

Trafalgar Unicorn Continuous Fire Collar

NEW Wall & Shafts Manual

The Trafalgar Unicorn Continuous Fire Collar, known for its adaptability across various services, now shows even stronger performance with our recently completed testing for walls and shafts.

Our commitment to excellence has propelled us to extend our testing scope, ensuring our products meet the most stringent safety standards. Due to high demand and significant interest in the Unicorn Fire Collar, we've decided to share our results earlier than scheduled.

We're conducting further tests and will continue to release more detailed findings shortly. **To ensure you don't miss out on these critical updates, please keep an eye on this document that will be regularly updated or register through the form below to receive priority notifications about new test results.**



 Sign Up Here to receive priority notifications for our testing!



KEY FEATURES

- Packaged as a 2310mm roll
- Longest continuous collar on the market
- Cut to length to suit service
- Approvals for a range of services
- Fire test approvals to AS1530.4
- FRL's up to-/120/120
- Mounting brackets included in the box
- Testing is continuous

APPLICATIONS

Plumbers	PVC pipes HDPE pipes
Active Fire	Sprinkler pipes Fire cables

BARRIERS



Plasterboard



Concrete



Masonry



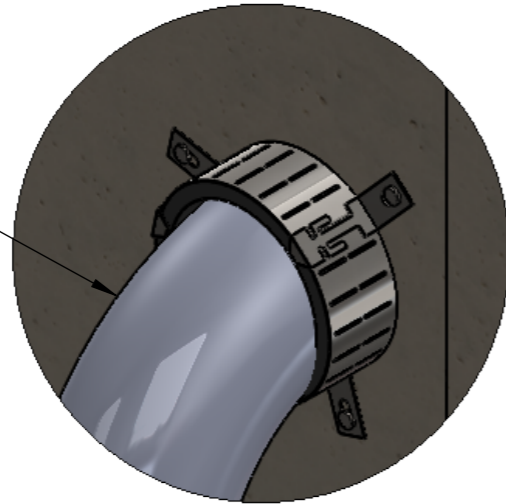
Hebel

TRADES



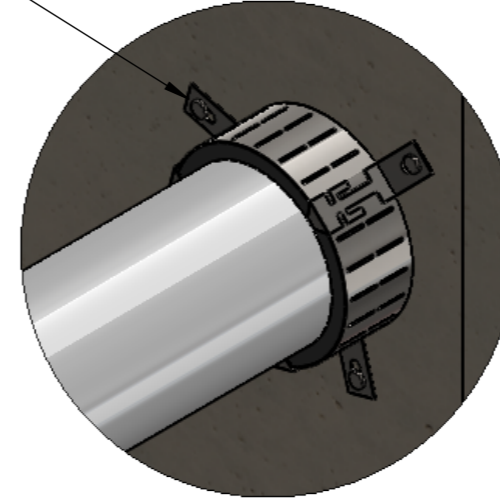


Approved with or without a socket located inside the fire collar

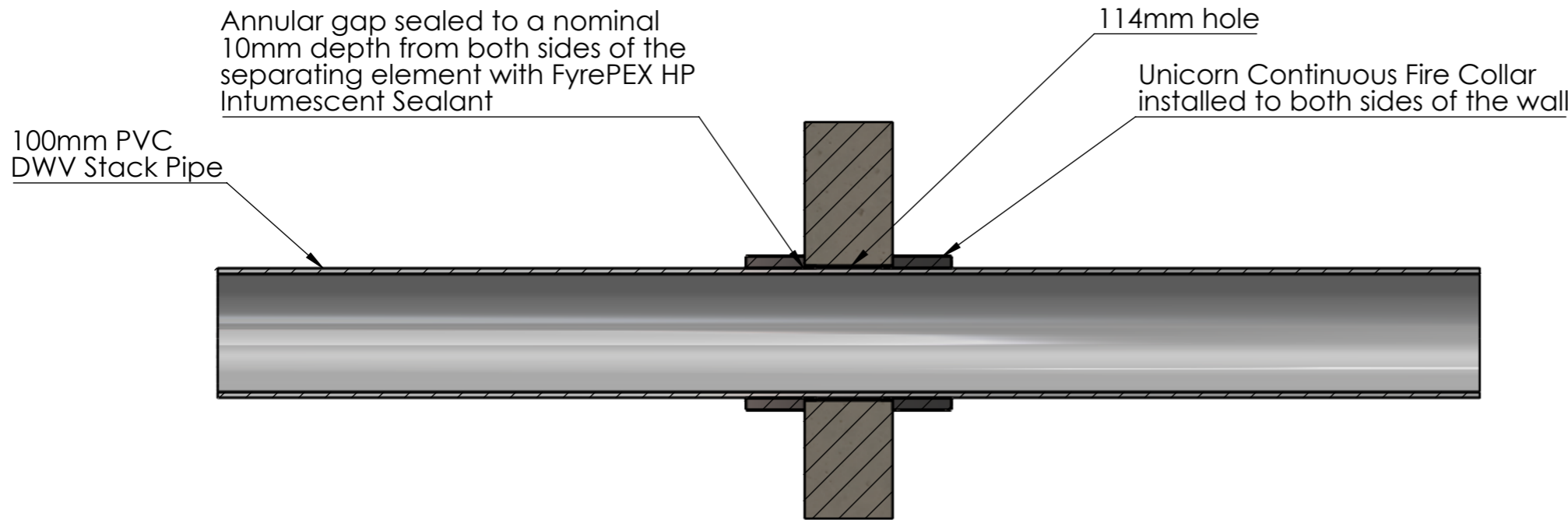


DETAIL AB

3x mounting brackets installed at equidistant centres around the collar, using 6g x 25mm screws



DETAIL C



SECTION B-B

Application

- 100mm PVC DWV Pipe
- with or without a socket

- 75mm Hebel Power Panel

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Fill annular gap around the pipe from both sides of the wall to a nominal 10mm depth with FyrePEX HP Sealant.

2. Cut the Unicorn Collar to length, wrapping it around the service and securing the ends with a mounting bracket, fit a further 2x brackets with equal spacing around the collar.

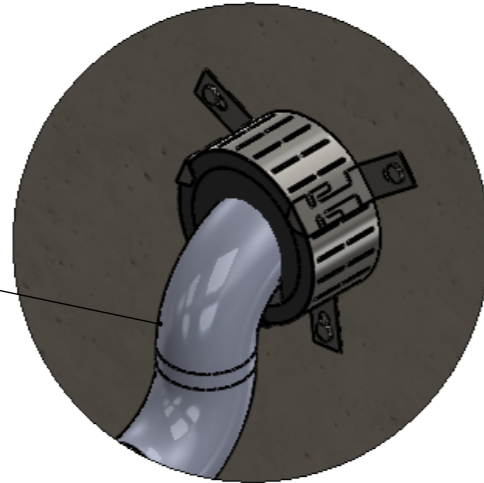
3. Secure the Unicorn Collar mounting brackets to the wall using minimum 6g x 25mm steel screws.

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Products	Unicorn Collar FyrePEX HP Sealant
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00042
FRL/ FRR	-/90/90
T-Card Number	T000117 Rev. 0
Date	August 2024

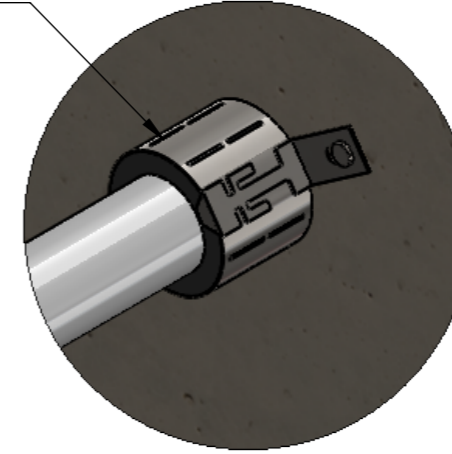


Approved with or without a socket located inside the fire collar (3x brackets required with socket)



DETAIL AA

2x mounting brackets installed at equidistant centres around the collar, using 6g x 25mm screws



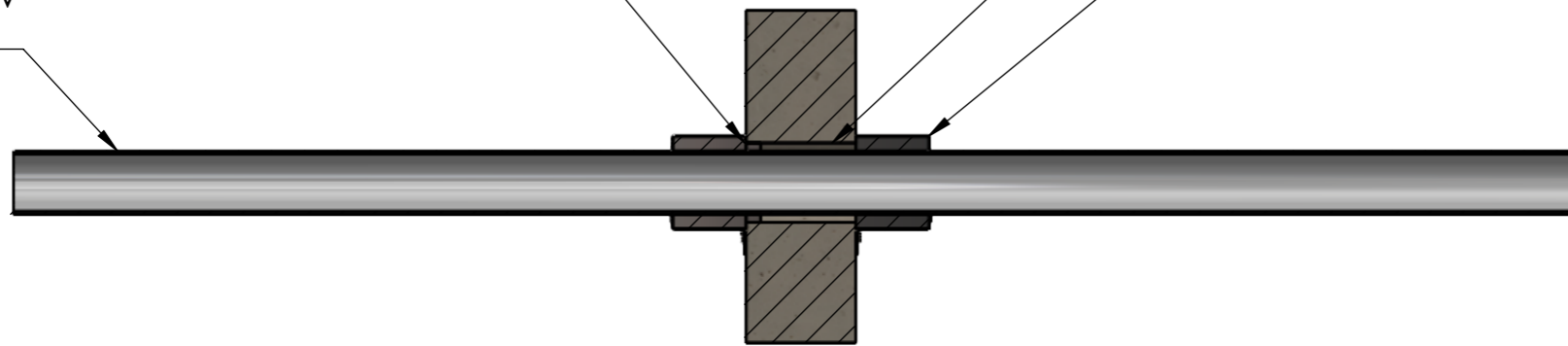
DETAIL D

Annular gap sealed to a nominal 10mm depth from both sides of the separating element with FyrePEX HP Intumescent Sealant

40mm PVC DWV Stack Pipe

54mm hole

Unicorn Continuous Fire Collar installed to both sides of the wall



SECTION E-E



Application

- 40mm PVC DWV Pipe
- With or without a socket

- 75mm Hebel Power Panel

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Fill annular gap around the pipe from both sides of the wall to a nominal 10mm depth with FyrePEX HP Intumescent Sealant.

2. Cut the Unicorn Collar to length, wrapping it around the service and securing the ends with a mounting bracket, fit another 1x bracket with equal spacing around the collar

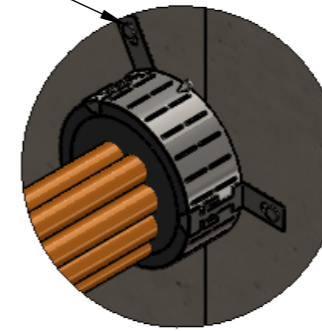
3. Secure the Unicorn Collar mounting brackets to the wall using minimum 6g x 25mm steel screws.

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Products	Unicorn Collar FyrePEX HP Sealant
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00042
FRL/ FRR	-/90/90
T-Card Number	T000118 Rev. 0
Date	August 2024



3x mounting brackets installed at equidistant centres around the collar, using 6g x 25mm screws



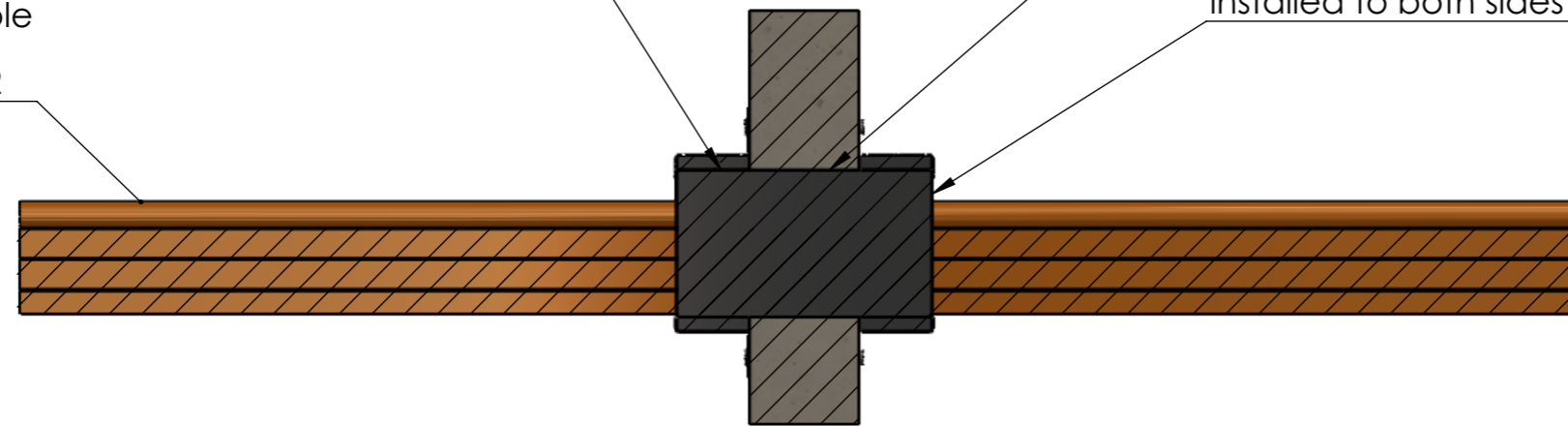
DETAIL G

Annular gap sealed to full depth of the collars and the wall with FyrePEX HP Intumescent Sealant

100mm Hole

Unicorn Continuous Fire Collar installed to both sides of the wall

Appendix D1 Power cable bundles c & d - 3x 3C+E 6mm², 8x 3C+E 16mm²



SECTION F-F

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Fill annular gap around the pipe to the full depth of the wall with FyrePEX HP Intumescent Sealant.

2. Cut the Unicorn Collar to length, wrapping it around the service and securing the ends with a mounting bracket, fit a further 2x brackets with equal spacing around the collar.

3. Secure the Unicorn Collar mounting brackets to the wall using minimum 6g x 25mm steel screws.

4. Backfill around the services with FyrePEX HP Intumescent Sealant to the full depth of the collar.

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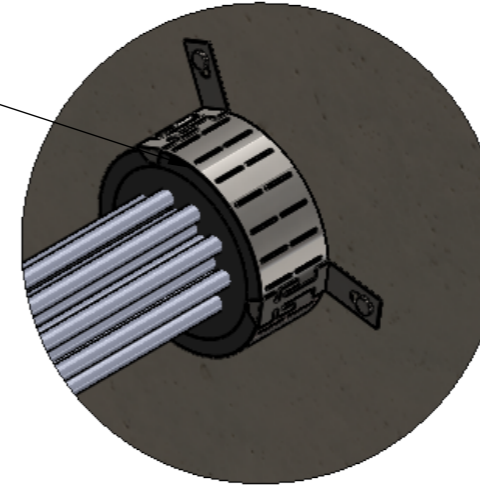
Application

- Up to:
- 8x 3C+E 16mm² Copper Core Power Cables
- 3x 3C+E 6mm² Copper Core Power Cables
- 75mm Hebel Power Panel

Products	Unicorn Collar FyrePEX HP Sealant
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00042
FRL/ FRR	-/90/90
T-Card Number	T000119 Rev. 0
Date	August 2024



3x mounting brackets installed at equidistant centres around the collar, using 6g x 25mm screws



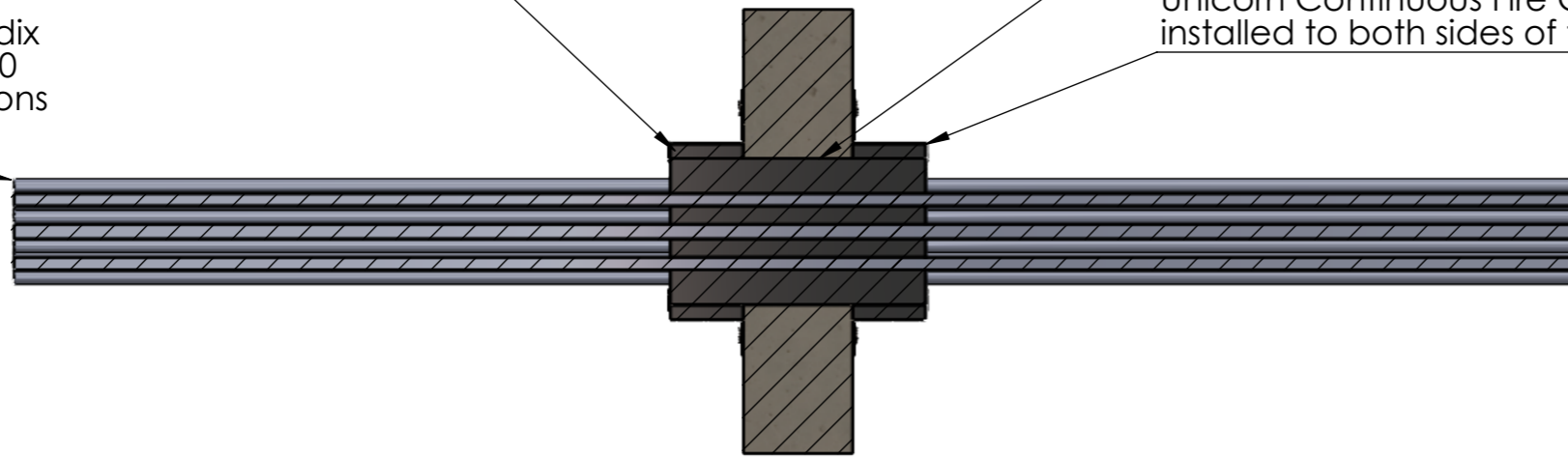
DETAIL I

Annular gap sealed to full depth of the collars and the wall with FyrePEX HP Intumescent Sealant

AS1530.4-2014 Appendix D2 Cables: 30x Cat3 50 pair telecommunications cables

100mm hole

Unicorn Continuous Fire Collar installed to both sides of the wall



SECTION H-H

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Fill annular gap around the pipe to the full depth of the wall with FyrePEX HP Intumescent Sealant.

2. Cut the Unicorn Collar to length, wrapping it around the service and securing the ends with a mounting bracket, fit a further 2x brackets with equal spacing around the collar.

3. Secure the Unicorn Collar mounting brackets to the wall using minimum 6g x 25mm steel screws.

4. Backfill around the services with FyrePEX HP Intumescent Sealant to the full depth of the collar.

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Application

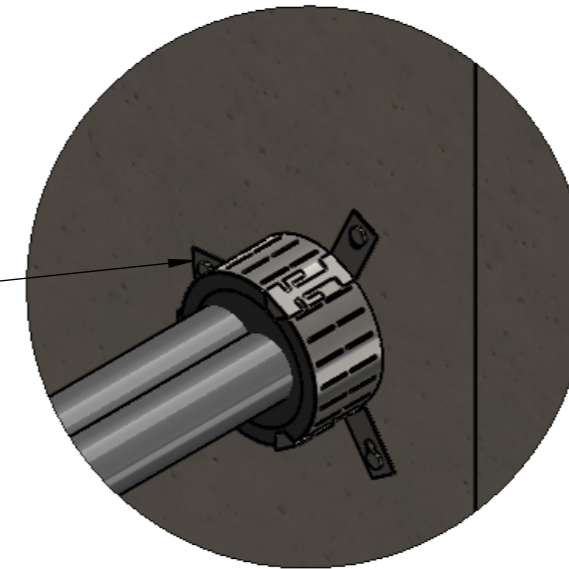
Up to:
- AS1530.4-2014 Appendix D2 Cables, 30x

75mm Hebel Power Panel

Products	Unicorn Collar FyrePEX HP Sealant
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00042
FRL/ FRR	-/90/90
T-Card Number	T000120 Rev. 0
Date	August 2024



3x mounting brackets installed at equidistant centres around the collar, using 6g x 25mm screws



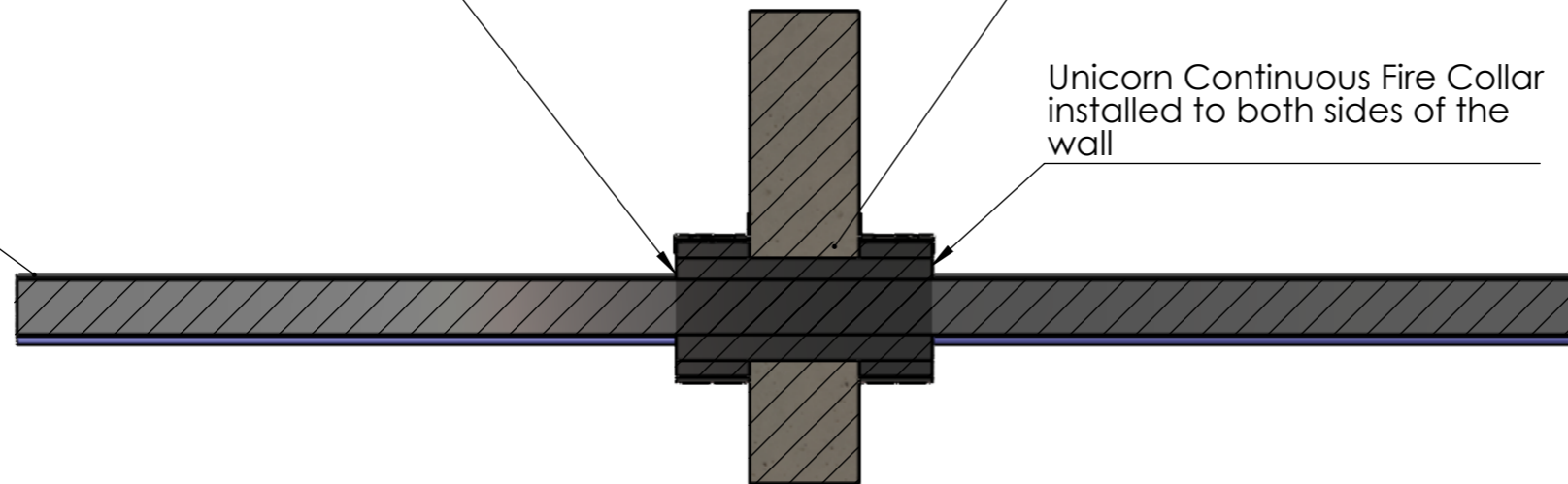
DETAIL K

Annular gap sealed to full depth of the collars and the wall with FyrePEX HP Intumescent Sealant

pair coil bundle with 1x 3C+E 2.5mm² power cable, & 1x screened VRF cable

80mm hole

Unicorn Continuous Fire Collar installed to both sides of the wall



SECTION J-J

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Fill annular gap around the pipe to the full depth of the wall with FyrePEX HP Intumescent Sealant.

2. Cut the Unicorn Collar to length, wrapping it around the service and securing the ends with a mounting bracket, fit a further 2x brackets with equal spacing around the collar.

3. Secure the Unicorn Collar mounting brackets to the wall using minimum 6g x 25mm steel screws.

4. Backfill around the services with FyrePEX HP Intumescent Sealant to the full depth of the collar.

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Application

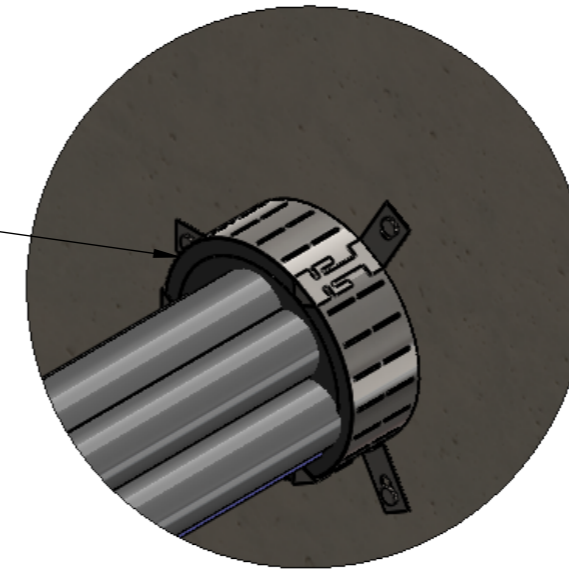
Up to:
 - 1x 9 & 19mm pair coil + 19mm FR lagging
 - with up to 1x 3C+E2.5mm² cable and 1x screened VRF cable

75mm Hebel Powerpanel

Products	Unicorn Collar FyrePEX HP Sealant
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00042
FRL/ FRR	-/90/90
T-Card Number	T000121 Rev. 0
Date	August 2024



3x mounting brackets installed at equidistant centres around the collar, using 6g x 25mm screws



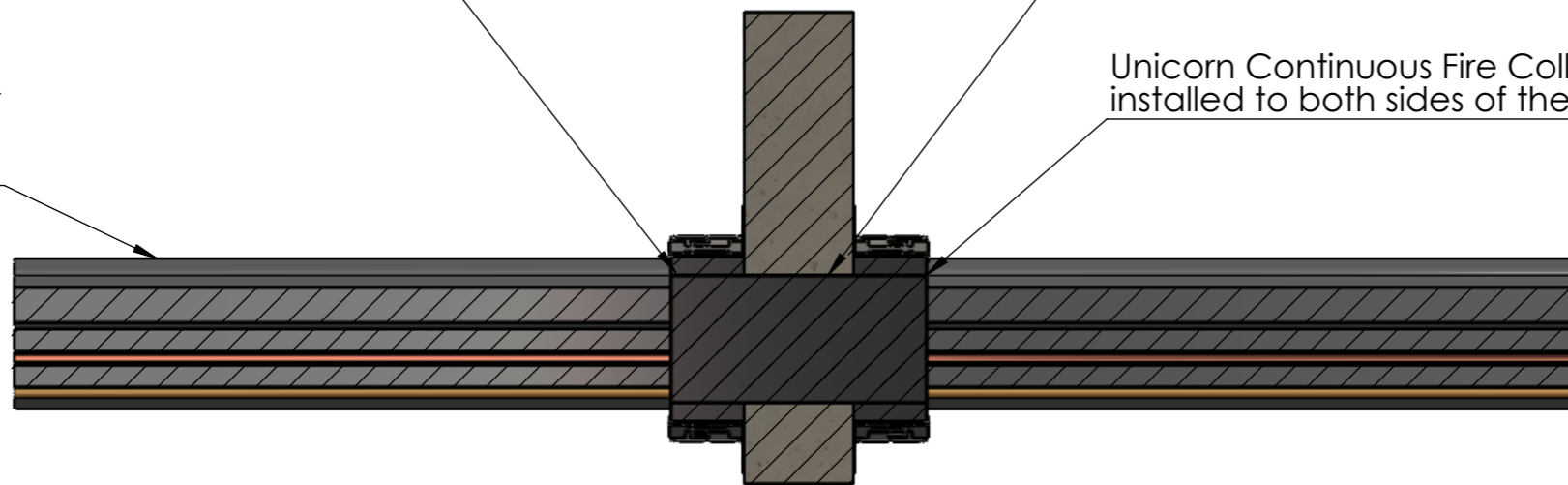
DETAIL M

Annular gap sealed to full depth of the collars and the wall with FyrePEX HP Intumescent Sealant

3x pair coil bundle with 1x 3C+E 2.5mm² power cable, & 1x screened VRF cable

120mm hole

Unicorn Continuous Fire Collar installed to both sides of the wall



SECTION L-L

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Fill annular gap around the pipe to the full depth of the wall with FyrePEX HP Intumescent Sealant.

2. Cut the Unicorn Collar to length, wrapping it around the service and securing the ends with a mounting bracket, fit a further 2x brackets with equal spacing around the collar.

3. Secure the Unicorn Collar mounting brackets to the wall using minimum 6g x 25mm steel screws.

4. Backfill around the services with FyrePEX HP Intumescent Sealant to the full depth of the collar.

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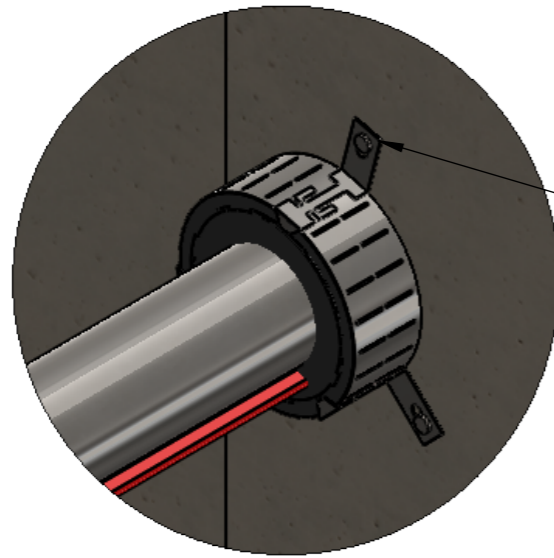


Application

Up to:
 - 3x 9 & 19mm pair coil + 19mm FR lagging
 - with up to 3x 3C+E2.5mm² cable and 3x screened VRF cable

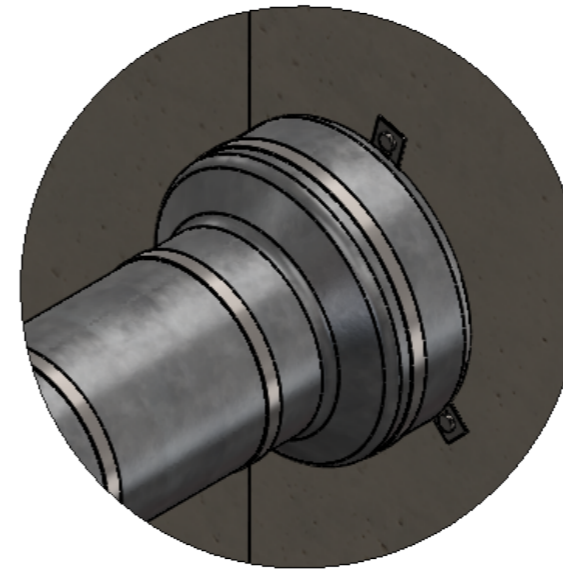
75mm Hebel Powerpanel

Products	Unicorn Collar FyrePEX HP Sealant
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00042
FRL/ FRR	-/90/90
T-Card Number	T000122 Rev. 0
Date	August 2024



DETAIL AD
(Before wrap goes on)

3x mounting brackets installed at equidistant centres around the collar, using 6g x 25mm screws

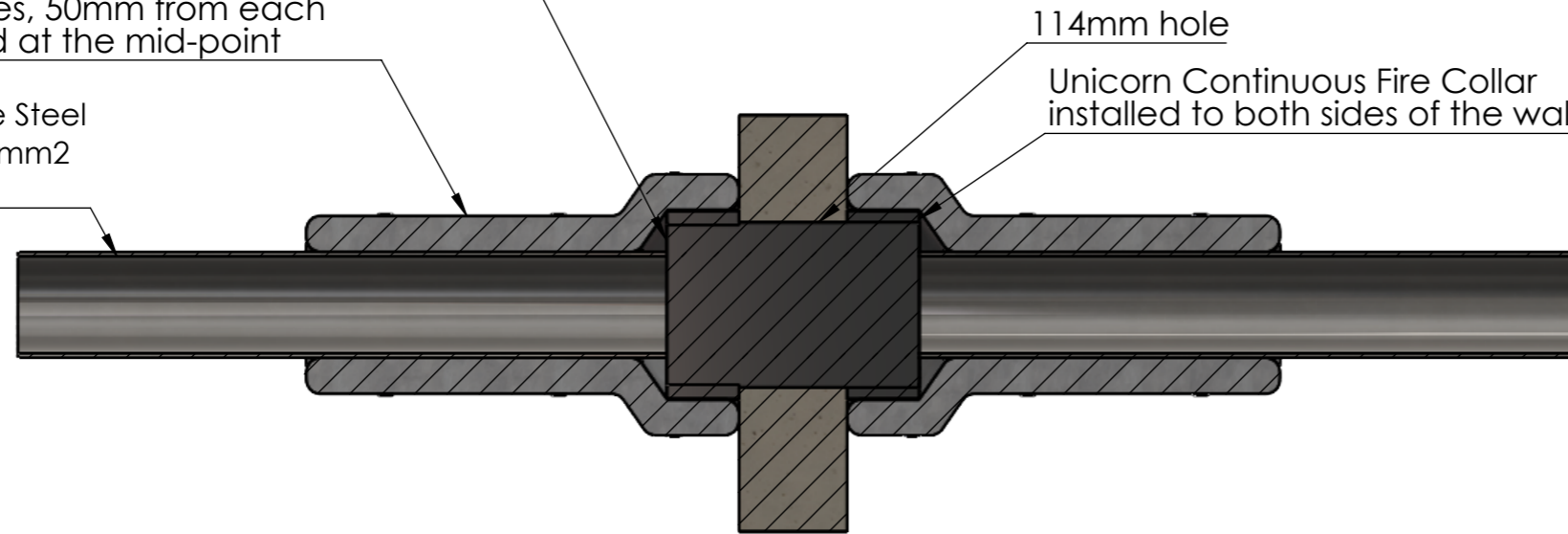


DETAIL O

Annular gap sealed to full depth of the collars and the separating element with FyrePEX HP Intumescent Sealant

Twrap 300 secured with 3x steel cable ties, 50mm from each end and at the mid-point

NB65 Medium Grade Steel Pipe, 4x firesense 1.5mm² TPS cables



SECTION N-N

114mm hole
Unicorn Continuous Fire Collar installed to both sides of the wall

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Fill annular gap around the pipe to the full depth of the wall with FyrePEX HP Intumescent Sealant.
2. Cut the Unicorn Collar to length, wrapping it around the service and securing the ends with a mounting bracket, fit a further 2x brackets with equal spacing around the collar.
3. Secure the Unicorn Collar mounting brackets to the wall using minimum 6g x 25mm steel screws.

4. Backfill around the services with FyrePEX HP Intumescent Sealant to the full depth of the collar.

5. Wrap Twrap 300 around the services and collar, overlapping by 50mm where it meets itself, secure with steel ties 50mm from each end and at the midpoint

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Application

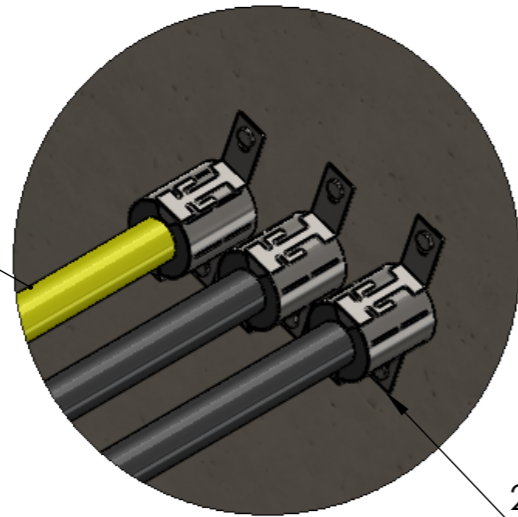
- NB65 Medium Grade Steel Pipe and up to 4x firesense 1.5mm² TPS cables

- 75mm Hebel Powerpanel

Products	Unicorn Collar FyrePEX HP Sealant TWrap
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00042
FRL/ FRR	-/90/90
T-Card Number	T000123 Rev. 0
Date	August 2024



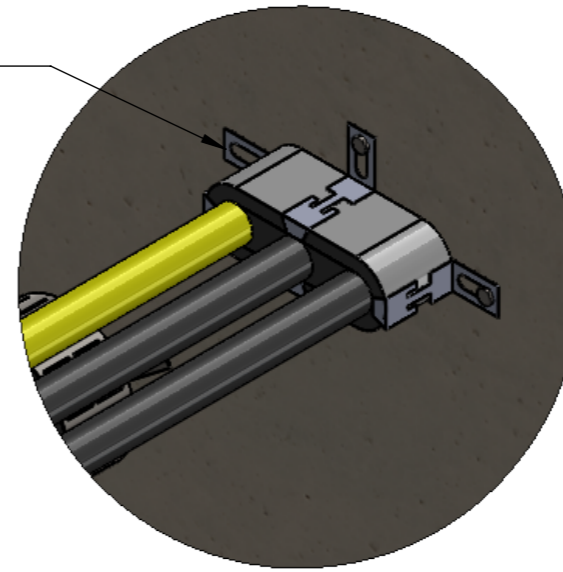
Individual Collars, or bundled together



DETAIL AC

2x brackets per collar

4x mounting brackets installed at equidistant centres around the collar, using 6g x 25mm screws



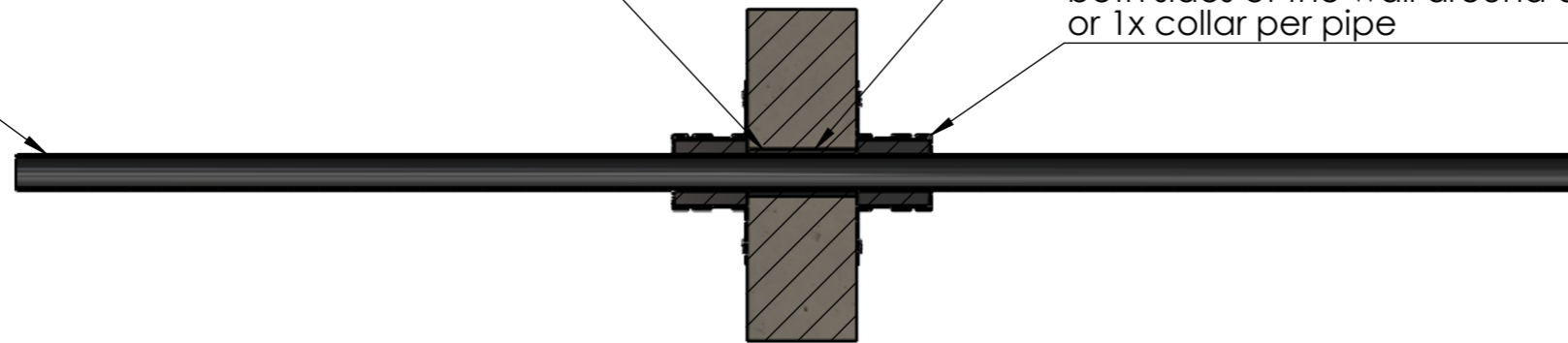
DETAIL U

Annular gap sealed to full depth of the collars and the wall with FyrePEX HP Intumescent Sealant

3x 32mm holes, 15mm apart

Unicorn Continuous Fire Collar installed to both sides of the wall around all 3x pipes, or 1x collar per pipe

PEX-a, PEX-b, & PEX-Al-PEX



SECTION T-T

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Fill annular gap around the pipe to the full depth of the wall with FyrePEX HP Intumescent Sealant.

2. Cut the Unicorn Collar to length, wrapping it around the service and securing the ends with a mounting bracket, fit a further 1x bracket for individual collars, or 3x brackets for the bundled collar, with equal spacing around the collar.

3. Secure the Unicorn Collar mounting brackets to the wall using minimum 6g x 25mm steel screws.

4. Backfill around the services with FyrePEX HP Intumescent Sealant to the full depth of the collar.

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Application

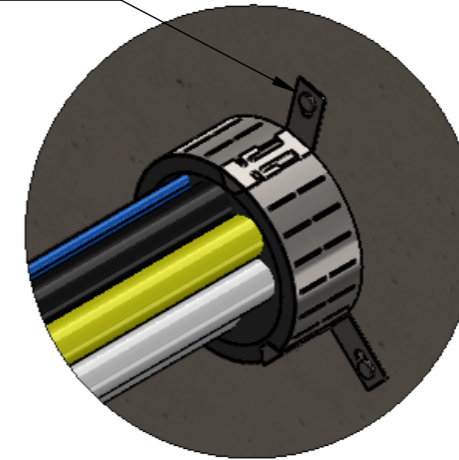
Up to 25mm PEX-a, PEX-b, or PEX-Al-PEX

75mm Hebel Powerpanel

Products	Unicorn Collar FyrePEX HP Sealant
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00042
FRL/ FRR	-/90/90
T-Card Number	T000124 Rev. 0
Date	August 2024



3x mounting brackets installed at equidistant centres around the collar, using 6g x 25mm screws

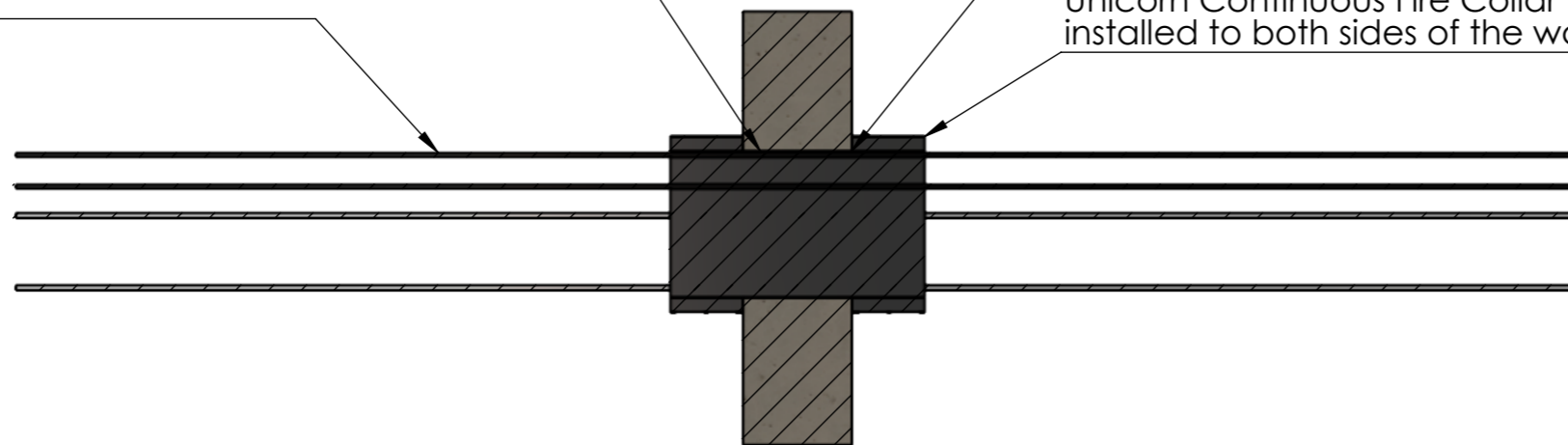


Annular gap sealed to full depth of the collars and the wall with FyrePEX HP Intumescent Sealant

25mm PEX-a, 25mm PEX-AI-PEX, 3x 2C+E 2.5mm² TPS, 1x 3C+E 16mm² Power, 3x CAT6, 1x 50mm PVC DWV, 1x 25mm PVC Conduit with Fibre cable

114mm hole

Unicorn Continuous Fire Collar installed to both sides of the wall



SECTION Y-Y

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Fill annular gap around the pipe to the full depth of the wall with FyrePEX HP Intumescent Sealant.

2. Cut the Unicorn Collar to length, wrapping it around the service and securing the ends with a mounting bracket, fit a further 2x brackets with equal spacing around the collar.

3. Secure the Unicorn Collar mounting brackets to the wall using minimum 6g x 25mm steel screws.

4. Backfill around the services with FyrePEX HP Intumescent Sealant to the full depth of the collar.

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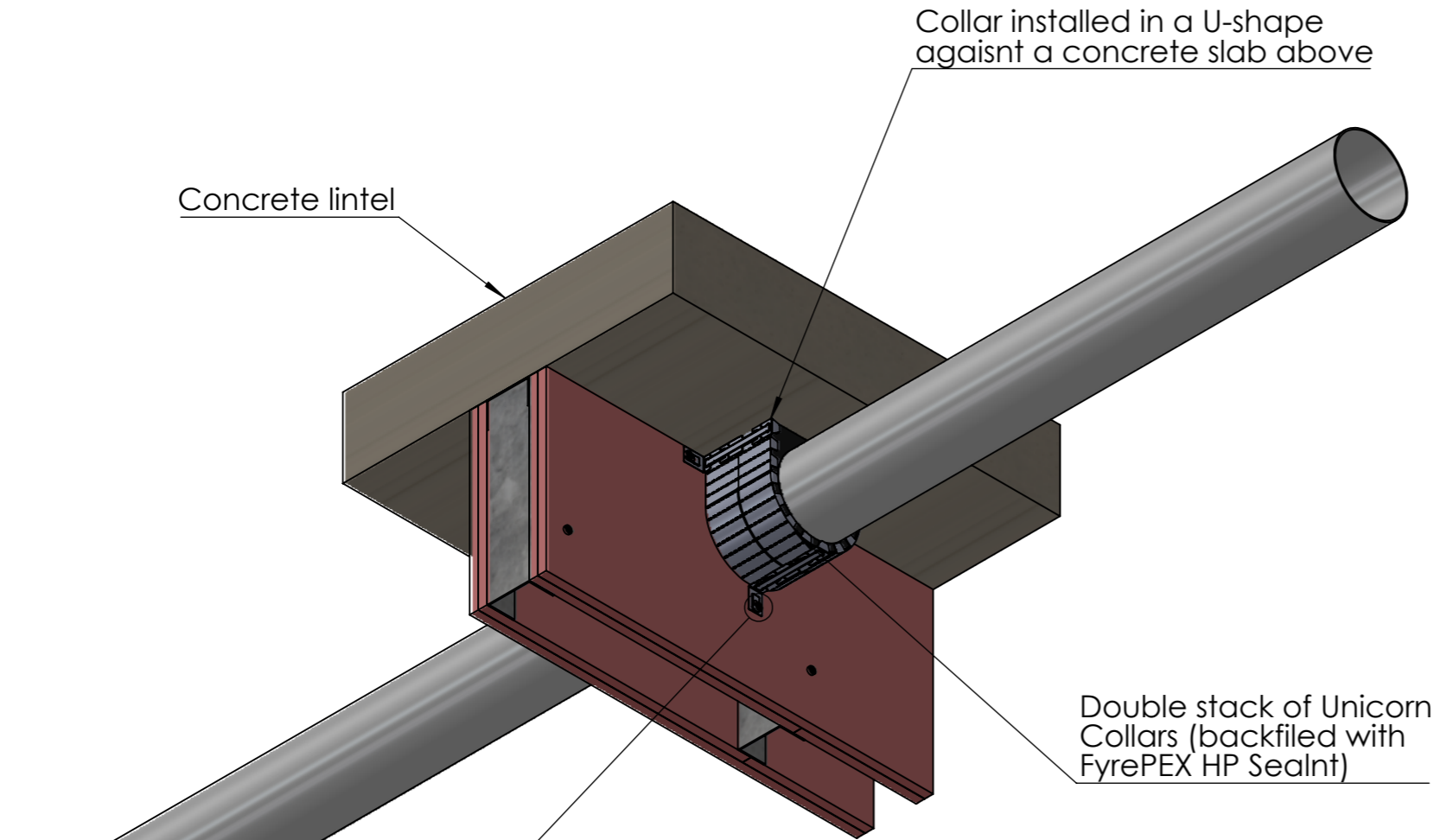
Application

Mixed Services, up to:

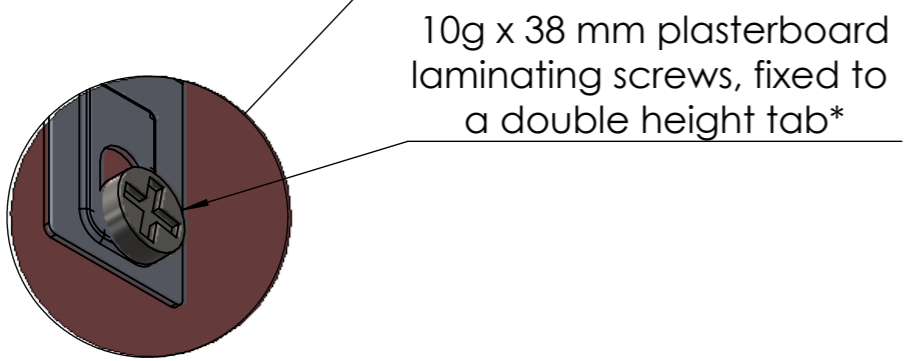
- 25mm PEX-a
- 25mm PEX-AI-PEX
- 3x 2.5mm² TPS
- 1x 16mm² Copper Power Cable
- 3x CAT6
- 1x 50mm PVC DWV
- 1x 25mm PVC Conduit with Fibre cable

75mm Hebel Powerpanel

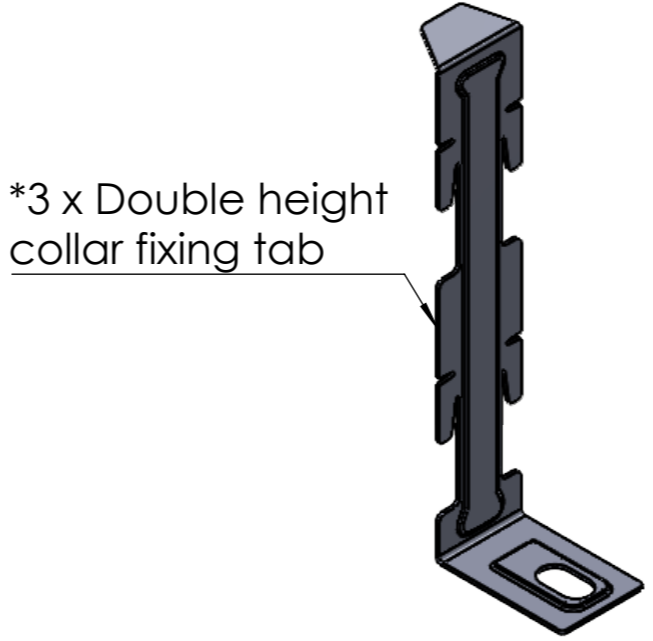
Products	FyrePEX HP Sealant Unicorn Collar
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00042
FRL/ FRR	-/90/90
T-Card Number	T000125 Rev. 0
Date	August 2024



Products	Trafalgar Unicorn Collars Trafalgar FyrePEX HP Sealant
Fire Barrier	2 x13mm fire rated plasterboard wall
Service/s	100mm PVC Pipe
Core Hole	114mm
Annular Gap	0-5mm
FRL	-/120/90
Test Report	24SFR00022




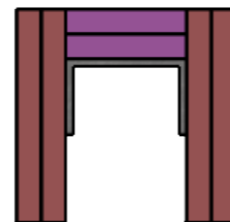
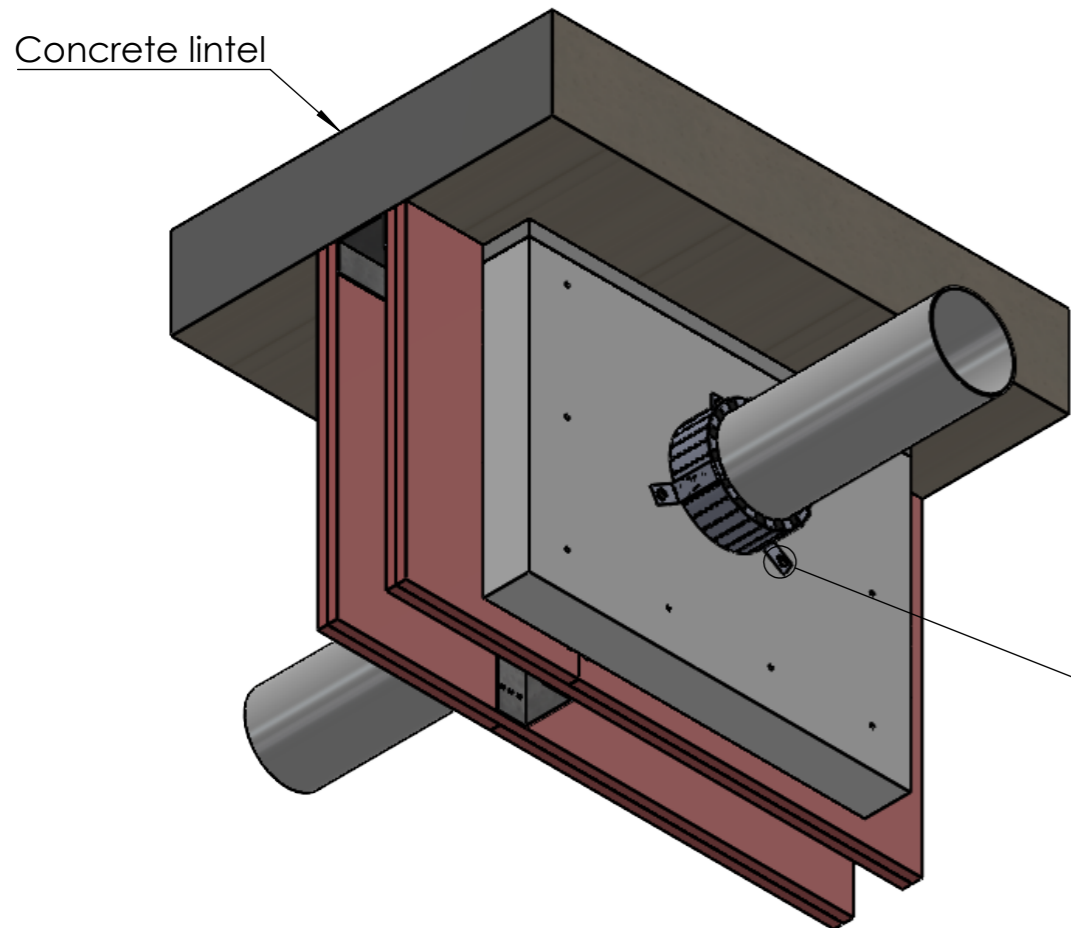
Collar fixing tabs



*3 x Double height collar fixing tab

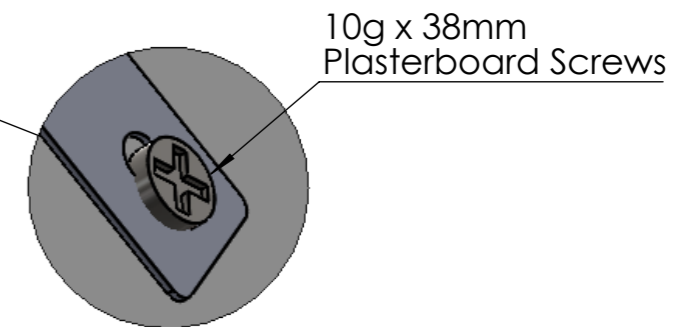
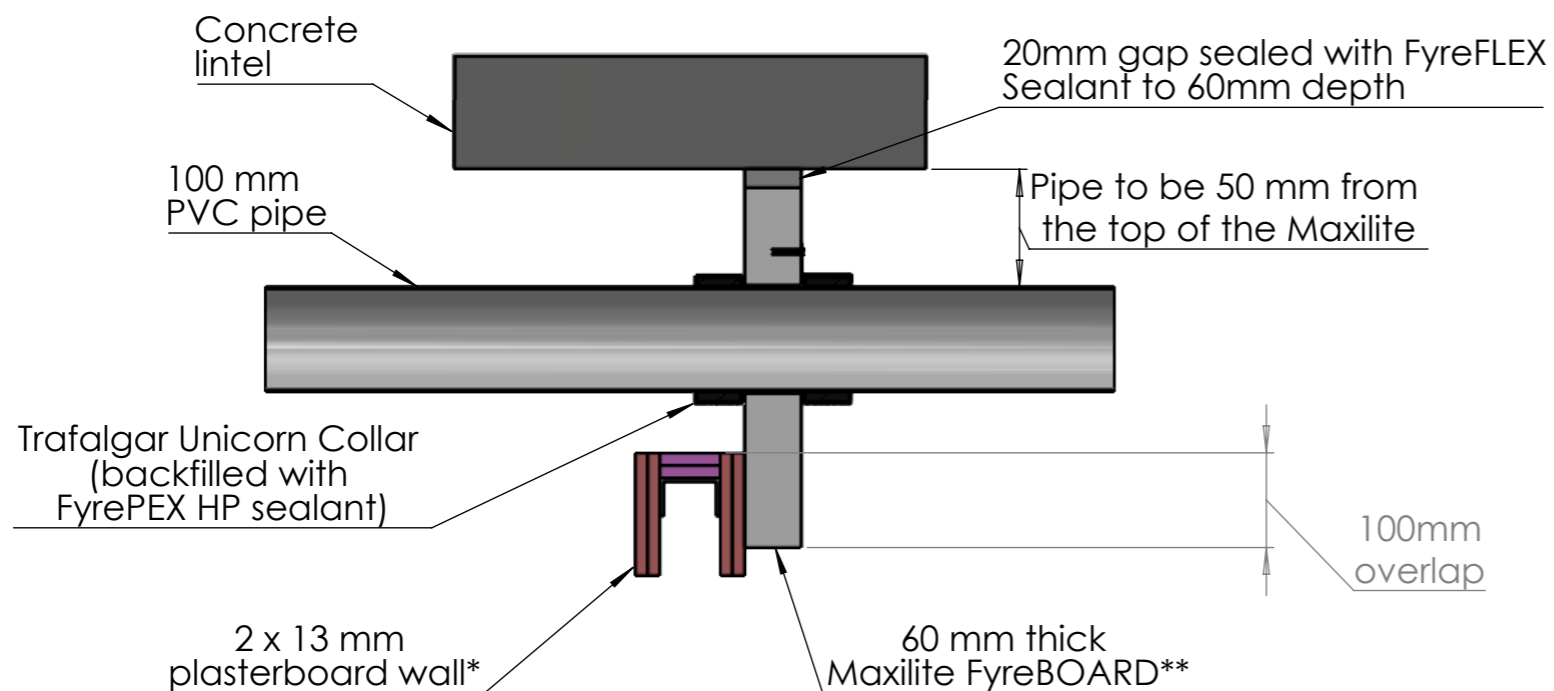
10g x 38 mm plasterboard laminating screws, fixed to a double height tab*

Drawing Name: PVC Pipe at the head of the wall				Test Standard: AS1530.4	Codes:	Revision:	Date:	No.:	NOTICE:
Project Title: Unicorn Collar in double layered Plasterboard Walls				Fire resistance level:	Drawn By: MZ	<small>NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm)</small>			
Drawing No. : T-UCPW 1	Sheet: 1 of 6	Date: 24/07/2024	Scale: NTS	Based on Report No.:	Checked By: JH	<input type="checkbox"/> STANDARD DRAWING	 <p>Trafalgar Head Office: PO BOX 545 Chester Hill NSW 2162 T: 1800 888 714 F: 1800 201 500 E: technical@tgroup.com.au W: www.tfire.com.au</p>		
						<input type="checkbox"/> PROJECT DRAWING			




*Plasterboard openings (for Maxilite) need to be sealed with the same thickness as the plasterboard wall.

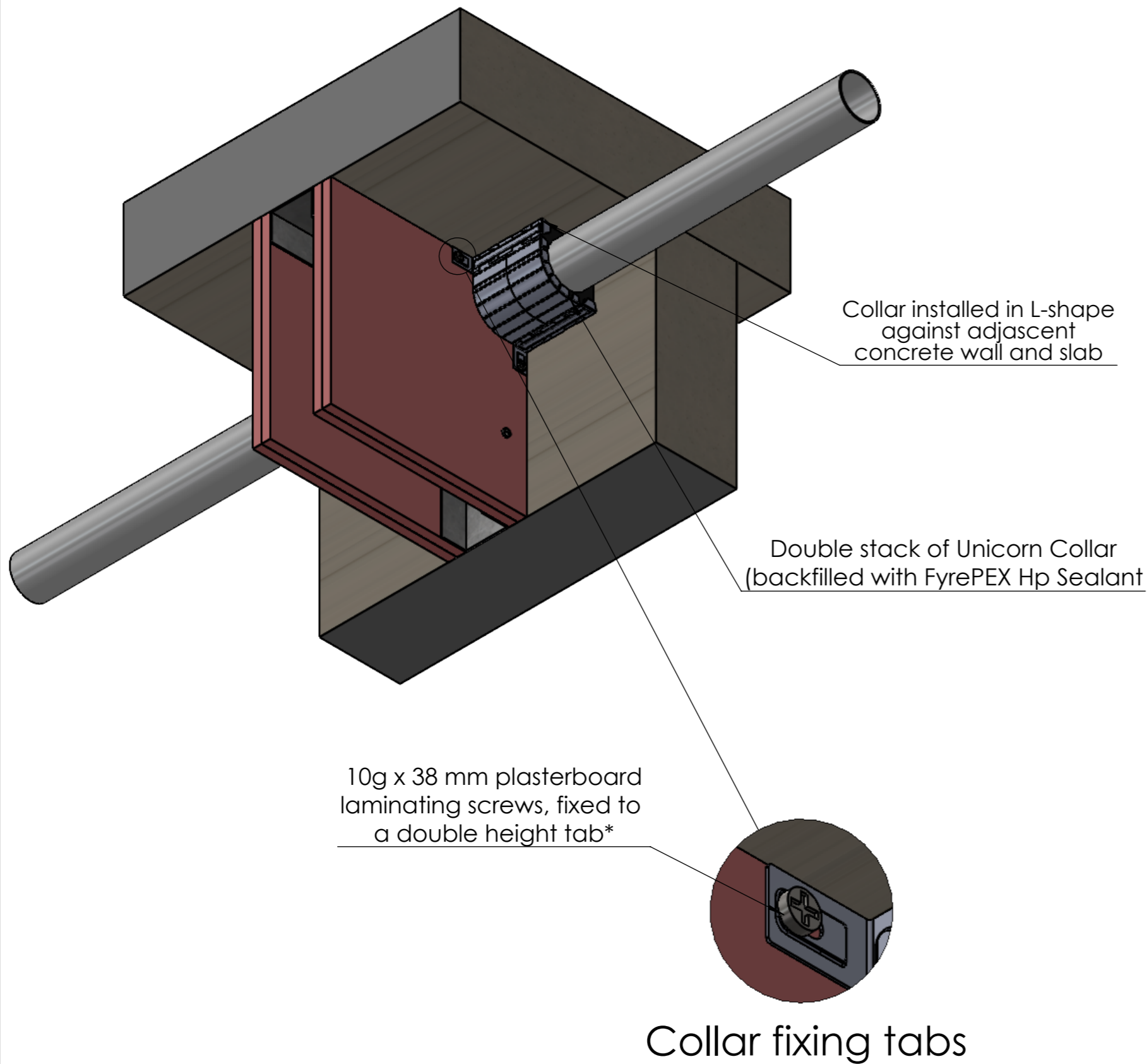
Products	Trafalgar Unicorn Collars Trafalgar FyrePEX HP Sealant
Fire Barrier	60mm Maxilite Board 2 x 13mm fire rated plasterboard wall
Service/s	100mm PVC Pipe
Core Hole	114mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022



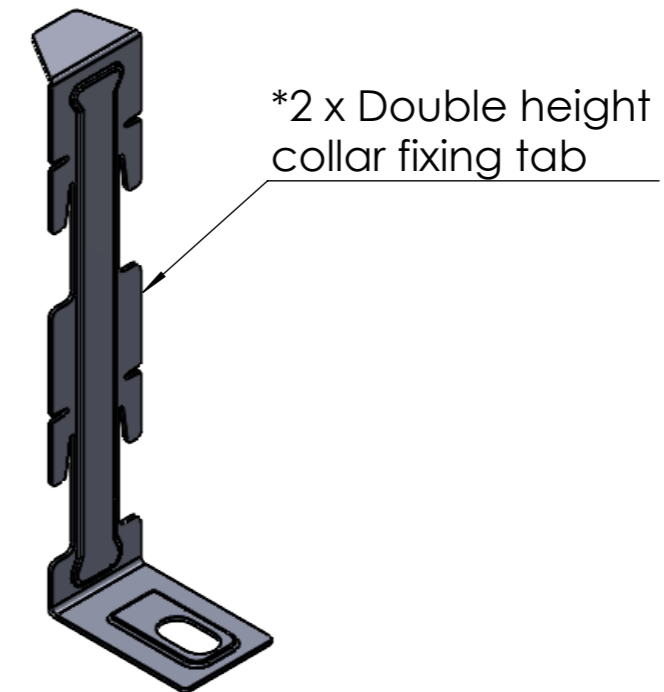
3 x Collar fixing tabs


** The Maxilite is fixed to the plasterboard wall using 10g plasterboard screws at max 200 mm centres.

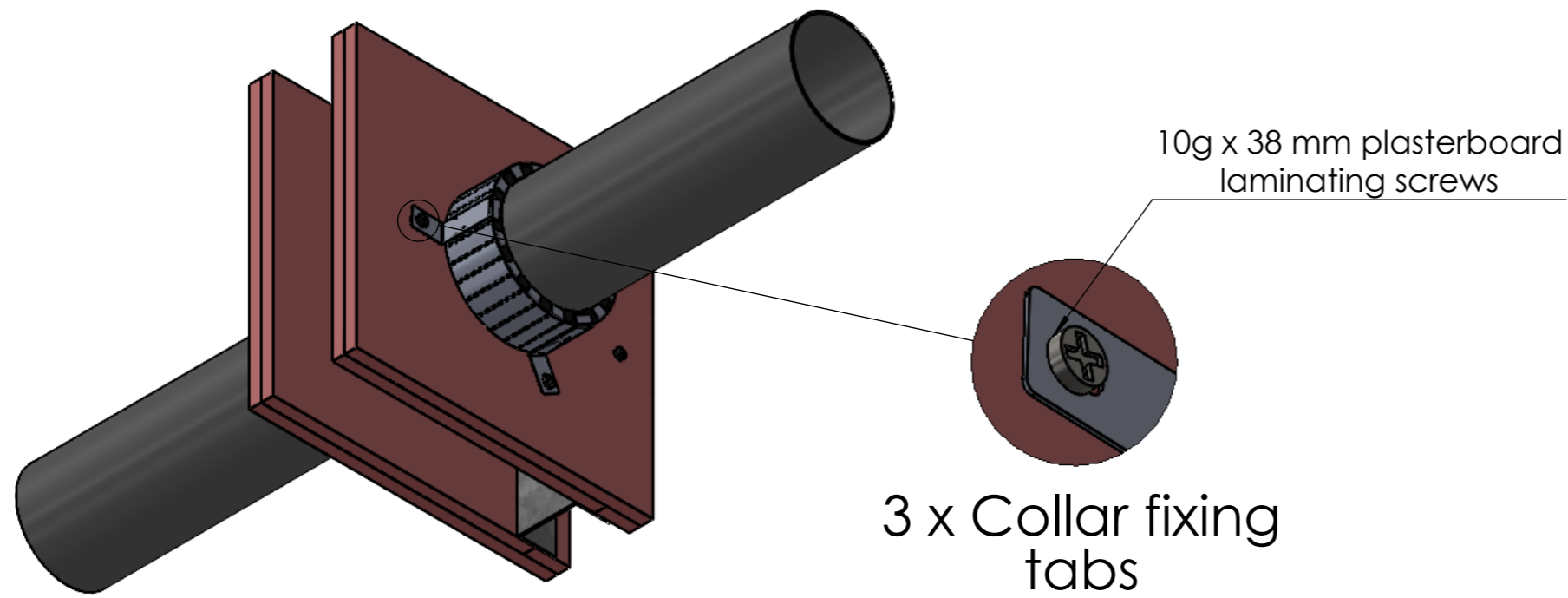
Drawing Name: PVC Pipe in Maxilite				Test Standard: AS1530.4	Codes:	Revision:	Date:	No.:	NOTICE:
Project Title: Unicorn Collar in double layered Plasterboard Walls				Fire resistance level:	Drawn By: MZ				NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm)
Drawing No. : T-UCPW 2	Sheet: 2 of 6	Date: 24/07/2024	Scale: NTS	Based on Report No.:	Checked By: JH	<input type="checkbox"/> STANDARD DRAWING <input type="checkbox"/> PROJECT DRAWING	 <p>TRAFALGAR FIRE Trafalgar Head Office: PO BOX 545 Chester Hill NSW 2162 T: 1800 888 714 F: 1800 201 500 E: technical@tgroup.com.au W: www.tfire.com.au</p>		



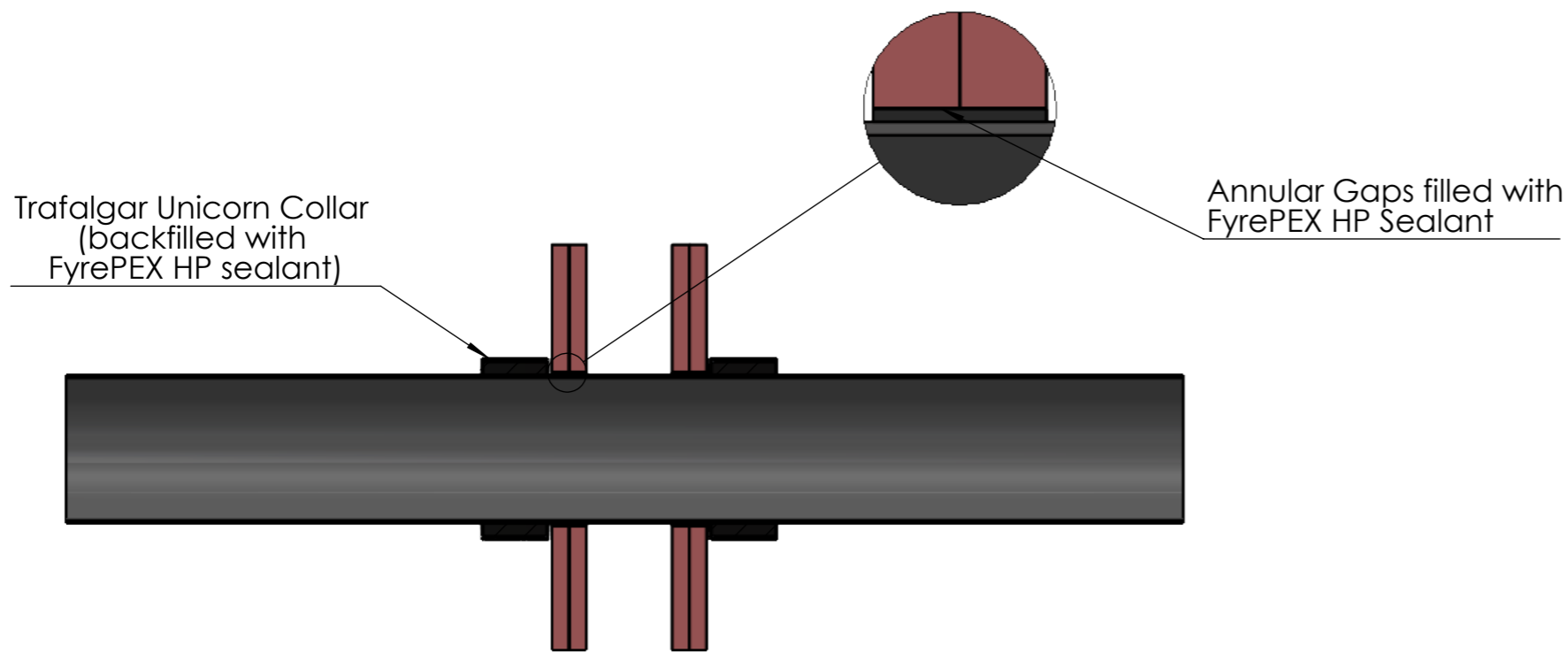
Products	Trafalgar Unicorn Collars Trafalgar FyrePEX HP Sealant
Fire Barrier	2 x13mm fire rated plasterboard wall
Service/s	50mm PVC Pipe
Core Hole	65mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022



Drawing Name: PVC Pipe in the Corner of the Wall				Test Standard: AS1530.4	Codes:	Revision:	Date:	No.:	NOTICE:	
Project Title: Unicorn Collar in double layered Plasterboard Walls				Fire resistance level:	Drawn By: MZ	<small>NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm)</small>				
Drawing No. : T-UCPW 3	Sheet: 3 of 6	Date: 24/07/2024	Scale: NTS	Based on Report No.:	Checked By: JH	<input type="checkbox"/> STANDARD DRAWING <input type="checkbox"/> PROJECT DRAWING				Trafalgar Head Office: PO BOX 545 Chester Hill NSW 2162 T: 1800 888 714 F: 1800 201 500 E: technical@tgroup.com.au W: www.tfire.com.au



Products	Trafalgar Unicorn Collars Trafalgar FyrePEX HP Sealant
Fire Barrier	2 x 13mm fire rated plasterboard wall
Service/s	110mm HDPE Pipe
Core Hole	114mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022



Drawing Name: HDPE Pipe

Project Title: Unicorn Collar in double layered Plasterboard Walls

Drawing No. :
T-UCPW 4

Sheet:
4 of 6

Date:
24/07/2024

Scale:
NTS

Test Standard:
AS1530.4

Fire resistance level:

Based on Report No.:

Codes:

Drawn By:
MZ

Checked By:
JH

Revision:

STANDARD DRAWING
 PROJECT DRAWING

Date:

No.:

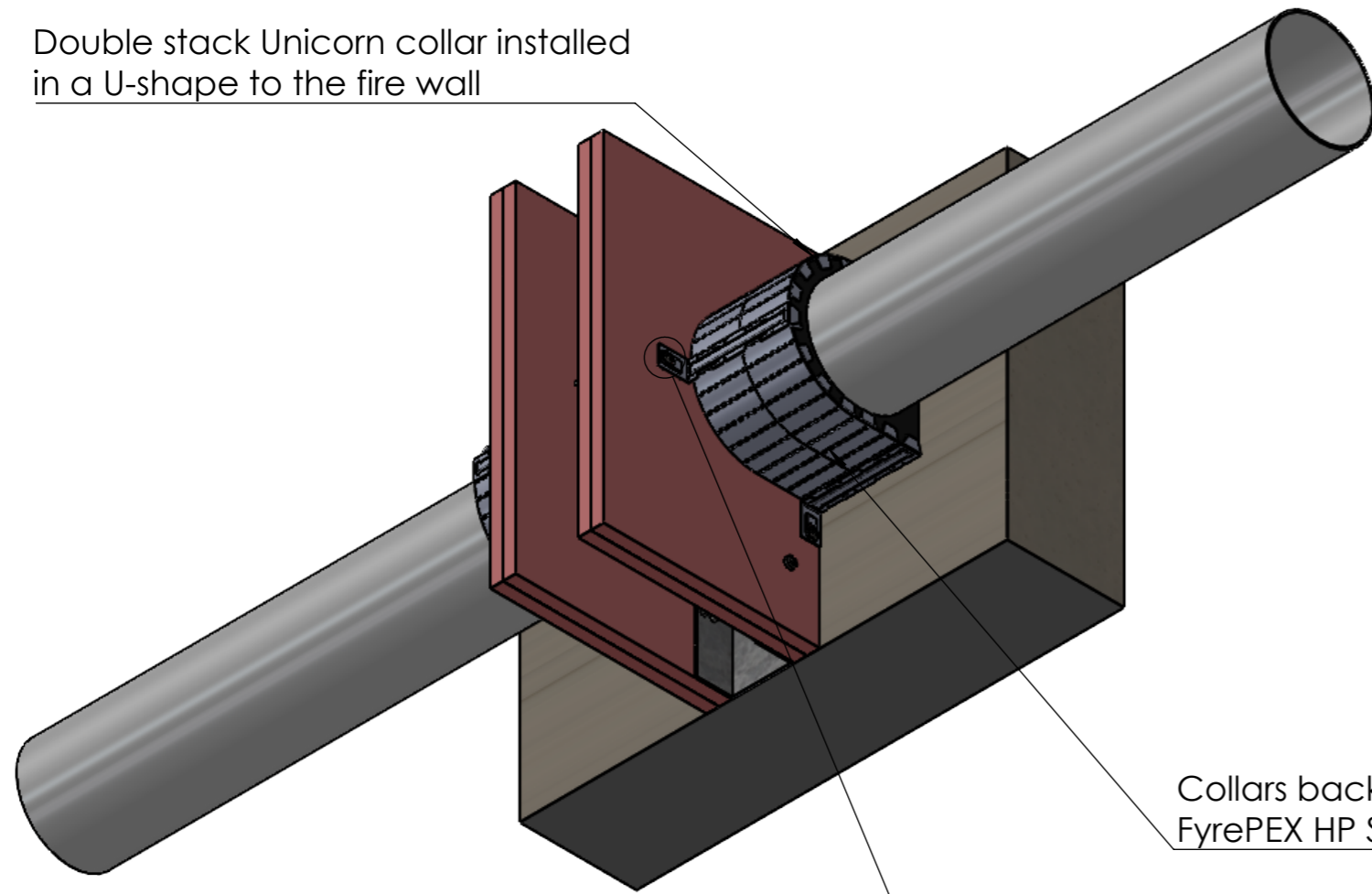
NOTICE:

NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm).

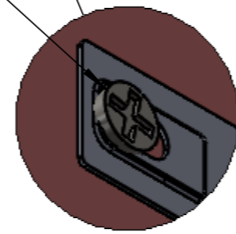


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Double stack Unicorn collar installed in a U-shape to the fire wall

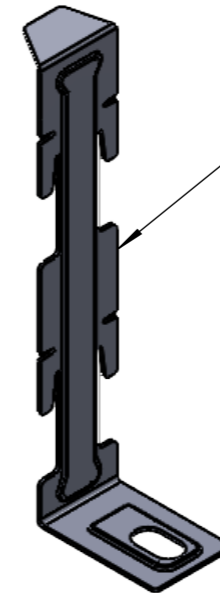


10g x 38 mm plasterboard laminating screws, fixed to a double height tab*



Collar fixing tabs

Products	Trafalgar Unicorn Collars Trafalgar FyrePEX HP Sealant
Fire Barrier	2 x13mm fire rated plasterboard wall
Service/s	100mm PVC Pipe
Core Hole	114mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022



* 3 x Double height collar fixing tab

Drawing Name: PVC Pipe Against the Edge of the Wall

Project Title: Unicorn Collar in double layered Plasterboard Walls

Drawing No. :
T-UCPW 5

Sheet:
5 of 6

Date:
24/07/2024

Scale:
NTS

Test Standard:
AS1530.4

Fire resistance level:

Based on Report No.:

Codes:

Drawn By:
MZ

Checked By:
JH

Revision:

STANDARD DRAWING
 PROJECT DRAWING

Date:

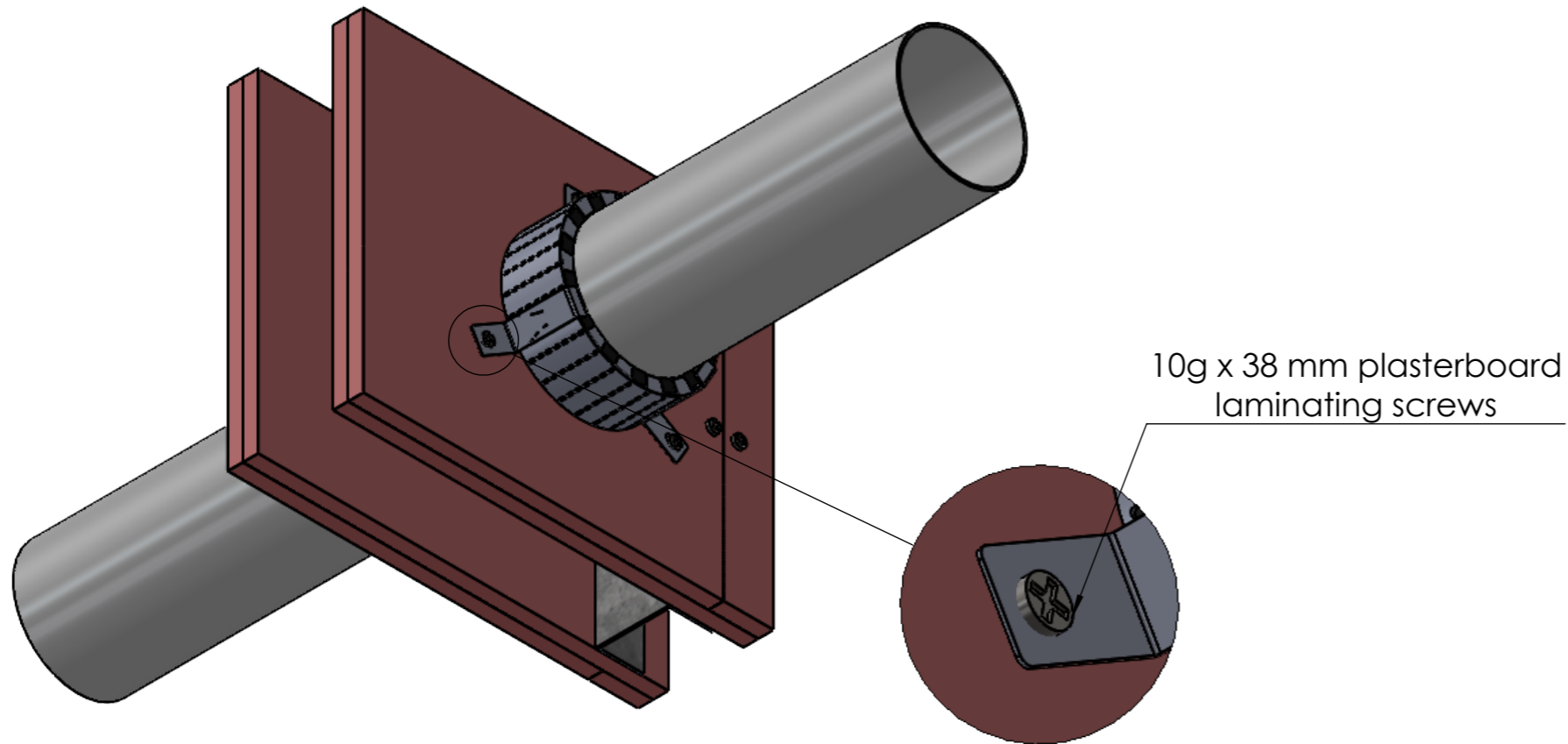
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NOTICE:

NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm)

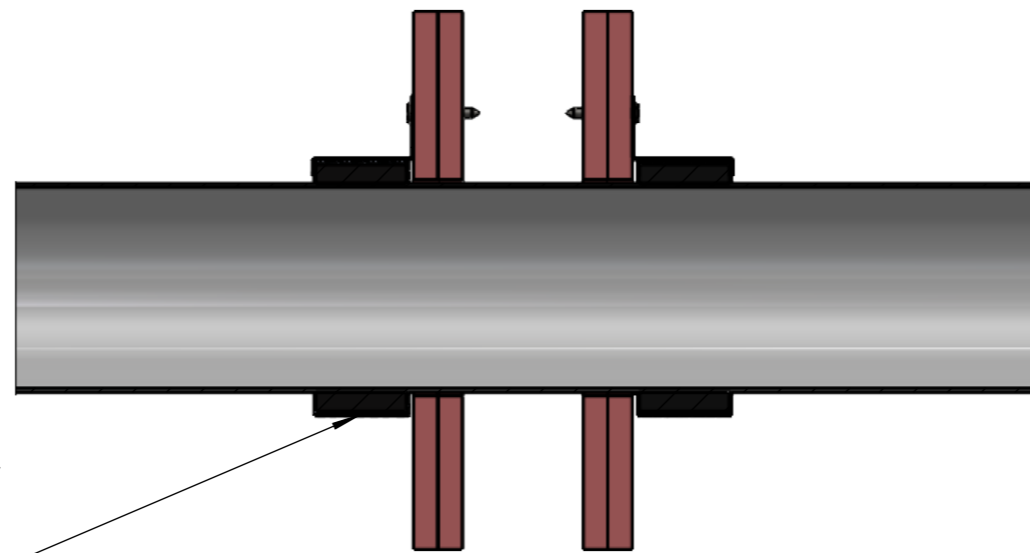


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10g x 38 mm plasterboard laminating screws

3 x Collar fixing tabs



Trafalgar Unicorn Collar (backfilled with FyrePEX HP sealant)

Products	Trafalgar Unicorn Collars Trafalgar FyrePEX HP Sealant
Fire Barrier	2 x 13mm fire rated plasterboard wall
Service/s	100mm PVC Pipe
Core Hole	114mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022

Drawing Name: PVC Pipe

Project Title: Unicorn Collar in double layered Plasterboard Walls

Drawing No. :
T-UCPW 6

Sheet:
6 of 6

Date:
24/07/2024

Scale:
NTS

Test Standard:
AS1530.4

Fire resistance level:

Based on Report No.:

Codes:

Drawn By:
MZ

Checked By:
JH

Revision:

STANDARD DRAWING
 PROJECT DRAWING

Date:

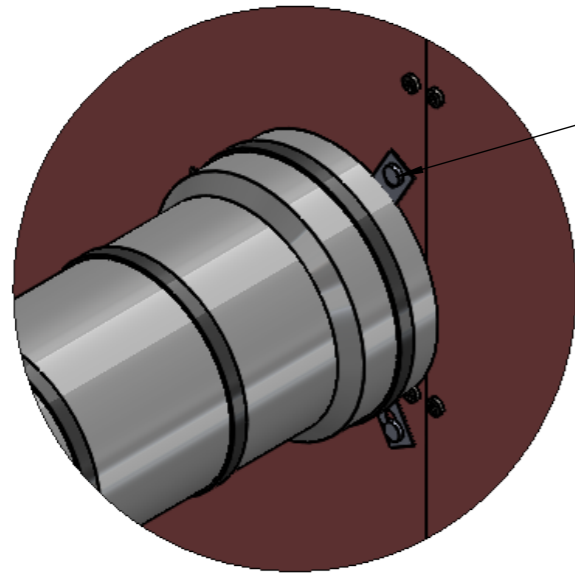
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NOTICE:

NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm).

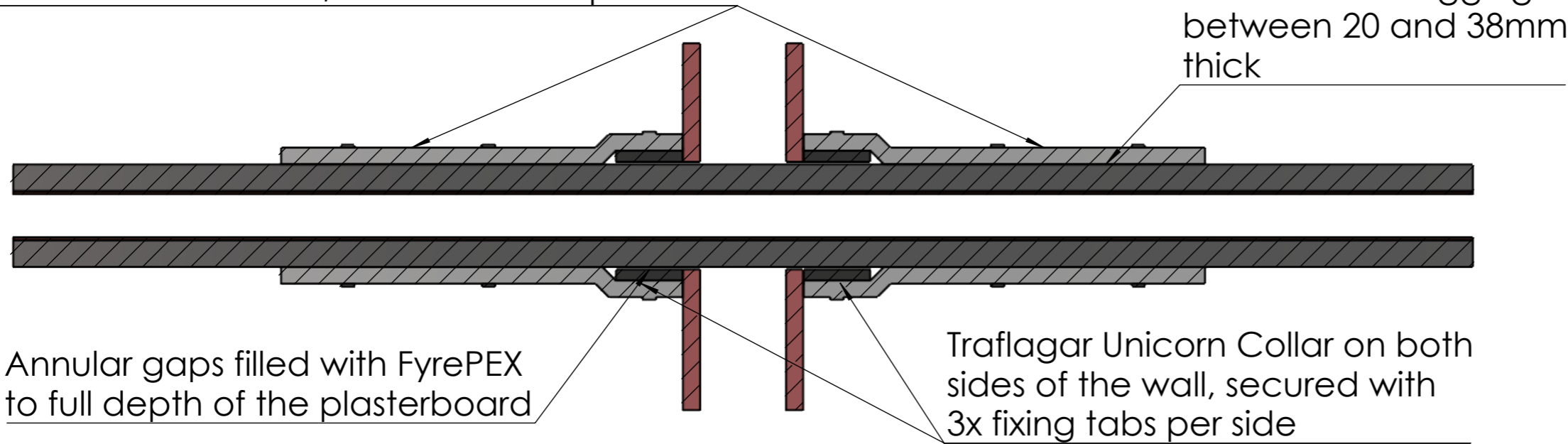


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3x Unicorn tabs secured with 10g x 38mm laminating screws

300mm Servo Wrap overlapping 50mm where it meets itself, and secured with steel cable ties 50mm from each end, and at the midpoint



Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Cut a circular opening in the wall with annular gaps of up to 6mm between the wall and the pipe lagging.
2. Fill annular gap on both sides of the wall to depth of 13mm using FyrePEX HP
3. Cut 2x Unicorn Collars to correct length to fully surround services

4. Install 3x tabs on each collar, fixing to both sides of the wall using 10g x 38mm plasterboard laminating screws
5. Install 300mm of Servowrap on both sides of the wall. Fix with 4.6mm wide stainless steel cable ties 50mm from each end and at 150mm centres inbetween.

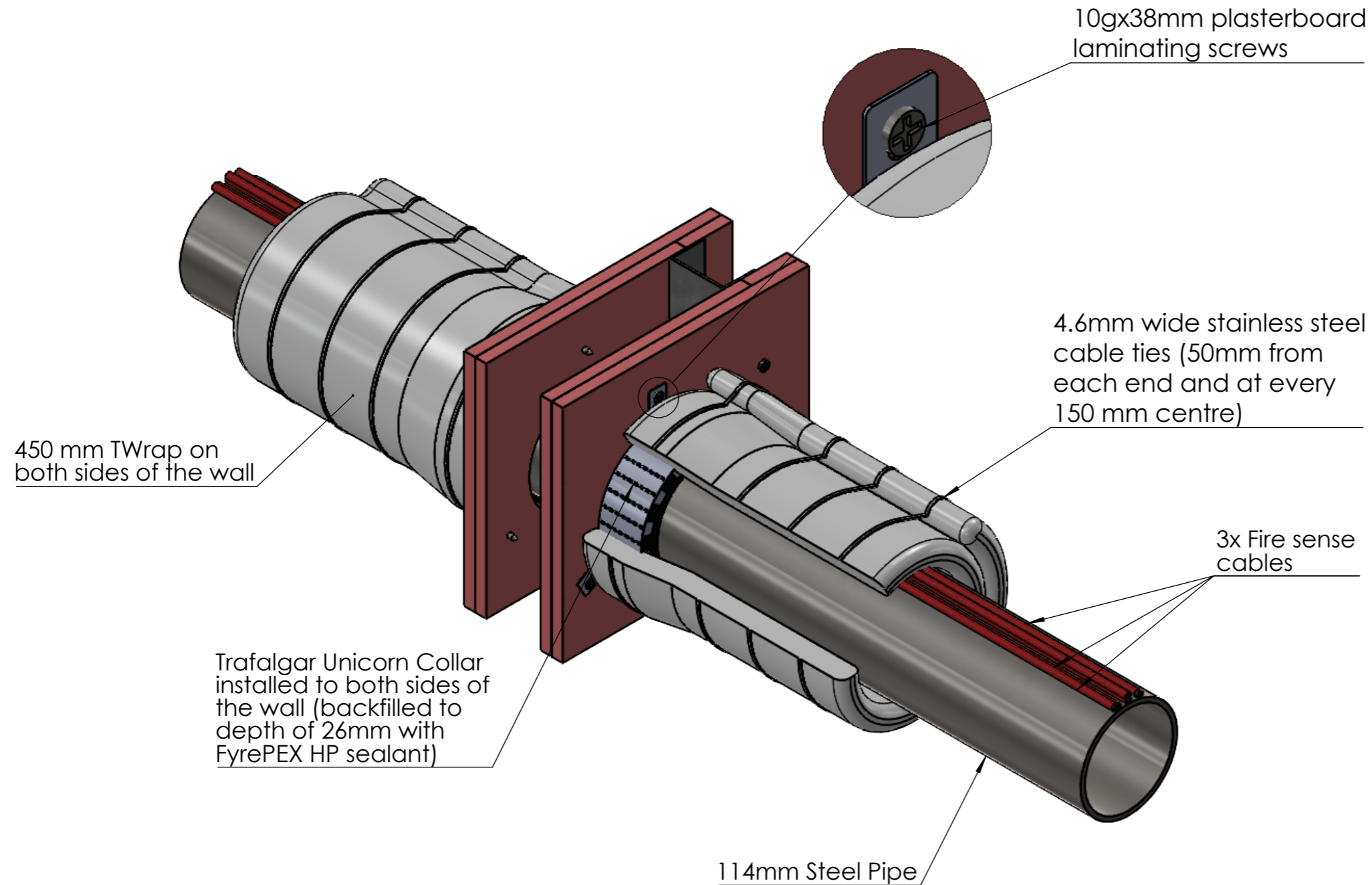
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Application

DN32 lagged copper pipe with thermobreak insulation between 20 and 38mm thick through a single layer 13mm plasterboard wall

Products	Unicorn Collar FyrePEX HP 300mm Servowrap
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00044 Specimen 11, 12
FRL/ FRR	-/60/60
T-Card Number	T00126 Rev. 0
Date	August 2024



Application

100mm nominal size (114mm OD) steel pipes installed with up to 3 Fire sense cables through 2-hour fire walls:

- 2 hour FR plasterboard walls
- 2 hour concrete/masonry walls

Contact 1800 888 714 or technical@tgroup.com.au

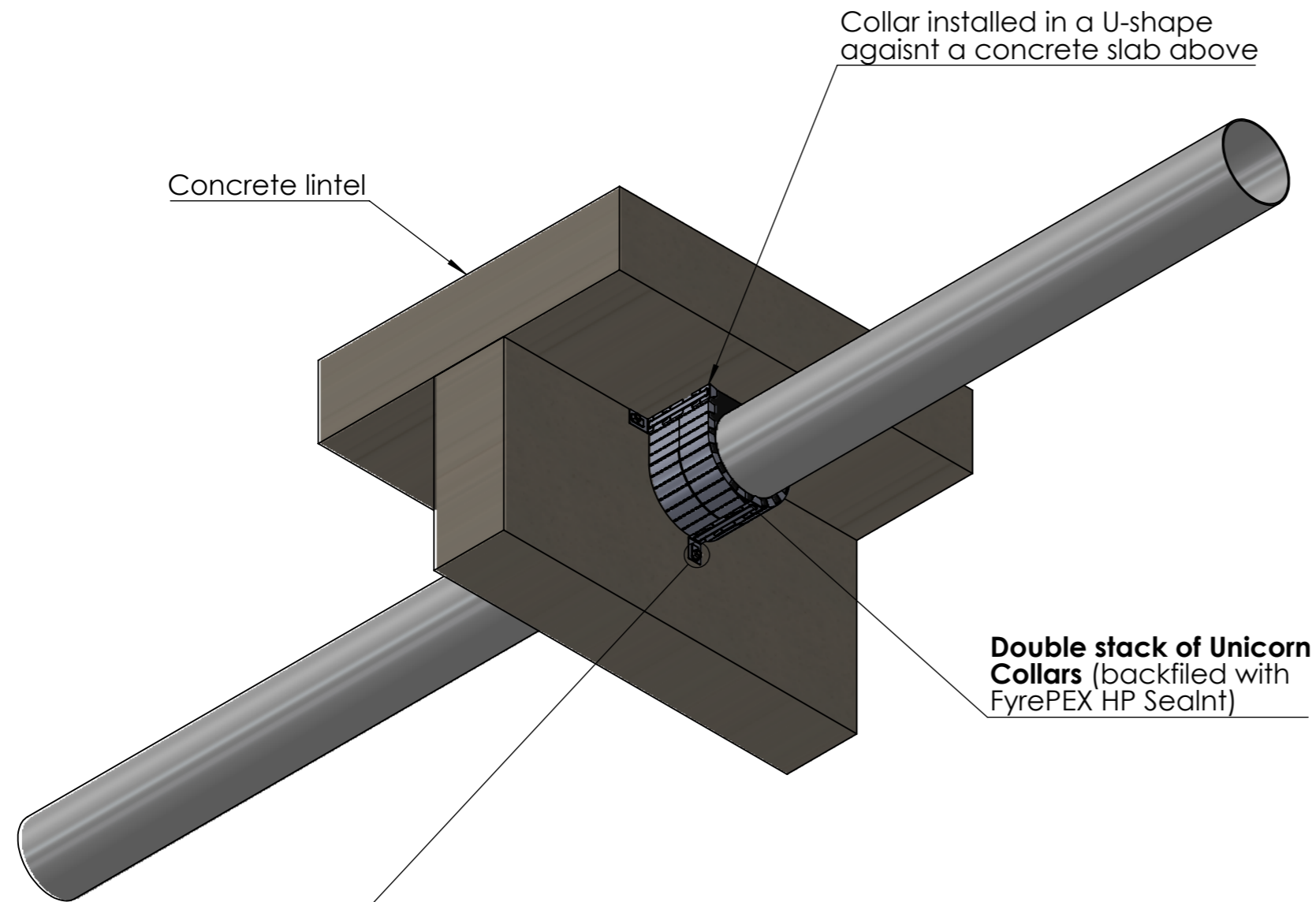
Installation Instructions

1. Cut a circular opening in the wall with annular gaps of up to 5mm between the wall and the pipe. Install up to 3 fire sense cables.
2. Fill annular gap on both sides of the wall to depth of 26mm using FyrePEX HP
3. Cut 2x Unicorn Collars to correct length to fully surround services
4. Install 3x tabs on each collar, fixing to both sides of the wall using 10gx38mm plasterboard laminating screws

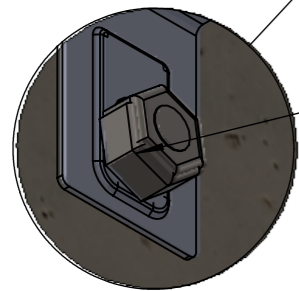
5. Install 450mm of TWrap on both sides of the wall. Fix with 4.6mm wide stainless steel cable ties 50mm from each end and at 150mm centres inbetween

The Information contained within this drawing is believed to be correct on the date of publication, and is based upon tested and certified solutions. Whilst Trafalgar Group will endeavour to keep its publications up to date, the accuracy of the information contained within this drawing may be affected by pertinent changes in the law or regulatory requirements and alterations or amendments to the specification of the manufactured products.

Products	Unicorn Collar FyrePEX HP 450mm TWrap
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00022 Specimen 4
FRL/ FRR	-/120/90
T-Card Number	T000102 Rev. 0.2
Date	August 2024



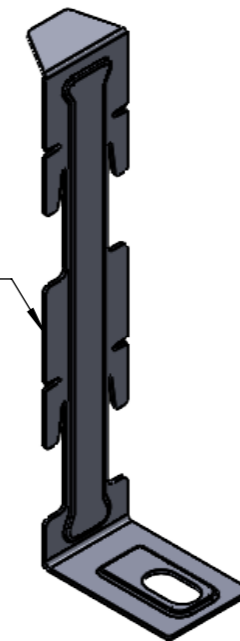
Products	Trafalgar Unicorn Collars (Double Stack) Trafalgar FyrePEX HP Sealant
Fire Barrier	116mm thick concrete/masonry wall
Service/s	100mm PVC Pipe
Core Hole	114mm
Annular Gap	0-5mm
FRL	-/120/90
Test Report	24SFR00022




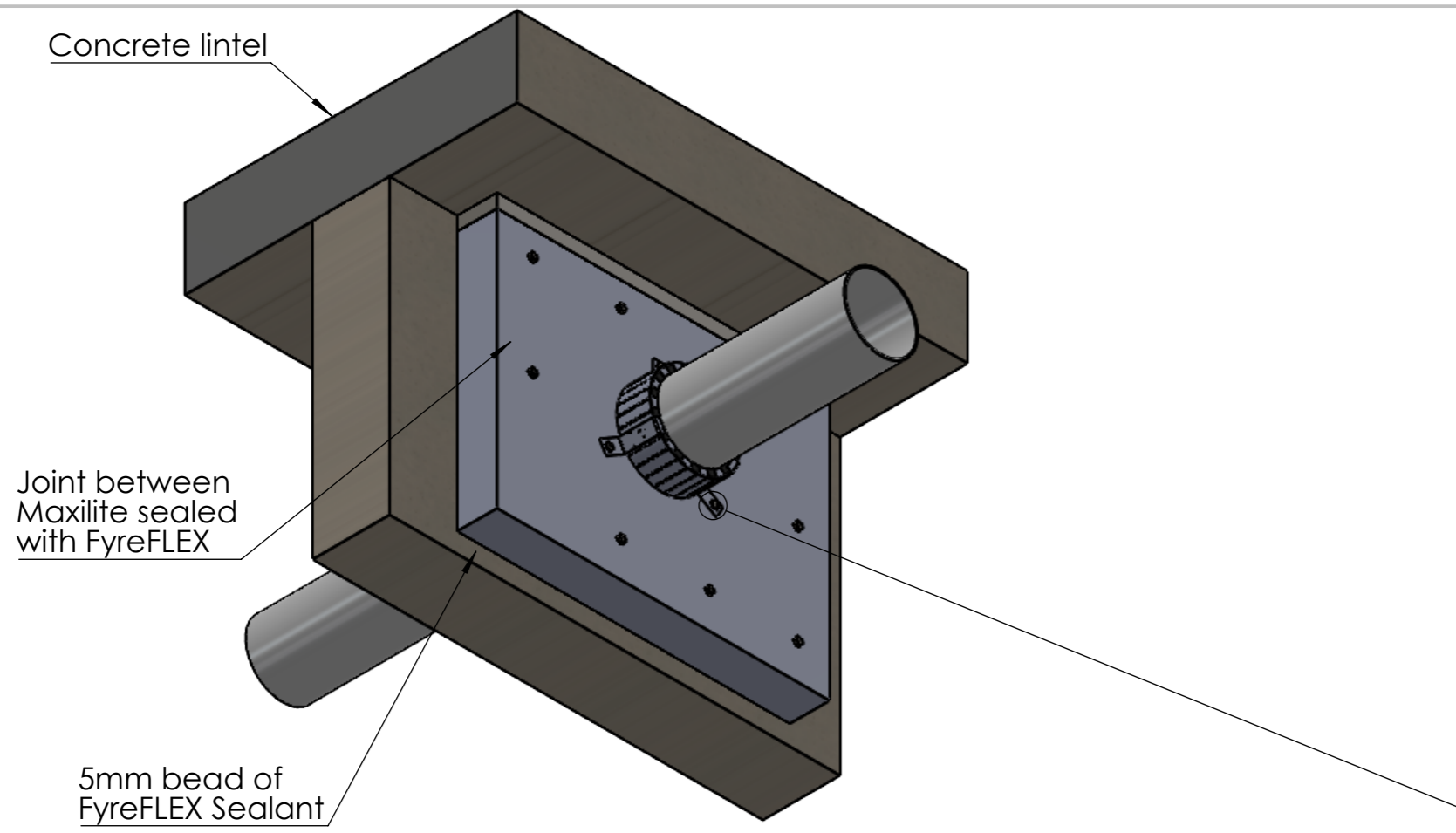
M6x50mm masonry anchors, fixed to a double height tab*

Collar fixing tabs

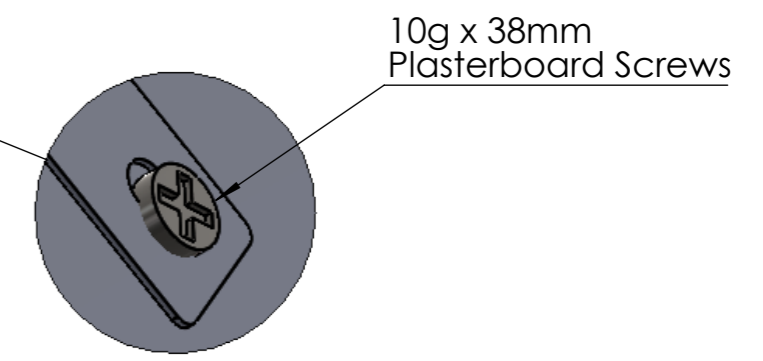
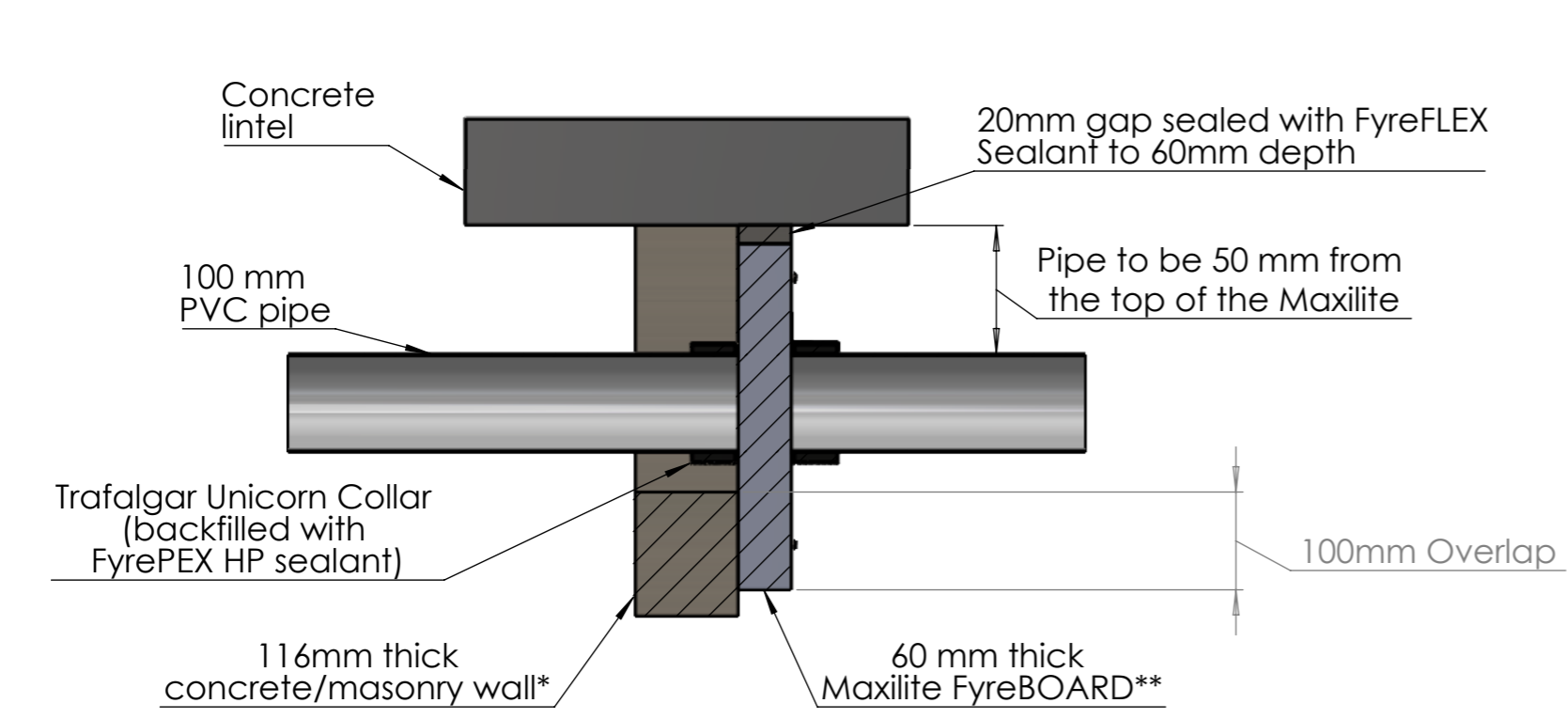
*3 x Double height collar fixing tab



Drawing Name: PVC Pipe at the head of the wall				Test Standard: AS1530.4	Codes:	Revision:	Date:	No.:	NOTICE:
Project Title: Unicorn Collar in Concrete and Masonry Walls				Fire resistance level:	Drawn By: TC	<small>NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm)</small>  TRAFALGAR FIRE <small>Trafalgar Head Office:</small> PO BOX 545 Chester Hill NSW 2162 T: 1800 888 714 F: 1800 201 500 E: technical@tgroup.com.au W: www.tfire.com.au			
Drawing No. : T-UCPW 1	Sheet: 1 of 6	Date: 8/08/2024	Scale: NTS	Based on Report No.:	Checked By: JH				




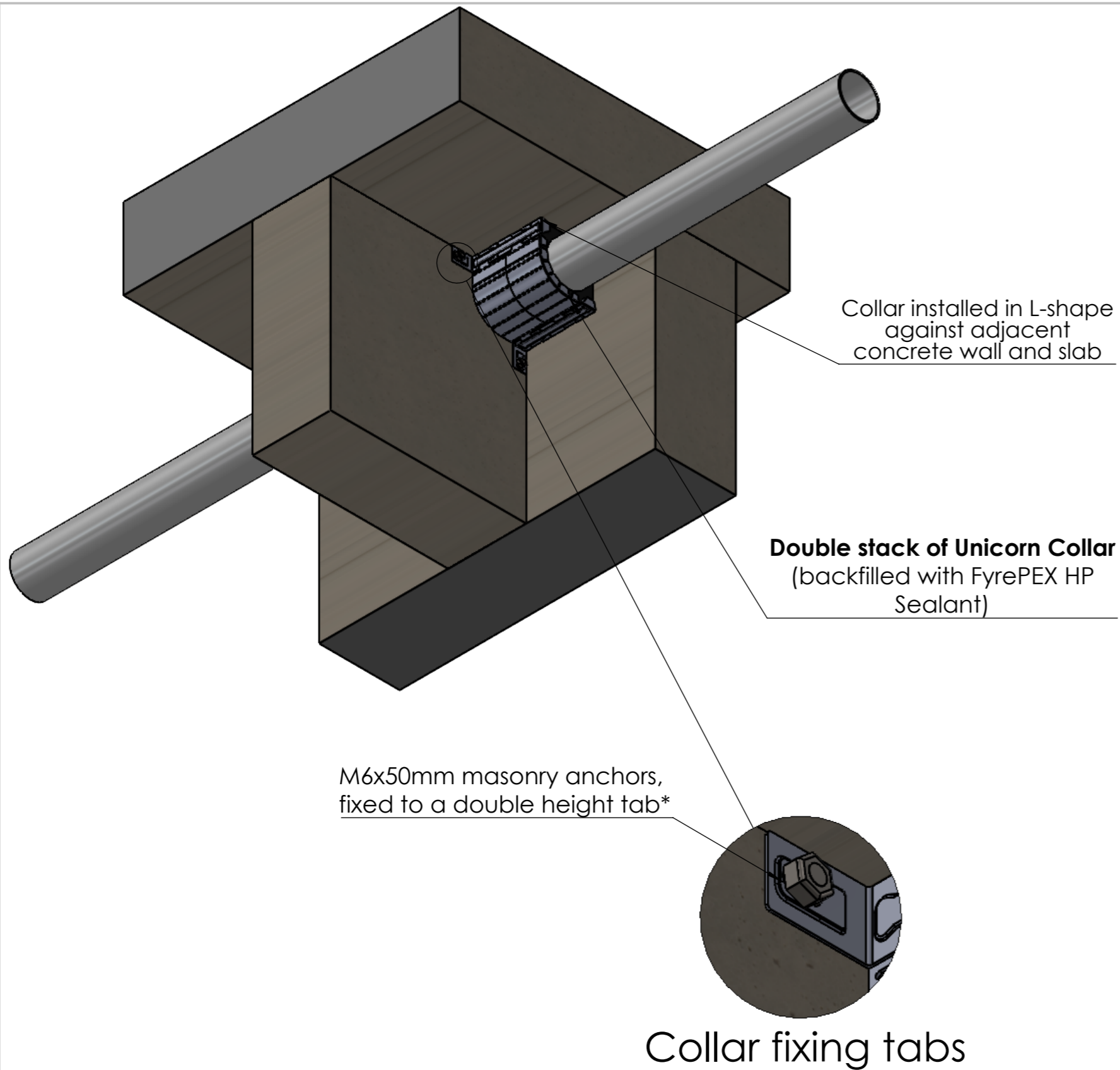
Products	Trafalgar Unicorn Collars Trafalgar FyrePEX HP Sealant
Fire Barrier	60mm Maxilite Board 116mm thick concrete/masonry wall
Service/s	100mm PVC Pipe
Core Hole	114mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022



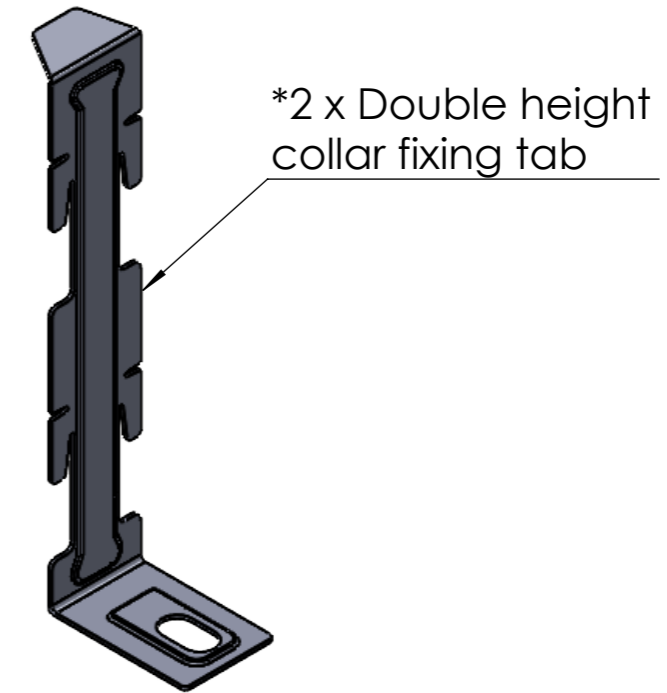
3 x Collar fixing tabs


** The Maxilite is fixed to the concrete wall with M6x100mm masonry anchors at max 200 mm centres.

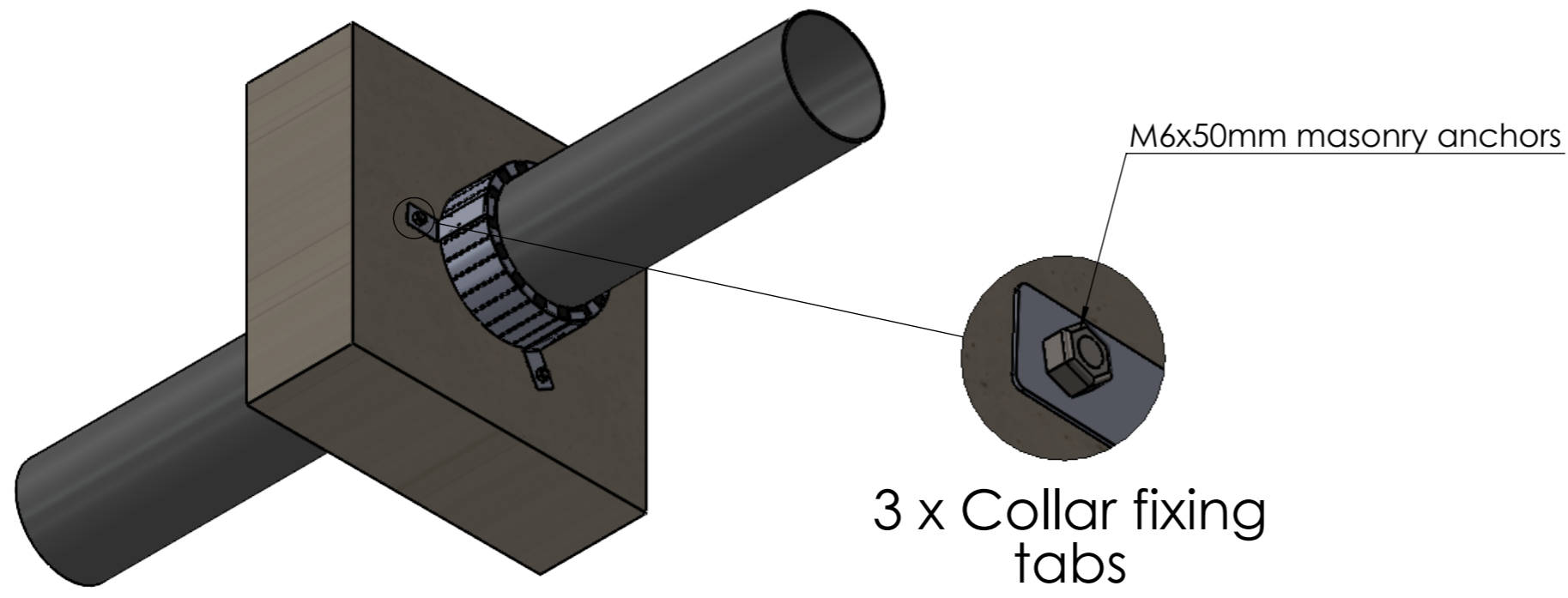
Drawing Name: PVC Pipe in Maxilite				Test Standard: AS1530.4	Codes:	Revision:	Date:	No.:	NOTICE:
Project Title: Unicorn Collar in Concrete and Masonry Walls				Fire resistance level:	Drawn By: TC	<small>NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm)</small>			
Drawing No. : T-UCPW 2	Sheet: 2 of 6	Date: 8/08/2024	Scale: NTS	Based on Report No.:	Checked By: JH	<input type="checkbox"/> STANDARD DRAWING <input type="checkbox"/> PROJECT DRAWING	 <p><small>Trafalgar Head Office: PO BOX 545 Chester Hill NSW 2162 T: 1800 888 714 F: 1800 201 500 E: technical@tgroup.com.au W: www.tfire.com.au</small></p>		



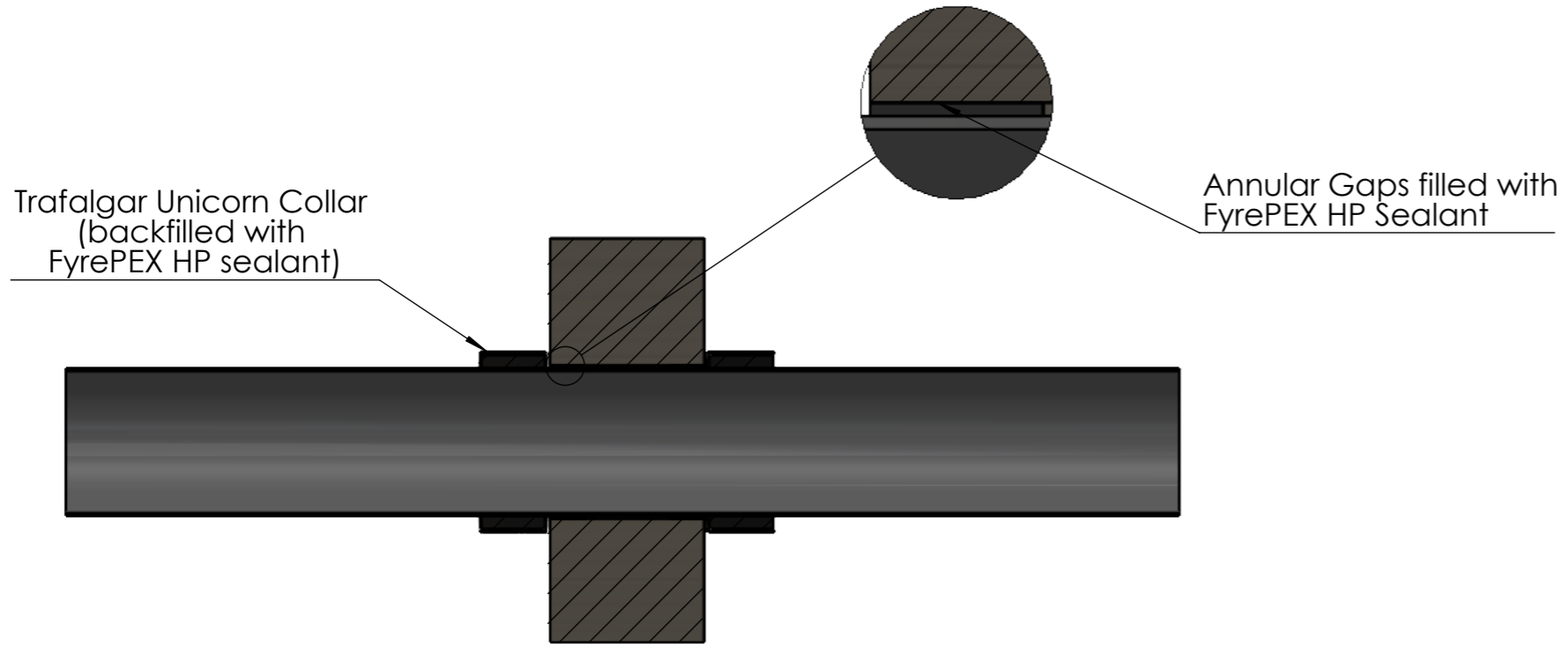
Products	Trafalgar Unicorn Collars (Double Stack) Trafalgar FyrePEX HP Sealant
Fire Barrier	116mm concrete/masonry wall
Service/s	50mm PVC Pipe
Core Hole	65mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022




Drawing Name: PVC Pipe in the Corner of the Wall				Test Standard: AS1530.4	Codes:	Revision:	Date:	No.:	NOTICE:
Project Title: Unicorn Collar in Concrete and Masonry Walls				Fire resistance level:	Drawn By: TC				<small>NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm)</small>
Drawing No. : T-UCPW 3	Sheet: 3 of 6	Date: 8/08/2024	Scale: NTS	Based on Report No.:	Checked By: JH	<input type="checkbox"/> STANDARD DRAWING <input type="checkbox"/> PROJECT DRAWING	 <p>Trafalgar Head Office: PO BOX 545 Chester Hill NSW 2162 T: 1800 888 714 F: 1800 201 500 E: technical@tgroup.com.au W: www.tfire.com.au</p>		

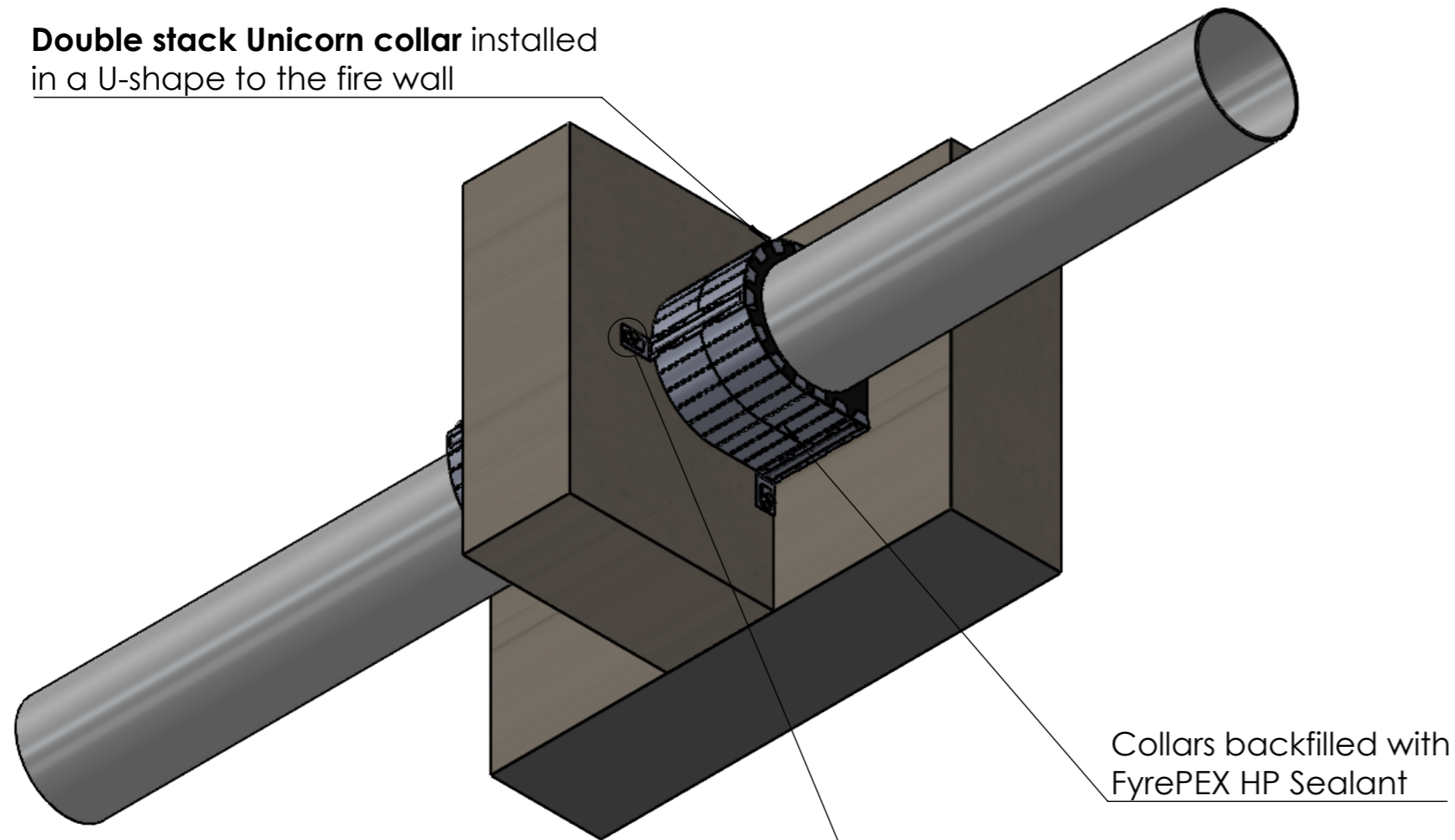


Products	Trafalgar Unicorn Collars Trafalgar FyrePEX HP Sealant
Fire Barrier	116mm concrete/masonry wall
Service/s	110mm HDPE Pipe
Core Hole	114mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022



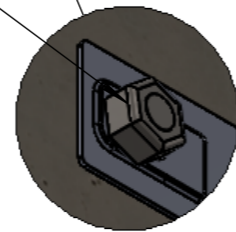
Drawing Name: HDPE Pipe				Test Standard: AS1530.4	Codes:	Revision:	Date:	No.:	NOTICE:
Project Title: Unicorn Collar in Concrete and Masonry Walls				Fire resistance level:	Drawn By: TC				<small>NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm).</small>
Drawing No. : T-UCPW 4	Sheet: 4 of 6	Date: 8/08/2024	Scale: NTS	Based on Report No.:	Checked By: JH	<input type="checkbox"/> STANDARD DRAWING <input type="checkbox"/> PROJECT DRAWING	 <p><small>Trafalgar Head Office:</small> PO BOX 545 Chester Hill NSW 2162 T: 1800 888 714 F: 1800 201 500 E: technical@tgroup.com.au W: www.tfire.com.au</p>		

Double stack Unicorn collar installed in a U-shape to the fire wall

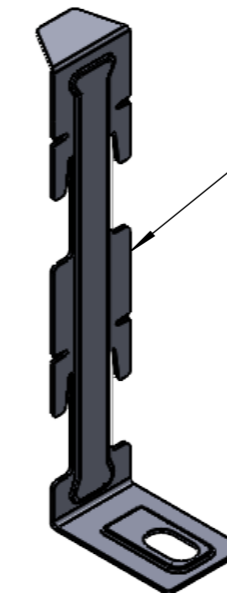


Collars backfilled with FyrePEX HP Sealant

M6x50mm masonry anchors, fixed to a double height tab*



Collar fixing tabs



* 3 x Double height collar fixing tab

Products	Trafalgar Unicorn Collars (Double Stack) Trafalgar FyrePEX HP Sealant
Fire Barrier	116mm concrete/masonry wall
Service/s	100mm PVC Pipe
Core Hole	114mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022

Drawing Name: PVC Pipe Against the Edge of the Wall

Project Title: Unicorn Collar in Concrete and Masonry Walls

Drawing No. :
T-UCPW 5

Sheet:
5 of 6

Date:
8/08/2024

Scale:
NTS

Test Standard:
AS1530.4

Fire resistance level:

Based on Report No.:

Codes:

Drawn By:
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Checked By:
JH

Revision:

STANDARD DRAWING
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Date:

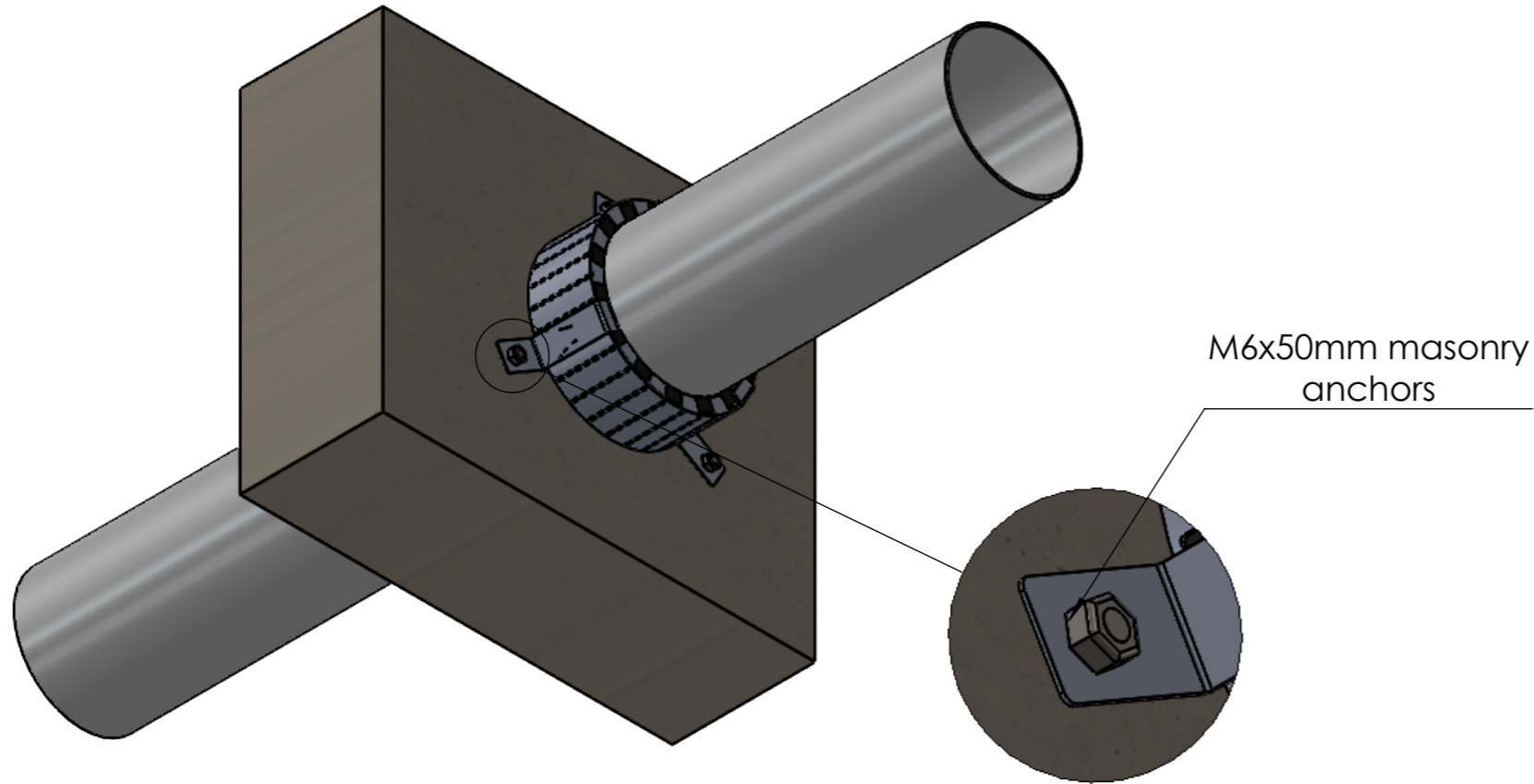
No.:

NOTICE:

NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm)

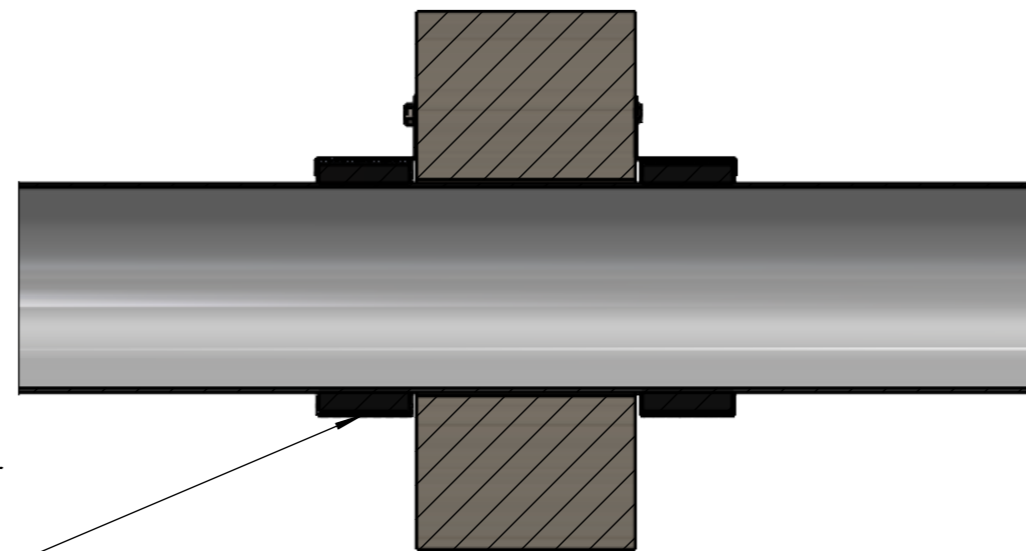


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M6x50mm masonry anchors

3 x Collar fixing tabs



Trafalgar Unicorn Collar (backfilled with FyrePEX HP sealant)

Products	Trafalgar Unicorn Collars Trafalgar FyrePEX HP Sealant
Fire Barrier	116mm concrete/masonry wall
Service/s	100mm PVC Pipe
Core Hole	114mm
Annular Gap	0-2mm
FRL	-/120/120
Test Report	24SFR00022

Drawing Name: PVC Pipe

Project Title: Unicorn Collar in Concrete and Masonry Walls

Drawing No. :
T-UCPW 6

Sheet:
6 of 6

Date:
8/08/2024

Scale:
NTS

Test Standard:
AS1530.4

Fire resistance level:

Based on Report No.:

Codes:

Drawn By:
TC

Checked By:
JH

Revision:

STANDARD DRAWING
 PROJECT DRAWING

Date:

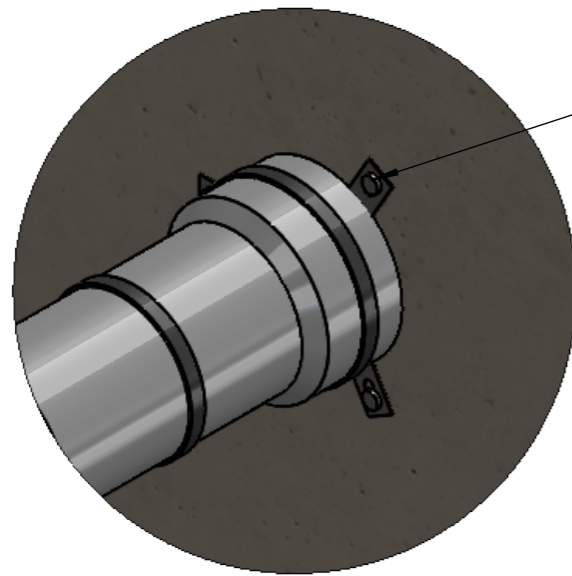
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NOTICE:

NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm).



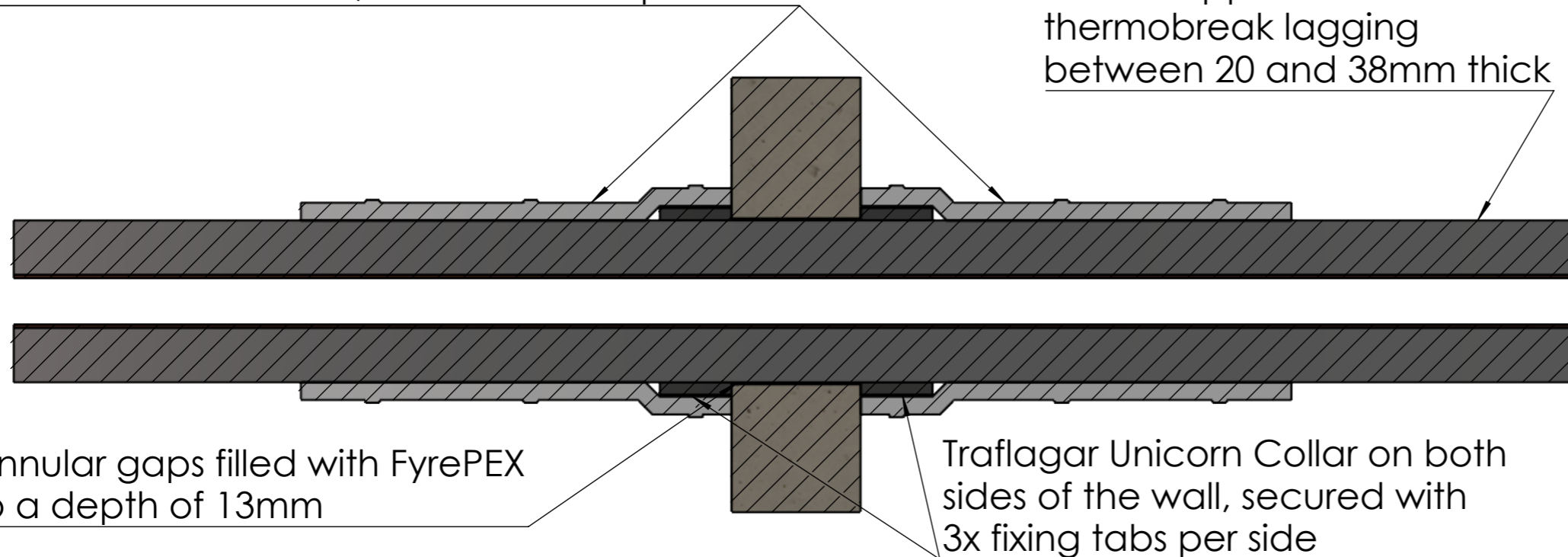
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W: www.tfire.com.au



3x Unicorn tabs secured with M6x50mm masonry anchors

300mm Servo Wrap overlapping 50mm where it meets itself, and secured with steel cable ties 50mm from each end, and at the midpoint

DN32 Copper + thermobreak lagging between 20 and 38mm thick



Annular gaps filled with FyrePEX to a depth of 13mm

Traflagar Unicorn Collar on both sides of the wall, secured with 3x fixing tabs per side

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Cut a circular opening in the wall with annular gaps of up to 6mm between the wall and the pipe lagging.
2. Fill annular gap on both sides of the wall to depth of 13mm using FyrePEX HP
3. Cut 2x Unicorn Collars to correct length to fully surround services

4. Install 3x tabs on each collar, fixing to both sides of the wall using 10g x 38mm plasterboard laminating screws
5. Install 300mm of Servowrap on both sides of the wall. Fix with 4.6mm wide stainless steel cable ties 50mm from each end and at 150mm centres inbetween.

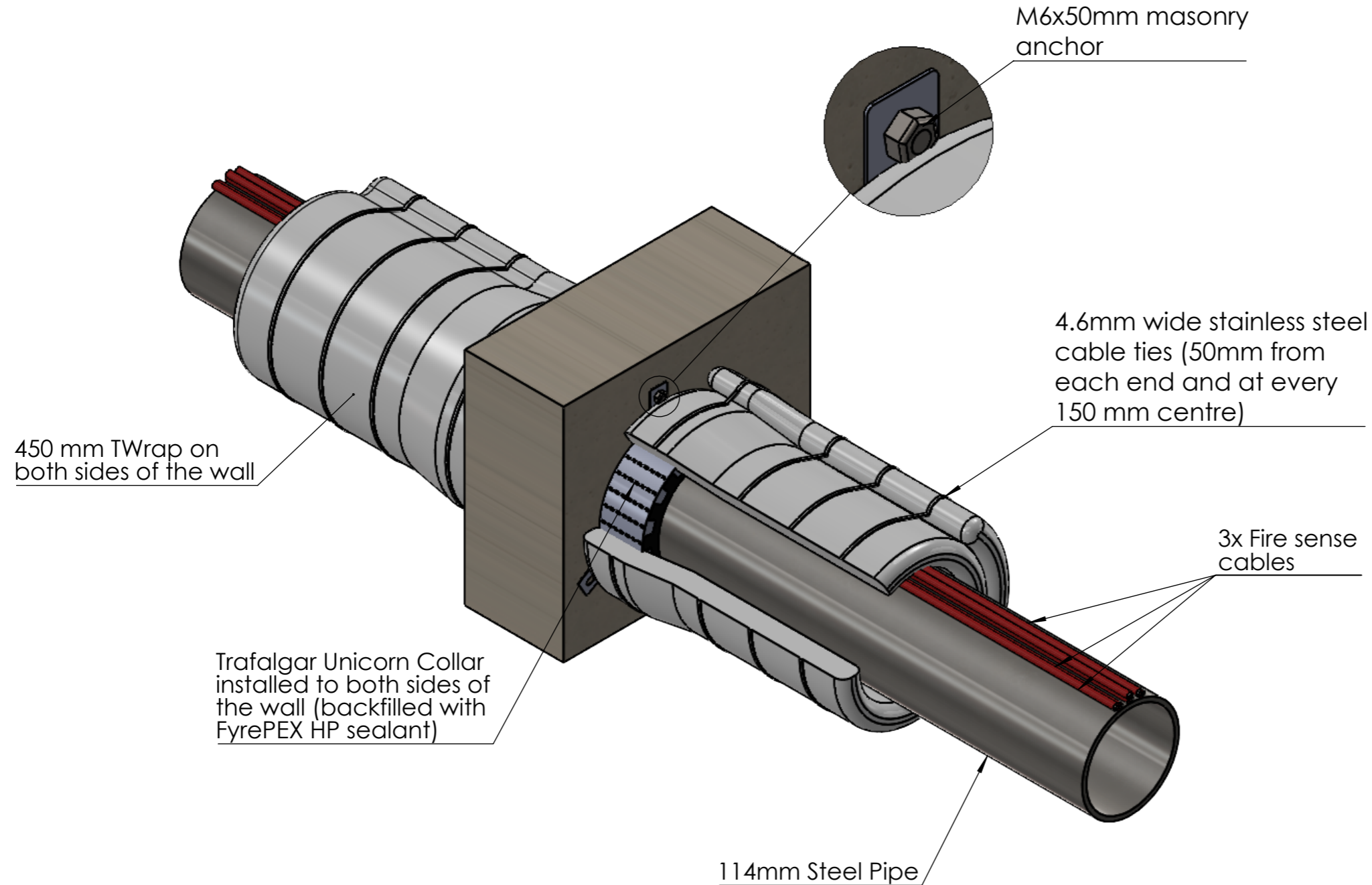
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Application

DN32 lagged copper pipe with thermobreak insulation between 20 and 38mm thick through a minimum 90mm thick concrete wall

Products	Unicorn Collar FyrePEX HP 300mm Servowrap
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00044 Specimen 11, 12
FRL/ FRR	-/60/60
T-Card Number	T00127 Rev. 0
Date	August 2024



Application

100mm nominal size (114mm OD) steel pipes installed with up to 3 Fire sense cables through 2-hour fire walls:

- 2 hour FR plasterboard walls
- 2 hour concrete/masonry walls

Contact 1800 888 714 or technical@tgroup.com.au

Installation Instructions

1. Cut a circular opening in the wall with annular gaps of up to 5mm between the wall and the pipe. Install up to 3 fire sense cables.
2. Fill annular gap on both sides of the wall to depth of 26mm using FyrePEX HP
3. Cut 2x Unicorn Collars to correct length to fully surround services
4. Install 3x tabs on each collar, fixing to both sides of the wall using M6x50mm masonry anchors

5. Install 450mm of TWrap on both sides of the wall. Fix with 4.6mm wide stainless steel cable ties 50mm from each end and at 150mm centres inbetween

The Information contained within this drawing is believed to be correct on the date of publication, and is based upon tested and certified solutions. Whilst Trafalgar Group will endeavour to keep its publications up to date, the accuracy of the information contained within this drawing may be affected by pertinent changes in the law or regulatory requirements and alterations or amendments to the specification of the manufactured products.

Products	Unicorn Collar FyrePEX HP 450mm TWrap
Standard	AS1530.4:2014 AS4072.1:2005
Report Reference	24SFR00022 Specimen 4
FRL/ FRR	-/120/90
T-Card Number	T000102 Rev. 0.2
Date	August 2024