

## PROMASEAL® Bulkhead Batts

PROMASEAL® Bulkhead Batts are made using high density mineral wool that is protected with a robust ablative coating to both faces.

PROMASEAL® Bulkhead Batts are a simple and economic way to fire rate voids and when combined with Promat's many other firestopping systems can protect a wide range of penetration types and sizes.

This manual sets out the approved substrates in both vertical and horizontal configurations along with the approved services through those substrates.

### Properties

- Approved to AS1530.4: 2014 and AS4072.1:2005
- Manufactured to ISO2001:2008
- Batt size: 1200 x 600 x 50mm
- Coating Colour: White
- Acoustics: Rw (Ctr): 29 (-3)
- FRL: up to -/240/180

### Benefits

- Economical
- Easy Install
- Up to 3 hours fire resistance
- Floor and wall penetrations
- Approved for multiple substrate types
- Approved for multiple service types



[PROMASEAL®  
Firestopping Selector](#)



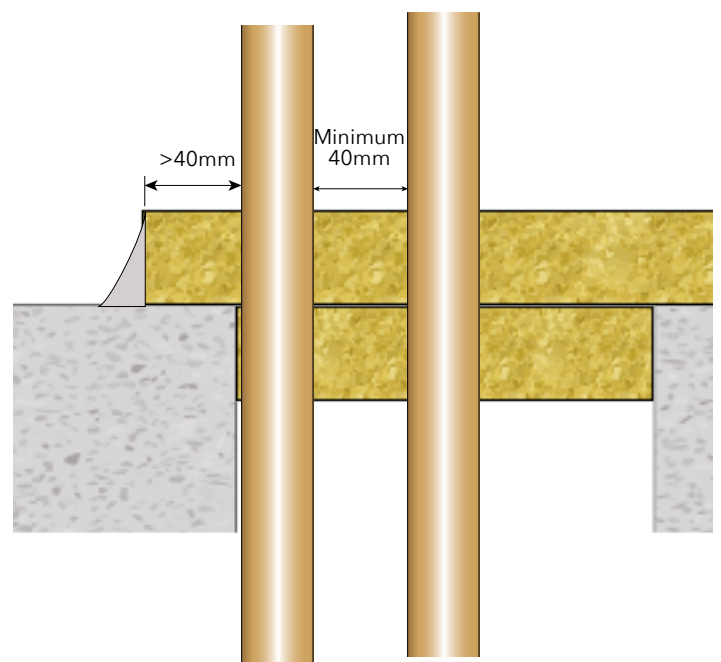
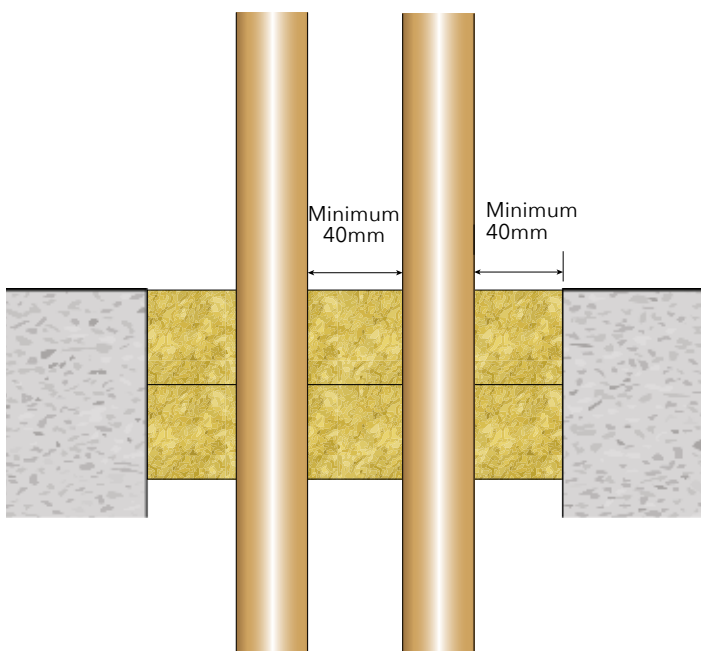
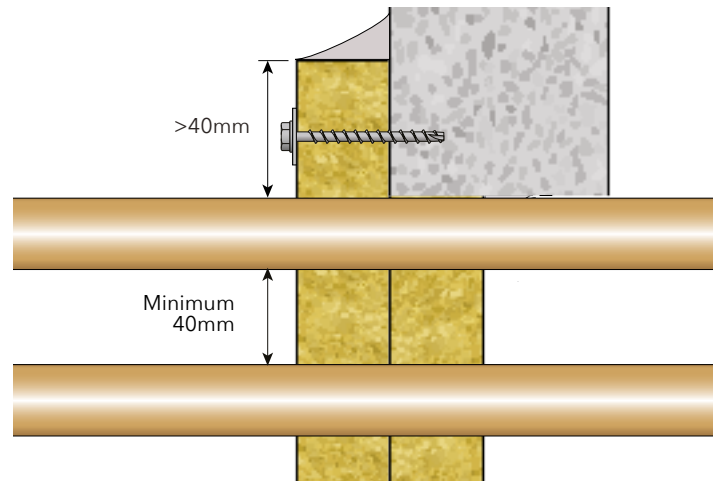
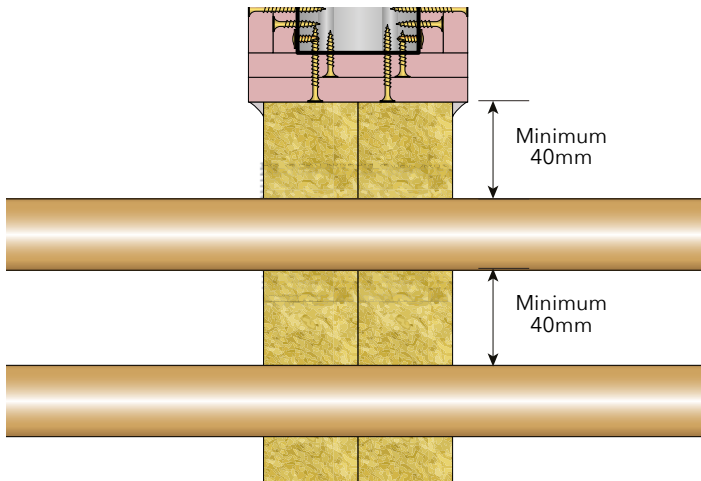
[PROMASEAL® Bulkhead  
Product Information](#)



## Service Separation Details

- Service to Service - Minimum 40mm
  - Service to edge of aperture - Minimum 40mm\*
- \* If the batt is installed where it overlaps onto the substrate by greater than 40mm. Then the service can be hard against the edge of the opening in the substrate.

Note: The thickness of the protection method for a service will generally exceed 40mm, so in that case greater separation will be required



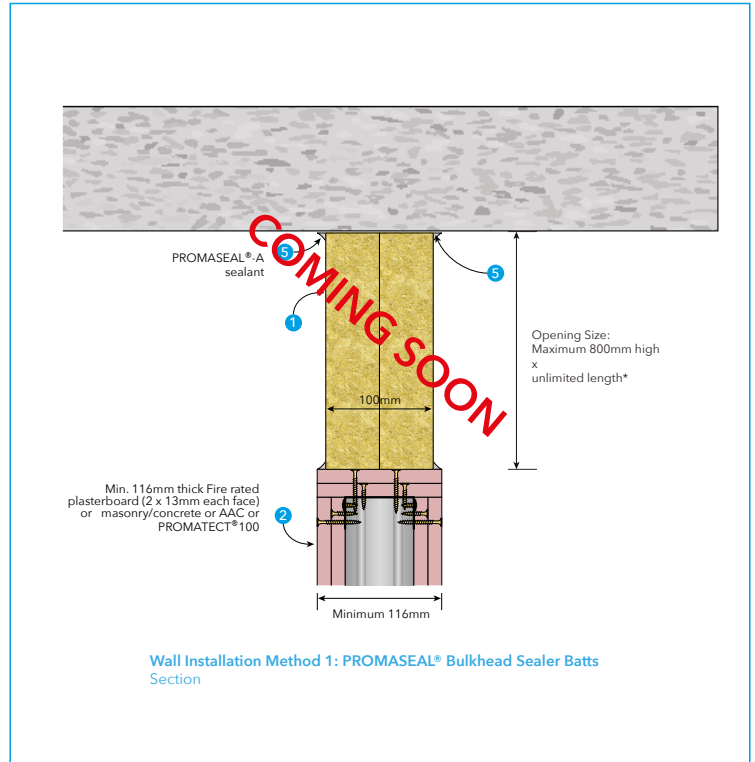
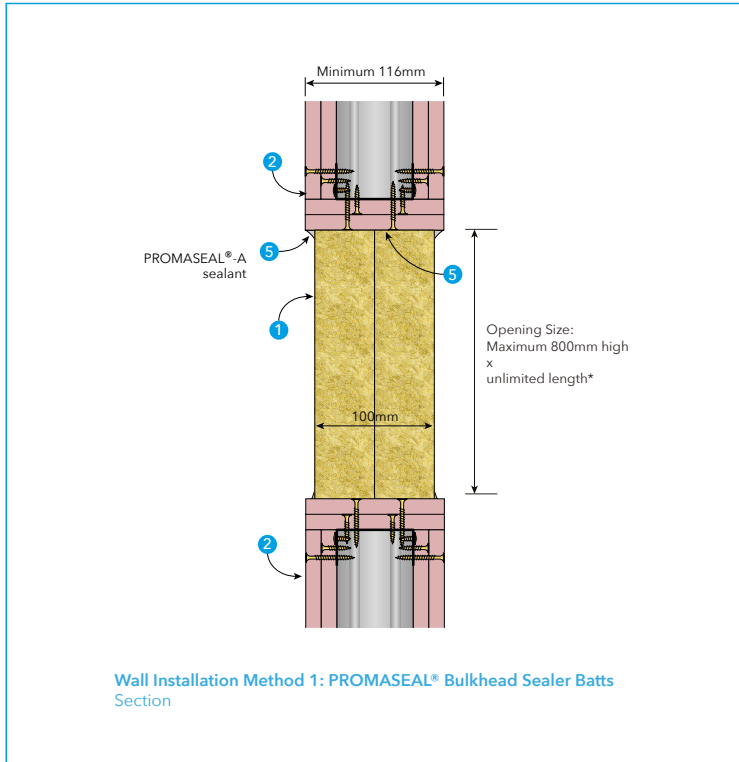
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## PROMASEAL® Bulkhead Batt Installation

### Method 1 (W1-0)



#### Maximum Opening Size:

- 800mm high x unlimited length

#### Applicable Substrates:

- Fire Resistant Plasterboard (2 x 13mm each face on minimum 64mm stud)
- Masonry (as per AS3700 for -/120/120)
- Concrete (as per AS3600 for -/120/120)
- AAC Panel (minimum 116mm)
- PROMATECT® 100 Wall (1 x 20mm each face on minimum 64mm stud)

1. PROMASEAL®-Bulkhead Batts
2. Applicable Substrate
5. PROMASEAL® A

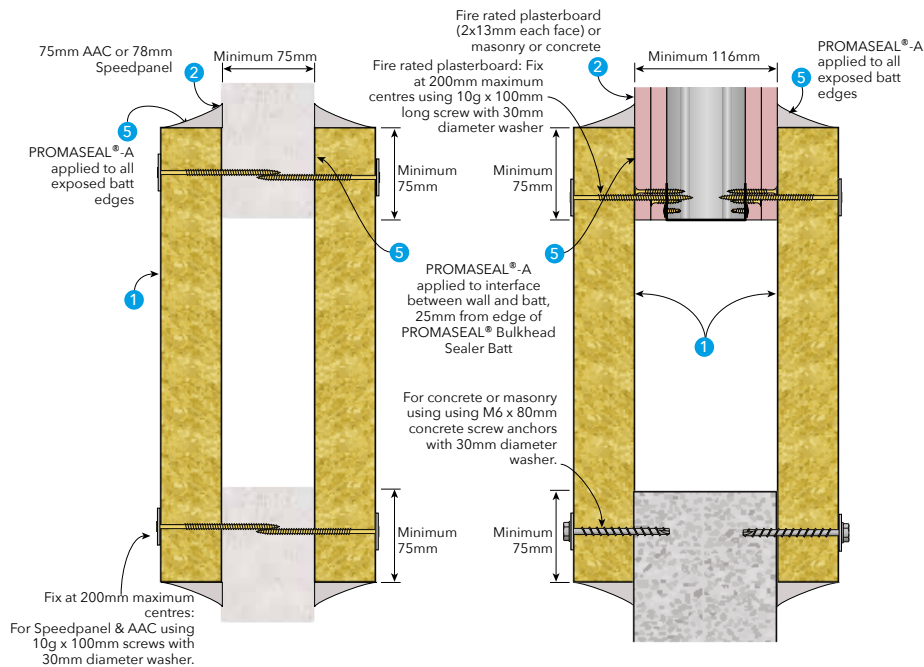
#### Installation Method:

1. For plasterboard or PROMATECT® 100: Openings should be framed with studwork and lined using the same board type, thickness, and number of layers as the adjacent wall surfaces
2. Cut Batt to suit opening size. If using multiple pieces, ensure joints are offset between layers
3. Friction fit batt into opening
4. Seal perimeter on both faces with PROMASEAL® A



## PROMASEAL® Bulkhead Batt Installation

### Method 2 (W1-0)



Wall Installation Method 2: PROMASEAL® Bulkhead Sealer Batts  
Section

### Maximum Opening Size:

- 550mm high x 450mm wide

1. PROMASEAL®-Bulkhead Batts
2. Applicable Substrate
5. PROMASEAL® A

### Applicable Substrates:

- Fire Resistant Plasterboard (2 x 13mm each face on minimum 64mm stud)
- Masonry (as per AS3700 for -/120/120)
- Concrete (as per AS3600 for -/120/120)
- AAC Panel (minimum 75mm)
- Speedpanel (minimum 78mm)

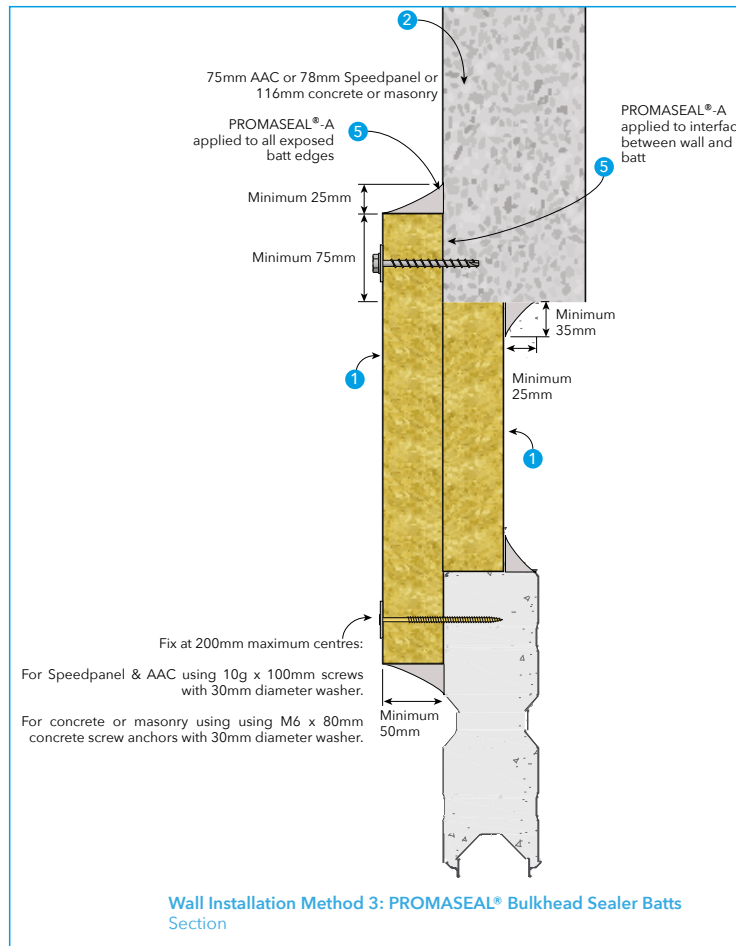
### Installation Method:

1. For plasterboard: Openings should be framed with studwork
2. Cut Batt to suit opening size + 75mm overlap on all sides.
3. Apply PROMASEAL® A zigzag bead to substrate where the batt will attach
4. Fix batt to substrate at 200mm centres. Fixings are:
  - a. Plasterboard: 8g x 100mm screw with 30mm washer
  - b. Masonry / Concrete: M6 x 80mm concrete screw with 30mm washer
  - c. Speedpanel: 10g x 100mm screw with 30mm washer
5. Seal perimeter and exposed edges of the batt on both faces with PROMASEAL® A



## PROMASEAL® Bulkhead Batt Installation

### Method 3 (W1-0)



1. PROMASEAL®-Bulkhead Batts
2. Applicable Substrate
4. Promat Pigtail Screw
5. PROMASEAL® A

#### Maximum Opening Size:

- 1000mm high x 700mm wide

#### Applicable Substrates:

- Masonry (as per AS3700 for -/120/120)
- Concrete (as per AS3600 for -/120/120)
- AAC Panel (minimum 75mm)
- Speedpanel (minimum 78mm)

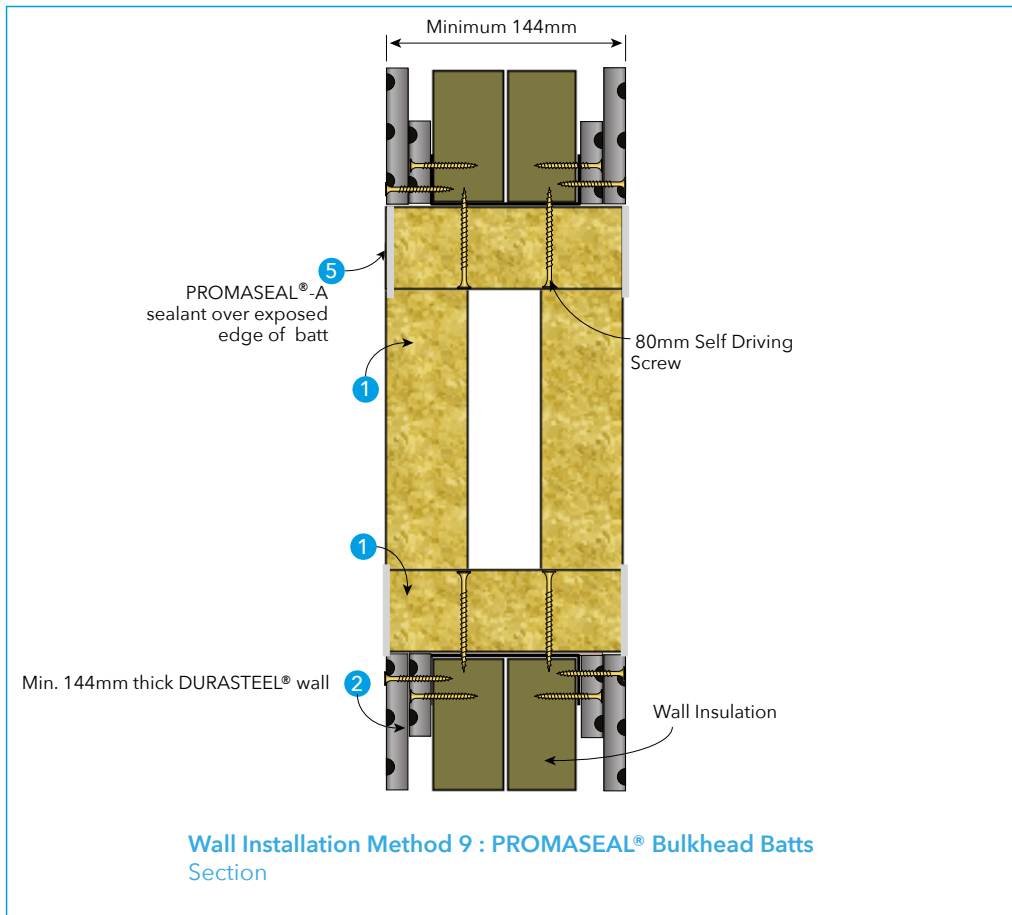
#### Installation Method:

1. Cut first layer of batt to suit opening size and friction fit into opening.
2. Cut second layer of batt to suit opening size + 75mm overlap on all sides
3. Apply PROMASEAL® A zigzag bead to substrate where the batt will attach
4. Fix second layer of batt to substrate at 200mm centres.
  - a. Masonry / Concrete: M6 x 80mm concrete screw with 30mm washer
  - b. Speedpanel: 10g x 100mm screw with 30mm washer
  - c. AAC: 75mm Type 17 bugle batten screws with 30mm washer
5. Seal perimeter and exposed edges of the batt on both faces with PROMASEAL® A



## PROMASEAL® Bulkhead Batt Installation

### Method x (W1-0)



### Maximum Opening Size:

- 600mm high x 600mm wide

### Applicable Substrates:

- DURASTEEL® (minimum 144mm)

1. PROMASEAL®-Bulkhead Batts
2. Applicable Substrate
5. PROMASEAL® A

### Installation Method:

1. Frame opening with steel channel as used for rest of wall framing.
2. Cut 144mm wide strips of batt and fix to channel with 80mm long self drilling screw.
3. Cut batt to suit remaining opening and friction fit so both faces are flush with the face of the wall
4. Apply PROMASEAL® A to exposed side of batt strips ensuring that perimeter gaps between strip and wall and strip and batt are covered.



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W1-1		Brass Pipe 32-100mm	PROMASEAL® SupaWrap 600mm each face	4 each face (steel)	25 x 25mm	-/120/120
W1-2		Brass Pipe 32-100mm	PROMASEAL® A	N/A	25 x 25mm	-/120/-
W1-3		Copper or Steel Pipe 32-150mm	PROMASEAL® SupaWrap 600mm each face	4 each face (steel)	25 x 25mm	-/120/120
W1-4		Copper or Steel Pipe 32-150mm	PROMASEAL® A	N/A	25 x 25mm	-/120/-
W1-5		Copper Pipe with Nitrile Lagging (25mm thick) 19mm	PROMASEAL® FlexiWrap 250mm long (Extend 75mm each face)	1 each face (plastic)	50 x 50mm	-/120/120
W1-6		Copper Pipe with Nitrile Lagging (25mm thick) 50mm	PROMASEAL® FlexiWrap 250mm long (Extend 75mm each face)	1 each face (plastic)	50 x 50mm	-/120/90
W1-7		Copper Pipe with Nitrile Lagging (25mm thick) 100mm	PROMASEAL® FlexiWrap 250mm long (Extend 75mm each face)	1 each face (plastic)	50 x 50mm	-/120/60



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W1-8	 Service W1-8	Copper Pipe Trefoil 19mm up to 3 pipes Nitrile Lagging 25mm thick	PROMASEAL® FlexiWrap 250mm long (Extend 75mm each face)	1 each face (plastic)	50 x 50mm	-/120/120
W1-9	 Service W1-9	uPVC Pipe 40-150mm	PROMASEAL® FC 40-150mm or PROMASEAL® FCW 40-100mm only	N/A	10 x 10mm (FCW only)	-/120/120
W1-10	 Service W1-10	HDPE Pipe 40-100mm	PROMASEAL® FC	N/A	N/A	-/120/120
W1-11	 Service W1-11	HDPE Pipe 40-150mm	PROMASEAL® FCW	N/A	10 x 10mm	40-100mm -/120/120 (>100mm -/120/90)
W1-12	 Service W1-12	PEX Pipe 20mm	PROMASEAL® CFC and PROMASEAL® Graf4T	N/A	N/A	-/120/120
W1-13	 Service W1-13	Steel/Stainless Steel Pipe up to 150mm	PROMASEAL® SupaWrap 900mm each face + PROMA- SEAL® FlexiWrap (Extend 50mm each face)	1 each face (plastic) & 4 each face (steel)	10 x 10mm	-/120/120
W1-14	 Service W1-14	Steel/Stainless Steel Pipe up to 150mm	PROMASEAL® FlexiWrap 200mm long (Extend 50mm each face)	1 each face (plastic)	10 x 10mm	-/120/-

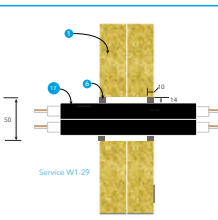
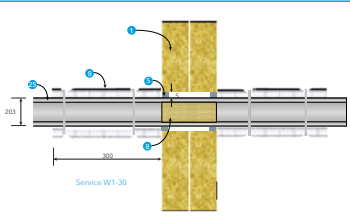
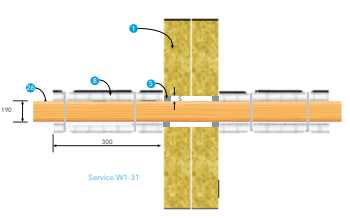
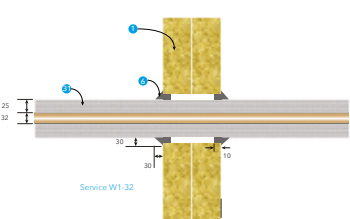
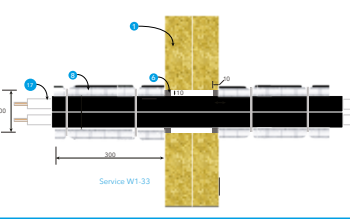
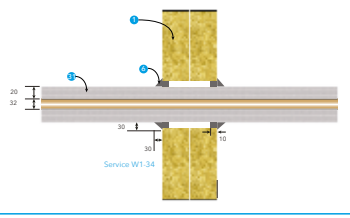
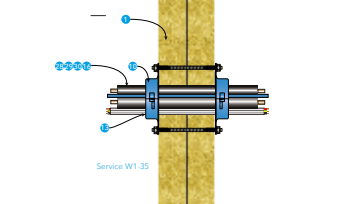


System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W1-15	 Service W1-15	Copper Pipe up to 50mm	Nitrile rubber lagging 25mm thick. 400mm each face	N/A	10 x 10mm	-/120/120
W1-16	 Service W1-16	Fibre optic cables up to 60mm bundle	PROMASEAL® A	N/A	50 x 50mm	-/120/120
W1-17	 Service W1-17 & W1-18	Power Cables (D1) with or without tray	PROMASEAL® SupaWrap . 300mm each face	2 each face (steel)	40 x 40mm	-/120/120
W1-18	 Service W1-17 & W1-18	Comms Cables (D2) with or without tray	PROMASEAL® SupaWrap . 300mm each face	2 each face (steel)	40 x 40mm	-/120/120
W1-19	 Service W1-19 & W1-19	Cable Trunking 80 x 50mm (20% fill)	PROMASEAL® SupaWrap . 600mm each face	4 each face (steel)	25 x 25mm	-/120/120
W1-20	 Service W1-20	TPS Cables Bundle up to 60mm diameter or Single Cables	PROMASEAL®-A	N/A	100 x 50mm	-/120/120
W1-21	 Service W1-21	PEX Pipe up to 20mm	PROMASEAL® AG	N/A	20 x 20mm (Flush)	-/120/120



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W1-22		TPS Cables and Support wire. up to 2 cables and 1 wire	PROMASEAL® A	N/A	20 x 20mm	-/120/120
W1-23		Copper or Steel Pipe up to 80mm	PROMASEAL® SupaWrap Continuous through batt + 600mm each face	4 each face (steel)	25 x 25mm	-/120/90
W1-24		PEX/AL/PEX Pipe up to 16mm	PROMASEAL® AG	N/A	20 x 27mm (Flush)	-/120/90
W1-25		uPVC Conduit up to 25mm with up to 4 x CAT6 cables	PROMASEAL® AG	N/A	20 x 22.5mm (Flush)	-/120/120
W1-26		uPVC Conduit up to 32mm with up to 6 x CAT6 cables	PROMASEAL® AG	N/A	20 x 19mm (Flush)	-/120/120
W1-27		uPVC Conduit up to 25mm with up to 2 x TPS cables	PROMASEAL®-AG	N/A	20 x 22.5mm (Flush)	-/120/120
W1-28		uPVC Conduit up to 32mm with up to 4 x TPS cables	PROMASEAL® AG	N/A	20 x 19mm (Flush)	-/120/120



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W1-29		RG6 Cables (Co-ax) Up to 7	PROMASEAL® AG	N/A	10 x 14mm (Flush)	-/120/120
W1-30		Steel C-Purlin 203 x 76 x 2.4mm (C20024)	PROMASEAL® SupaWrap 300mm each face and PROMASEAL® Batt in cavity)	2 each face (steel)	5 x 5mm	-/180/180
W1-31		Timber Joist (MGP10) 190 x 45mm	PROMASEAL® SupaWrap 300mm each face	2 each face (steel)	5 x 5mm	-/180/180
W1-32		Copper Pipe 32mm with Eclad 4-zero thermal wrap. 32mm thick	PROMASEAL® AG	N/A	30 x 30mm	-/120/60
W1-33		Heliax Co-ax Cable 7/8" up to 7	PROMASEAL® SupaWrap 300mm each face + PROMASEAL® AG	2 each face (steel)	10 x 10mm (Flush)	-/120/120
W1-34		Copper Pipe 32mm with Sekisui foam pipe insulation. 30mm thick.	PROMASEAL®- AG	N/A	30 x 30mm	-/120/-
W1-35		Aircon Bundle (Paircoil,flex drain, CAT6, & TPS). up to 100mm overall diameter	PROMASEAL® FC100 and PROMASEAL® GRAF4T	N/A	N/A	-/120/120

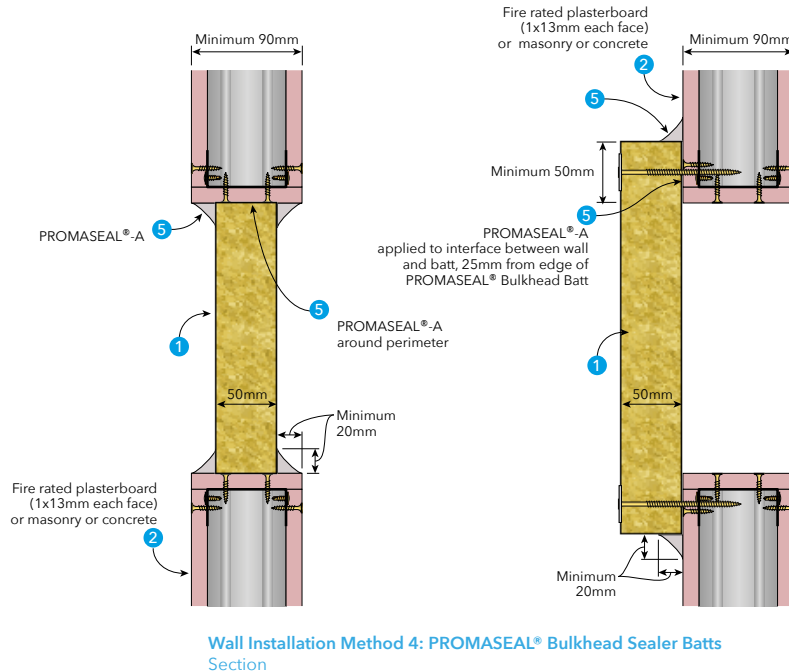


System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W1-36	<p>Service W1-36</p>	TPS Cables up to 70mm diameter bundle	PROMASEAL® FC100	N/A	N/A)	-/120/120
W1-37	<p>Service W1-37</p>	CAT6/Data Cables up to 20	PROMASEAL® A	N/A	30 x 30mm	-/120/60



## PROMASEAL® Bulkhead Batt Installation

### Method 4 (W2-0)



### Maximum Opening Size:

- 600mm high x 1200mm wide

1. PROMASEAL®-Bulkhead Batts
2. Applicable Substrate
5. PROMASEAL® A

### Applicable Substrates:

- Fire Resistant Plasterboard (1 x 13mm each face on minimum 64mm stud)
- Masonry (as per AS3700 for -/60/60)
- Concrete (as per AS3600 for -/60/60)

### Installation Method:

1. For plasterboard: Openings should be framed with studwork and lined using the same board type, thickness, and number of layers as the adjacent wall surfaces
2. Cut Batt to suit opening size
3. Friction fit batt into opening
4. Seal perimeter with 20 x 20mm cone of PROMASEAL® A
5. **For face fix:** cut batt with 50mm overlap to all sides of the opening
6. Apply PROMASEAL® A zigzag bead to substrate where the batt will attach
7. Fix batt to substrate at 200mm centres.
  - a. Masonry / Concrete: M6 x 80mm concrete screw with 30mm washer
  - b. Plasterboard: 8g x 100mm screw with 30mm washer

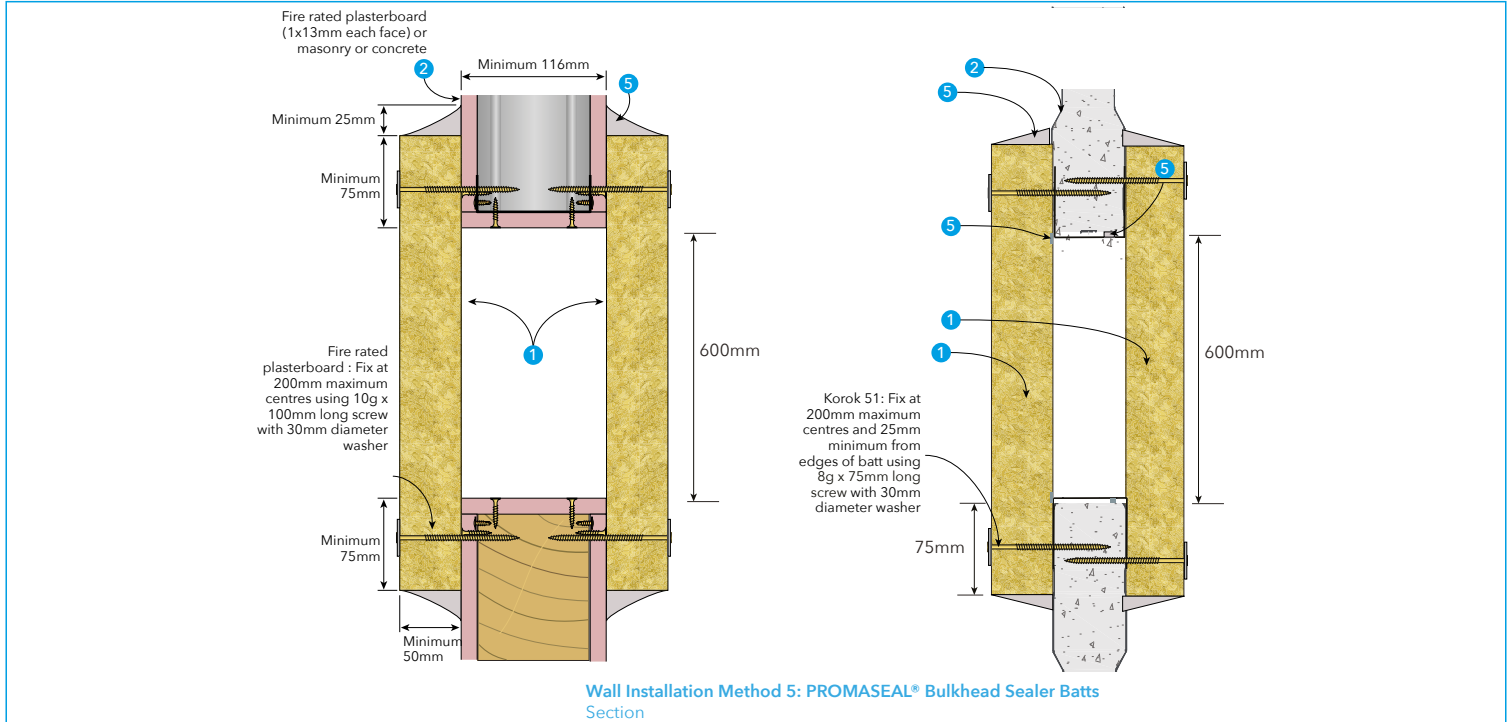


System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W2-1	<p>Service W2.1</p>	uPVC Pipe 50-100mm	PROMASEAL® FC	N/A	20 x 20mm (Over nut & bolt heads)	-/60/60
W2-2	<p>Service W2.2</p>	TPS Cables up to 4 (25mm diameter bundle)	PROMASEAL® A	N/A	50 x 50mm	-/60/60
W2-3	<p>Service W2.3</p>	Copper or Steel Pipe up to 50mm	PROMASEAL® SupaWrap 400mm each face	3 each face (steel)	25 x 25mm	-/60/60



## PROMASEAL® Bulkhead Batt Installation

### Method 5 (W3-0)



#### Maximum Opening Size:

- 1000mm high x 600mm wide

1. PROMASEAL®-Bulkhead Batts
2. Applicable Substrate
5. PROMASEAL® A

#### Applicable Substrates:

- Fire Resistant Plasterboard (1 x 13mm each face on minimum 90mm timber or steel stud)
- Korok Panel (51mm)

#### Installation Method:

1. For plasterboard: Openings should be framed with studwork and lined using the same board type, thickness, and number of layers as the adjacent wall surfaces
2. Cut batt with 75mm overlap to all sides of the opening
3. Apply PROMASEAL® A zigzag bead to substrate where the batt will attach
4. Fix batt to substrate at 200mm centres.
  - a. Korok: 8g x 75mm concrete screw with 30mm washer
  - b. Plasterboard: 10g x 100mm screw with 30mm washer
5. Apply PROMASEAL® A to cover cut edges of batt around perimeter



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W3-1		Brass Pipe 32-100mm	PROMASEAL® SupaWrap 400mm each face	3 each face (steel)	25 x 25mm	-/60/60
W3-2		Brass Pipe 32-100mm	PROMASEAL® A	N/A	25 x 25mm	-/60/-
W3-3		Copper or Steel Pipe 32-150mm	PROMASEAL® SupaWrap 400mm each face	3 each face (steel)	25 x 25mm	-/60/60
W3-4		Copper or Steel Pipe 32-150mm	PROMASEAL® A	N/A	25 x 25mm	-/60/-
W3-5		Copper Pipe 19mm with Nitrile Lagging (25mm thick)	PROMASEAL® FlexiWrap 266mm long (Extend 75mm each face)	1 each face + 1 in cavity (plastic)	50 x 50mm	-/60/60
W3-6		Copper Pipe 50mm with Nitrile Lagging (25mm thick)	PROMASEAL® FlexiWrap 266mm long (Extend 75mm each face)	1 each face + 1 in cavity (plastic)	50 x 50mm	-/60/60
W3-7		Copper Pipe 100mm with Nitrile Lagging (25mm thick)	PROMASEAL® FlexiWrap 250mm long (Extend 75mm each face)	1 each face + 1 in cavity (plastic)	50 x 50mm	-/60/60



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W3-8	 Service W3-8	Copper Pipe Trefoil (Up to 3 pipes) 19mm with Nitrile Lagging 25mm thick	PROMASEAL® FlexiWrap 266mm long (Extend 75mm each face)	1 each face + 1 in cavity (plastic)	50 x 50mm	-/60/60
W3-9	 Service W3-9	uPVC Pipe 40-100mm	PROMASEAL® FC or PROMASEAL® FCW	N/A	10 x 10mm (FCW only)	-/60/60
W3-10	 Service W3-10	HDPE Pipe 40-100mm	PROMASEAL® FC	N/A	N/A	-/60/60
W3-11	 Service W3-11	HDPE Pipe 40-100mm	PROMASEAL® FCW	N/A	10 x 10mm	-/60/60
W3-12	 Service W3-12	PEX Pipe 20mm	PROMASEAL® CFC and PROMASEAL® Graf4T	N/A	N/A	-/60/60
W3-13	 Service W3-13	Steel/Stainless Steel Pipe up to 150mm	PROMASEAL® SupaWrap 400mm each face and PROMASEAL® FlexiWrap (Extd 50mm each face)	1 each face (plastic) & 2 each face (steel)	10 x 10mm	-/60/60
W3-14	 Service W3-14	Steel/Stainless Steel Pipe up to 150mm	PROMASEAL® FlexiWrap 216mm long (Extend 50mm each face)	1 each face (plastic)	10 x 10mm	-/60/-

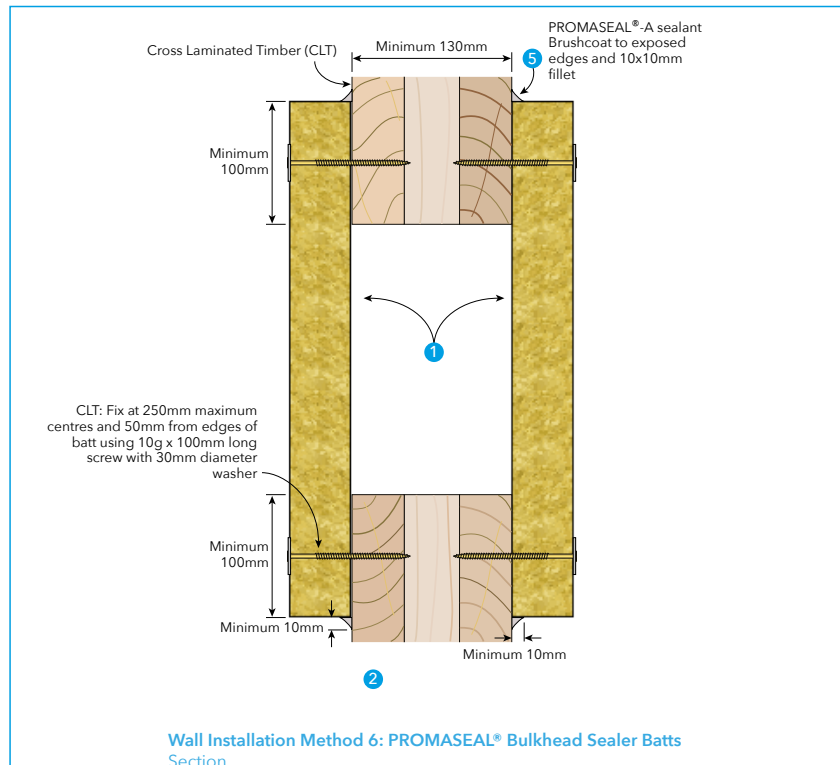


System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W3-15	 Service W3-15	Copper Pipe up to 50mm	25 Nitrile rubber lagging 400mm each face	N/A	10 x 10mm	-/60/60
W3-16	 Service W3-16	Fibre optic cables up to 60mm bundle	PROMASEAL®-A	N/A	50 x 50mm	-/60/60
W3-17	 Service W3-17 & W3-18	Power Cables (D1) with or without tray	PROMASEAL® SupaWrap . 300mm each face	2 each face (steel)	40 x 40mm	-/60/60
W3-18	 Service W3-17 & W3-18	Comms Cables (D2) with or without tray	PROMASEAL® SupaWrap . 300mm each face	2 each face (steel)	40 x 40mm	-/60/60
W3-19	 Service W3-19	Cable Trunking 80 x 50mm (20% fill)	PROMASEAL® SupaWrap . 600mm each face	4 each face (steel)	25 x 25mm	-/60/60
W3-20	 Service W3-20	TPS Cables Bundle up to 60mm diameter or Single cables	PROMASEAL®-A	N/A	100 x 50mm	-/60/60



## PROMASEAL® Bulkhead Batt Installation

### Method 6 (W5-0)



#### Maximum Opening Size:

- 800mm high x 400mm wide

1. PROMASEAL®-Bulkhead Batts
2. Applicable Substrate
5. PROMASEAL® A

#### Applicable Substrates:

- Xlam CLT wall pane (Minimum 130mm)

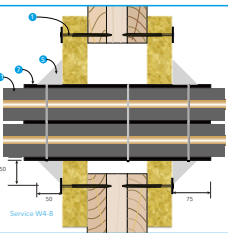
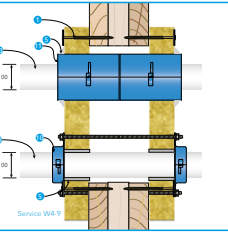
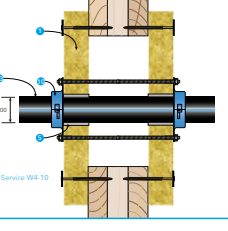
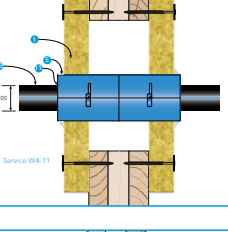
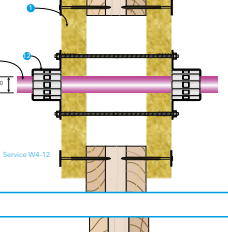
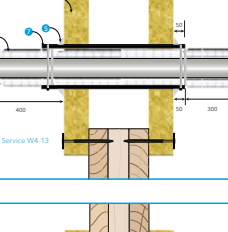
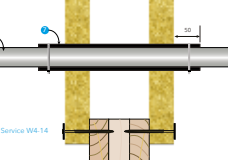
#### Installation Method:

1. Cut batt to suit opening + 100mm overlap on all sides.
2. Fix batt to CLT panel at 250mm centres with 10g x 100mm wood screws with 30mm washer.
3. Brush coat exposed edges with PROMASEAL® A
4. Apply 10mm x 10mm bead of PROMASEAL® A to perimeter.

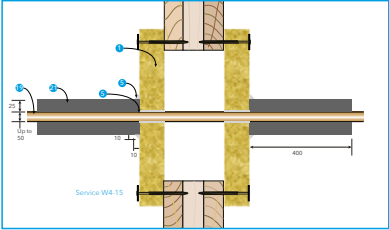
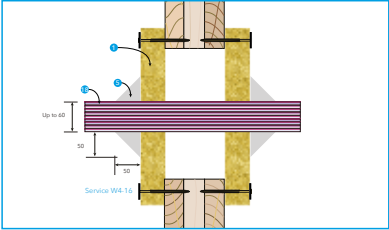
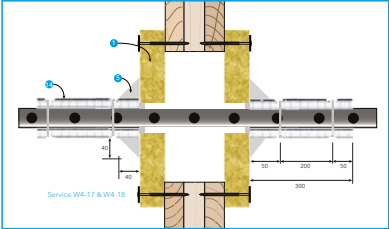
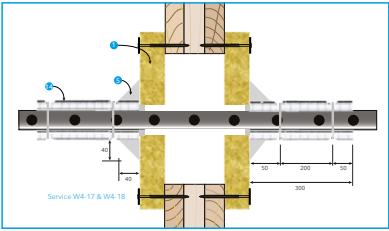
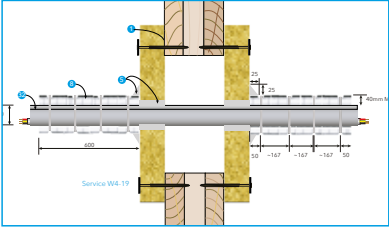
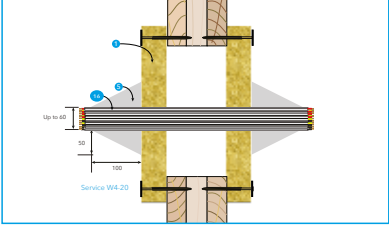
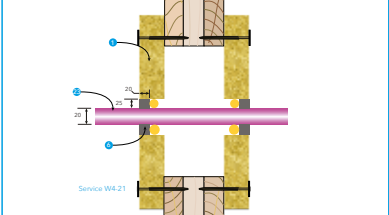


System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W4-1		Brass Pipe 32-100mm	PROMASEAL® SupaWrap 400mm each face	3 each face (steel)	25 x 25mm	-/90/90
W4-2		Brass Pipe 32-100mm	PROMASEAL® A	N/A	25 x 25mm	-/90/-
W4-3		Copper or Steel Pipe 32-150mm	PROMASEAL® SupaWrap 400mm each face	3 each face (steel)	25 x 25mm	-/90/90
W4-4		Copper or Steel Pipe 32-150mm	PROMASEAL® A	N/A	25 x 25mm	-/90/-
W4-5		Copper Pipe 19mm with Nitrile Lagging (25mm thick)	PROMASEAL® FlexiWrap 290mm long (Extend 75mm each face)	1 each face + 1 in cavity (plastic)	50 x 50mm	-/90/90
W4-6		Copper Pipe 50mm with Nitrile Lagging (25mm thick)	PROMASEAL® FlexiWrap 290mm long (Extend 75mm each face)	1 each face and 1 in cavity (plastic)	50 x 50mm	-/90/90
W4-7		Copper Pipe 100mm with Nitrile Lagging (25mm thick)	PROMASEAL® FlexiWrap 290mm long (Extend 75mm each face)	1 each face and 1 in cavity (plastic)	50 x 50mm	-/90/60



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W4-8		Copper Pipe Trefoil (Up to 3 pipes) 19mm with Nitrile Lagging 25mm thick	PROMASEAL® FlexiWrap 290mm long (Extend 75mm each face)	1 each face + 1 in cavity (plastic)	50 x 50mm	-/90/90
W4-9		uPVC Pipe 40-100mm	PROMASEAL® FC or PROMASEAL® FCW	N/A	10 x 10mm (FCW only)	-/90/90
W4-10		HDPE Pipe 40-100mm	PROMASEAL® FC	N/A	N/A	-/90/90
W4-11		HDPE Pipe 40-100mm	PROMASEAL® FCW	N/A	10 x 10mm	-/90/90
W4-12		PEX Pipe 20mm	PROMASEAL® CFC + PROMASEAL® Graf4T	N/A	N/A	-/90/90
W4-13		Steel/Stainless Steel Pipe up to 150mm	PROMASEAL® SupaWrap 400mm each face + PROMA- SEAL® FlexiWrap (Extd 50mm each face)	1 each face (plastic) & 4 each face (steel)	10 x 10mm	-/90/90
W4-14		Steel/Stainless Steel Pipe up to 150mm	PROMASEAL® FlexiWrap 230mm long (Extend 50mm each face)	1 each face (plastic)	10 x 10mm	-/90/-



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W4-15		Copper Pipe up to 50mm	25 Nitrile rubber lagging 400mm each face	N/A	10 x 10mm	-/90/90
W4-16		Fibre optic cables up to 60mm bundle	PROMASEAL®-A	N/A	50 x 50mm	-/90/90
W4-17		Power Cables (D1) with or without tray	PROMASEAL® SupaWrap . 300mm each face	2 each face (steel)	40 x 40mm	-/90/90
W4-18		Comms Cables (D2) with or without tray	PROMASEAL® SupaWrap . 300mm each face	2 each face (steel)	40 x 40mm	-/90/90
W4-19		Cable Trunking 80 x 50mm (20% fill)	PROMASEAL® SupaWrap . 600mm each face	4 each face (steel)	25 x 25mm	-/90/90
W4-20		TPS Cable Bundle up to 60mm diameter or Single cables	PROMASEAL®-A	N/A	100 x 50mm	-/90/90
W4-21		PEX Pipe up to 20mm	PROMASEAL® AG	N/A	25 x 20mm (Flush)	-/90/90

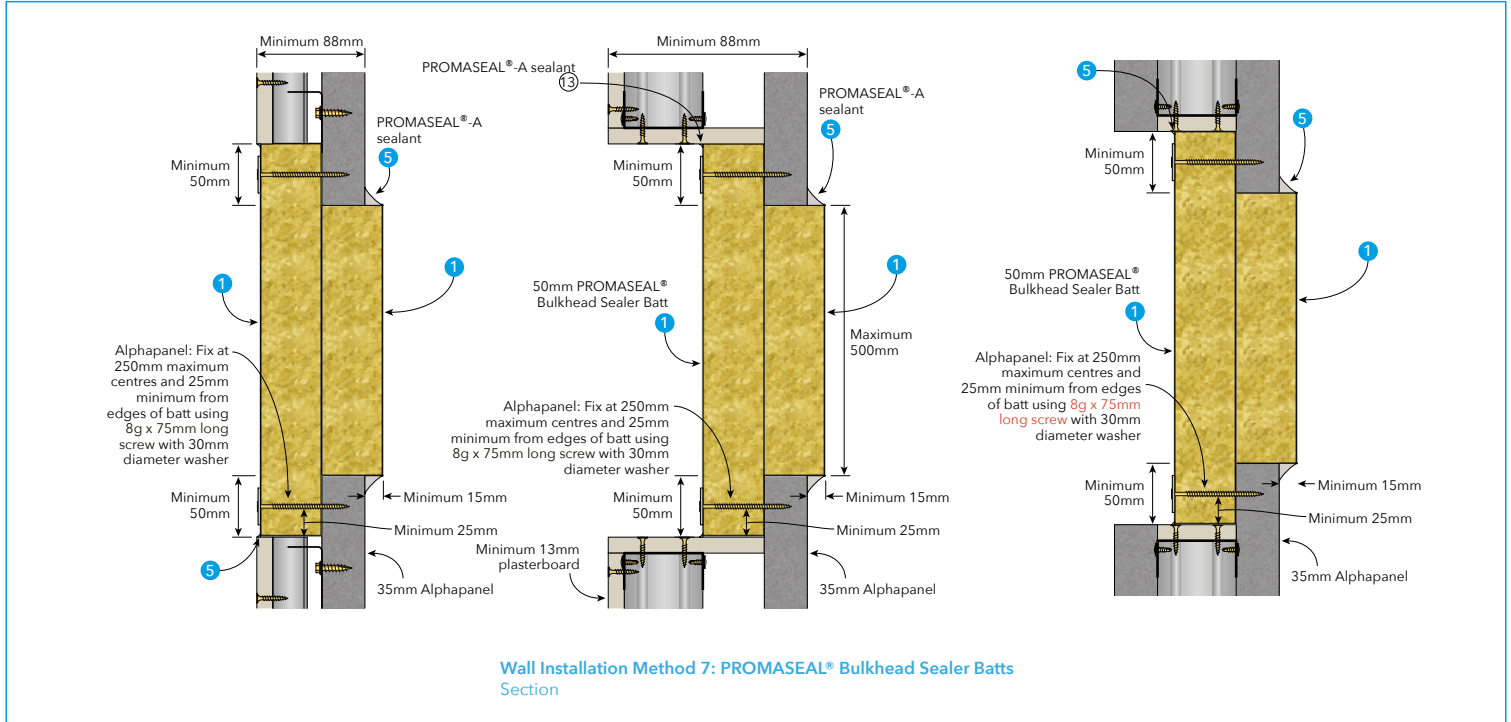


System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W4-22		TPS Cables and Support wire. Up to 2 cables and 1 wire	PROMASEAL® A	N/A	20 x 20mm	-/90/90
W4-23		Copper or Steel Pipe up to 80mm	PROMASEAL® SupaWrap Continuous through batt and 400mm each face	3 each face (steel)	25 x 25mm	-/90/90
W4-24		PEX/AL/PEX Pipe up to 16mm	PROMASEAL® AG	N/A	20 x 27mm (Flush)	-/90/90
W4-25		uPVC Conduit 25mm with up to 4 x CAT6 cables	PROMASEAL® AG	N/A	20 x 22.5mm (Flush)	-/90/90
W4-26		uPVC Conduit 32mm with up to 6 x CAT6 cables	PROMASEAL® AG	N/A	20 x 19mm (Flush)	-/90/90
W4-27		uPVC Conduit 25mm with up to 2 x TPS cables.	PROMASEAL®-AG	N/A	20 x 22.5mm (Flush)	-/90/90
W4-28		uPVC Conduit 32mm with up to 4 x TPS cables	PROMASEAL® AG	N/A	20 x 19mm (Flush)	-/90/90



**PROMASEAL® Bulkhead Batt Installation**

**Method 7 (W5-0)**



**Maximum Opening Size:**

- 600mm high x 600mm wide

1. PROMASEAL®-Bulkhead Batts
2. Applicable Substrate
5. PROMASEAL® A

**Applicable Substrates:**

- XCEM AlphaPanel Wall (minimum 88mm)

**Installation Method:**

1. Refer to wall system manufacturer for specific install information



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W5-1		Brass Pipe 32-100mm	PROMASEAL® SupaWrap 600mm each face	4 each face (steel)	25 x 25mm	-/120/120
W5-2		Brass Pipe 32-100mm	PROMASEAL® A	N/A	25 x 25mm	-/120/-
W5-3		Copper or Steel Pipe 32-150mm	PROMASEAL® SupaWrap 600mm each face	4 each face (steel)	25 x 25mm	-/120/120
W5-4		Copper or Steel Pipe 32-150mm	PROMASEAL® A	N/A	25 x 25mm	-/120/-
W5-5		Copper Pipe 19mm with Nitrile Lagging 25mm thick	PROMASEAL® FlexiWrap 250mm long (Extend 75mm each face)	1 each face (plastic)	50 x 50mm	-/120/120
W5-6		Copper Pipe 50mm with Nitrile Lagging 25mm thick	PROMASEAL® FlexiWrap 250mm long (Extend 75mm each face)	1 each face (plastic)	50 x 50mm	-/120/90
W5-7		Copper Pipe 100mm with Nitrile Lagging 25mm thick	PROMASEAL® FlexiWrap 250mm long (Extend 75mm each face)	1 each face (plastic)	50 x 50mm	-/120/60

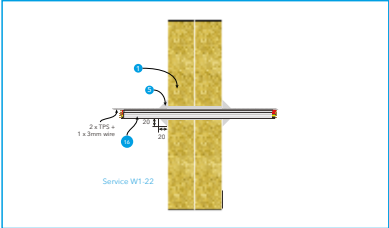
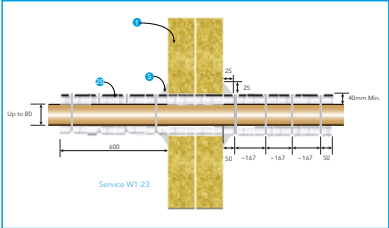
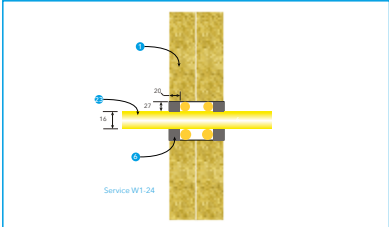
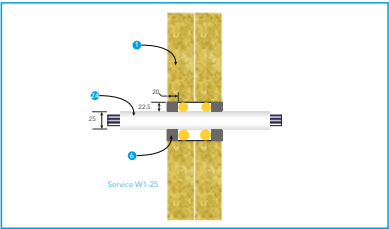
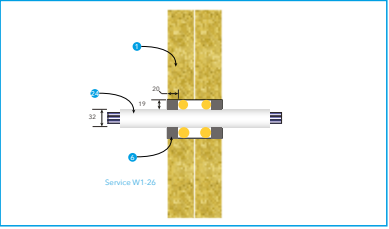
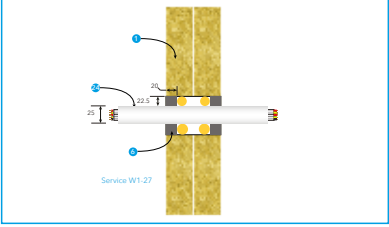
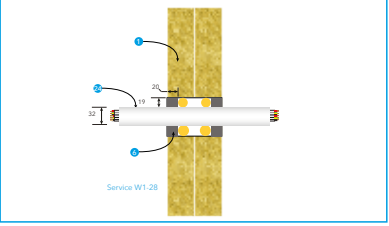


System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W5-8		Copper Pipe Trefoil (Up to 3 pipes) 19mm with Nitrile Lagging 25mm thick	PROMASEAL® FlexiWrap 250mm long (Extend 75mm each face)	1 each face (plastic)	50 x 50mm	-/120/120
W5-9		uPVC Pipe 40-150mm	PROMASEAL® FC (40-150) or PROMASEAL® FCW (40-100 only)	N/A	10 x 10mm (FCW only)	-/120/120
W5-10		HDPE Pipe 40-100mm	PROMASEAL® FC	N/A	N/A	-/180/180
W5-11		HDPE Pipe 40-100mm	PROMASEAL® FCW	N/A	10 x 10mm	-/120/120
W5-12		PEX Pipe 20mm	PROMASEAL® CFC + PROMASEAL® Graf4T	N/A	N/A	-/120/120
W5-13		Steel/Stainless Steel Pipe up to 150mm	PROMASEAL® SupaWrap 900mm each face + PROMA- SEAL® FlexiWrap (Extd 50mm each face)	1 each face (plastic) & 4 each face (steel)	10 x 10mm	-/120/120
W5-14		Steel/Stainless Steel Pipe up to 150mm	PROMASEAL® FlexiWrap 200mm long (Extend 50mm each face)	1 each face (plastic)	10 x 10mm	-/120/-



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W5-15	 Service W1-15	Copper Pipe up to 50mm	Nitrile rubber lagging (25mm thick) 400mm each face	N/A	10 x 10mm	-/120/120
W5-16	 Service W1-16	Fibre optic cables up to 60mm bundle	PROMASEAL®-A	N/A	50 x 50mm	-/120/120
W5-17	 Service W1-17 & W1-18	Power Cables (D1) with or without tray	PROMASEAL® SupaWrap . 300mm each face	2 each face (steel)	40 x 40mm	-/120/120
W5-18	 Service W1-17 & W1-18	Comms Cables (D2) with or without tray	PROMASEAL® SupaWrap . 300mm each face	2 each face (steel)	40 x 40mm	-/120/120
W5-19	 Service W1-19 & W5-19	Cable Trunking 80 x 50mm (20% fill)	PROMASEAL® SupaWrap . 600mm each face	4 each face (steel)	25 x 25mm	-/120/120
W5-20	 Service W1-20	TPS Cable bundle up to 60mm diameter or Single Cables	PROMASEAL®-A	N/A	100 x 50mm	-/120/120
W5-21	 Service W1-21	PEX Pipe up to 20mm	PROMASEAL® AG	N/A	20 x 20mm (Flush)	-/120/120

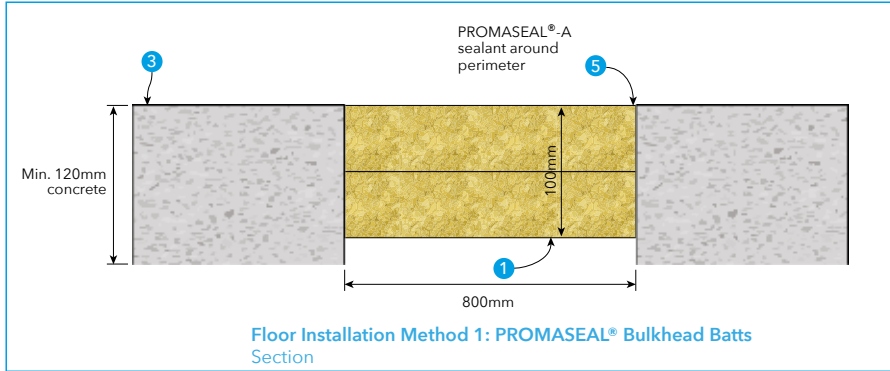


System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
W5-22		TPS Cables and support wire. up to 2 cables and 1 wire	PROMASEAL® A	N/A	20 x 20mm	-/120/120
W5-23		Copper or Steel Pipe up to 80mm	PROMASEAL® SupaWrap Continuous through batt + 600mm each face	4 each face (steel)	25 x 25mm	-/120/90
W5-24		PEX/AL/PEX Pipe up to 16mm	PROMASEAL® AG	N/A	20 x 27mm (Flush)	-/120/90
W5-25		uPVC Conduit 25mm with up to 4 x CAT6 cables	PROMASEAL® AG	N/A	20 x 22.5mm (Flush)	-/120/120
W5-26		uPVC Conduit 32mm with up to 6 x CAT6 cables	PROMASEAL® AG	N/A	20 x 19mm (Flush)	-/120/120
W5-27		uPVC Conduit 25mm with up to 2 x TPS cables.	PROMASEAL®-AG	N/A	20 x 22.5mm (Flush)	-/120/120
W5-28		uPVC Conduit 32mm with up to 4 x TPS cables	PROMASEAL® AG	N/A	20 x 19mm (Flush)	-/120/120



## PROMASEAL® Bulkhead Batt Installation

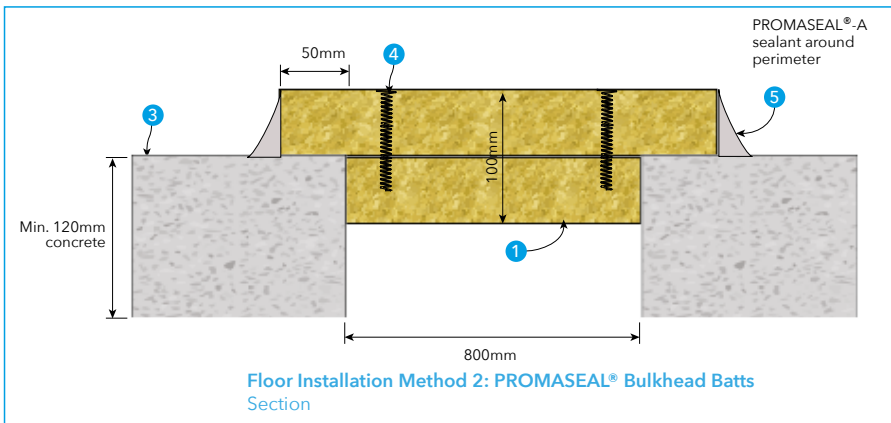
### Method 1 (S1-0)



#### Installation Method 1:

1. Cut batts to suit opening size.
2. Friction fit batts into opening flush to top side of slab.
3. Apply PROMASEAL® A bead to perimeter on top side.

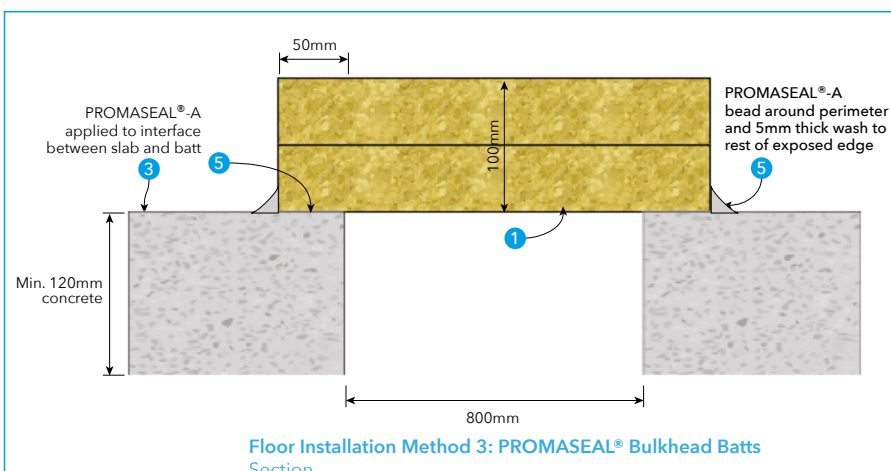
### Method 2 (S1-0)



#### Installation Method 2:

1. Cut first batt to suit opening size.
2. Friction fit first batts into opening flush with top side of the slab.
3. Cut second layer of batt with 50mm overlap of the opening size
4. Place Batt onto top face of slab and secure to first layer with Pig tail screws
5. Apply PROMASEAL® A to cut edge of batt

### Method 3 (S1-0)



#### Installation Method 3:

1. Cut batts to suit opening size + 50mm overlap to all sides .
2. Apply PROMASEAL® A zigzag bead to slab where batts will interface
3. Place batts over opening.
4. Apply PROMASEAL® A 5mm ck wash to exposed edges and 5mm bead to perimeter on top side.

#### Maximum Opening Size:

- 800mm wide x unlimited length

#### Applicable Substrates:

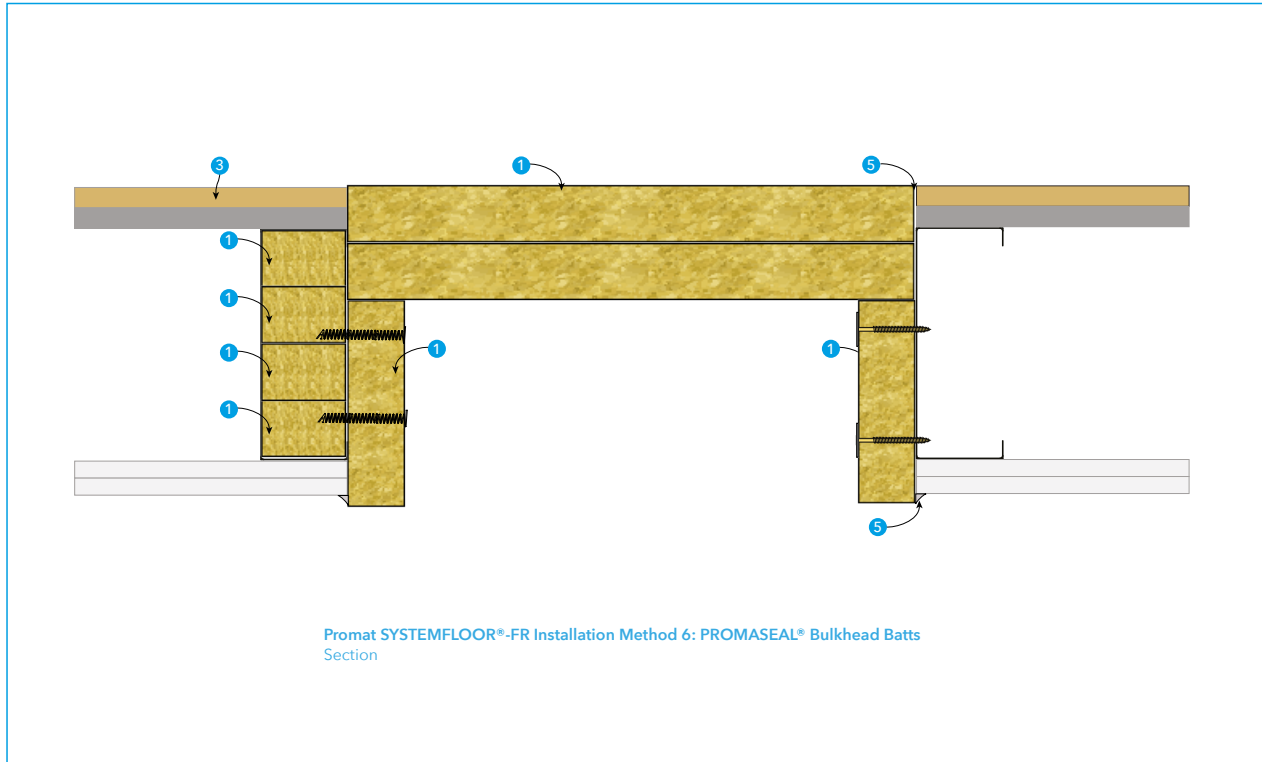
- Concrete slab. Minimum 120mm thick
- Concrete slab Minimum 150mm thick (S1-24 to S1-35 only)

1. PROMASEAL®-Bulkhead Batts
3. Applicable Substrate
4. Promat Pigtail Screws
5. PROMASEAL® A



## PROMASEAL® Bulkhead Batt Installation

### Method 6 (S1-0)



#### Maximum Opening Size:

- 525mm long x 800mm wide

#### Applicable Substrates:

- Promat SYSTEMFLOOR®-FR (266mm thick)

1. PROMASEAL®-Bulkhead Batts
3. Applicable Substrate
5. PROMASEAL® A

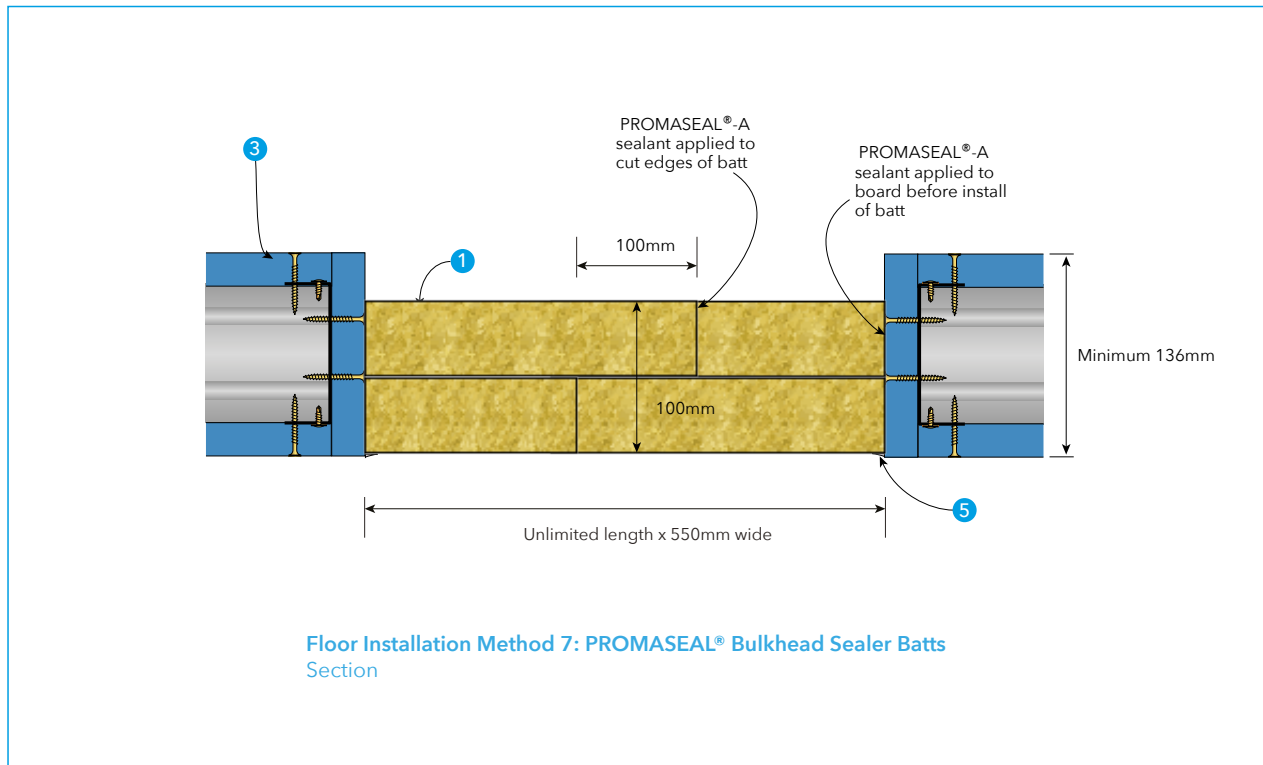
#### Installation Method:

1. Trim opening with ceiling purlins.
2. Cut four strips of batt to fit within the flange of the ceiling purlin and stack them in
3. Cut strips 166mm thick and fix horizontally with 65mm long drillpoint screws with a 30mm washer to the flat face of ceiling purlins on three sides of the opening. On the fourth side fix to the batt strips stacked in open purlin face with pigtail screws to form a ledge for the full batts to sit on
4. Cut batts to suit opening and place on to strips fixed to purlins
5. Apply bead of PROMASEAL® A to perimeter on floor side.
6. Apply bead of PROMASEAL® A between batt strips and ceiling lining



## PROMASEAL® Bulkhead Batt Installation

### Method 7 (S1-0)



#### Maximum Opening Size:

- 550mm wide x Unlimited length

1. PROMASEAL®-Bulkhead Batts
3. Applicable Substrate
5. PROMASEAL® A

#### Applicable Substrates:

- PROMATECT® 100X Ceiling (136mm thick)

#### Installation Method:

1. Trim opening with ceiling purlins and line with a layer of 22mm PROMATECT® 100X.
2. Apply zig zag bead of PROMASEAL® A to substrate opening
3. Cut batts to suit opening. If the length exceeds 1200mm ensure that joints in each layer are offset by minimum 100mm.
4. Apply PROMASEAL® A zig zag bead to cut edges of batt where they are not in contact with the substrate
5. Place into opening flush with underside of the ceiling
6. Apply bead of PROMASEAL® A to perimeter on ceiling side.



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S1-1		Brass Pipe 32-100mm	PROMASEAL® SupaWrap 600mm each face	4 each face (steel)	25 x 25mm	-/120/120
S1-2		Brass Pipe 32-100mm	PROMASEAL® A	N/A	25 x 25mm	-/120/-
S1-3		Copper or Steel Pipe 32-150mm	PROMASEAL® SupaWrap 600mm each face	4 each face (steel)	25 x 25mm	-/120/120
S1-4		Copper or Steel Pipe 32-150mm	PROMASEAL® A	N/A	25 x 25mm	-/120/-
S1-5		Copper or Steel Pipe 25-100mm	PROMASHIELD®	N/A	2 x 5mm	-/120/120
S1-6		Copper or Steel Pipe 125 - 200mm	PROMASHIELD®	N/A	2 x 5mm	-/120/90



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S1-7		Copper or Steel Pipe 32-100mm	PROMASEAL® SupaWrap 600mm topside only	4 (steel)	25 x 25mm	-/120/120
S1-8		Copper Pipe 19mm with Nitrile Lagging 25mm thick	PROMASEAL® FlexiWrap 50mm above and below	3 (plastic)	15 x 15mm	-/120/120
S1-9		Fibre optic cables up to 60mm bundle	PROMASEAL® A	N/A	50 x 50mm	-/120/120
S1-10		Power Cables (D1) with or without tray	PROMASEAL® SupaWrap 300mm each face	2 each face (steel)	30 x 30mm	-/120/120
S1-11		Comms Cables (D2) with or without tray	PROMASEAL® SupaWrap 300mm each face	2 each face (steel)	30 x 30mm	-/120/120



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S1-12		Cable Trunking 80 x 50mm (20% fill)	PROMASEAL® SupaWrap 600mm topside only	4 (steel)	50 x 50mm	-/120/120
S1-13		Power Cables (D1) with or without tray	PROMASHIELD®	N/A	Full Depth x gap mm	-/120/120
S1-14		Comms Cables (D2) with or without tray	PROMASHIELD®	N/A	Full Depth x gap mm	-/120/120
S1-15		uPVC Pipes 40-100mm	PROMASEAL® FC	N/A	N/A	-/120/120
S1-16		HDPE Pipes 40-100mm	PROMASEAL® FC	N/A	N/A	-/120/120



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S1-17		PEX Pipe 16-25mm	PROMASEAL® CFC and PROMASEAL® IBS	N/A	20 x 20mm	-/180/180
S1-18		uPVC Conduit 20mm with Fibre optics	PROMASEAL® CFC and PROMASEAL® IBS	N/A	20 x 20mm	-/180/180
S1-19		uPVC Conduit 20mm with TPS Cables	PROMASEAL® CFC and PROMASEAL® IBS	N/A	20 x 20mm	-/180/60
S1-20		Power Cables (D1) with or without tray	PROMASEAL® SupaWrap . 600mm top side only	2 (steel)	25 x 25mm	-/120/120
S1-21		Comms Cables (D2) with or without tray	PROMASEAL® SupaWrap . 600mm top side only	2 (steel)	25 x 25mm	-/120/120
S1-22		Power Cables (D1) with or without tray	PROMASHIELD®	N/A	Full Depth x gap mm	-/90/90



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S1-23		AVA5-50 Co-ax cables Up to 5	PROMASEAL® AG + PROMASEAL® SupaWrap (300mm top side only)	2 (steel)	30 x 30mm	-/120/120
S1-24		Helliax Co-ax cables 7/8" Up to 7	PROMASEAL® AG + PROMASEAL® SupaWrap (300mm top side only)	2 (steel)	30 x 30mm	-/240/180
S1-25		uPVC Conduit 50mm with up to 46 Data cables and up to 9 RG6 cables	PROMASEAL® AG	N/A	10mm x depth of batt	-/120/120
S1-26		Lagged Copper Pipe 2 x 32mm (19mm nitrile lagging) 1 x 32mm (25mm nitrile lagging) 1 x 25mm (19mm nitrile lagging) 1 x 18mm (19mm nitrile lagging)	PROMASEAL® SupaWrap 300mm Top Side Only	2 (steel)	30 x 30mm	-/120/120
S1-27		TPS Cables up to 6	PROMASEAL® A	N/A	30 x 30mm	-/120/120
S1-28		TPS Cables 7 to 12	PROMASEAL® A	N/A	30 x 30mm	-/120/60



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S1-29		Copper Pipe 8-32mm with foil coated PIR foam 19 to 25mm	PROMASEAL® AG	N/A	10mm x full depth	-/120/120
S1-30		Copper Pipe 8-32mm with nitrile rubber lagging 19 to 25mm	PROMASEAL® AG	N/A	10mm x full depth	-/120/120
S1-31		Copper Pipe 8-32mm with foil coated glasswool 19 to 25mm	PROMASEAL® AG	N/A	10mm x full depth	-/120/120
S1-32		Copper Paircoil up to 60mm opening	PROMASEAL® AG + PROMASEAL® SupaWrap 600mm top side	3 (steel)	30 x 30 mm	-/180/180
S1-33		Copper Pipe 32mm with E-Clad 4 Zero thermalwrap 25 x 32mm	PROMASEAL® AG	N/A	30 x 30mm	-/120/120

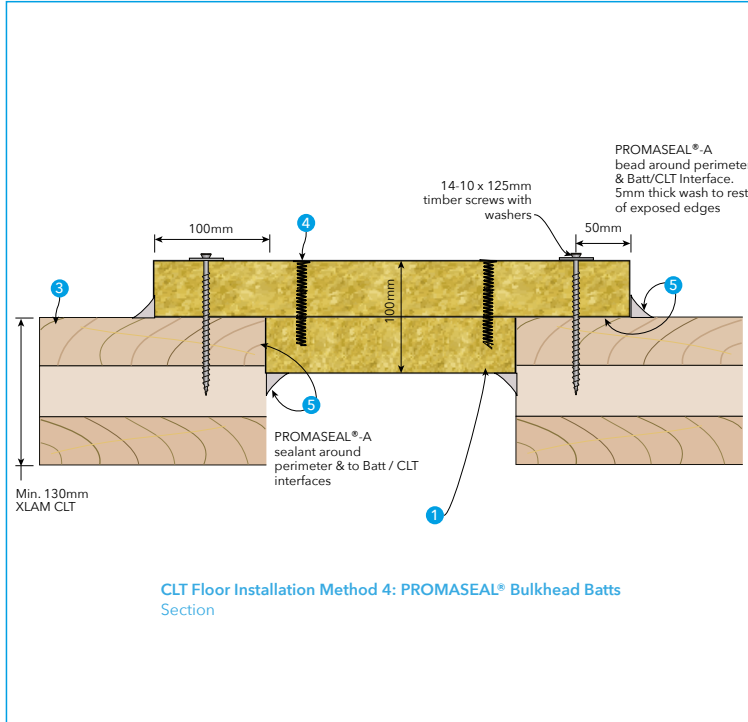


System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S1-34		<p>Multiple uPVC Conduits 32mm with CAT6, Fibre Optic, CAT5E or RG6 cables</p>	<p>PROMASEAL® AG</p>	<p>N/A</p>	<p>10mm x full depth</p>	<p>-/180/120</p>

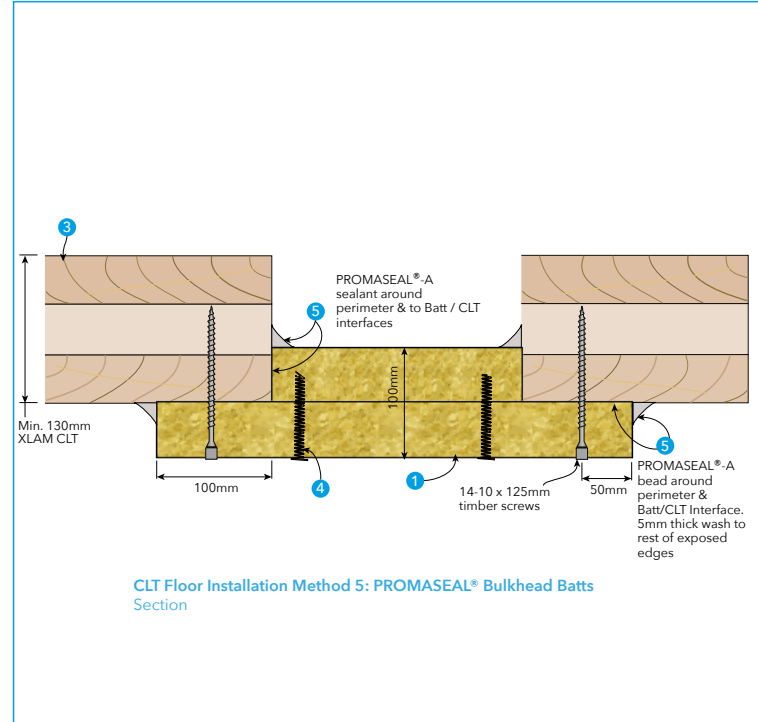


## PROMASEAL® Bulkhead Batt Installation

### Method 4 (S2-0)



### Method 5 (S2-0)



### Maximum Opening Size:

- 400mm wide x 800mm long

1. PROMASEAL®-Bulkhead Batts
3. Applicable Substrate
4. Promat Pig-Tail Screws
5. PROMASEAL® A

### Applicable Substrates:

- Xlam CLT Panels (minimum 130mm)

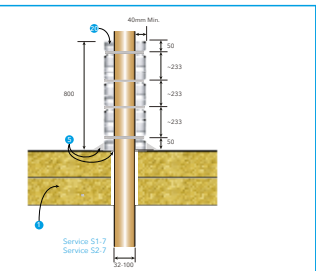
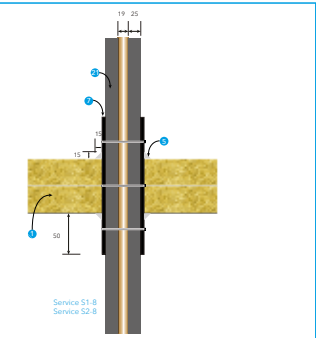
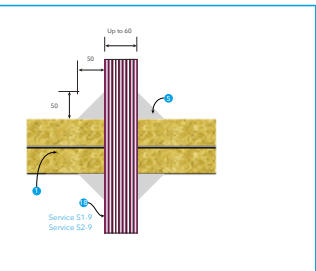
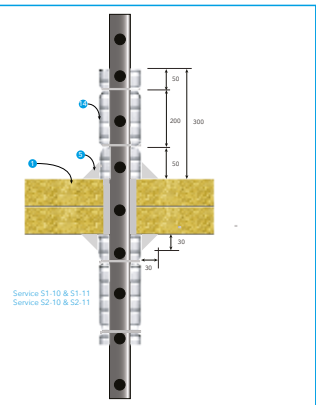
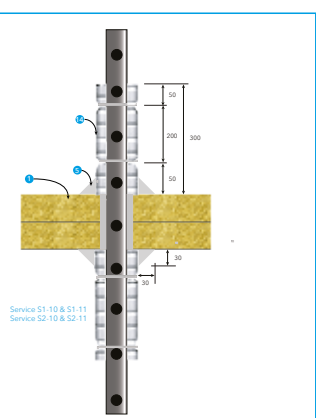
### Installation Method:

1. Apply PROMASEAL® A zigzag bead to substrate where the batt will attach
2. Cut first layer of batt to suit opening and friction fit.
3. Cut second layer of batt to suit opening + 100mm overlap on all sides.
4. Fix second layer to CLT with 125mm long timber screws. For batt on top side add washer.
5. Install PROMASEAL® A wash to all exposed batt edges and add 5mm x 5mm bead to perimeter between batt and CLT.



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S2-1		Brass Pipe 32-100mm	PROMASEAL® SupaWrap 600mm each face	4 each face (steel)	25 x 25mm	-/90/90
S2-2		Brass Pipe 32-100mm	PROMASEAL® A	N/A	25 x 25mm	-/90/-
S2-3		Copper or Steel Pipe 32-150mm	PROMASEAL® SupaWrap 600mm each face	4 each face (steel)	25 x 25mm	-/90/90
S2-4		Copper or Steel Pipe 32-150mm	PROMASEAL® A	N/A	25 x 25mm	-/90/-
S2-5		Copper or Steel Pipe 25-100mm	PROMASHIELD®	N/A	2 x 5mm	-/90/90
S2-6		Copper or Steel Pipe 125 - 200mm	PROMASHIELD®	N/A	2 x 5mm	-/90/90



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S2-7		Copper or Steel Pipe 32-100mm	PROMASEAL® SupaWrap 600mm topside only	4 (steel)	25 x 25mm	-/90/90
S2-8		Copper pipe 19mm with nitrile lagging 25mm)	PROMASEAL® FlexiWrap 50mm above and below	3 (plastic)	15 x 15mm	-/90/90
S2-9		Fibre optic cables up to 60mm bundle	PROMASEAL® A	N/A	50 x 50mm	-/90/90
S2-10		Power Cables (D1) with or without tray	PROMASEAL® SupaWrap 300mm each face	2 each face (steel)	30 x 30mm	-/90/90
S2-11		Comms Cables (D2) with or without tray	PROMASEAL® SupaWrap 300mm each face	2 each face (steel)	30 x 30mm	-/90/90



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S2-12		Cable Trunking 80 x 50mm (20% fill)	PROMASEAL® SupaWrap 600mm topside only	4 (steel)	50 x 50mm	-/90/90
S2-13		Power Cables (D1) with or without tray	PROMASHIELD®	N/A	Full Depth x gap mm	-/90/90
S2-14		Comms Cables (D2) with or without tray	PROMASHIELD®	N/A	Full Depth x gap mm	-/90/90
S2-15		uPVC Pipes 40-100mm	PROMASEAL® FC	N/A	N/A	-/90/90
S2-16		HDPE Pipes 40-100mm	PROMASEAL® FC	N/A	N/A	-/90/90



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S2-17	<p>Service S1-17 Service S2-17</p>	PEX Pipe 16-25mm	PROMASEAL® CFC and PROMASEAL® IBS	N/A	20 x 20mm	-/90/90
S2-18	<p>Service S1-18 &amp; S1-19 Service S2-18 &amp; S2-19</p>	uPVC Conduit 20mm with Fibre Optics	PROMASEAL® CFC and PROMASEAL® IBS	N/A	20 x 20mm	-/90/90
S2-19	<p>Service S1-18 &amp; S1-19 Service S2-18 &amp; S2-19</p>	uPVC Conduit 20mm with TPS Cables	PROMASEAL® CFC and PROMASEAL® IBS	N/A	20 x 20mm	-/90/60
S2-20	<p>Service S1-20 &amp; S1-21 Service S2-20 &amp; S2-21</p>	Power Cables (D1) with or without tray	PROMASEAL® SupaWrap . 600mm top side only	2 (steel)	25 x 25mm	-/90/90
S2-21	<p>Service S1-20 &amp; S1-21 Service S2-20 &amp; S2-21</p>	Comms Cables (D2) with or without tray	PROMASEAL® SupaWrap . 600mm top side only	2 (steel)	25 x 25mm	-/90/90
S2-22	<p>Service S1-13 &amp; S1-14 Service S2-13, &amp; S2-14</p>	Power Cables (D1) with or without tray	PROMASHIELD®	N/A	Full Depth x gap mm	-/90/90



System ID	Install Diagram	Service Type and Size	Protection Method	Straps	Sealant Cone	FRL
S2-23		<p>AVA5-50 Co-ax cables up to 5</p>	<p>PROMASEAL® AG + PROMASEAL® SupaWrap (300mm top side only)</p>	<p>2 (steel)</p>	<p>30 x 30mm</p>	<p>-/90/90</p>

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