

# KOROK

FIRE AND ACOUSTIC WALL SYSTEMS



## FIRE STOPPING FOR KOROK® WALL SYSTEMS

# KOROK® WALLS

KOROK® is a clever panel wall system comprised of a lightweight core and a reinforcing steel shell that is very quick to install. AS1530.4 requires fire-stopping penetration systems to be fire-tested and/or assessed to determine the FRL of the specific penetration in different wall types. The systems in this datasheet have been tested and approved specifically for use in KOROK® wall systems, providing compliance under the NZBC.

## FEATURED PRODUCTS

- Ryanbatt 502
- Ryanfire Mastic
- Ryanfire HP-X
- Ryanspan
- Ryanfire SL Collar
- Ryanfire Graphite Strap
- Servowrap
- Ryanfire Rokwrap
- FyreSHIELD™ Access Panel

## APPLICATIONS AND SERVICES

- Power and Data Cables
- PVC Pipes & Sockets
- PVC Conduits
- Metal Pipes
- Insulated Metal Pipes
- HVAC Bundles
- PEX Pipes
- PEX-AL-PEX Pipes
- Structural Steel
- Vertical Linear Gaps
- Blank Apertures
- Access Panels





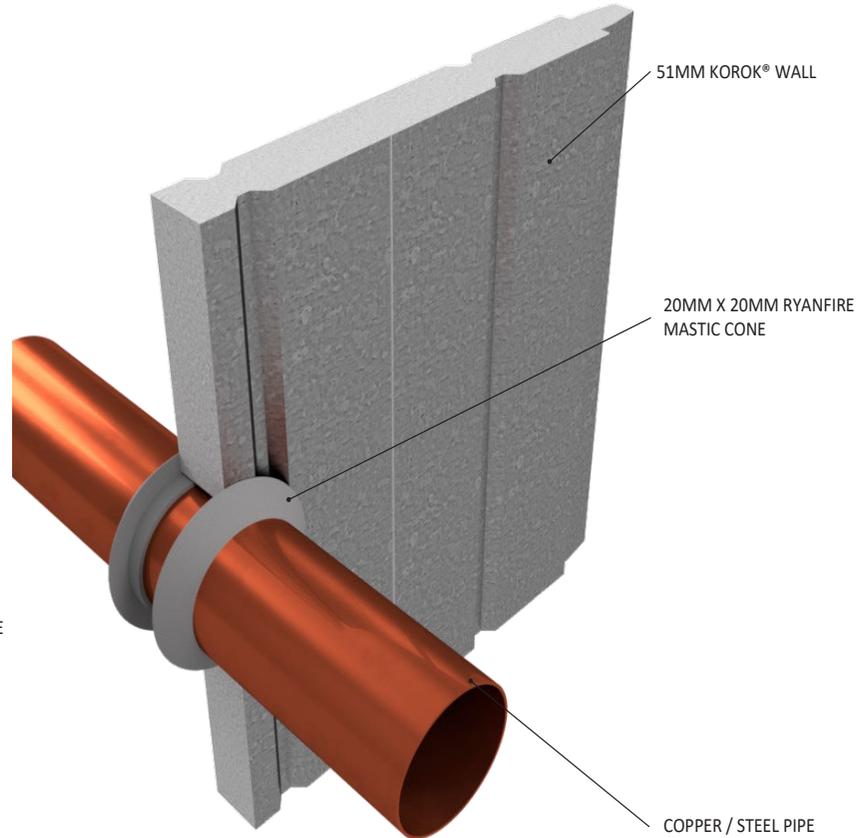
# 60 MINUTE APPLICATIONS

## 51MM KOROK® WALL



**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. APPLY RYANFIRE MASTIC INTO THE ANNULAR GAP BETWEEN THE METAL PIPE AND THE KOROK® WALL.
3. APPLY A 20MM X 20MM CONE OF RYANFIRE MASTIC AROUND THE JUNCTION BETWEEN THE METAL PIPE AND THE KOROK® WALL.
4. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



**Products:** RYANFIRE MASTIC  
**Approvals:** AS 1530.4:2014/AS 4072.1:2005  
**BK:** 165  
**Ref:** 22SFR00058  
**ID:** D-F

**Scenario:** Penetration seal to copper / steel pipes

**Services:** Up to Ø100mm copper pipes  
 Up to Ø150mm steel pipes

**Annular:** 0 - 9mm

**Construction:** 51mm KOROK® wall

**Fire Integrity:** 60 minutes

**Fire Insulation:** 0 minutes

Web based drawings are for example only. Fire performance of any system is dependant on, but not limited to size of opening, substrate, if penetrations are passing through, type, size and number. Please refer to Ryanfire technical department for detailed and specific fire performance information.



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 info@ryanfire.co.nz - Tel 09 443 0362

Drawing Title  
**Ryanfire Mastic to copper/steel pipes  
 51mm KOROK® wall**

Scale	Date
<b>NTS</b>	<b>April 2025</b>

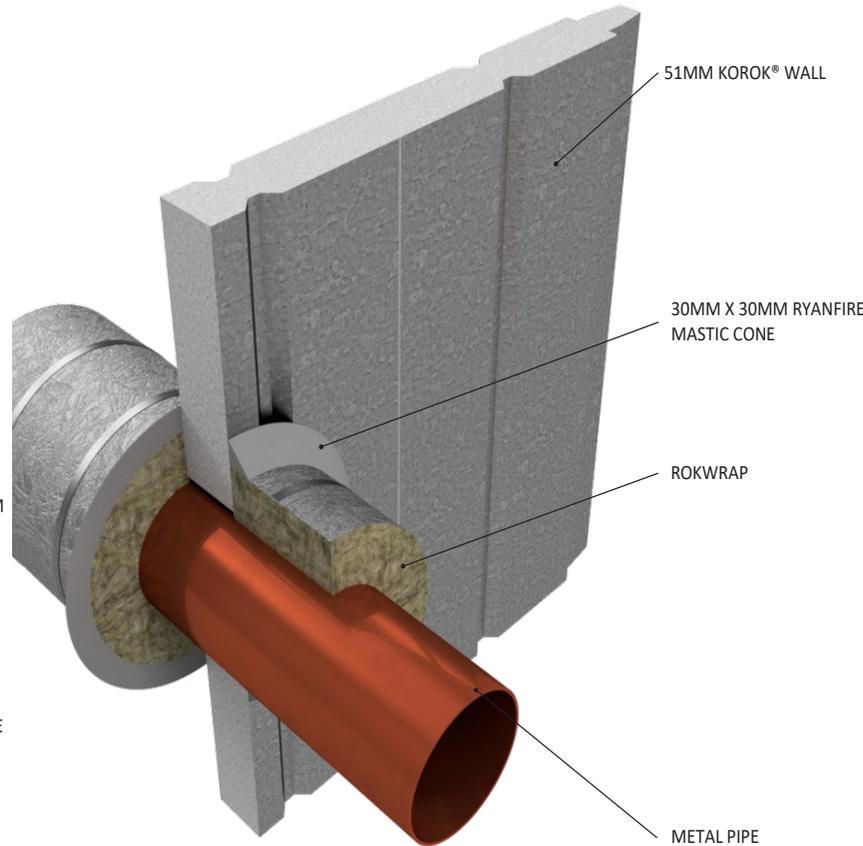
Drawing Number	Rev
<b>V1.12</b>	<b>3.0</b>

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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. WRAP 1000MM WIDE X 4MM THICK RYANFIRE ROKWRAP TIGHTLY AROUND THE PIPE WITH A 100MM OVERLAP.
3. SECURE THE ROKWRAP INTO PLACE WITH STEEL CABLE TIES, 50MM FROM EACH END, AND AT MINIMUM 150MM CENTRES. SEAL ANY EXPOSED EDGES OF THE ROKWRAP WITH FOIL TAPE.
4. APPLY A 30MM X 30MM CONE OF RYANFIRE MASTIC AROUND THE JUNCTION BETWEEN THE WRAPPED METAL PIPE AND THE KOROK® WALL.
5. CLEAN ANY EXCESS MASTIC WITH A DAMP CLOTH.
6. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



<b>Products:</b>	RYANFIRE MASTIC RYANFIRE ROKWRAP
<b>Approvals:</b>	AS 1530.4:2014/AS 4072.1:2005
<b>BK:</b>	210
<b>Ref:</b>	23SFR00034
<b>ID:</b>	A - C
<b>Scenario:</b>	Penetration seal to AS1530.4 Appendix E non-combustible pipes
<b>Services:</b>	Up to Ø100mm brass pipes Up to Ø150mm copper/steel pipes
<b>Annular:</b>	0 - 7mm
<b>Construction:</b>	51mm KOROK® wall
<b>Fire Resistance:</b>	Ø32mm Copper : -/60/60 Ø150mm Copper : -/60/60 Ø100mm Brass : -/60/30

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Drawing Title  
**Ryanfire Rokwrap to metal pipes  
51mm KOROK® wall**

Scale	Date
<b>NTS</b>	<b>April 2025</b>

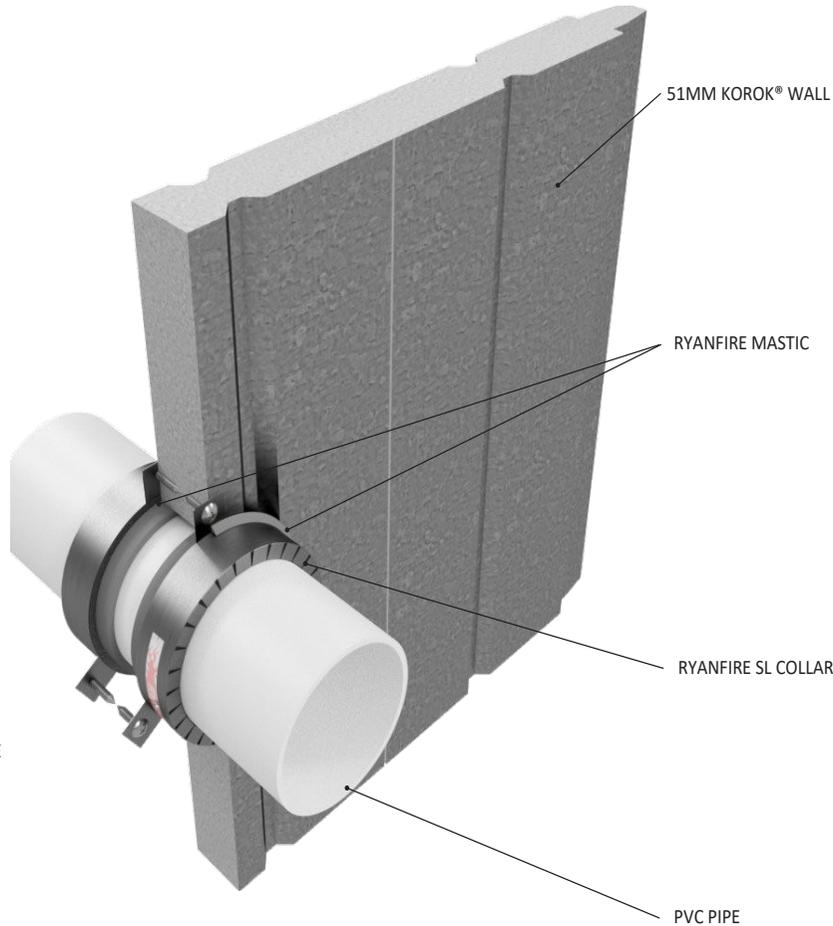
Drawing Number	Rev
<b>V1.18</b>	<b>3.0</b>

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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. SELECT THE CORRECT SIZE RYANFIRE SL COLLAR TO FIT AROUND THE PVC PIPE.
3. APPLY RYANFIRE MASTIC INTO THE ANNULAR GAP BETWEEN THE PVC PIPE AND THE KOROK® WALL.
4. SECURE THE SL COLLAR AROUND THE PIPE AND SLIDE IT UP UNTIL IT IS FLUSH WITH THE SURFACE OF THE WALL. FIX THE COLLAR INTO PLACE USING 12G X 30MM TEK SCREWS.
5. APPLY A NOMINAL 5MM BEAD OF RYANFIRE MASTIC AROUND THE JOINT BETWEEN THE SL COLLAR AND THE KOROK® WALL.
6. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



**Products:** RYANFIRE SL COLLAR  
RYANFIRE MASTIC  
**Approvals:** AS 1530.4:2014/AS 4072.1:2005  
**BK:** 162  
**Ref:** 22SFR00057  
**ID:** A-D, F

**Scenario:** Penetration seal to PVC pipe

**Services:** Up to Ø150mm uPVC pipes

**Construction:** 51mm KOROK® wall

**Fire Resistance:** Ø50mm : -/60/60  
Ø65mm : -/60/45  
Ø80mm : -/60/60  
Ø100mm : -/60/60  
Ø150mm : -/60/60

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Drawing Title  
**SL Collar to PVC pipes**  
**51mm KOROK® wall**

Scale	NTS	Date	April 2025
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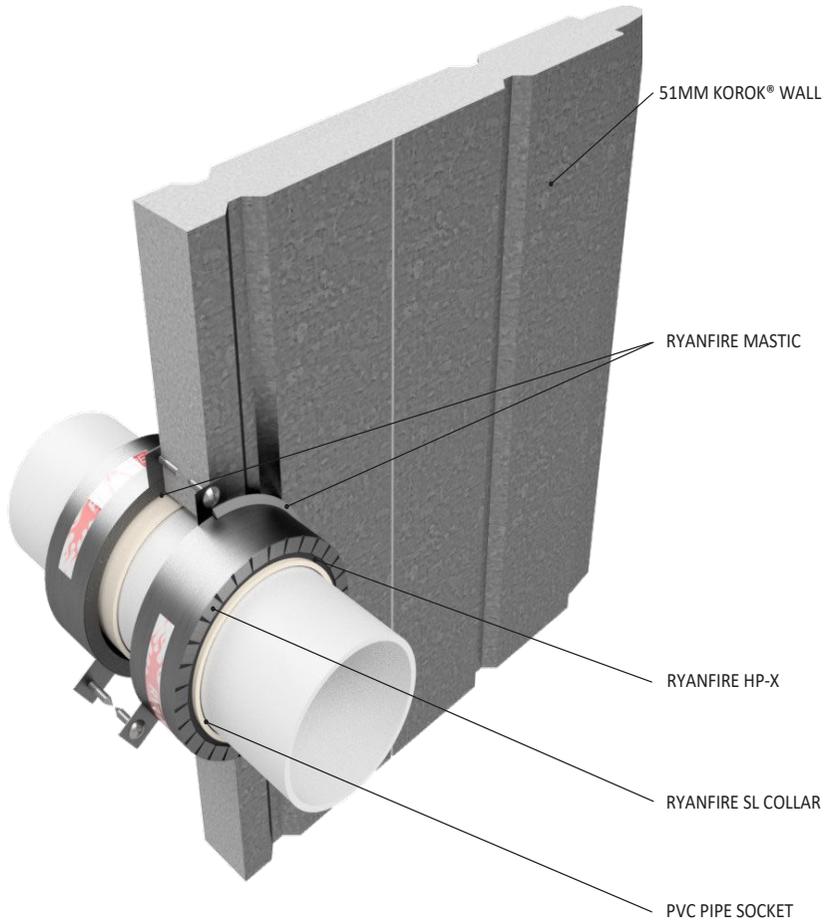
Drawing Number	V21.25	Rev	3.0
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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. SELECT THE CORRECT SIZE RYANFIRE SL COLLAR TO FIT AROUND THE PVC PIPE.
3. APPLY RYANFIRE MASTIC INTO THE ANNULAR GAP BETWEEN THE PVC PIPE AND THE KOROK® WALL.
4. SECURE THE SL COLLAR AROUND THE PIPE AND SLIDE IT UP UNTIL IT IS FLUSH WITH THE SURFACE OF THE WALL. FIX THE COLLAR INTO PLACE USING 12G X 30MM TEK SCREWS.
5. APPLY RYANFIRE HP-X INTO THE ANNULAR GAP BETWEEN THE SOCKET AND THE SL COLLAR, TO THE FULL DEPTH OF THE COLLAR.
6. APPLY A NOMINAL 5MM BEAD OF RYANFIRE MASTIC AROUND THE JOINT BETWEEN THE SL COLLAR AND THE KOROK® WALL.
7. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



<b>Products:</b>	RYANFIRE SL COLLAR RYANFIRE HP-X RYANFIRE MASTIC
<b>Approvals:</b>	AS 1530.4:2014/AS 4072.1:2005
<b>BK:</b>	162
<b>Ref:</b>	225FR00057
<b>ID:</b>	E, G
<b>Scenario:</b>	Penetration seal to PVC pipes + socket joint
<b>Services:</b>	Up to Ø100mm PVC pipes + socket joint
<b>Construction:</b>	51mm KOROK® wall
<b>Fire Resistance:</b>	Ø40mm : -/60/60 Ø100mm : -/60/60

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Drawing Title  
**SL Collar to PVC socket  
51mm KOROK® wall**

Scale	Date
<b>NTS</b>	<b>April 2025</b>

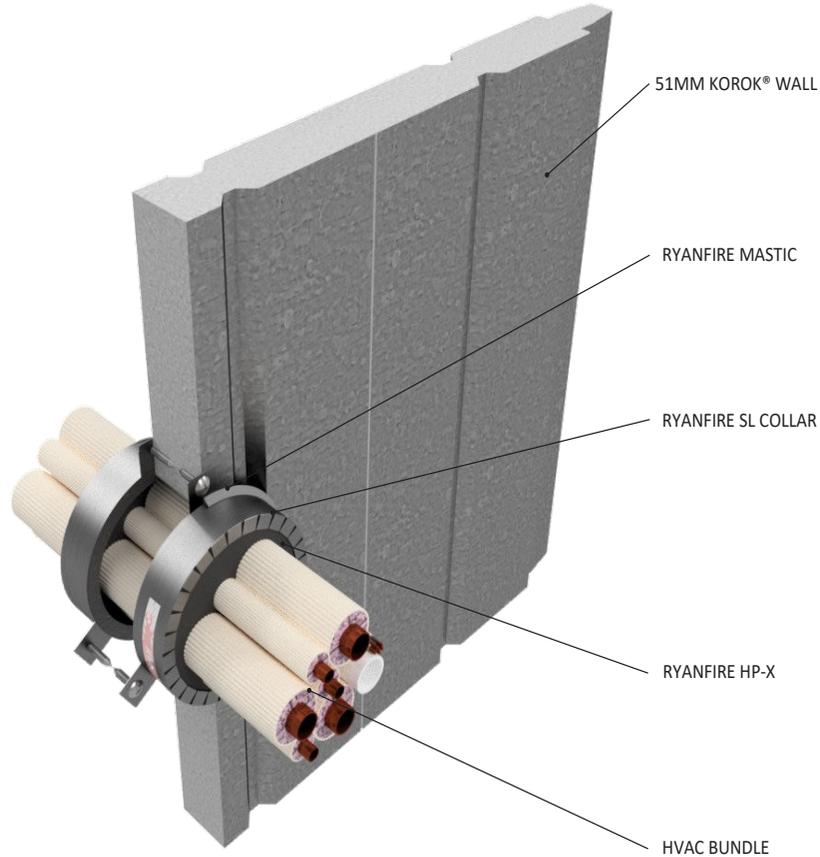
Drawing Number	Rev
<b>V21.26</b>	<b>3.0</b>

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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. SELECT THE CORRECT SIZE RYANFIRE SL COLLAR TO FIT AROUND THE BUNDLE.
3. SECURE THE SL COLLAR AROUND THE PIPE AND SLIDE IT UP UNTIL IT IS FLUSH WITH THE SURFACE OF THE WALL. FIX THE COLLAR INTO PLACE USING 12G X 30MM TEK SCREWS.
4. APPLY RYANFIRE HP-X INTO THE ANNULAR GAP BETWEEN THE BUNDLE AND THE SL COLLAR, TO THE FULL DEPTH OF THE COLLAR.
5. APPLY A NOMINAL 5MM BEAD OF RYANFIRE MASTIC AROUND THE JOINT BETWEEN THE SL COLLAR AND THE KOROK® WALL.
6. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



**Products:** RYANFIRE SL COLLAR  
RYANFIRE HP-X  
RYANFIRE MASTIC  
**Approvals:** AS 1530.4:2014/AS 4072.1:2005  
**BK:** 165  
**Ref:** 225FR00058  
**ID:** A, B

**Scenario:** Penetration seal to HVAC bundle (heat pump services)

**Services:** Up to:  
3 sets pair coil copper pipes  
5 TPS cables  
Ø20mm PVC pipe

**Construction:** 51mm KOROK® wall

**Fire Resistance:** 1 set pair coil bundle : -/60/45  
3 sets pair coil bundle: -/60/60

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Drawing Title  
**SL Collar & HP-X to HVAC bundle  
51mm KOROK® wall**

Scale	Date
<b>NTS</b>	<b>April 2025</b>

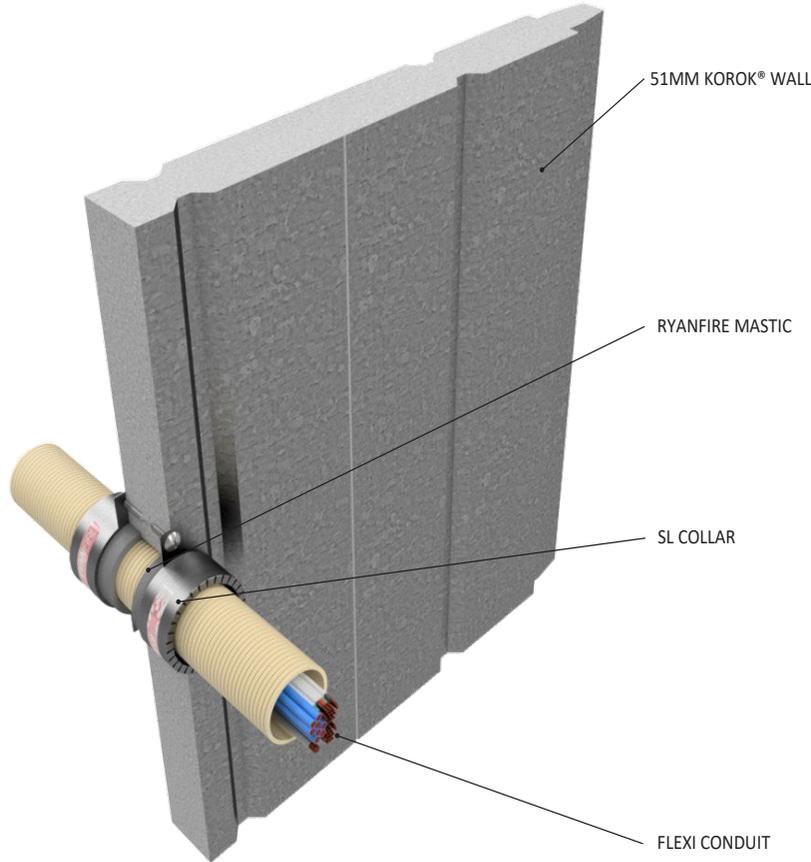
Drawing Number	Rev
<b>V14.13</b>	<b>3.0</b>

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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. APPLY RYANFIRE MASTIC INTO THE ANNULAR GAP BETWEEN THE CONDUIT AND THE KOROK® WALL.
3. SELECT THE CORRECT SIZE RYANFIRE SL COLLAR TO FIT AROUND THE FLEXI CONDUIT.
4. SECURE THE SL COLLAR AROUND THE CONDUIT AND SLIDE IT ONTO THE FACE OF THE WALL. FIX THE COLLAR INTO THE WALL WITH 12G X 30MM TEK SCREWS.
5. CLEAN ANY EXCESS MASTIC WITH A DAMP CLOTH.
6. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



<b>Products:</b>	RYANFIRE SL COLLAR RYANFIRE MASTIC
<b>Approvals:</b>	AS 1530.4:2014/AS 4072.1:2005
<b>BK:</b>	210
<b>Ref:</b>	23SFR00034
<b>ID:</b>	E, F
<b>Scenario:</b>	Penetration seal to PVC flexi cable conduit
<b>Services:</b>	Up to Ø50mm PVC flexi conduit with mixed cable bundle : TPS, Data
<b>Annular:</b>	0 - 5mm
<b>Construction:</b>	51mm KOROK® wall
<b>Fire Integrity:</b>	60 minutes
<b>Fire Insulation:</b>	60 minutes

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Drawing Title  
**SL Collar to PVC flexi conduit  
51mm KOROK® wall**

Scale	Date
<b>NTS</b>	<b>April 2025</b>

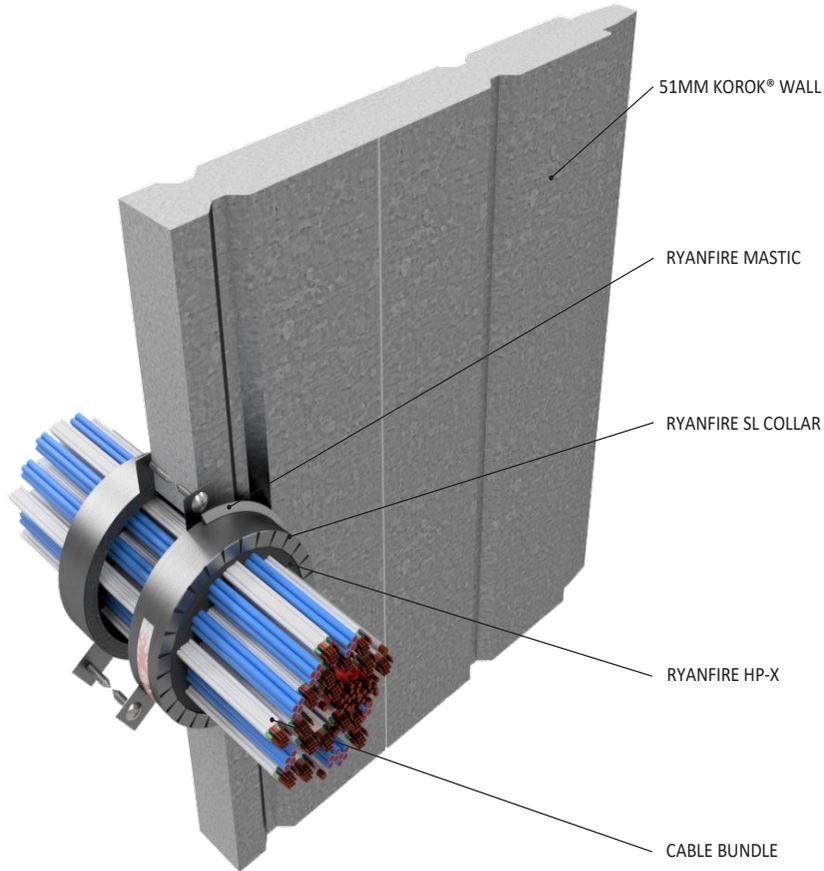
Drawing Number	Rev
<b>V33.15</b>	<b>3.0</b>

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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. SELECT THE CORRECT SIZE RYANFIRE SL COLLAR TO FIT AROUND THE CABLE BUNDLE.
3. SECURE THE SL COLLAR AROUND THE PIPE AND SLIDE IT UP UNTIL IT IS FLUSH WITH THE SURFACE OF THE WALL. FIX THE COLLAR INTO PLACE USING 12G X 30MM TEK SCREWS.
4. APPLY RYANFIRE HP-X INTO THE ANNULAR GAP BETWEEN THE BUNDLE AND THE SL COLLAR, TO THE FULL DEPTH OF THE COLLAR.
5. APPLY A NOMINAL 5MM BEAD OF RYANFIRE MASTIC AROUND THE JOINT BETWEEN THE SL COLLAR AND THE KOROK® WALL.
6. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



<b>Products:</b>	RYANFIRE SL COLLAR RYANFIRE HP-X RYANFIRE MASTIC
<b>Approvals:</b>	AS 1530.4:2014/AS 4072.1:2005
<b>BK:</b>	165
<b>Ref:</b>	225FR00058
<b>ID:</b>	C
<b>Scenario:</b>	Penetration seal to cable bundles
<b>Services:</b>	Up to Ø100mm mixed cable bundle: TPS, data
<b>Construction:</b>	51mm KOROK® wall
<b>Fire Integrity:</b>	60 minutes
<b>Fire Insulation:</b>	60 minutes

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Drawing Title  
**SL Collar & HP-X to cable bundle  
51mm KOROK® wall**

Scale	Date
<b>NTS</b>	<b>April 2025</b>

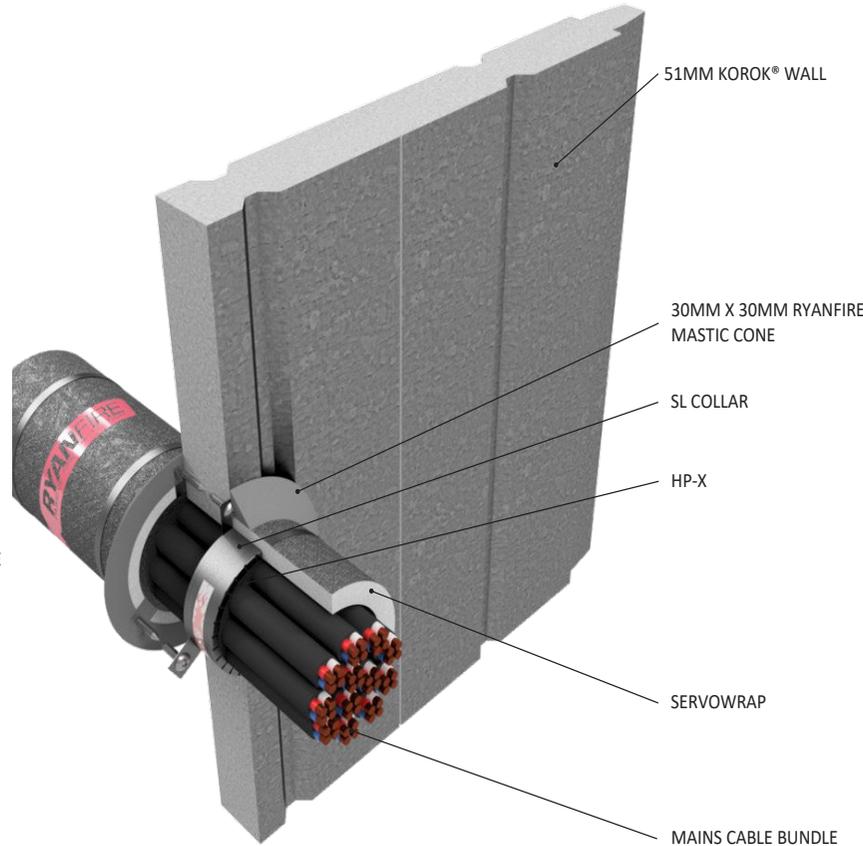
Drawing Number	Rev
<b>V36.10</b>	<b>3.0</b>

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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. THE CABLES SHOULD BE TIGHTLY BUNDLED TOGETHER.
3. SELECT THE CORRECT SIZE RYANFIRE SL COLLAR TO FIT AROUND THE CABLE BUNDLE.
4. SECURE THE SL COLLAR AROUND THE BUNDLE AND SLIDE IT ONTO THE FACE OF THE WALL. FIX THE COLLAR INTO THE WALL WITH 12G X 30MM TEK SCREWS.
5. APPLY HP-X INTO THE ANNULAR GAP BETWEEN THE BUNDLE AND THE SL COLLAR, TO THE FULL DEPTH OF THE SL COLLAR.
6. WRAP THE CABLE BUNDLE AND SL COLLAR WITH ONE LAYER OF 300MM WIDE SERVOWRAP.
7. PLACE THE SERVOWRAP HARD UP AGAINST THE WALL AND SECURE INTO PLACE WITH STEEL CABLE TIES, 50MM FROM EACH END, AND ONE NOMINALLY IN THE CENTER. SEAL ANY EXPOSED EDGES OF THE SERVOWRAP WITH FOIL TAPE.
8. APPLY A 30MM X 30MM CONE OF RYANFIRE MASTIC AROUND THE JUNCTION BETWEEN THE WRAPPED CABLE BUNDLE AND THE KOROK® WALL.
9. CLEAN ANY EXCESS MASTIC WITH A DAMP CLOTH.
10. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



**Products:** RYANFIRE SL COLLAR  
RYANFIRE HP-X  
RYANFIRE SERVOWRAP  
RYANFIRE MASTIC

**Approvals:** AS 1530.4:2014/AS 4072.1:2005

**BK:** 210

**Ref:** 23SFR00034

**ID:** D

**Scenario:** Penetration seal to mains cable bundle

**Services:** Up to 12 x 25mm<sup>2</sup> mains cables

**Annular:** 10 - 19mm

**Construction:** 51mm KOROK® wall

**Fire Integrity:** 60 minutes

**Fire Insulation:** 0 minutes

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Drawing Title  
**SL Collar, HP-X & Servowrap to mains bundle  
51mm KOROK® wall**

Scale <b>NTS</b>	Date <b>April 2025</b>
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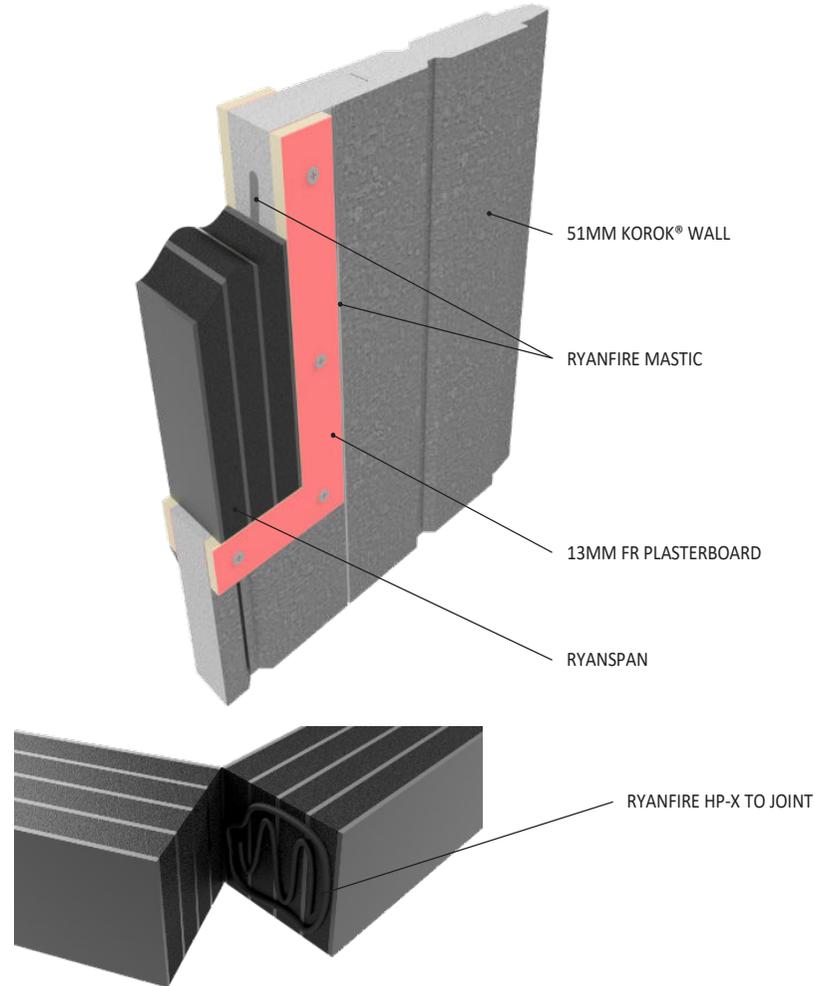
Drawing Number <b>V36.15</b>	Rev <b>3.0</b>
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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. APPLY A 50MM WIDE "FRAME" OF 13MM FR PLASTERBOARD AROUND THE PERIMETER OF THE APERTURE, ON EACH SIDE OF THE WALL. FIX THE PLASTERBOARD TO THE WALL USING 6G X 32MM PLASTERBOARD SCREWS.
3. APPLY A BEAD OF RYANFIRE MASTIC TO THE JOINT OF THE PLASTERBOARD AND THE KOROK® WALL.
4. APPLY A BEAD OF RYANFIRE MASTIC ALONG THE CENTRE OF EACH INTERNAL EDGE OF THE APERTURE.
5. SELECT THE CORRECT WIDTH OF RYANSPAN REQUIRED FOR THE GAP.
6. COMPRESS THE RYANSPAN AND FIT CENTRALLY WITHIN THE GAP.
7. TO JOIN TWO PIECES OF RYANSPAN, APPLY RYANFIRE HP-X TO EACH END AND BUTT THEM UP AGAINST EACH OTHER. ENSURE A TIGHT FITTING SEAL.



**Products:** RYANSPAN  
RYANFIRE MASTIC  
RYANFIRE HP-X

**Approvals:** AS 1530.4/AS 4072.1

**BK:** 261

**Ref:** 23SFR00095

**ID:** A - C

**Scenario:** Vertical linear gap seal

**Construction:** 51mm KOROK® wall

**Void Size:** Up to 100mm wide

**Fire Integrity:**

Gap	Vertical
50mm	-/60/45
75mm	-/60/60
100mm	-/60/45

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RYANFIRE Technical Support:  
info@ryanfire.co.nz - Tel 09 443 0362

Drawing Title  
**Ryanspan linear gap seal**  
**51mm KOROK® wall**

Scale <b>NTS</b>	Date <b>April 2025</b>
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Drawing Number <b>V67.13</b>	Rev <b>3.0</b>
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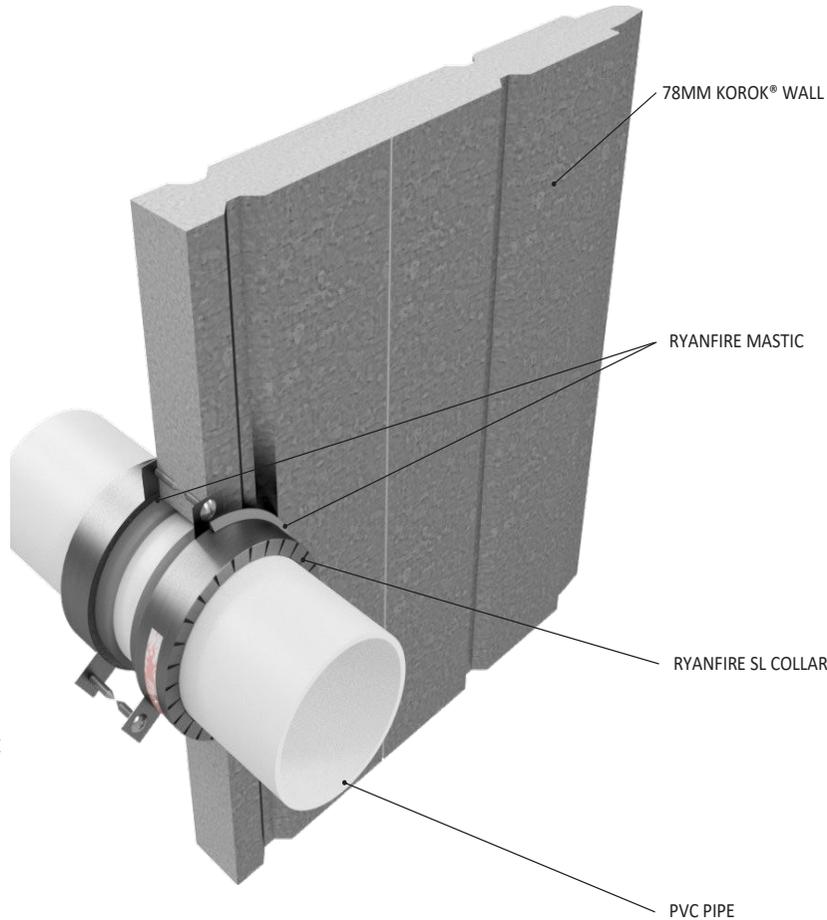
# 120 MINUTE APPLICATIONS

## 78MM KOROK® WALL



**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. SELECT THE CORRECT SIZE RYANFIRE SL COLLAR TO FIT AROUND THE PVC PIPE.
3. APPLY RYANFIRE MASTIC INTO THE ANNULAR GAP BETWEEN THE PVC PIPE AND THE KOROK® WALL.
4. SECURE THE SL COLLAR AROUND THE PIPE AND SLIDE IT UP UNTIL IT IS FLUSH WITH THE SURFACE OF THE WALL. FIX THE COLLAR INTO PLACE USING 12G X 30MM TEK SCREWS.
5. APPLY A NOMINAL 5MM BEAD OF RYANFIRE MASTIC AROUND THE JOINT BETWEEN THE SL COLLAR AND THE KOROK® WALL.
6. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



<b>Products:</b>	RYANFIRE SL COLLAR RYANFIRE MASTIC
<b>Approvals:</b>	AS 1530.4:2014/AS 4072.1:2005
<b>BK:</b>	184
<b>Ref:</b>	22SFR00073
<b>ID:</b>	A - E
<b>Scenario:</b>	Penetration seal to PVC pipe
<b>Services:</b>	Up to Ø150mm PVC pipes
<b>Construction:</b>	78mm KOROK® wall
<b>Fire Resistance:</b>	Ø50mm : -/120/120 Ø65mm : -/120/120 Ø80mm : -/120/60 Ø100mm : -/120/120 Ø150mm : -/120/120

Web based drawings are for example only. Fire performance of any system is dependant on, but not limited to size of opening, substrate, if penetrations are passing through, type, size and number. Please refer to Ryanfire technical department for detailed and specific fire performance information.



RYANFIRE Technical Support:  
info@ryanfire.co.nz - Tel 09 443 0362

Drawing Title  
**SL Collar to PVC pipes**  
**78mm KOROK® wall**

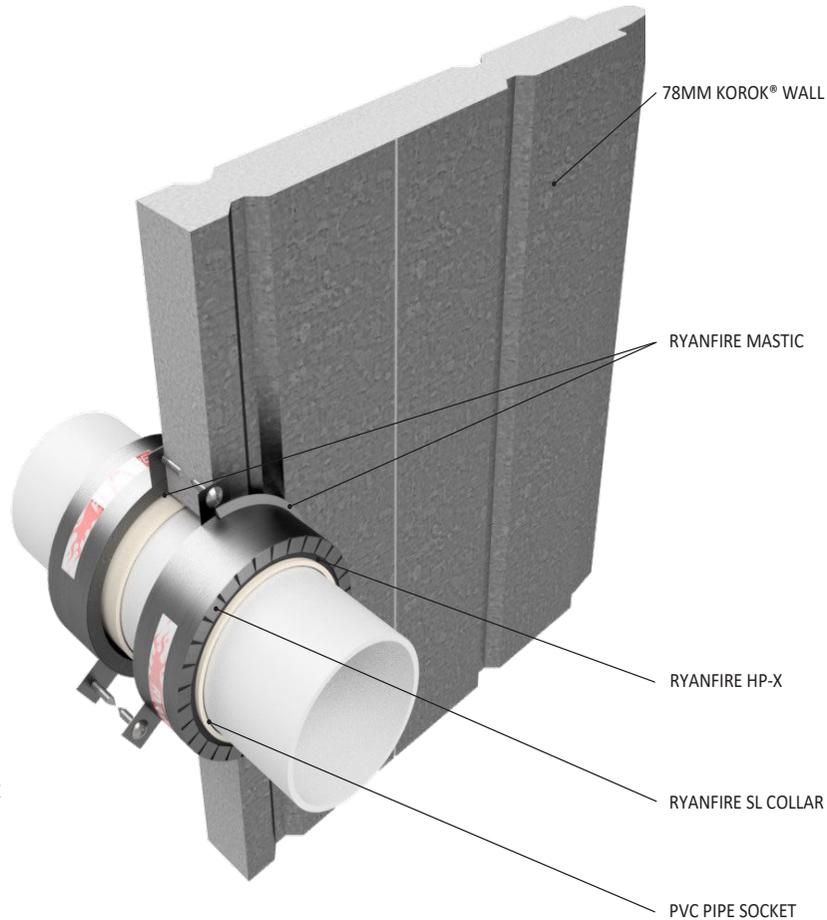
Scale	Date
NTS	April 2025
Drawing Number	Rev
V21.30	3.0

All errors and omissions excepted. The information contained within this drawing is believed to be correct on the date of publication, and is based upon tested and certified solutions. The policy of Ryanfire Products is one of constant improvement. Installers must ensure that they are following the latest published drawings, test evidence and instructions. Whilst Ryanfire Products 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. Terms and conditions of sale apply.

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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. SELECT THE CORRECT SIZE RYANFIRE SL COLLAR TO FIT AROUND THE PVC PIPE.
3. APPLY RYANFIRE MASTIC INTO THE ANNULAR GAP BETWEEN THE PVC PIPE AND THE KOROK® WALL.
4. SECURE THE SL COLLAR AROUND THE PIPE AND SLIDE IT UP UNTIL IT IS FLUSH WITH THE SURFACE OF THE WALL. FIX THE COLLAR INTO PLACE USING 12G X 30MM TEK SCREWS.
5. APPLY RYANFIRE HP-X INTO THE ANNULAR GAP BETWEEN THE SOCKET AND THE SL COLLAR, TO THE FULL DEPTH OF THE COLLAR.
6. APPLY A NOMINAL 5MM BEAD OF RYANFIRE MASTIC AROUND THE JOINT BETWEEN THE SL COLLAR AND THE KOROK® WALL.
7. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.



<b>Products:</b>	RYANFIRE SL COLLAR RYANFIRE HP-X RYANFIRE MASTIC
<b>Approvals:</b>	AS 1530.4:2014/AS 4072.1:2005
<b>BK:</b>	184
<b>Ref:</b>	225FR00073
<b>ID:</b>	F, G
<b>Scenario:</b>	Penetration seal to PVC pipes + socket joint
<b>Services:</b>	Up to Ø100mm PVC pipes + socket joint
<b>Construction:</b>	78mm KOROK® wall
<b>Fire Resistance:</b>	Ø20mm : -/120/120 Ø100mm : -/120/120

Web based drawings are for example only. Fire performance of any system is dependant on, but not limited to size of opening, substrate, if penetrations are passing through, type, size and number. Please refer to Ryanfire technical department for detailed and specific fire performance information.



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Drawing Title  
**SL Collar to PVC socket**  
**78mm KOROK® wall**

Scale	Date
<b>NTS</b>	<b>April 2025</b>
Drawing Number	Rev
<b>V21.31</b>	<b>3.0</b>

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# 2 WAY TESTED FIRE RATED ACCESS PANEL

## FYRESHIELD™ RANGE



Applications	System	Details	FRL
KOROK® Walls: Hinged FyreSHIELD PLUS	FyreSHIELDRange  Sizes: <ul style="list-style-type: none"> <li>• 300 x 300mm</li> <li>• 400 x 400mm</li> <li>• 450 x 450mm</li> <li>• 550 x 550mm</li> <li>• 600 x 600mm</li> <li>• Custom any size up to 600 x 600mm</li> </ul>	Providing market leading FRL's for access panels, the FyreSHIELD™ uses new materials technology so it doesn't need any additional blocks or architraves to achieve 30 minutes insulation. For specific system and FRL details refer to the:  <a href="#">FyreSHIELD™ for KOROK® Data Sheet</a>	<ul style="list-style-type: none"> <li>• - / 120 / 30 (direct exposure to fire side)</li> <li>• - / 60 / 60 (reverse installation, protected face)</li> </ul>
KOROK® Ceilings: FyreSHIELD Screw-Fixed		Available from the <a href="#">Trafalgar Fire Knowledge Centre Technical Manuals</a> page on the website.	<ul style="list-style-type: none"> <li>• -/60/30</li> </ul>



FyreSHIELD™ Plus access panels were independently tested by BRANZ to AS 1530.4:2014, installed in a 78 mm KOROK® wall system. This test was conducted with two panels in a single wall – one installed to face the furnace's fire source directly, and one installed on the opposite side, facing away from the furnace.

***This configuration replicates real-world uncertainty about which side of the wall a fire may approach from – a critical requirement for any access panel intended to comply with NZBC for walls and shafts, where two-way protection is expected.***

### FIRE RESISTANCE RATINGS(FRR) ACHIEVED

- - / 120 / 30 (direct exposure to fire side)
- - / 60 / 60 (reverse installation, protected face)
- - /60 / 30 ( Ceilings)

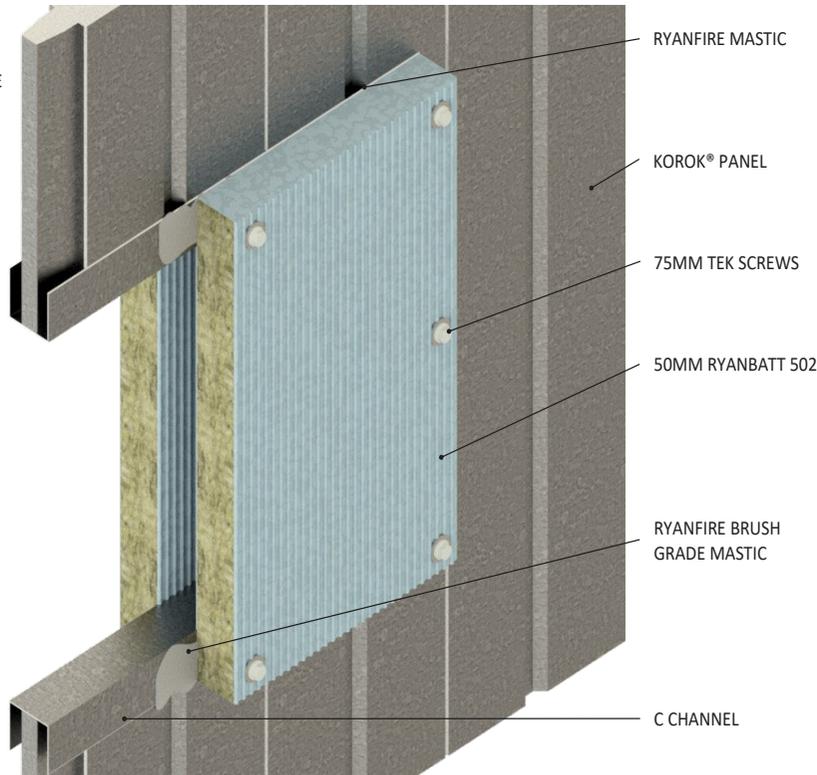
For full details, refer to [Report FR18229-02-1](#).

# RYANBATT 502 BOARD SEALS



**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS. THE APERTURE SHOULD BE FORMED AS PER THE KOROK® SPECIFICATIONS.
2. THE APERTURE SHOULD BE FORMED IN ACCORDANCE WITH THE WALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. CUT THE RYANBATT 502 TO FIT OVER THE APERTURE. THE BOARD MUST HAVE A MINIMUM OVERLAP ON ALL SIDES OF 50MM FOR 51MM KOROK® AND 100MM FOR 78MM KOROK®.
4. APPLY A STRIP OF RYANFIRE BRUSH GRADE MASTIC TO THE PERIMETER OF THE APERTURE OF 50MM WIDE FOR 51MM KOROK® AND 100MM WIDE FOR 78MM KOROK®
5. APPLY A STRIP OF RYANFIRE BRUSH GRADE MASTIC TO THE PERIMETER OF THE BOARD WHERE IT WILL MAKE CONTACT WITH THE WALL.
6. APPLY RYANFIRE BURHS GRADE MASTIC TO ALL EXPOSED AND CUT EDGES OF RYANBATTS
7. PLACE THE RYANBATT 502 OVER THE APERTURE AND FIX INTO POSITION WITH MINIMUM 75MM TEK SCREWS & PENNY WASHERS AT MAX 200MM CENTRES AND NO MORE THAN 25MM FROM THE EDGES FOR 51MM KOROK® AND NO MORE THAN 50MM FROM THE EDGES FOR 78MM KOROK®.
8. JOINTS SHOULD BE STAGGERED AT LEAST 200MM BETWEEN EACH SIDE OF THE WALL.
9. APPLY A MINIMUM 5MM NOMINAL BEAD OF RYANFIRE MASTIC TO THE PERIMETER OF THE SEAL, ANY BOARD TO BOARD JOINTS AND TO ANY OTHER GAPS, INCLUDING ANY RECESSES IN THE KOROK® PANEL.
10. REPEAT THE PROCESS FOR THE OTHER SIDE OF THE WALL.



**Products:** RYANBATT 502  
RYANFIRE MASTIC  
RYANFIRE BRUSH GRADE MASTIC

**Approvals:** AS 1530.4:2014/AS 4072.1:2005

**BK:** 92 / 93 / 139 / 27

**Ref:** PF20063 / PF20064 / 22SFR00019  
FAS200363

**ID:** A / 1 / A / Table 6

**Scenario:** Pattress fit blank aperture seal to KOROK® panel wall

<b>Construction</b>	51mm KOROK®	78mm KOROK®
<b>Aperture</b>	1000mm high x unlimited width	900mm high x unlimited width
<b>FRR</b>	-/60/60	-/120/120

*The fire rating may change depending on service penetration performance.*

Web based drawings are for example only. Fire performance of any system is dependant on, but not limited to size of opening, substrate, if penetrations are passing through, type, size and number. Please refer to Ryanfire technical department for detailed and specific fire performance information.



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info@ryanfire.co.nz - Tel 09 443 0362

Drawing Title  
**Ryanbatt 502 pattress fit blank seal  
51mm & 78mm KOROK® panel wall**

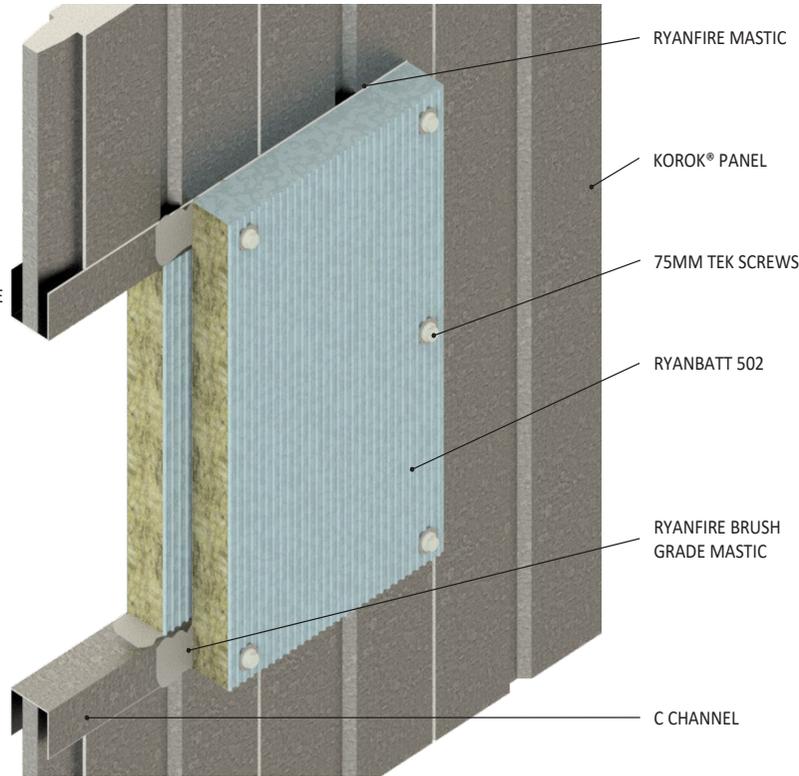
Scale	Date
<b>NTS</b>	<b>April 2025</b>
Drawing Number	Rev
<b>V53.4</b>	<b>9.0</b>

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**INSTALLATION INSTRUCTIONS**

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS. THE APERTURE SHOULD BE FORMED AS PER THE KOROK® SPECIFICATIONS.
2. APPLY RYANFIRE BRUSH GRADE ONTO THE INTERNAL EDGES OF THE APERTURE.
3. CUT THE RYANBATT 502 TO FIT TIGHTLY WITHIN THE APERTURE.
4. APPLY RYANFIRE BRUSH GRADE MASTIC TO THE PERIMETER EDGES OF THE RYANBATT 502 AND FIX IT INTO THE APERTURE TO SIT FLUSH WITH THE SURFACE OF THE WALL
5. CUT A 2ND LAYER OF RYANBATT 502 TO FIT OVER THE APERTURE. THE BOARD MUST HAVE A MINIMUM OVERLAP ON ALL SIDES OF 50MM FOR 51MM KOROK® AND 100MM FOR 78MM KOROK®.
6. APPLY A STRIP OF RYANFIRE BRUSH GRADE MASTIC TO THE PERIMETER OF THE APERTURE OF 50MM FOR 51MM KOROK® AND 100MM FOR 78MM KOROK®.
7. APPLY A STRIP OF RYANFIRE BRUSH GRADE MASTIC TO THE PERIMETER OF THE BOARD WHERE IT WILL MAKE CONTACT WITH THE WALL
8. PLACE THE RYANBATT 502 OVER THE APERTURE AND FIX INTO POSITION WITH MINIMUM 75MM TEK SCREWS & PENNY WASHERS AT MAX 200MM CENTRES AND NO MORE THAN 25MM FROM THE EDGES FOR 51MM KOROK® AND NO MORE THAN 50MM FROM THE EDGES FOR 78MM KOROK®.
9. JOINTS SHOULD BE STAGGERED AT LEAST 200MM BETWEEN EACH SIDE OF THE WALL.
10. APPLY BRUSH GRADE MASTIC TO ANY CUT AND EXPOSED EDGES OF THE 502 BOARD.
11. APPLY A MINIMUM 5MM NOMINAL BEAD OF RYANFIRE MASTIC TO THE PERIMETER OF THE SEAL, ANY BOARD TO BOARD JOINTS AND TO ANY OTHER GAPS, INCLUDING ANY RECESSES IN THE KOROK® PANEL.



**Products:** RYANBATT 502  
RYANFIRE MASTIC  
RYANFIRE BRUSH GRADE MASTIC

**Approvals:** AS 1530.4:2014/AS 4072.1:2005

**BK:** 92 / 93 / 140 / 27

**Ref:** PF20063 / PF20064 / 22SFR00020  
FAS 200363

**ID:** B / 2 / A / Table 6

**Scenario:** Pattress + friction fit blank aperture seal to KOROK® panel wall

<b>Construction</b>	51mm KOROK®	78mm KOROK®
<b>Aperture</b>	1000mm high x unlimited width	900mm high x unlimited width
<b>FRR</b>	-/60/60	-/120/120

*The fire rating may change depending on service penetration performance.*

Web based drawings are for example only. Fire performance of any system is dependant on, but not limited to size of opening, substrate, if penetrations are passing through, type, size and number. Please refer to Ryanfire technical department for detailed and specific fire performance information.



RYANFIRE Technical Support:  
info@ryanfire.co.nz - Tel 09 443 0362

Drawing Title  
**Ryanbatt 502 friction+pattress blank seal  
51mm & 78mm KOROK® panel wall**

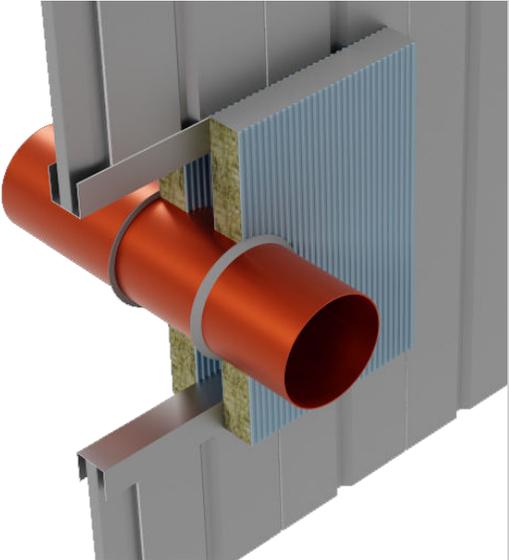
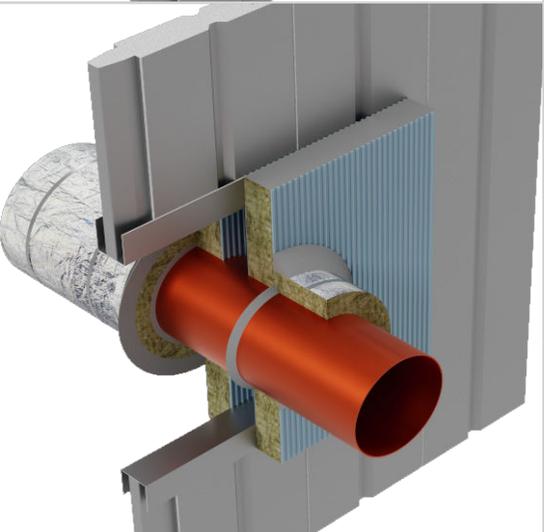
Scale	Date
<b>NTS</b>	<b>April 2025</b>

Drawing Number	Rev
<b>V53.24</b>	<b>6.0</b>

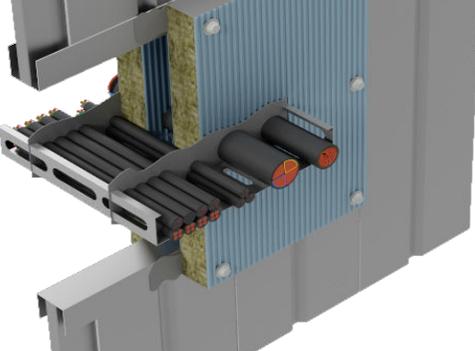
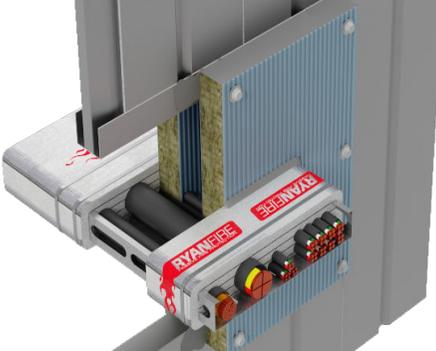
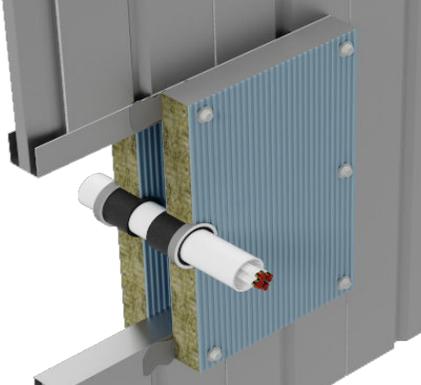
All errors and omissions excepted. The information contained within this drawing is believed to be correct on the date of publication, and is based upon tested and certified solutions. The policy of Ryanfire Products is one of constant improvement. Installers must ensure that they are following the latest published drawings, test evidence and instructions. Whilst Ryanfire Products 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. Terms and conditions of sale apply.

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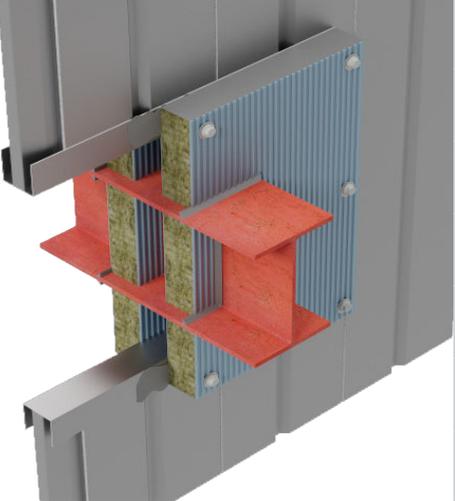
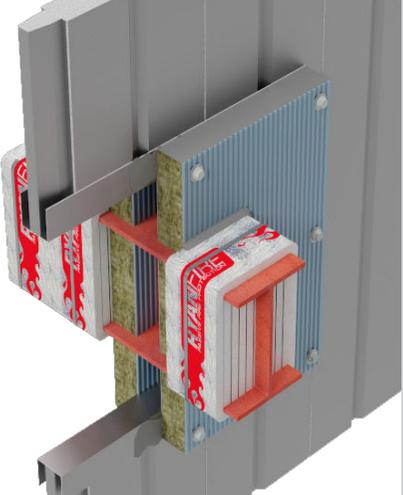
# METAL PIPES

Applications	System	Details	FRL
	<p><b><u>V5.3</u></b> <b>Metal Pipes</b></p> <p>Products :</p> <ul style="list-style-type: none"> <li>• <a href="#">Ryanbatt 502</a></li> <li>• <a href="#">Ryanfire Mastic</a></li> <li>• <a href="#">Ryanfire Brush Grade Mastic</a></li> </ul> <p>Used in conjunction with <a href="#">V53.4</a> or <a href="#">V53.24</a></p>	<p>Up to Ø100mm brass pipes</p> <hr/> <p>Up to Ø150mm copper / steel pipes</p>	<p>-/60/-</p>
	<p><b><u>V7.1</u></b> <b>AS1530.4:2014 Appendix E Metal Pipes</b></p> <p>Products :</p> <ul style="list-style-type: none"> <li>• <a href="#">Ryanbatt 502</a></li> <li>• <a href="#">Ryanfire Rokwrap</a></li> <li>• <a href="#">Ryanfire Mastic</a></li> <li>• <a href="#">Ryanfire Brush Grade Mastic</a></li> </ul> <p>Used in conjunction with <a href="#">V53.4</a> or <a href="#">V53.24</a></p>	<p>Up to Ø100mm brass pipes</p> <hr/> <p>Up to Ø150mm copper pipes</p> <hr/> <p>Ø300mm steel pipes</p>	<p>-/120/90</p> <hr/> <p>-/120/120</p> <hr/> <p>-/120/90</p>

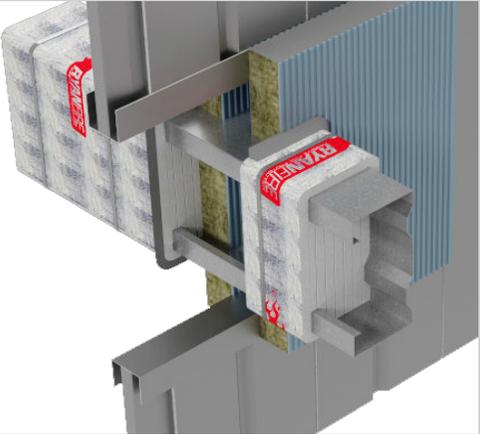
# ELECTRICAL SERVICES

Applications	System	Details	FRL
	<p><b>V27.8</b>  <b>AS1530.4:2014 Appendix D cable configuration D1 &amp; D2</b>                      Products :  <ul style="list-style-type: none"> <li>• <a href="#">Ryanbatt 502</a></li> <li>• <a href="#">Ryanfire Mastic</a></li> <li>• <a href="#">Ryanfire Brush Grade Mastic</a></li> </ul>                     Used in conjunction with <a href="#">V53.4</a> or <a href="#">V53.24</a></p>	<p>With or without cable tray</p>	<p>-/60/60</p>
	<p><b>V53.23</b>  <b>AS1530.4:2014 Appendix D cable configuration D1 &amp; D2</b>                      Products :  <ul style="list-style-type: none"> <li>• <a href="#">Ryanbatt 502</a></li> <li>• <a href="#">Ryanfire Servowrap</a></li> <li>• <a href="#">Ryanfire Mastic</a></li> <li>• <a href="#">Ryanfire Brush Grade Mastic</a></li> </ul>                     Used in conjunction with <a href="#">V53.4</a> or <a href="#">V53.24</a></p>		<p>-/120/120</p>
	<p><b>V33.8</b>  <b>PVC Cable Conduits</b>                      Products :  <ul style="list-style-type: none"> <li>• <a href="#">Ryanbatt 502</a></li> <li>• <a href="#">Ryanfire Graphite Strap</a></li> <li>• <a href="#">Ryanfire Mastic</a></li> <li>• <a href="#">Ryanfire Brush Grade Mastic</a></li> </ul>                     Used in conjunction with <a href="#">V53.4</a> or <a href="#">V53.24</a></p>	<p>Ø20mm Conduit</p>	<p>-/120/120</p>
		<p>Ø50mm Conduit</p>	<p>-/120/90</p>

# STRUCTURAL STEEL

Applications	System	Details	FRL														
	<p><b><u>V64.8</u></b> <b>Various structural steel elements</b></p> <p>Products :</p> <ul style="list-style-type: none"> <li>• <a href="#">Ryanbatt 502</a></li> <li>• <a href="#">Ryanfire Mastic</a></li> <li>• <a href="#">Ryanfire Brush Grade Mastic</a></li> </ul> <p>Used in conjunction with <a href="#">V53.4</a> or <a href="#">V53.24</a></p>	<table border="1"> <tr> <td>64mm Steel Angle</td> <td>-/120/60</td> </tr> <tr> <td>150mm Steel Angle</td> <td>-/120/30</td> </tr> <tr> <td>200mm Steel Beam (UB)</td> <td>-/120/60</td> </tr> <tr> <td>410mm Steel Beam (UB)</td> <td>-/120/60</td> </tr> <tr> <td>50mm SHS</td> <td>-/120/45</td> </tr> <tr> <td>89mm SHS</td> <td>-/120/15</td> </tr> <tr> <td>250mm SHS</td> <td>-/120/-</td> </tr> </table>	64mm Steel Angle	-/120/60	150mm Steel Angle	-/120/30	200mm Steel Beam (UB)	-/120/60	410mm Steel Beam (UB)	-/120/60	50mm SHS	-/120/45	89mm SHS	-/120/15	250mm SHS	-/120/-	
64mm Steel Angle	-/120/60																
150mm Steel Angle	-/120/30																
200mm Steel Beam (UB)	-/120/60																
410mm Steel Beam (UB)	-/120/60																
50mm SHS	-/120/45																
89mm SHS	-/120/15																
250mm SHS	-/120/-																
	<p><b><u>V64.4</u></b> <b>Structural Steel</b></p> <p>Products :</p> <ul style="list-style-type: none"> <li>• <a href="#">Ryanbatt 502</a></li> <li>• <a href="#">Ryanfire Servowrap</a></li> <li>• <a href="#">Ryanfire Mastic</a></li> <li>• <a href="#">Ryanfire Brush Grade Mastic</a></li> </ul> <p>Used in conjunction with <a href="#">V53.4</a> or <a href="#">V53.24</a></p>	<p>200mm Steel Beam(UB)</p>	<p>-/120/120</p>														

# STRUCTURAL STEEL

Applications	System	Details	FRL
	<p><b><u>V64.5</u></b> <b>Structural Steel</b></p> <p>Products :</p> <ul style="list-style-type: none"> <li>• <a href="#">Ryanbatt 502</a></li> <li>• <a href="#">Ryanfire Servowrap</a></li> <li>• <a href="#">Ryanfire Mastic</a></li> <li>• <a href="#">Ryanfire Brush Grade Mastic</a></li> </ul> <p>Used in conjunction with <a href="#">V53.4</a> or <a href="#">V53.24</a></p>	<p>300mm Steel Purlin</p>	<p>-/120/120</p>