to opening (refer to page 2 & 3 for methods)
3. Seal gap between pipe and board with PROMASEAL® AG
4. Cut backblock in two pieces, minimum overall size is 250 x 250mm. Cut hole to suit pipe size. (Not required for -/90/90)
5. Install PROMASEAL® A zigzag bead to joining edges of backblock and to area where it will join the main board (Not required for -/90/90)
6. Secure backblock to board with 80mm long chipboard screws at 150mm centres. Ensure a fixing to each corner of the two halves. Backblock can be either above or below main board.
7. Secure PROMASEAL® Retrofit collar suitable for the pipe size to the board with 40mm stitching screws
8. Fire Collar must be applied to the underside, of the construction.

Install PS2: PROMASEAL® Retrofit Collars & PROMASEAL® SupaWrap

FRL -/120/120

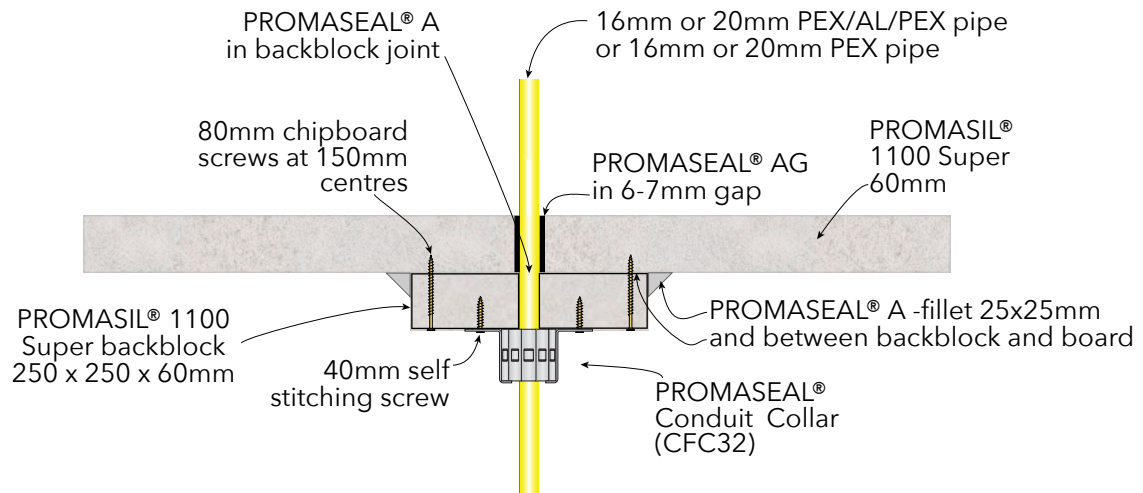


1. Cut hole in PROMASIL® 1100 Super board to suit service bundle size + 15mm.
2. Install board to opening (refer to page 2 & 3 for methods)
3. Install PROMASEAL® AG into gap between service bundle and board edge.
4. Install PROMASEAL® Retrofit Collar (FC100) to underside of board with 40mm stitching screws.
5. Backfill any gaps between service bundle and collar with PROMASEAL® Grafitex Paste (GRAF4T)
6. Cut PROMASEAL® SupaWrap to 800mm length and secure around the service bundle on the top side of the board with 4 stainless steel cable ties

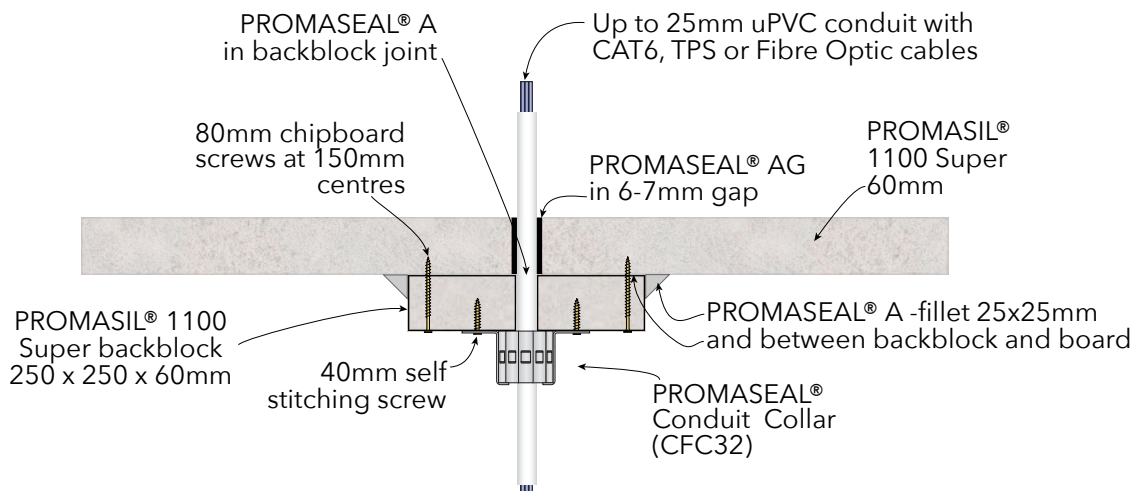
Install PS3: PROMASEAL® Conduit Collars

16mm FRL -/120/120

20mm FRL -/90/90

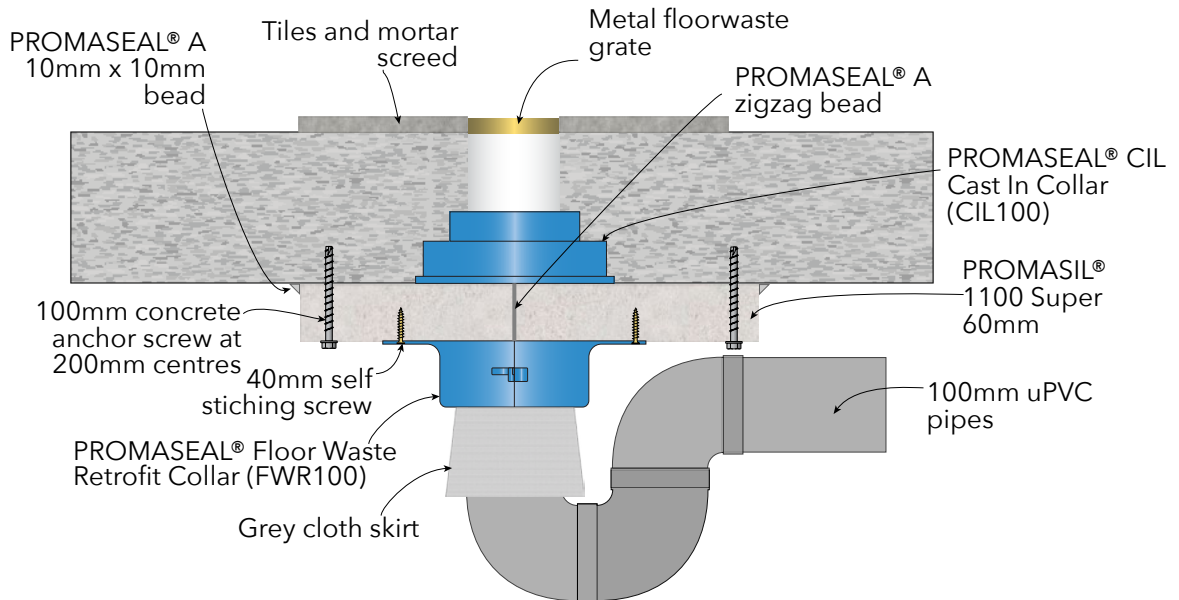


FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 15mm.
2. Install board to opening (refer to page 2 & 3 for methods)
3. Seal gap between pipe and board with PROMASEAL® AG
4. Cut backblock in two pieces, minimum overall size is 250 x 250mm. Cut hole to suit pipe size.
5. Install PROMASEAL® A zigzag bead to joining edges of backblock and to area where it will join the main board
6. Secure backblock to board with 80mm long chipboard screws at 150mm centres. Ensure a fixing to each corner of the two halves. Backblock can be either above or below main board.
7. Secure PROMASEAL® Conduit collar to the underside of the board with 40mm stitching screws

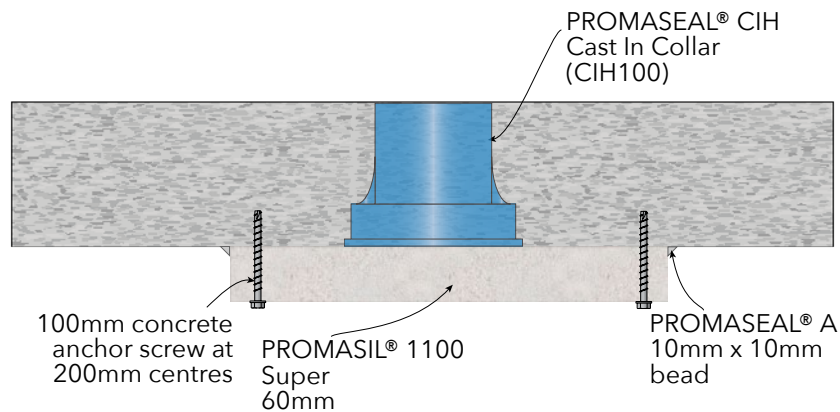
Install PS4: PROMASEAL® Retrofit Floor waste & PROMASEAL® Cast In FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 15mm.
2. Install board to underside of slab with 100mm concrete anchor screws at 200mm centres.
3. For existing pipe where board is installed in two halves, ensure zigzag bead of PROMASEAL® A applied to board edges before pushing together
4. Install bead of PROMASEAL® A Acrylic Sealant to mating area between board and concrete for entire perimeter
5. Install PROMASEAL® Retrofit Floor waste Collar (FWR100) to underside of board with 40mm stitching screws.
6. Ensure grey cloth skirt is pulled down from out of the PROMASEAL® Retrofit Floor waste Collar to cover top part of plastic pipe.

Install PS5: PROMASIL® 1100 Super to cover redundant PROMASEAL® Cast In

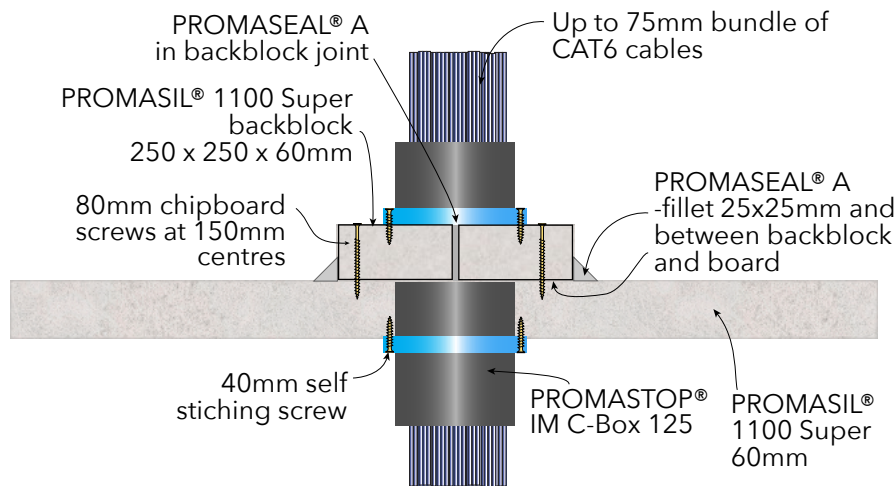
FRL -/120/120



1. Install board to underside of slab with 100mm concrete anchor screws at 200mm centres.
2. Suggested overlap for board onto concrete is 100mm to ensure anchor is 50mm from edge of board and 50mm from edge of collar. (Distance not specified in assessment)
3. Install bead of PROMASEAL® A Acrylic Sealant to mating area between board and concrete for entire perimeter.

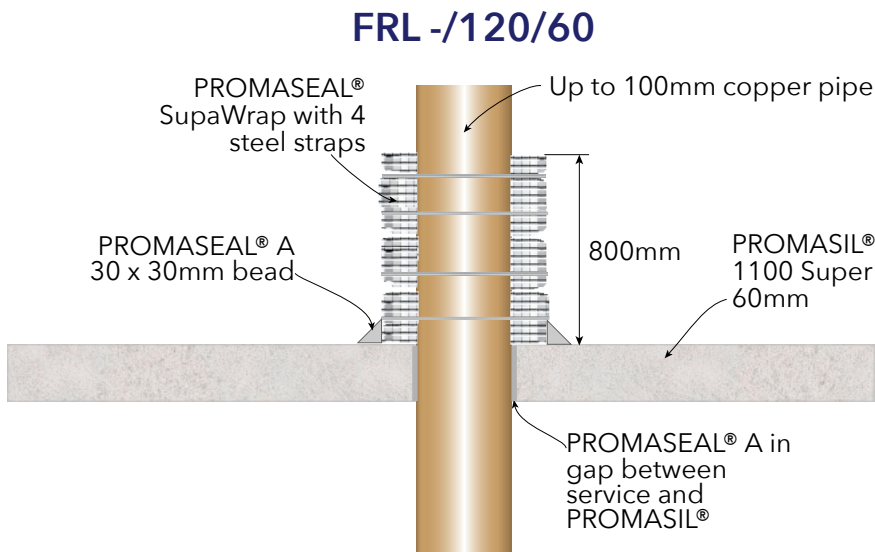
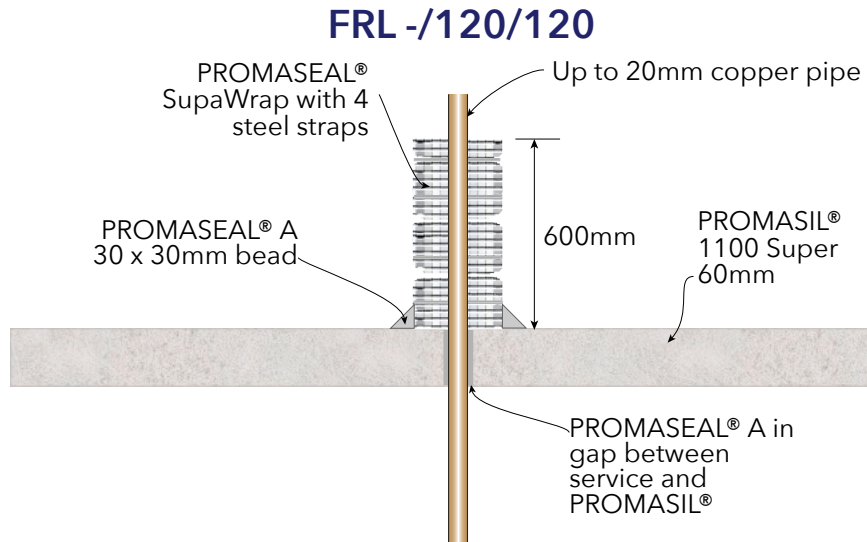
Install PS6: PROMASTOP® IM C-BOX 125

FRL -/120/120



1. Cut hole in 127mm diameter hole in PROMASIL® 1100 Super board.
2. Install board to opening (refer to page 2 & 3 for methods) .
3. For existing services where board is installed in two halves, ensure zigzag bead of PROMASEAL® A applied to board edges before pushing together
4. Cut back-block piece. Minimum 250 x 250mm. Then cut a 127mm diameter hole and cut the backblock in half
5. Install zigzag bead of PROMASEAL® A to top side of main board and to the edges of the two back-block halves before installing to main board
6. Install back-block pieces to main board with 80mm long chipboard screws. One screw to each corner of the halves and then one extra screw on the long edge.
7. Install the PROMASTOP® IM C-Box 125 through the opening so it is centrally located through the combined layers. Secure to the board and backblock on the top and bottom sides by placing 40mm stitching screws into the holes in the supplied blue plastic brackets. One bracket is installed on top and one below.
8. Install bead of PROMASEAL® A Acrylic Sealant to the perimeter join between backblock and main board

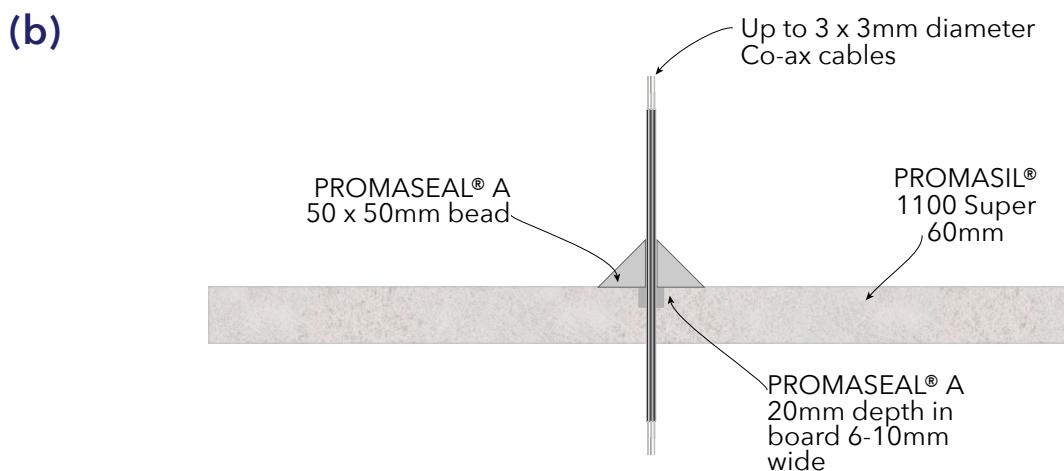
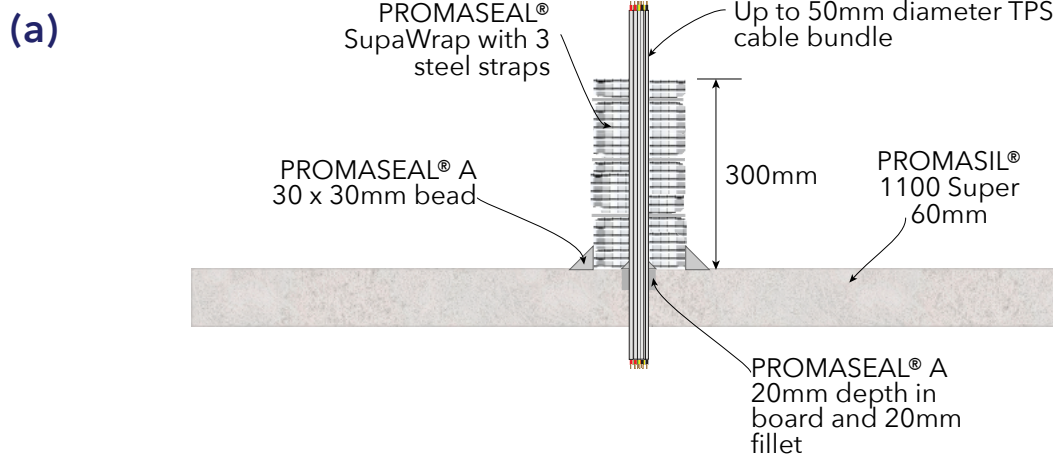
Install PS7: PROMASEAL® A & PROMASEAL® SupaWrap for Copper Pipes



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 15mm.
2. Install board to opening (refer to page 2 & 3 for methods)
3. Install PROMASEAL® A to gap between service and board for total depth of board.
4. Cut PROMASEAL® SupaWrap to suitable length depending on service diameter.
5. Install PROMASEAL® SupaWrap around service on topside only and secure with four stainless steel cable-ties.
6. Install 30 x 30mm cone of PROMASEAL® A between PROMASEAL® SupaWrap and board.

Install PS8: PROMASEAL® A & PROMASEAL® SupaWrap for Cables

FRL -/120/120



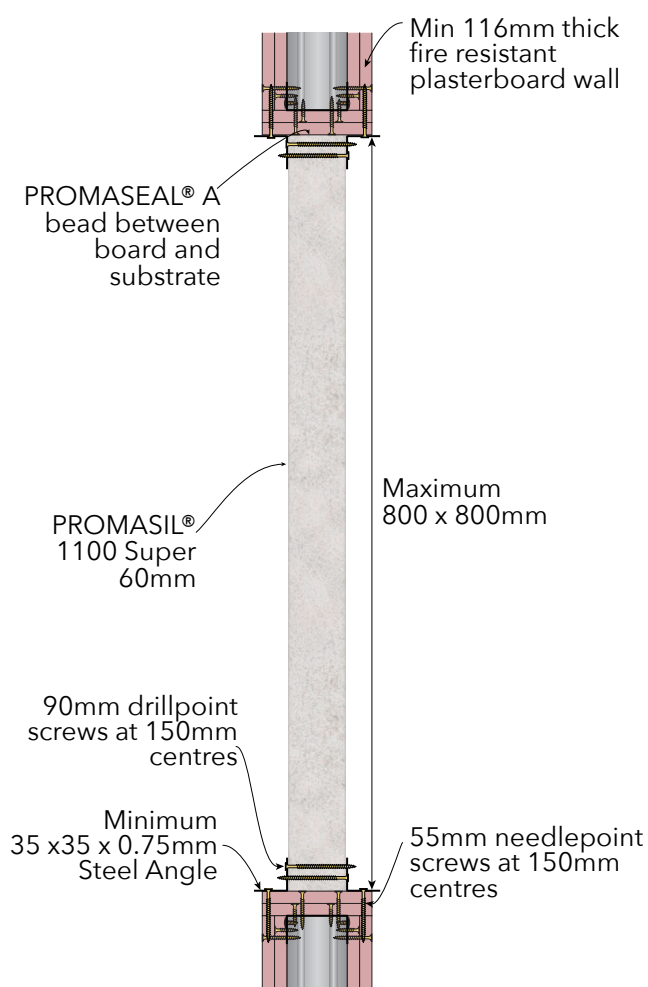
1. Cut hole in PROMASIL® 1100 Super board to suit cable bundle size + 15mm.
2. Install board to opening (refer to page 2 & 3 for methods)
3. Install PROMASEAL® A to gap between service and board for 20mm depth from topside of board.
4. For method (a):
 - a. Cut PROMASEAL® SupaWrap to 300mm length.
 - b. Install PROMASEAL® SupaWrap around service on topside only and secure with three stainless steel cable-ties.
 - c. Install 30 x 30mm cone of PROMASEAL® A between PROMASEAL® SupaWrap and board.
5. For method (b): Install 50 x 50mm PROMASEAL® A Cone to topside only

Service Penetrations through PROMASIL® 1100 Super

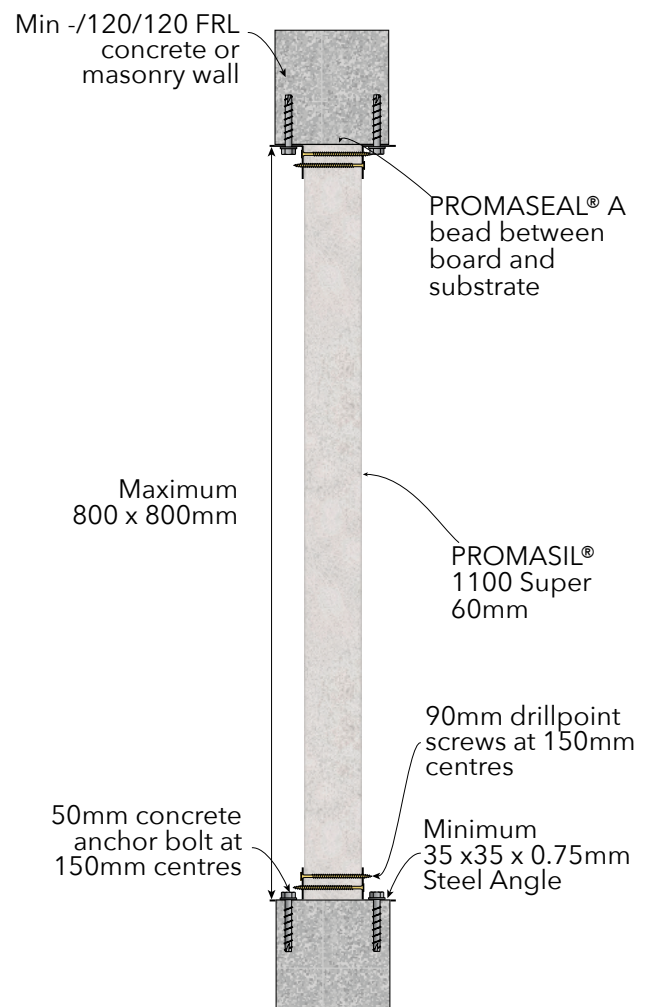
PLASTERBOARD OR CONCRETE / MASONRY WALL

FRL -/120/120

System W1



System W2

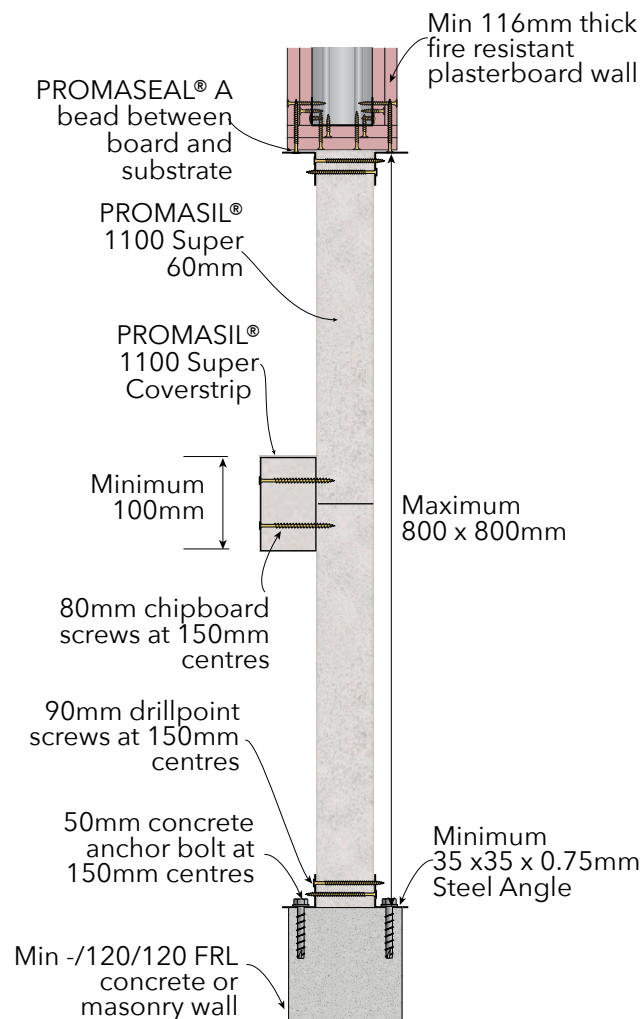


1. For plasterboard walls, lining opening with same board thickness and number of layers as face of the wall
2. Install zigzag bead of PROMASEAL® A to the edge of the opening before installing the angle and board
3. Fix minimum 35 x 35 x 0.75mm steel angles to opening with 55mm needlepoint screws (plasterboard) or 50mm concrete anchors bolts (concrete/masonry) at 150mm centres.
4. Install board between angles and fix with 90mm drillpoint screws at 150mm centres

PLASTERBOARD OR CONCRETE / MASONRY WALL

System- W3 (Coverstrip)

FRL -/120/120



1. For plasterboard walls, lining opening with same board thickness and number of layers as face of the wall
2. Install zigzag bead of PROMASEAL® A to the edge of the opening before installing the angle and board
3. Fix minimum 35 x 35 x 0.75mm steel angles to opening with 55mm needlepoint screws (plasterboard) or 50mm concrete anchors bolts (concrete/masonry) at 150mm centres.
4. Install board between angles and fix with 90mm drillpoint screws at 150mm centres
5. Install 100mm wide coverstrip over join with 80mm thick chipboard screws at 150mm centres

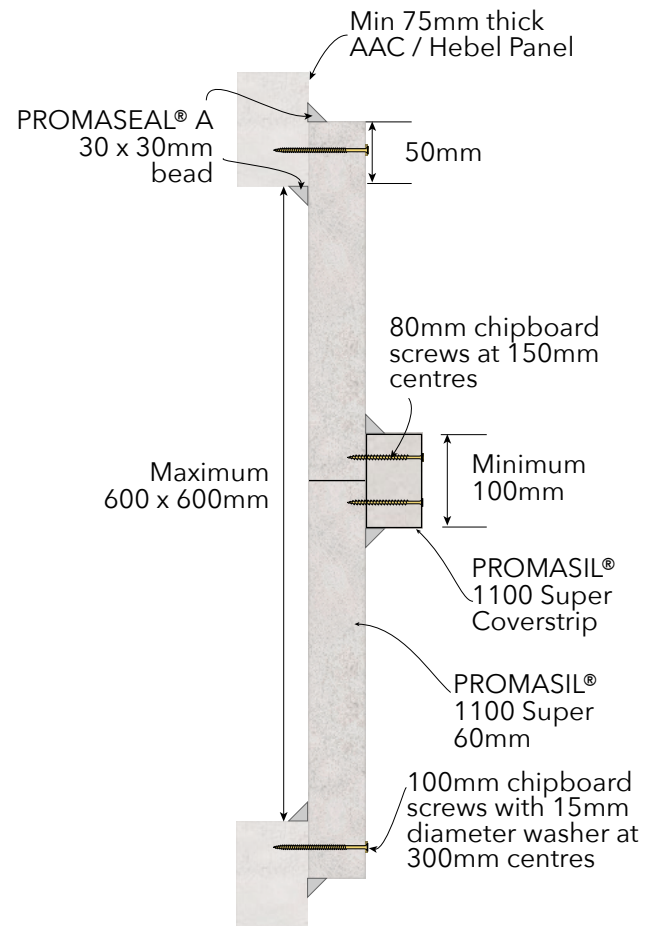
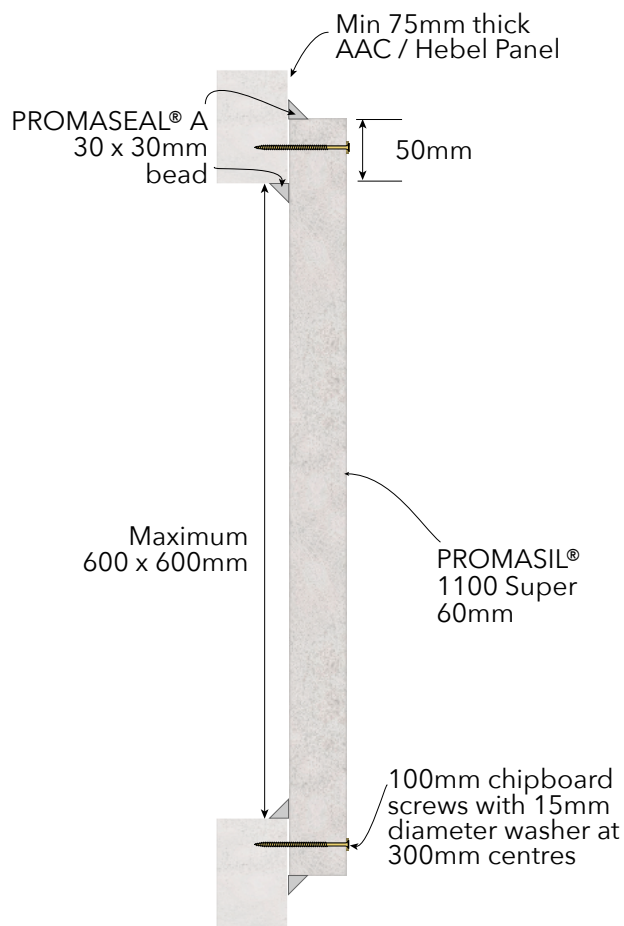
AAC / Hebel Panels

600 x 600mm

System - W4

FRL -/90/90

System - W5



1. Install zigzag bead of PROMASEAL® A to the face of the panel that the board will be installed to.
2. Install board to face of panel with 50mm overlap around perimeter of opening. Fix to the panel with 100mm long chipboard screws with a 30mm diameter washer at 300mm centres
3. Install 30 x 30mm bead of PROMASEAL® A to joints between the board and substrate on both faces.
4. Where a coverstrip is used it will be 100mm wide and fixed to the main board with 80mm long chipboard screws at 150mm centres.
5. For coverstrips, install 30 x 30mm bead of PROMASEAL® A to joint between strip and main board.

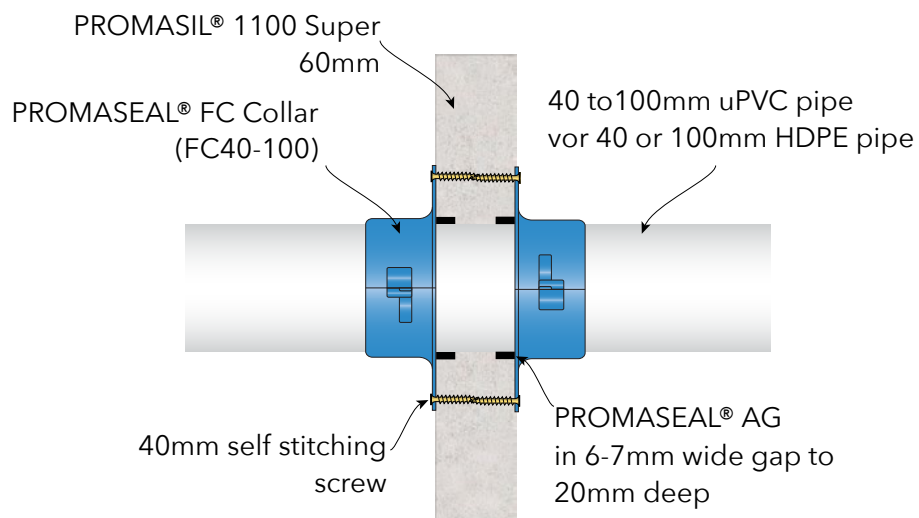
WALL OPENINGS

Service	Product	Additional Protection	Maximum FRL*	Install #
40-100mm uPVC	PROMASEAL® FC Retrofit Collar (FC40-100)	PROMASEAL® AG	-/120/120	PW1
40 & 100mm HDPE	PROMASEAL® FC Retrofit Collar (FC40 or FC100)	PROMASEAL® AG	-/120/120	PW1
20-32 PEX	PROMASEAL® Conduit Collar (CFC)	PROMASEAL® A	-/120/120	PW2
20-25mm PEX	PROMASEAL® AG	N/A	-/120/120	PW3
16-25 PEX/Al/PEX	PROMASEAL® AG	Back-block (one face)	-/120/120	PW4
25mm uPVC Conduit with Fibre Optics	PROMASEAL® Conduit Collar (CFC32)	PROMASEAL® A	-/120/120	PW2
Up to 20mm Copper	PROMASEAL® A	300mm PROMASEAL® SupaWrap (Both faces)	-/120/120	PW5
Up to 32mm Copper	PROMASEAL® A	600mm PROMASEAL® SupaWrap (Both faces)	-/120/120	PW5
Up to 65mm Copper	PROMASEAL® A	600mm PROMASEAL® SupaWrap + 300mm second layer (Both faces)	-/120/120	PW6
Up to 100mm Copper	PROMASEAL® A	800mm PROMASEAL® SupaWrap + 300mm second layer (Both faces)	-/120/120	PW6
Air con Bundle (PairCoil + TPS + CAT6 + uPVC drain)	PROMASEAL® AG	Back-block (one face)	-/120/120	PW7
TPS Cable x 1	PROMASEAL® A	N/A	-/120/120	PW8
TPS Cable Bundle (Up to 30mm diameter)	PROMASEAL® A	PROMASEAL® SupaWrap (Both faces)	-/120/120	PW8
CAT6 Bundle (Up to 20)	PROMASEAL A	N/A	-/120/120	PW8
D1 or D2 Cable Set	PROMASEAL® A	600mm PROMASEAL® SupaWrap (Both faces)	-/120/120	PW9

* FRL of service penetration will be limited to the FRL achieved by the board installation or the substrate.

Install PW1: PROMASEAL® Retrofit Collars

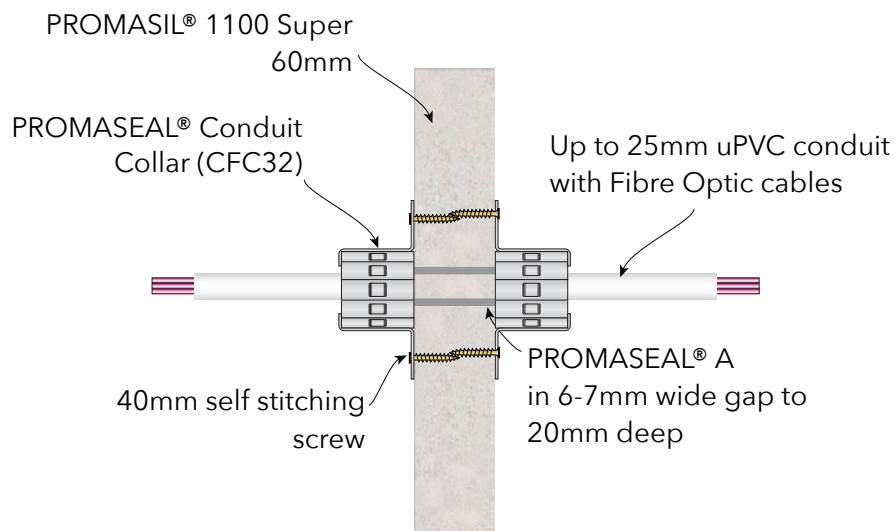
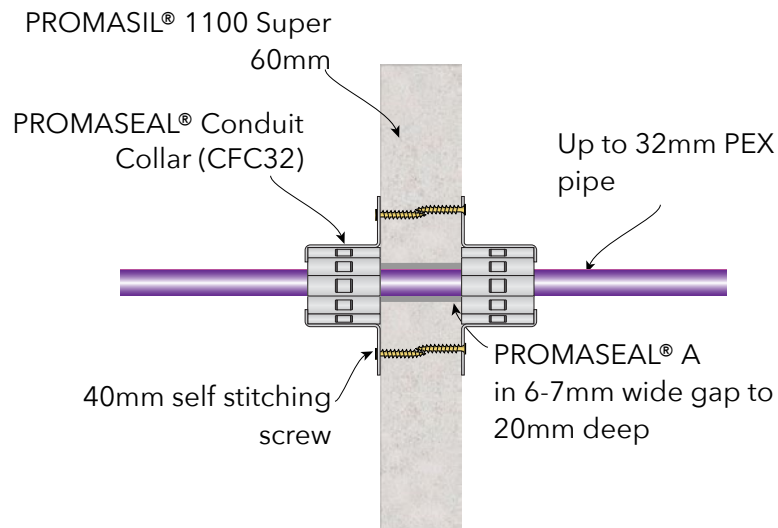
FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 15mm.
2. Install board to opening (refer to page 15 to 17 for methods)
3. Install PROMASEAL® AG into gap between pipe and board edge.
4. Install PROMASEAL® Retrofit Collar (FC40 to FC100) to both faces of board with 40mm stitching screws.

Install PW2: PROMASEAL® Conduit Collar

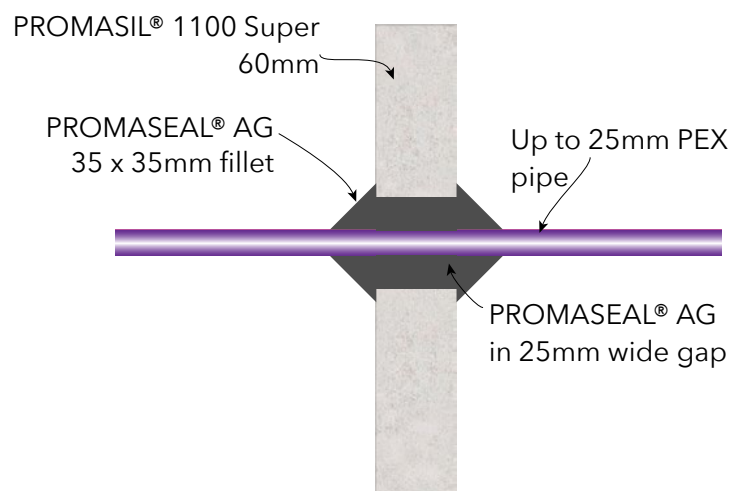
FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 15mm.
2. Install board to opening (refer to page 15 to 17 for methods)
3. Install PROMASEAL® A into gap between pipe and board edge to a depth of 20mm on each face.
4. Install PROMASEAL® Conduit Collar (CFC32) to both faces of board with 40mm stitching screws.

Install PW3: PROMASEAL® AG with PEX

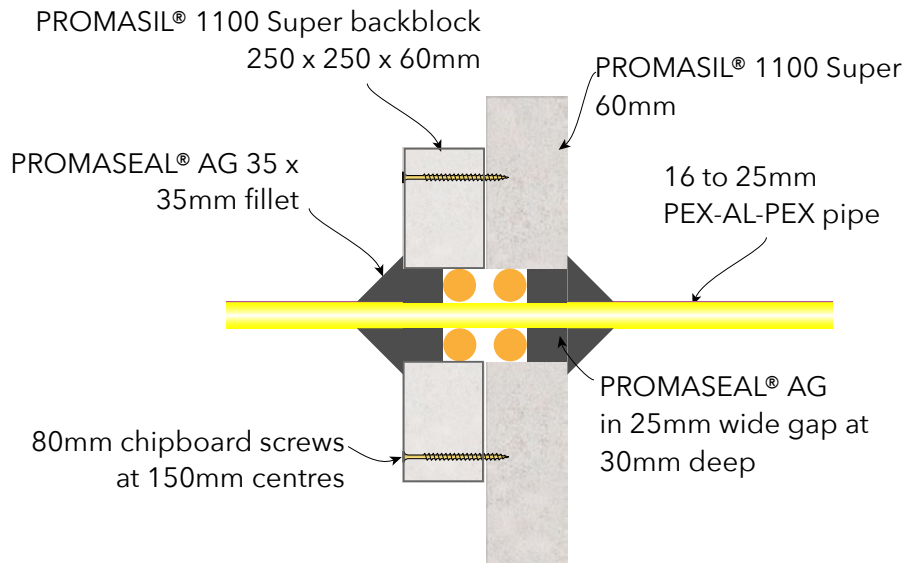
FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 50mm.
2. Install board to opening (refer to page 15 to 17 for methods)
3. Install PROMASEAL® AG into gap between pipe and board edge to a full depth of board with a 35 x 35mm cone to both faces. .

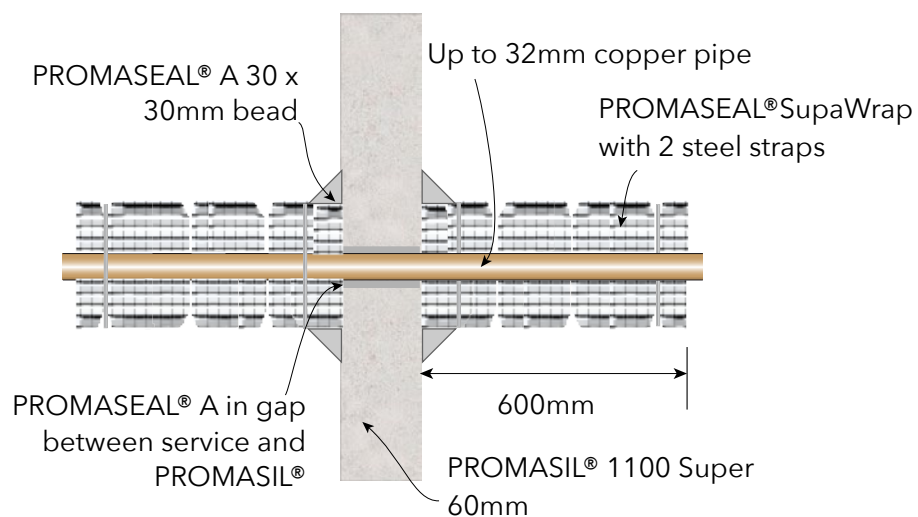
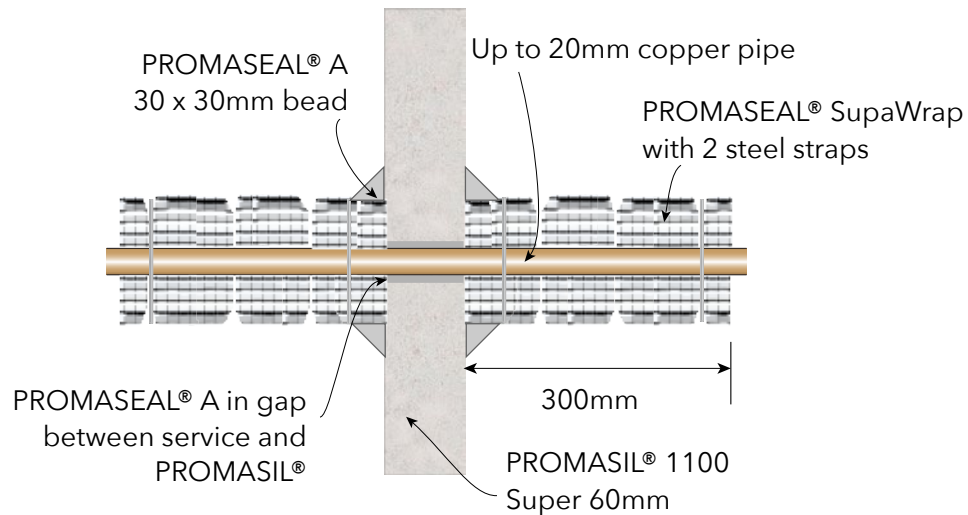
Install PW4: PROMASEAL® AG with PEX/AL/PEX

FRL -/120/120



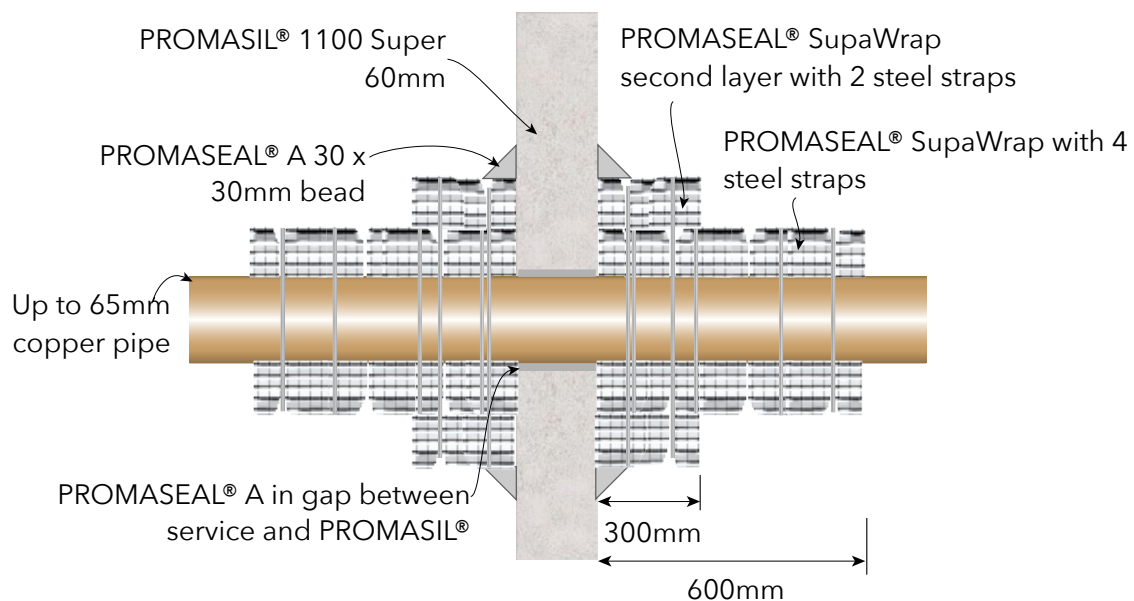
1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 50mm.
2. Install board to opening (refer to page 15 to 17 for methods)
3. Cut back block. Minimum size 250 x 250mm, with hole to suit pipe size + 50mm
4. Install back block to either face with 80mm long chipboard screws at 150mm centres.
5. Install PROMASEAL® AG into gap between pipe and board edge to a depth of 30mm on each face of the combined board and back block with a 35 x 35mm cone to each face. .

Install PW5: PROMASEAL® A Copper Pipes - Up to 32mm FRL -/120/120



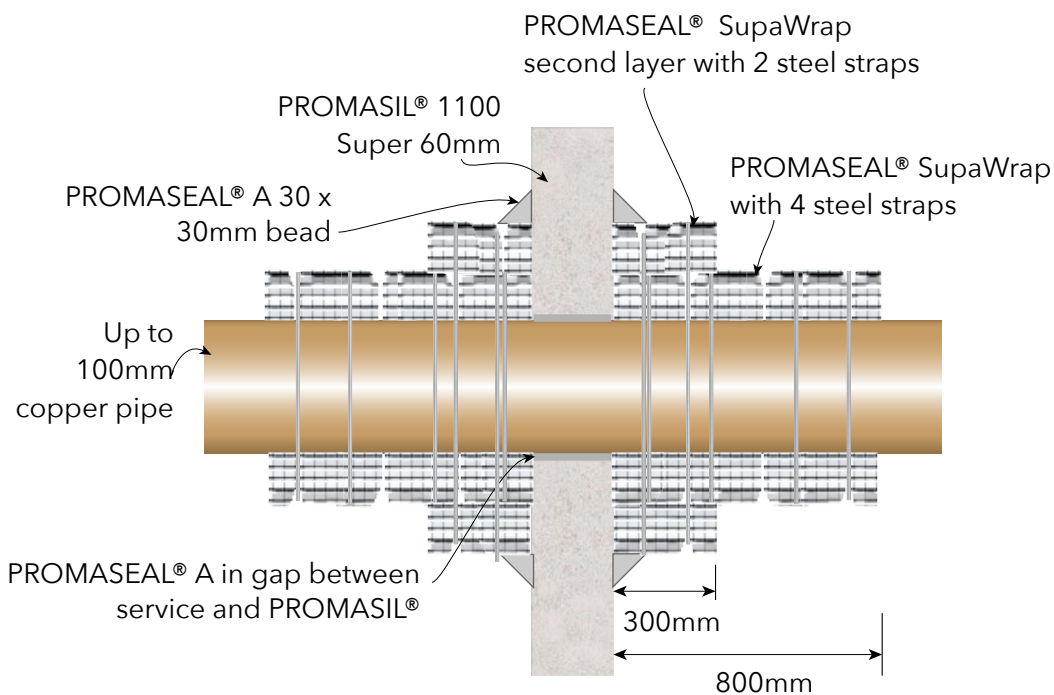
1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 15mm.
2. Install board to opening (refer to page 15 to 17 for methods)
3. Install PROMASEAL® A into gap between pipe and board edge to full depth of board.
4. Install PROMASEAL® SupaWrap to both faces of board (300mm long for up to 20mm & 600mm long for up to 32mm) and secure with two stainless steel cable ties on each face
5. Install PROMASEAL® A bead 30 x 30mm between wrap and board on both faces

Install PW6: PROMASEAL® A Copper Pipes - Up to 65mm FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 15mm.
2. Install board to opening (refer to page 15 to 17 for methods)
3. Install PROMASEAL® A into gap between pipe and board edge to full depth of board.
4. Install PROMASEAL® SupaWrap to both faces of board (600mm long for up to 65mm & 800mm for up to 100mm) and secure with four stainless steel cable ties on each face.
5. Install second layer of PROMASEAL® SupaWrap (300mm long) around the first layer to both faces of the board and secure with two stainless steel cable ties
6. Install PROMASEAL® A bead 30 x 30mm between wrap and board on both faces

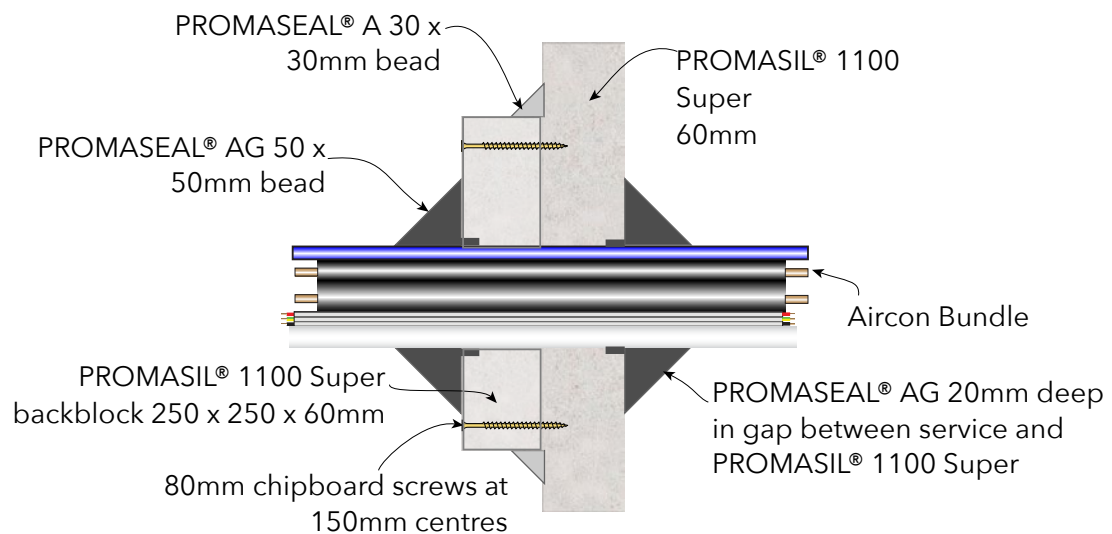
Install PW6: PROMASEAL® A Copper Pipes - Up to 100mm FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 15mm.
2. Install board to opening (refer to page 15 to 17 for methods)
3. Install PROMASEAL® A into gap between pipe and board edge to full depth of board.
4. Install PROMASEAL® SupaWrap to both faces of board (600mm long for up to 65mm & 800mm for up to 100mm) and secure with four stainless steel cable ties on each face.
5. Install second layer of PROMASEAL® SupaWrap (300mm long) around the first layer to both faces of the board and secure with two stainless steel cable ties
6. Install PROMASEAL® A bead 30 x 30mm between wrap and board on both faces

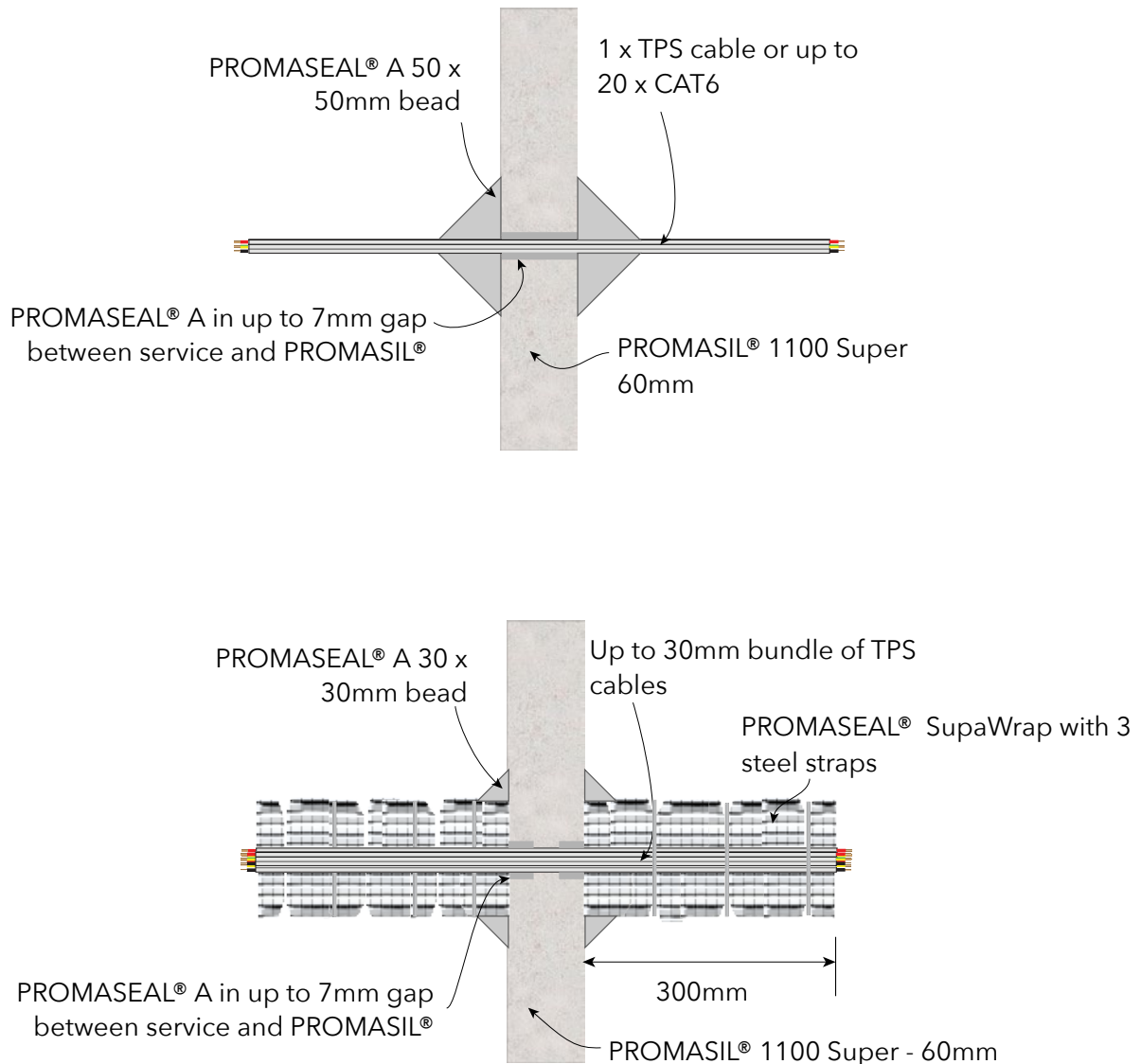
Install PW7: PROMASEAL® AG + Air con Bundle

FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit pipe size + 50mm.
2. Install board to opening (refer to page 15 to 17 for methods)
3. Cut back block. Minimum size 250 x 250mm with hole to suit pipe size + 50mm
4. Install back block to either face with 80mm long chipboard screws at 150mm centres.
5. Install PROMASEAL® AG into gap between pipe and board edge to a depth of 20mm on each face of the combined board and back block with a 50 x 50mm cone to each face. .

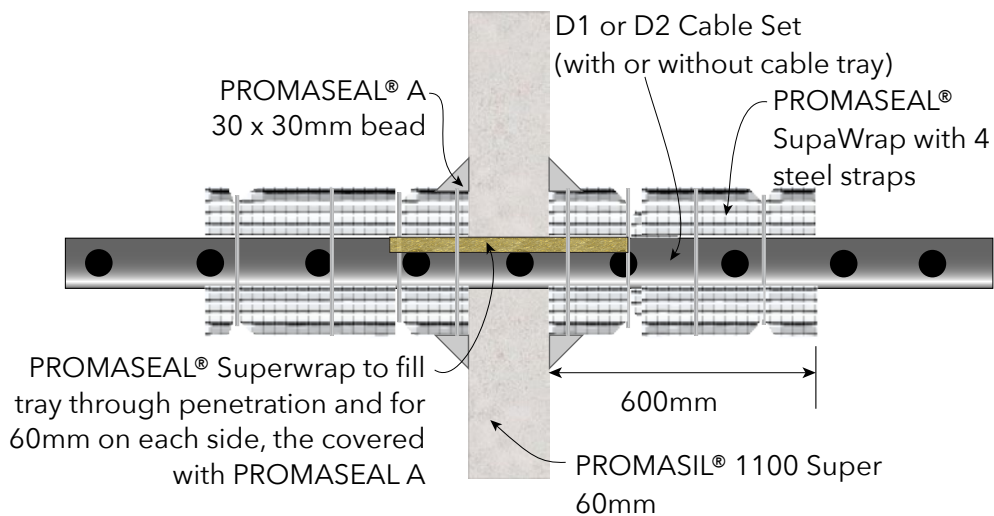
Install PW8: PROMASEAL® A with cables and bundles FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit cable or bundle size + 15mm.
2. Install board to opening (refer to page 15 to 17 for methods)
3. Install PROMASEAL® A into gap between pipe and board edge to full depth of board.
4. For the single TPS and bundle of CAT6. Install 30 x 30mm bead of PROMASEAL® A to both faces
5. For the 30mm bundle of TPS:
 - a. Install 300mm long PROMASEAL® SupaWrap to both faces of board and secure with three stainless steel cable ties on each face.
 - b. Install PROMASEAL® A bead 30 x 30mm between wrap and board on both faces

Install PW9: PROMASEAL® A with cables

FRL -/120/120



1. Cut hole in PROMASIL® 1100 Super board to suit cable tray or bundle size + 15mm.
2. Install board to opening (refer to page 13 to 15 for methods)
3. Install pieces of PROMASEAL® SupaWrap into gaps between cables on the tray for depth of board + 60mm on each face.
4. Install 600mm long PROMASEAL® SupaWrap to both faces of the board around the tray/bundle and secure with four steel cable ties or straps on each face
5. Install PROMASEAL® A bead 30 x 30mm between PROMASEAL® SupaWrap and board .

PROMASEAL® – HPE Sealant

PROMASIL® 1100 Super

In minimum 120mm thick concrete slab

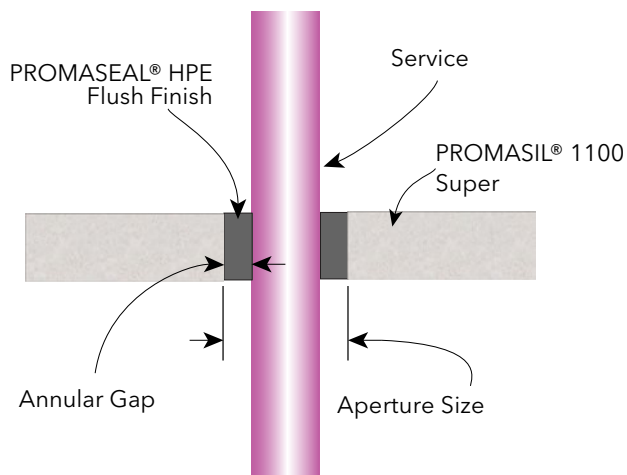


Assesment 250411 Tables 35-38 & 59-63

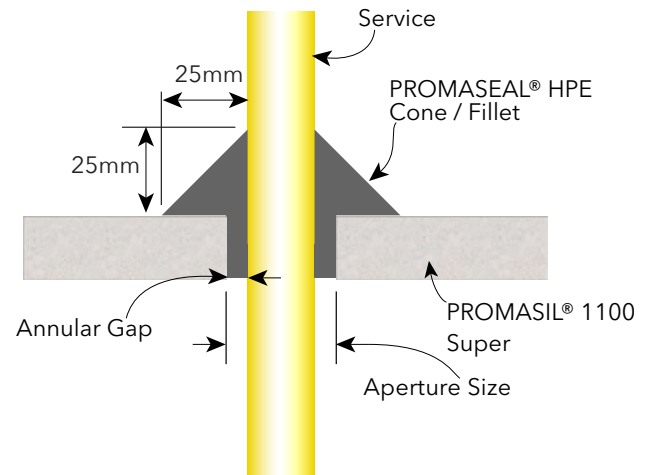
SERVICE	MAXIMUM APERTURE SIZE (mm)	MAXIMUM ANNULAR GAP (mm)	METHOD			FRL
			Flush finish	Cone / Fillet finish	Cone / Fillet +300mm SupaWrap	
16mm PEX/AL/PEX	36	10		✓	✓	-/120/120*
20mm PEX/AL/PEX	40	10			✓	-/120/120*
20mm PEX/AL/PEX	40	10		✓		-/90/90
25mm PEX/AL/PEX	45	10		✓	✓	-/120/120
32mm PEX/AL/PEX	52	10			✓	-/90/90
32mm PEX/AL/PEX	52	10		✓		-/60/60
16mm PEX	36	10	✓	✓		-/120/120*
20mm PEX	40	10	✓	✓		-/120/120
25mm PEX	45	10		✓		-/120/120
25mm PEX	45	10	✓			-/90/90
2 x 20mm Conduit with TPS & CAT6	60	10		✓		-/90/90
Up to 19 x CAT 6 / Data cables	50	10		✓		-/120/120*
Up to 21 x Alarm / Fire Cables	50	10		✓		-/60/60
Up to 23 x NBN / Fibre Optic Cable	60	10		✓		-/120/120
Up to 10 x NBN in Conduit (160mm long)	50	5		✓		-/120/120
Aircon Bundle (+ Cable & Drain)	120	10			✓	-/90/90

* FRL -/180/180 can be achieved when PROMASIL Installed into slab with FRL -/180/180

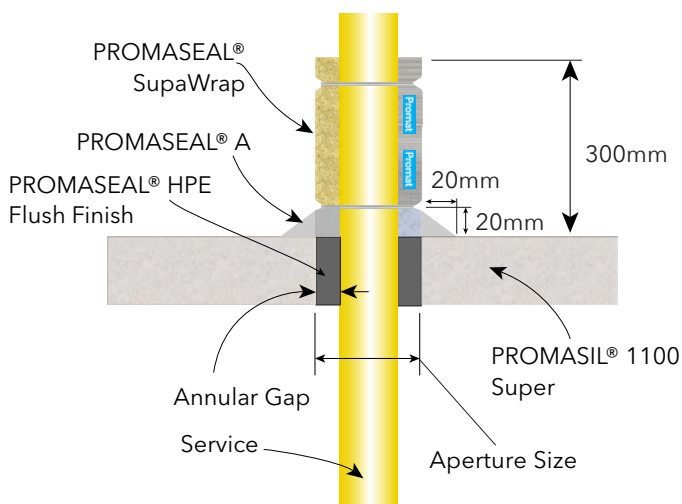
- > PROMASIL® board can be installed in alternate locations if approved
- > If number of cables in a bundle is decreased then annular gap size must be maintained by reducing aperture size
- > Services can be installed off centre of the aperture provided the annular gap is maintained and maximum aperture size not exceeded
- > Services can be installed at an angle, provided annular gap and aperture size are maintained.



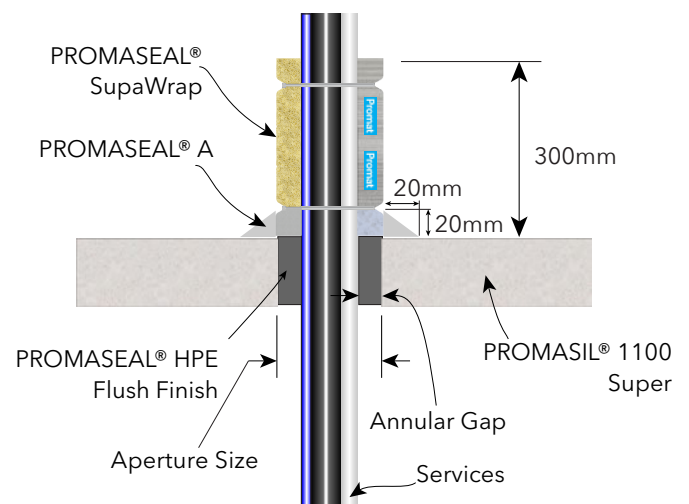
Pipe Flush Installation - Section



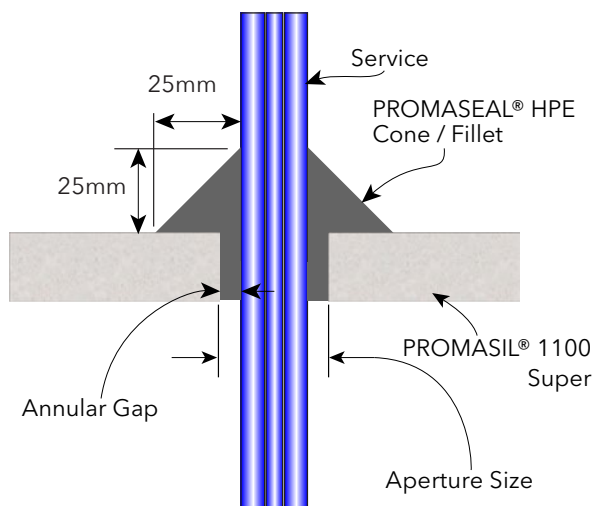
Pipe Cone Installation - Section



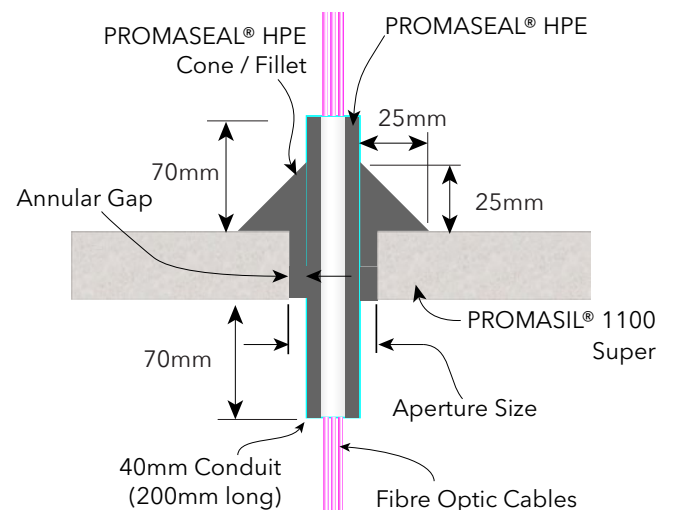
Pipe + Wrap Installation - Section



Aircor Bundle + Wrap Installation - Section



Cable Cone Installation - Section



Conduit + Cone Installation - Section

PROMASEAL® – HPE Sealant

PROMASIL® 1100 Super

In minimum 116mm thick Fire Resistant Plasterboard Wall (2x13mm + 64mm stud)

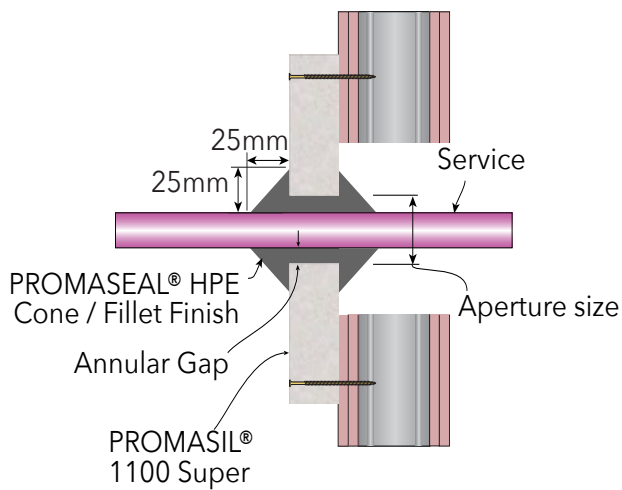


Assessment 250411

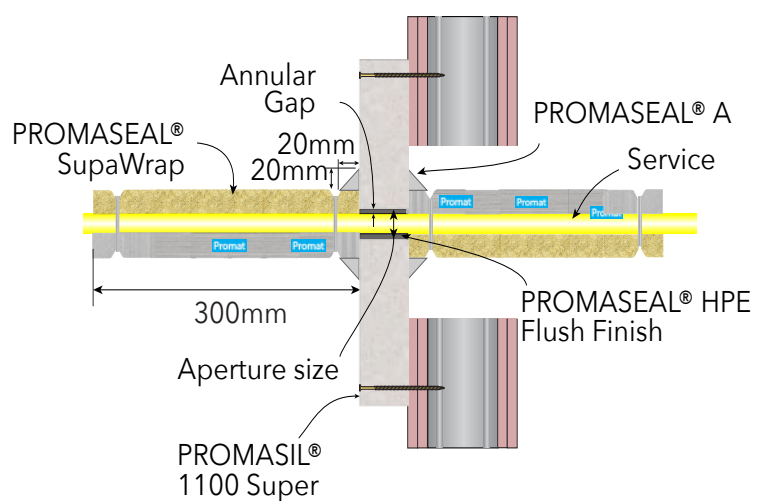
Tables 26, 27, 28, 50, 51 & 52

SERVICE	MAXIMUM APERTURE SIZE (mm)	MAXIMUM ANNULAR GAP (mm)	METHOD		FRL
			Flush Finish +300mm SupaWrap	Cone / Fillet	
16mm PEX/AL/PEX	36	10	✓		-/120/120*
20mm PEX/AL/PEX	40	10	✓		-/120/120
25mm PEX/AL/PEX	45	10	✓		-/90/90
32mm PEX/AL/PEX	52	10	✓		-/90/90
Bundle of 4 PEX/AL/PEX	83	10	✓		-/60/60
16mm PEX	36	10		✓	-/120/120
20mm PEX	40	10		✓	-/120/120
25mm PEX	45	10		✓	-/120/120
Bundle of 4 PEX	83	10	✓		-/60/60
Up to 19 x CAT6 Cables	50	10		✓	-/60/60
Up to 30 x TPS Cables	80	10	✓		-/90/90
Up to 2 x 20mm Conduit with TPS & CAT6	60	10		✓	-/120/120
Up to 23 x NBN / Fibre Optic Cables	60	10		✓	-/120/120
UP to 10 x NBN in Conduit (160mm long)	50	5		✓	-/120/120
Pair Coil Bundle (+ Cable & Drain)	120	10	✓		-/90/90

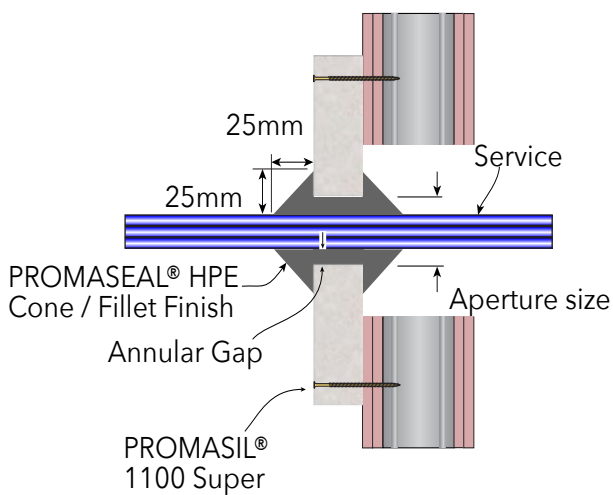
- * FRL of -/180/180 can be achieved with PROMASIL® board installed in a -/180/180 separating barrier
- > If number of cables in a bundle is decreased then annular gap size must be maintained by reducing aperture size
- > Services can be installed off centre of the aperture provided the annular gap is maintained and maximum aperture size not exceeded
- > Services can be installed at an angle, provided annular gap and aperture size are maintained.
- > PROMASIL® board can be installed in alternate separating elements if approved



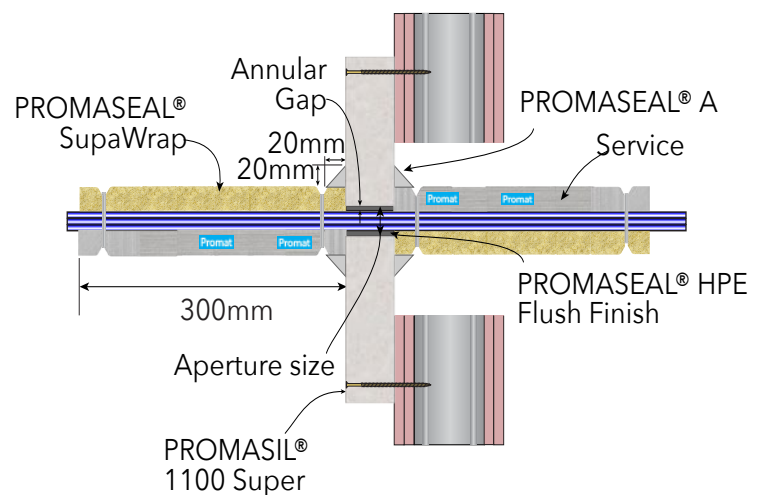
Pipe Cone Installation



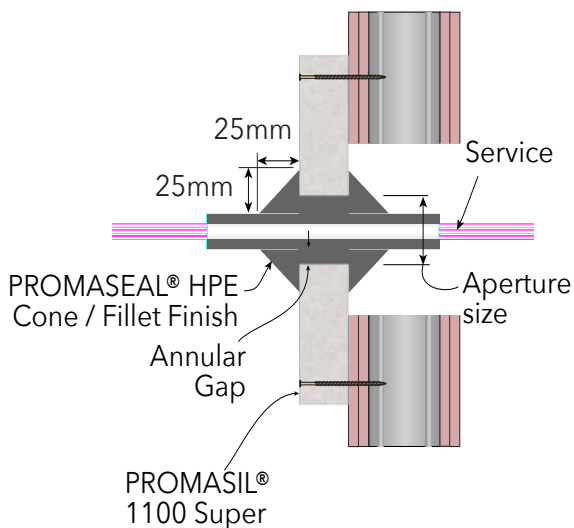
Pipe + Wrap Installation - Section



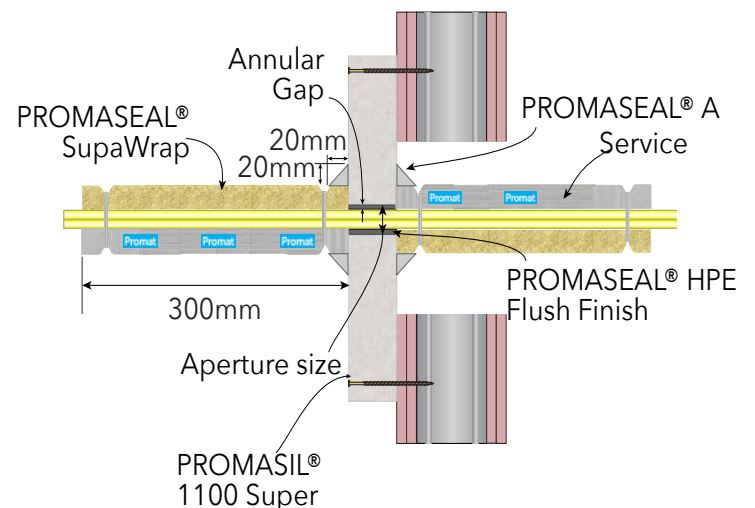
Cable Cone Installation - Section



Cable + Wrap Installation - Section



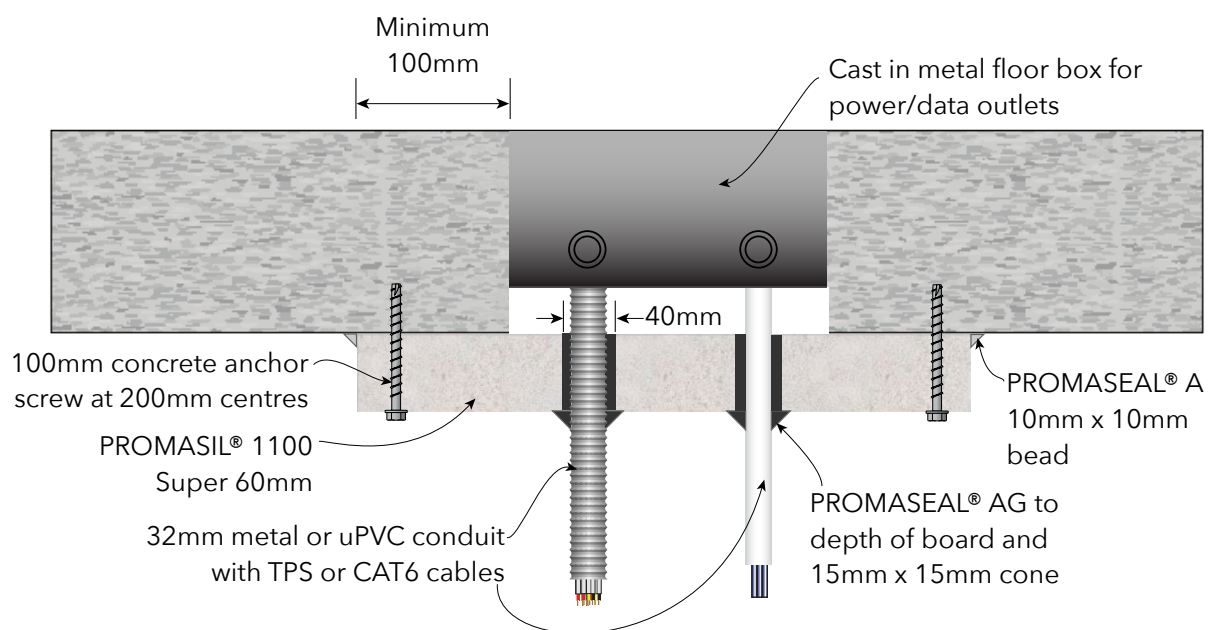
Conduit + Cone Installation - Section



Pipe Bundle + Wrap Installation - Section

Install OS1: Cast in Electrical Floor Box

FRL -/120/120. FSRG A-23-046A

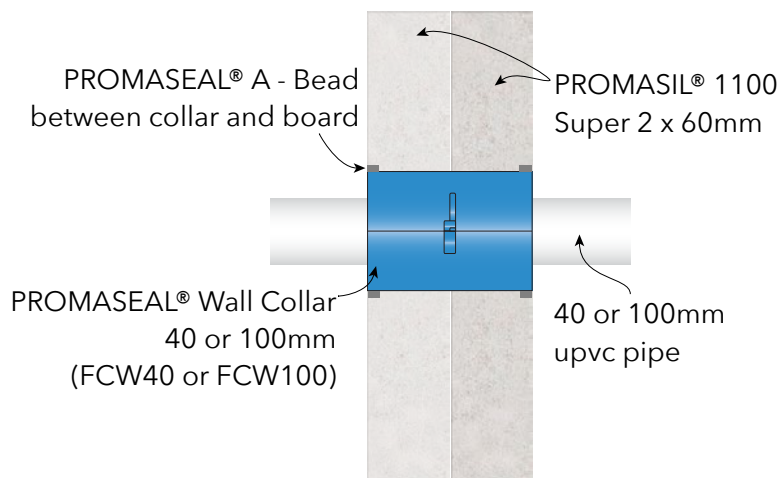


1. Cut 40mm diameter hole in PROMASIL® 1100 Super board for each conduit.
2. Install board to opening with 100mm overlap all around and fix with 100mm concrete anchor at 200mm centres
3. Install PROMASEAL® AG to depth of board and a 15 x 15mm cone to the underside of board only.
4. Install PROMASEAL® A 10 x 10mm bead around perimeter of board.

Install OW1: PROMASEAL® Wall Collars

FRL -/180/180 - 40mm uPVC. FSRG A-23-073

FRL -/120/90 - 100mm uPVC. FSRG A-22-014



1. Cut hole in PROMASIL® 1100 Super board to suit collar size + 15mm.
2. Install PROMASEAL® Wall Collars around the pipe and locate at centrally where the board barrier will be installed
3. Install the PROMASIL® board into opening and seal any joints between the board pieces with PROMASEAL® A using a zig zag bead.
4. Seal gap between the collar and the board with a bead of PROMASEAL® A (5 to 10mm deep).

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