RYANFIRE
PASSIVE FIRE PROTECTION

New Zealand's leading supplier
of passive fire protection solutions

KOROK
FIRE AND ACOUSTIC WALL SYSTEMS

FIRE STOPPING FOR KOROK® WALL SYSTEMS

NEW ZEALAND MADE

FPA NEW ZEALAND CORPORATE GUILD MEMBER

masterspec partner

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.

KEY FEATURES

- RYANFIRE MASTIC
- RYANFIRE ROKWRAP
- RYANFIRE SL- COLLAR
- RYAN BATT
- SERVO WRAP
- RYAN SPAN
- FyreSHIELD™ Access Panel

APPLICATIONS

- Power Cables
- Data cables
- PVC Conduits
- Insulated pipes
- Mixed Services
- Copper and Steel pipes
- PEX pipes
- PEX-AL-PEX pipes
- Steel Protection

> We are impressed with the testing Ryanfire have conducted on their product range, its so much easier dealing direct with the manufacturer and having immediate access to technical information and supporting test data.

Brian Vranjes – Fire Engineering Limited, Auckland, NZ

KOROK
FIRE AND ACOUSTIC WALL SYSTEMS

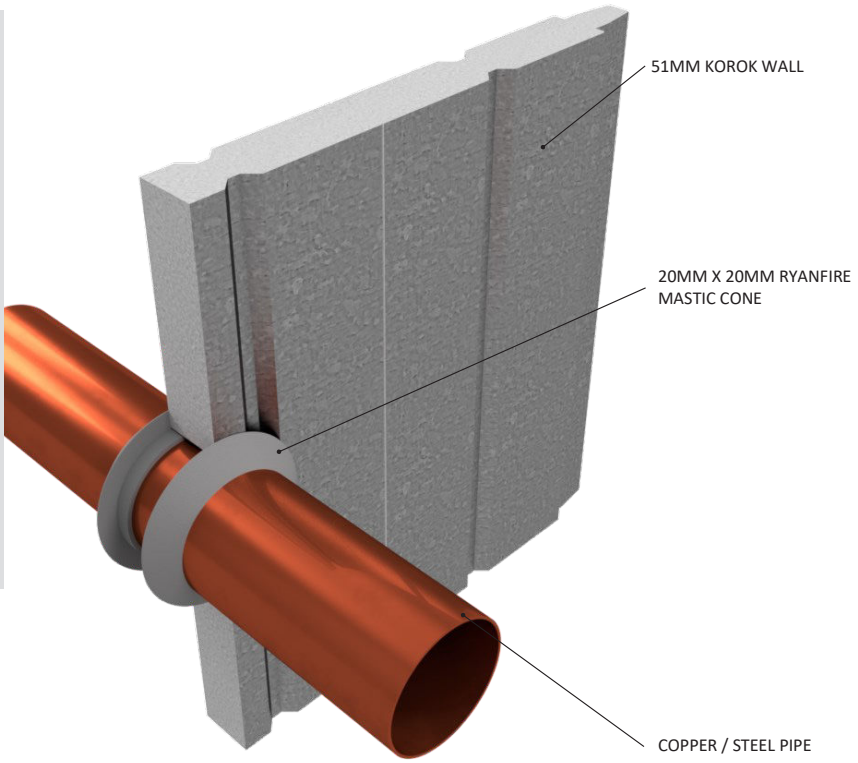
RYANFIRE
PASSIVE FIRE PROTECTION

SYSTEM AND INSATLLATION OVERVIEWS

COPPER / STEEL PIPES

RYANFIRE MASTIC

Products	**RYANFIRE MASTIC**
Tested System	**Penetration seal for 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**
Test Reference	**22SFR00058**
V.Card Refernce	**V1.12**



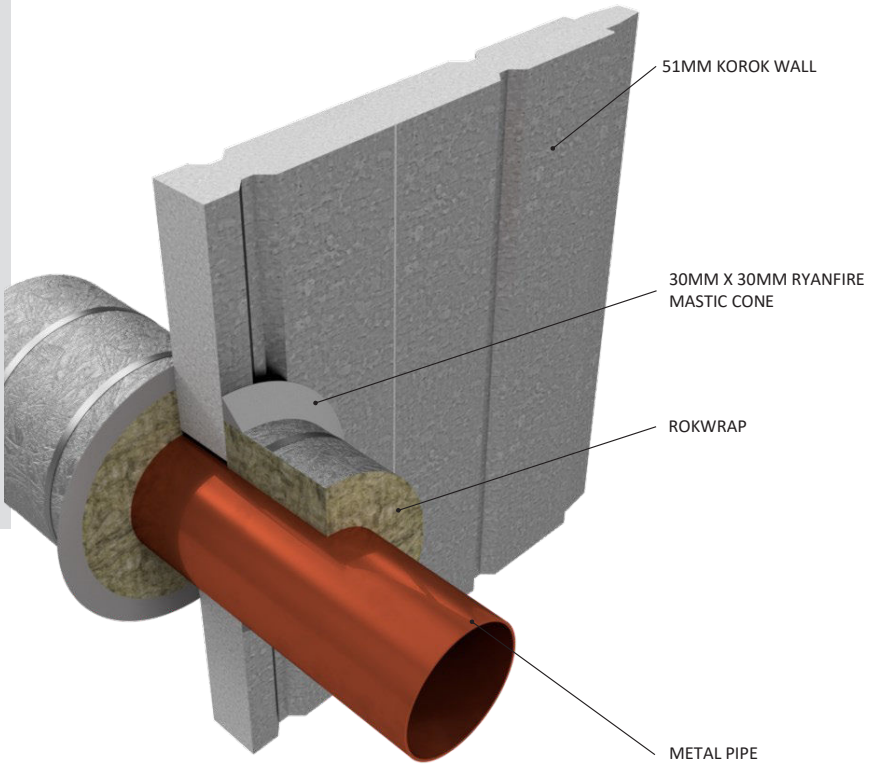
INSTALLATION INSTRUCTIONS

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.

COPPER / STEEL PIPES

RYANFIRE MASTIC | RYANFIRE ROKWRAP

Products	**RYANFIRE MASTIC**
	RYANFIRE ROKWRAP
Tested System	**Penetration seal to AS1530.4:2014**
	Appendix E non-combustible pipes
Services	**Up to Ø100mm brass pipes**
	Up to Ø150mm copper/steel pipes
Annular	**0 - 7mm**
Construction	**51mm Korok wall**
Fire Resistance	**Ø32mm Copper : -/60/60**
	Ø150mm Copper: -/60/60
	Ø100mm Brass : -/60/30
Test Reference	**22SFR00058**
V.Card Refernce	**V1.18**



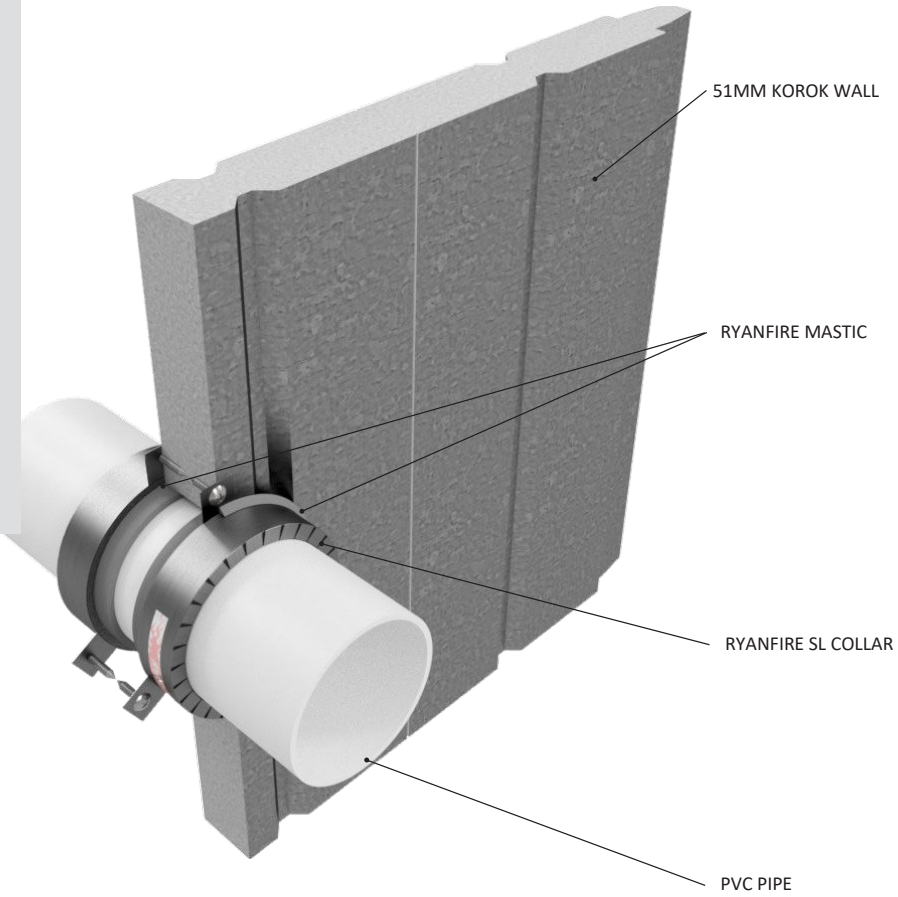
INSTALLATION INSTRUCTIONS

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. WRAP 1000MM WIDE X 40MM 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.

PVC PIPES

RYANFIRE SL COLLAR

Products	**RYANFIRE SL COLLAR** **RYANFIRE MASTIC**
Tested System	**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**
Test Reference	**22SFR00057**
V.Card Refernce	**V21.25**



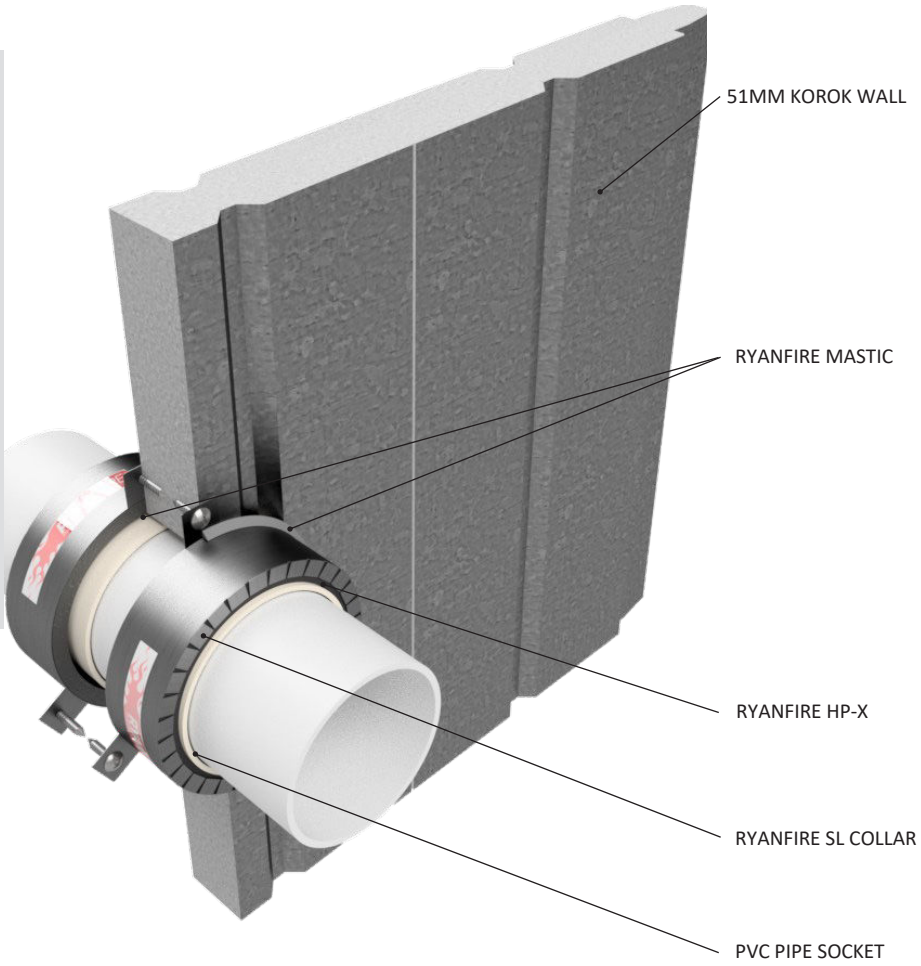
INSTALLATION INSTRUCTIONS

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.

PVC PIPE WITH SOCKET JOINT

RYANFIRE SL COLLAR

Products	**RYANFIRE SL COLLAR** **RYANFIRE HP-X** **RYANFIRE MASTIC**
Tested System	**Penetration seal to PVC pipes + socket joint**
Services	**Up to Ø100mm PVC pipes + socket joint**
Construction	**51mm Korok wall**
Fire Resistance	**Ø40mm: -/60/60** **Ø100mm: -/60/60**
Test Reference	**22SFR00057**
V.Card Refernce	**V21.26**



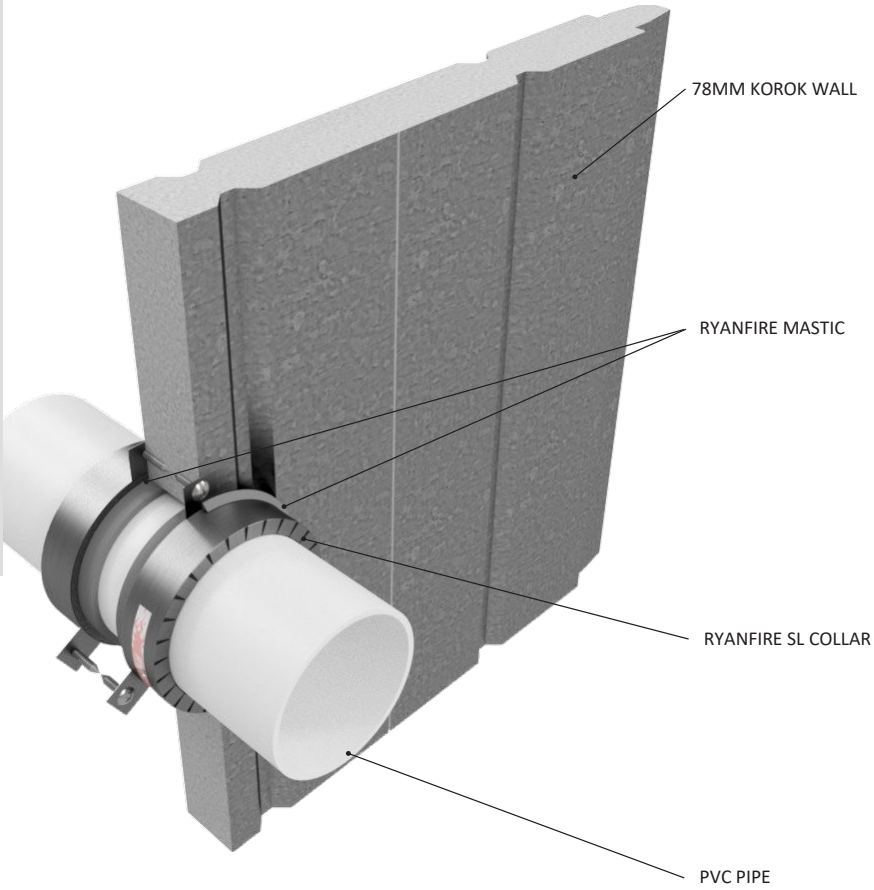
INSTALLATION INSTRUCTIONS

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.

PVC PIPES- 120 MINS

RYANFIRE SL COLLAR

Products	**RYANFIRE SL COLLAR** **RYANFIRE MASTIC**
Tested System	**Penetration seal to PVC pipe**
Services	**Up to Ø150mm uPVC pipes**
Construction	**78mm Korok wall**
Fire Resistance	**Ø50mm : -/120/120** **Ø65mm : -/120/120** **Ø80mm : -/120/60** **Ø100mm : -/120/120** **Ø150mm : -/120/120**
Test Reference	**22SFR00073**
V.Card Refernce	**V21.30**



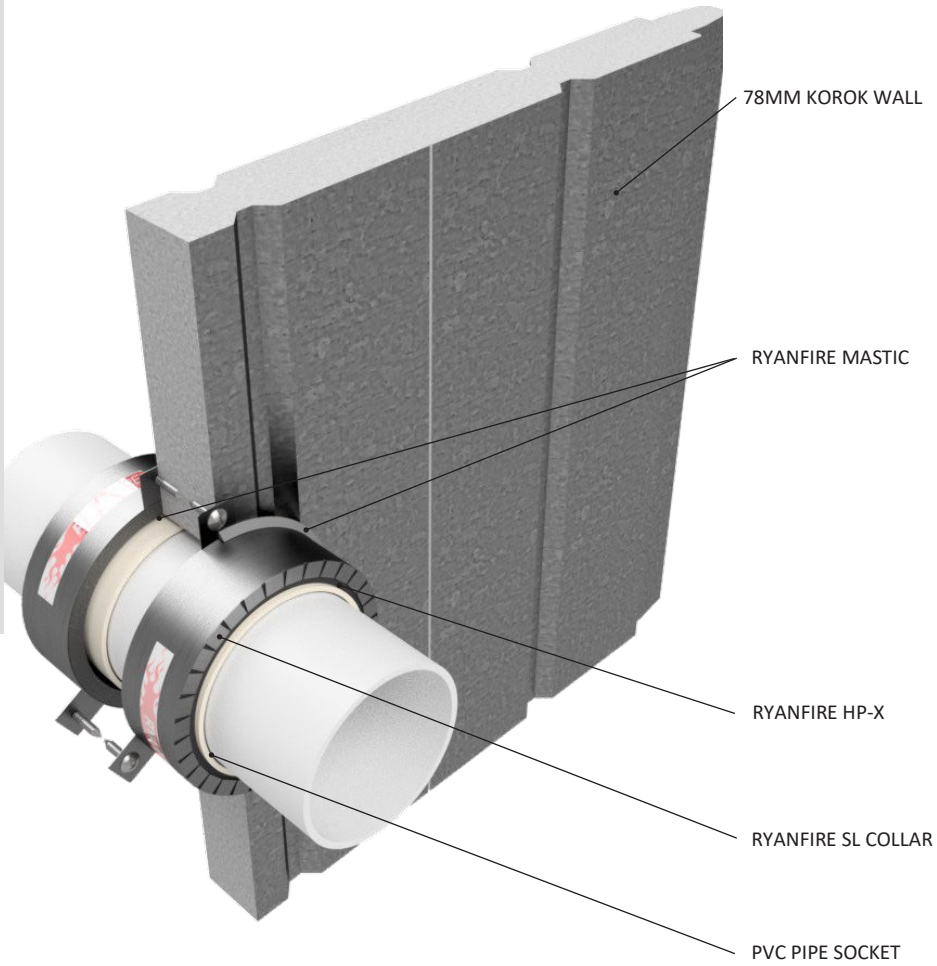
INSTALLATION INSTRUCTIONS

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.

PVC PIPE WITH SOCKET JOINT- 120 MINS

RYANFIRE SL COLLAR

Products	**RYANFIRE SL COLLAR** **RYANFIRE HP-X** **RYANFIRE MASTIC**
Tested System	**Penetration seal to PVC pipes + socket joint**
Services	**Up to Ø100mm PVC pipes + socket joint**
Construction	**78mm Korok wall**
Fire Resistance	**Ø20mm : -/120/120** **Ø100mm : -/120/120**
Test Reference	**22SFR00073**
V.Card Refernce	**V21.31**



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.

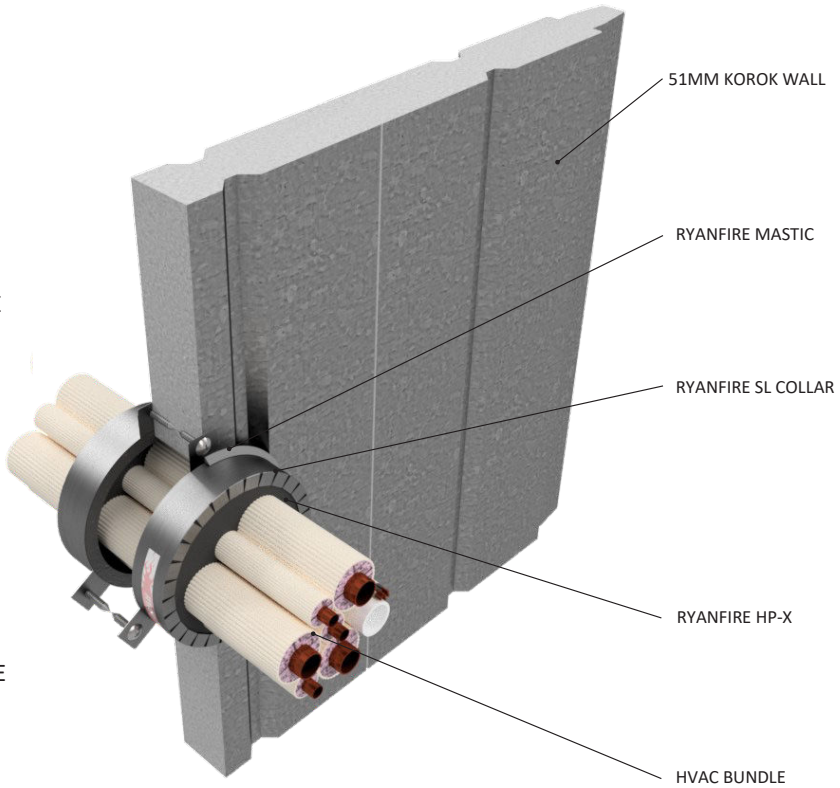
HVAC BUNDLE

RYANFIRE SL COLLAR

Products	**RYANFIRE SL COLLAR** **RYANFIRE HP-X** **RYANFIRE MASTIC**
Tested System	**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 : -/120/120** **3 sets pair coil bundle: -/120/120**
Test Reference	**22SFR00058**
V.Card Refernce	**V14.13**

INSTALLATION INSTRUCTIONS

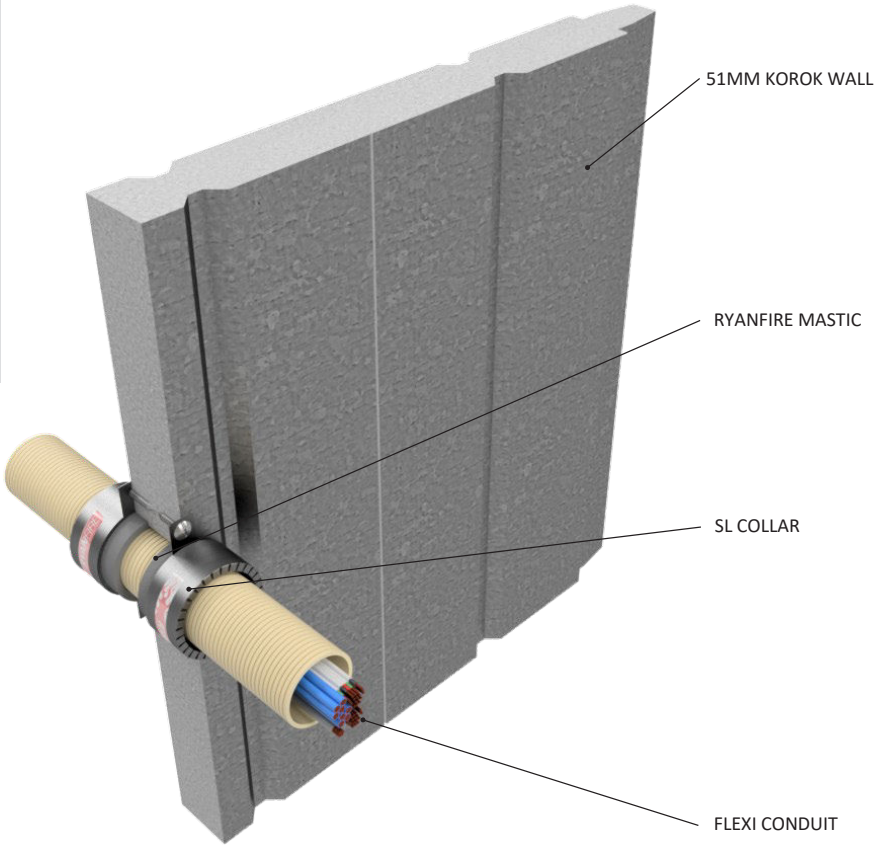
1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. SELECT THE CORRECT SIZE RYANFIRE SL COLLAR TO FIT AROUND THE BUNDLE.
3. SECURE THE SL COLLAR AROUND THE PIPE AND SLIDE IT UP UNTIL IT IS FLUSH WITH THE SURFACE OF THE WALL. FIX THE COLLAR INTO PLACE USING 12G X 30MM TEK SCREWS.
4. APPLY 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.



FLEXI- CABLE CONDUIT

RYANFIRE SL COLLAR

Products	**RYANFIRE SL COLLAR** **RYANFIRE MASTIC**
Tested System	**Penetration seal to PVC flexi cable conduit**
Services	**Up to Ø50mm PVC flexi conduit with mixed cable bundle TPS, Data**
Construction	**51mm Korok wall**
Fire Integrity:	**60 minutes**
Fire Insulation	**60 minutes**
Test Reference	**23SFR00034**
V.Card Refernce	**V33.15**



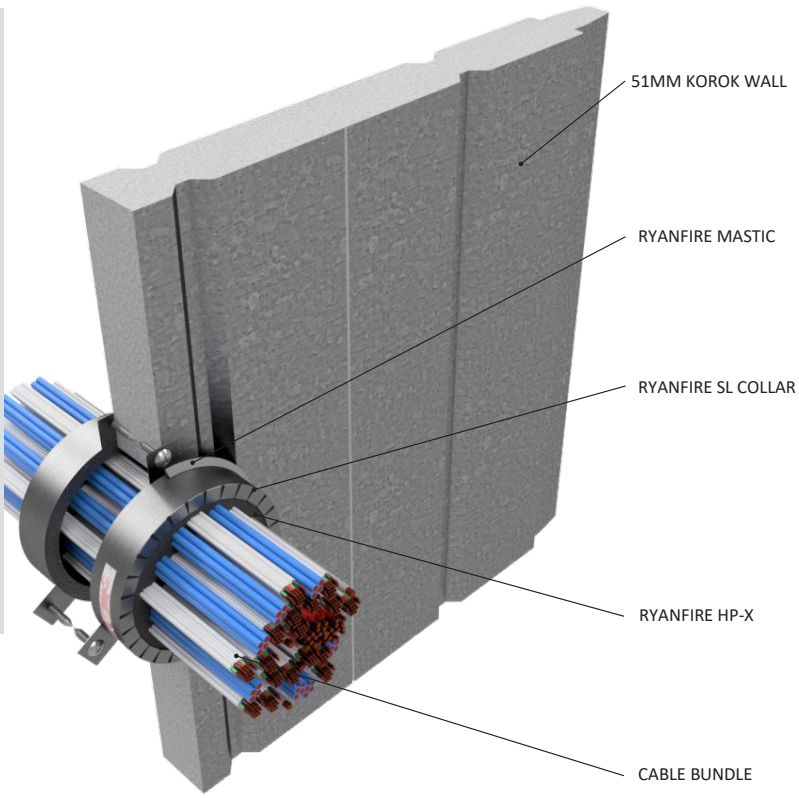
INSTALLATION INSTRUCTIONS

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.

CABLE BUNDLE

RYANFIRE SL COLLAR

Products	**RYANFIRE SL COLLAR** **RYANFIRE HP-X** **RYANFIRE MASTIC**
Tested System	**Penetration seal to cable bundles**
Services	**Up to Ø100mm mixed cable bundle: TPS, data**
Construction	**51mm Korok wall**
Fire Integrity:	**60 minutes**
Fire Insulation	**60 minutes**
Test Reference	**22SFR00058**
V.Card Refernce	**V36.10**



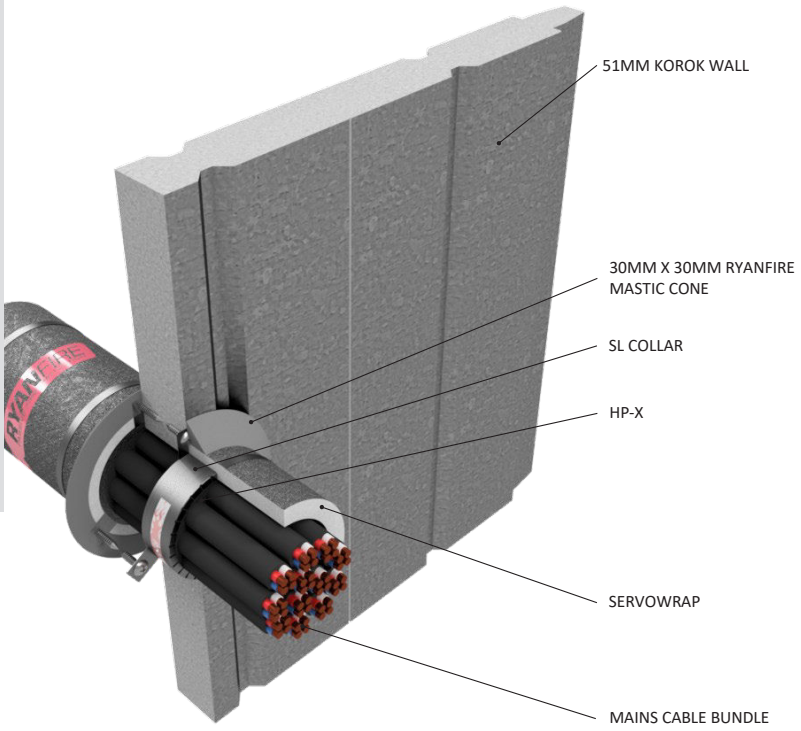
INSTALLATION INSTRUCTIONS

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.

POWER CABLE BUNDLE

RYANFIRE SL COLLAR

Products	**RYANFIRE SL COLLAR** **RYANFIRE HP-X** **RYANFIRE SERVOWRAP** **RYANFIRE MASTIC**
Tested System	**Penetration seal to mains cable bundles**
Services	**Up to 12 x 25mm2 mains cables**
Construction	**51mm Korok wall**
Annular	**10 - 19mm**
Fire Integrity:	**60 minutes**
Fire Insulation	**0 minutes**
Test Reference	**23SFR00034**
V.Card Refernce	**V36.15**



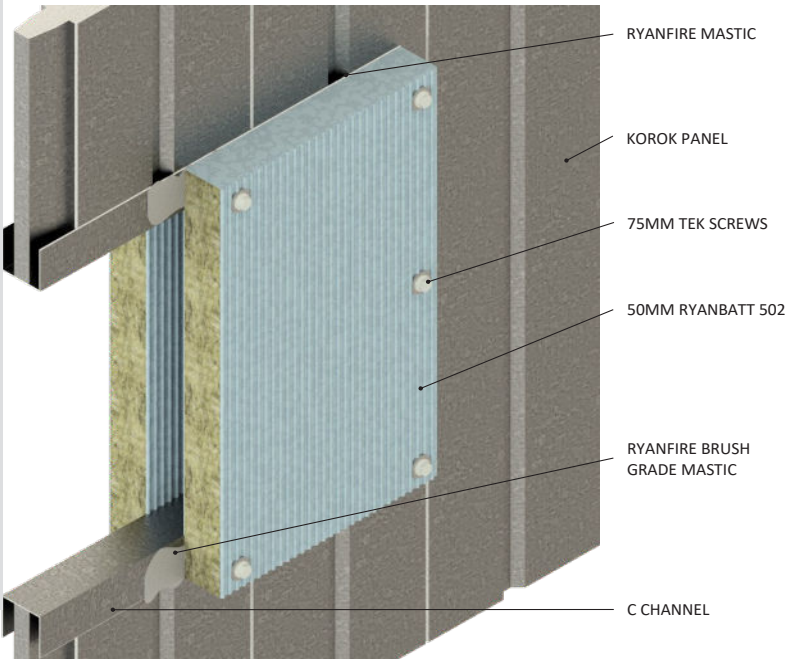
INSTALLATION INSTRUCTIONS

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.

BLANK SEAL

RYANBATT 502

Products	**RYANBATT 502** **RYANFIRE MASTIC** **RYANFIRE BRUSH GRADE MASTIC**
Tested System	**Pattress fit blank aperture seal to Korok panel wall**
Construction	**51mm Korok wall**
Aperture	**Up to 1000mm x unlimited width**
Fire Integrity	**60 minutes**
Fire Insulation	**60 minutes**
Test Reference	**PF20063 / PF20064 / 22SFR00019** **FAS200363**
V.Card Refernce	**V53.4**



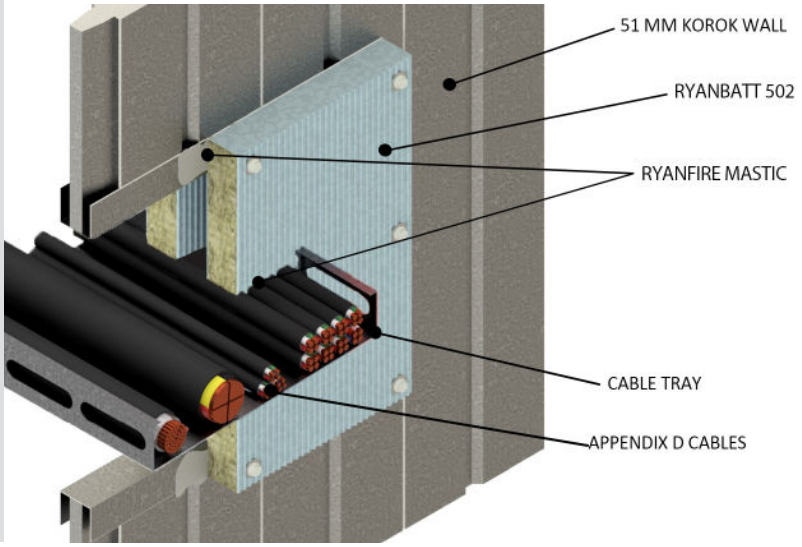
INSTALLATION INSTRUCTIONS

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.

CABLE TRAY

RYANBATT 502

Products	**RYANBATT 502** **RYANFIRE MASTIC** **RYANFIRE BRUSH GRADE MASTIC**
Tested System	**Penetration seal to AS1530.4:2014** **Appendix D cable bundles on a cable tray**
Construction	**51mm Korok wall**
Services:	**D1 cable configuration** **D2 cable configuration**
Fire Integrity	**60 minutes**
Fire Insulation	**60 minutes**
Test Reference	**PF 19010 / FAS 210123**
V.Card Refernce	**V27.8.K**



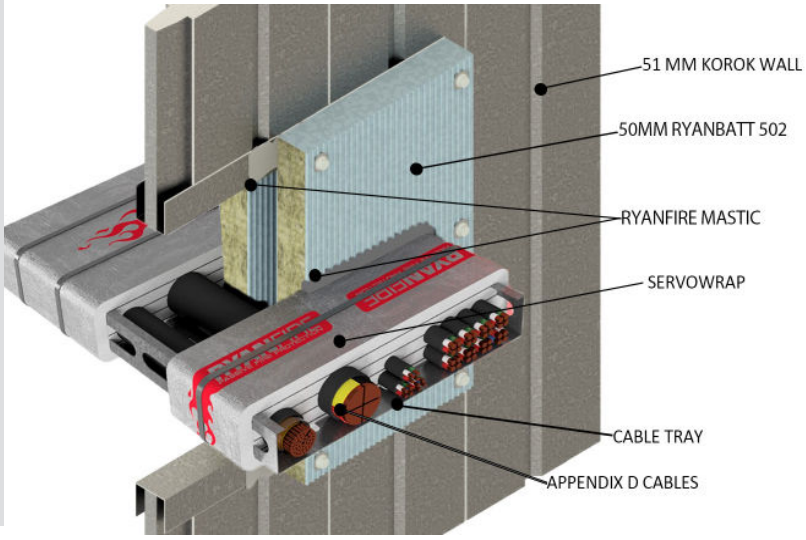
INSTALLATION INSTRUCTIONS

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS
2. CUT THE RYANBATT 502 TO FIT TIGHTLY WITHIN THE APERTURE.
3. CUT THE RYANBATT 502 TO TIGHTLY FIT AROUND THE PROFILE OF THE CABLES AND THE CABLE TRAY. CUT THE RYANBATT AGAIN THROUGH THE SHORTEST DIMENSION (MIDPOINT OF THE CABLE TRAY) TO ENABLE THE BOARD TO BE FITTED INTO THE APERTURE.
4. APPLY RYANFIRE BRSUH GRADE MASTIC TO ALL EXPOSED & CUT EDGES OF THE RYANBATT AND THE INTERNAL EDGES OF THE APERTURE.
5. INSERT THE RYANBATT INTO THE OPENING.
6. APPLY 5MM RYANFIRE MASTIC TO ANY JOINTS BETWEEN THE CABLES, CABLE TRAY AND RYANBATT.
7. APPLY A 5MM MM BEAD OF RYANFIRE MASTIC TO THE PERIMETER OF THE RYANBATT AND TO ANY JOINTS AND GAPS.
8. REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED TO THE COATING DURING INSTALLATION USING RYANFIRE MASTIC
9. REPEAT THIS PROCESS TO THE OPPOSITE SIDE OF THE WALL.

CABLE TRAY

RYANBATT 502 | SERVOWRAP

Products	**RYANBATT 502** **RYANFIRE MASTIC** **RYANFIRE SERVOWRAP**
Tested System	**Penetration seal to AS1530.4:2014** **Appendix D cable bundles on a cable tray**
Construction	**51mm Korok wall**
Services:	**D1 cable configuration** **D2 cable configuration**
Fire Integrity	**120 minutes**
Fire Insulation	**120 minutes**
Test Reference	**PF 20099 / PF 21005 / FAS 210123**
V.Card Refernce	**V27.8.K**



INSTALLATION INSTRUCTIONS

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. CUT THE RYANBATT 502 TO THE REQUIRED SIZE TO FIT TIGHTLY INTO THE FULLY LINED APERTURE.
3. CUT THE RYANBATT 502 TO FIT TIGHTLY AROUND THE CABLE BUNDLE
4. CUT THE RYANBATT ACROSS THE SHORTEST DIMENSION INCORPORATING THE MIDPOINT OF THE PENETRATION TO ENABLE THE BOARD TO BE FITTED INTO THE APERTURE.
5. APPLY RYANFIRE BRUSH GRADE MASTIC TO ALL THE INTERNAL EDGES OF THE APERTURE AND TO ALL THE EXPOSED EDGES OF THE RYANBATT.
6. INSERT THE RYANBATT 502 INTO THE OPENING TO SIT FLUSH WITH THE SURFACE OF THE WALL.
7. APPLY A 5MMBEAD OF RYANFIRE MASTIC TO THE PERIMETER OF THE RYANBATT AND TO ANY JOINTS AND GAPS.
8. WRAP 1 LAYER OF 300MM WIDE RYANFIRE SERVOWRAP AROUND THE CABLE PENETRATION WITH A 100MM OVERLAP. PRESS THE SERVOWRAP UP AGAINST THE SURFACE OF THE RYANBATT 502.
9. PACK OUT ANY GAPS ALONG THE TOP OF THE CABLE TRAY WITH ADDITIONAL LAYERS OF SERVOWRAP.
10. SECURE THE SERVOWRAP AROUND THE CABLE BUNDLE USING STEEL CABLE TIES 50MM FROM EACH END AND 1 NOMINALLY IN THE CENTRE.
11. APPLY A 50X50MM BEAD OF RYANFIRE MASTIC TO THE JOINT BETWEEN THE SERVOWRAP AND THE RYANBATT.
12. SEAL ANY EXPOSED EDGES OF THE SERVOWRAP WITH FOIL TAPE.
13. REPEAT THIS PROCESS TO THE OPPOSITE SIDE OF THE WALL.

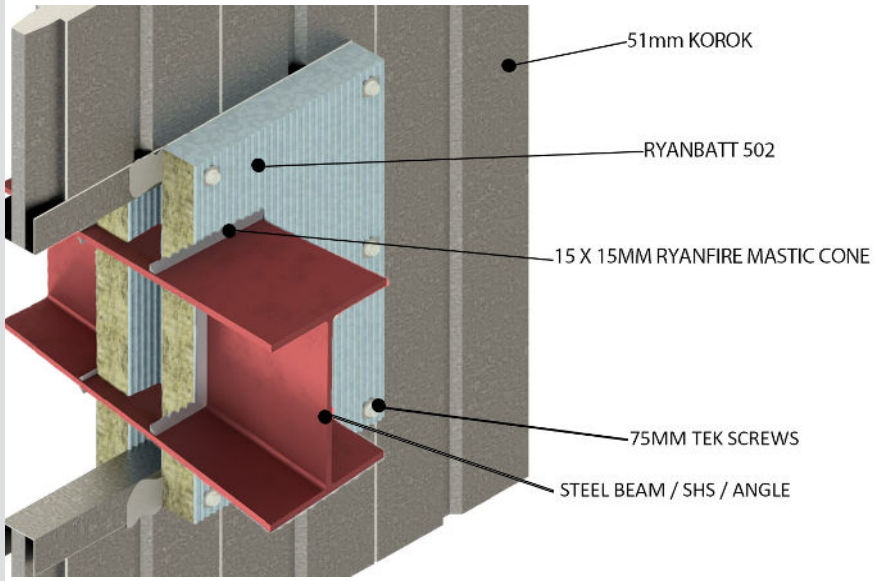
STRUCTURAL STEEL PENETRATIONS (UB AND SHS)

RYANBATT 502

Products	**RYANBATT 502** **RYANFIRE MASTIC** **RYANFIRE BRUSH GRADE MASTIC**
Tested System	**Penetration seal to structural steel elements**
Construction	**51mm Korok wall**
Penetration	**200mm UB, 410mm UB , 250mm SHS,** **150mm steel angle**
Test Reference	**22SFR00035 / 24SFR00038**
V.Card Refernce	**V64.8.K**

Fire Resistance:

Size	Structural Element	FRR
64mm	Equal Angle	-/120/60
150mm	Equal Angle	-/120/30
200mm	Beam (UB)	-/120/60
410mm	Beam (UB)	-/120/60
50mm	SHS	-/120/45
89mm	SHS	-/120/15
250mm	SHS	-/120/-



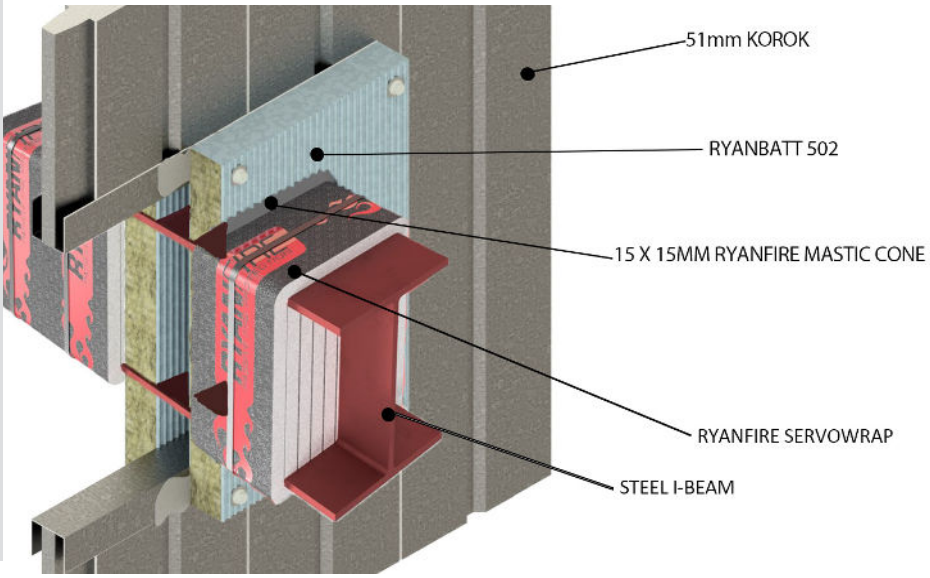
INSTALLATION INSTRUCTIONS

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. CUT THE RYANBATT 502 TO THE REQUIRED SIZE TO FIT TIGHTLY INTO THE FULLY LINED APERTURE.
3. CUT THE RYANBATT 502 TO FIT TIGHTLY AROUND THE STRUCTURAL STEEL PENETRATION. CUT PIECES OF RYANBATT TO FIT INTO THE WEBBING OF THE I-BEAM.
4. CUT THE RYANBATT ACROSS THE SHORTEST DIMENSION INCORPORATING THE MIDPOINT OF THE PENETRATION TO ENABLE THE BOARD TO BE FITTED INTO THE APERTURE.
5. APPLY RYANFIRE BRUSH GRADE MASTIC TO ALL THE INTERNAL EDGES OF THE APERTURE AND TO ALL THE CUT AND EXPOSED EDGES OF THE RYANBATT.
6. INSERT THE RYANBATT INTO THE OPENING TO SIT FLUSH WITH THE SURFACE OF THE WALL.
7. APPLY A 15MM X 15MM CONE OF RYANFIRE MASTIC TO THE JOINT BETWEEN THE RYANBATT AND THE PENETRATION.
8. APPLY A 5MM BEAD OF RYANFIRE MASTIC TO THE PERIMETER OF THE RYANBATT AND TO ANY JOINTS AND GAPS.
9. REPEAT THIS PROCESS TO THE OPPOSITE SIDE OF THE WALL.

STRUCTURAL STEEL PENETRATIONS (I-BEAM)

RYANBATT 502 | SERVOWRAP

Products	**RYANBATT 502** **RYANFIRE MASTIC** **RYANFIRE SERVOWRAP**
Tested System	**Penetration seal to steel beam**
Construction	**51mm Korok wall**
Penetration	**200mm I-beam**
Fire Integrity	**120 minutes**
Fire Insulation	**120 minutes**
Test Reference	**PF 20098 / FAS 210123**
V.Card Refernce	**V64.4.K**



INSTALLATION INSTRUCTIONS

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. CUT THE RYANBATT 502 TO THE REQUIRED SIZE TO FIT TIGHTLY INTO THE FULLY LINED APERTURE.
3. CUT THE RYANBATT 502 TO FIT TIGHTLY AROUND THE I-BEAM. CUT A PIECE OF RYANBATT TO FIT INTO THE WEBBING OF THE I-BEAM.
4. CUT THE RYANBATT ACROSS THE SHORTEST DIMENSION INCORPORATING THE MIDPOINT OF THE PENETRATION TO ENABLE THE BOARD TO BE FITTED INTO THE APERTURE.
5. APPLY RYANFIRE BRUSH GRADE MASTIC TO ALL THE INTERNAL EDGES OF THE APERTURE AND TO ALL THE EXPOSED & CUT EDGES OF THE RYANBATT.
6. INSERT THE RYANBATT INTO THE OPENING TO SIT FLUSH WITH THE SURFACE OF THE WALL.
7. APPLY A BEAD OF RYANFIRE MASTIC TO THE JOINT BETWEEN THE RYANBATT AND THE I-BEAM.
8. APPLY A 5MM BEAD OF RYANFIRE MASTIC TO THE PERIMETER OF THE RYANBATT AND TO ANY JOINTS AND GAPS.
9. WRAP 1 LAYER OF 300MM WIDE RYANFIRE SERVOWRAP AROUND THE BEAM WITH A 100MM OVERLAP. PRESS THE SERVOWRAP UP AGAINST THE SURFACE OF THE RYANBATT. PACK OUT THE GAPS IN THE WEBBING WITH ADDITIONAL LAYERS OF SERVOWRAP.
10. SECURE THE SERVOWRAP AROUND THE BEAM USING STEEL CABLE TIES 50MM FROM EACH END AND ONE NOMINALLY IN THE CENTRE.
11. APPLY A 30X30MM BEAD OF RYANFIRE MASTIC TO THE JOINT BETWEEN THE SERVOWRAP AND THE RYANBATT.
12. SEAL ANY EXPOSED EDGES OF THE SERVOWRAP USING FOIL TAPE.
13. REPEAT THIS PROCESS TO THE OPPOSITE SIDE OF THE WALL.

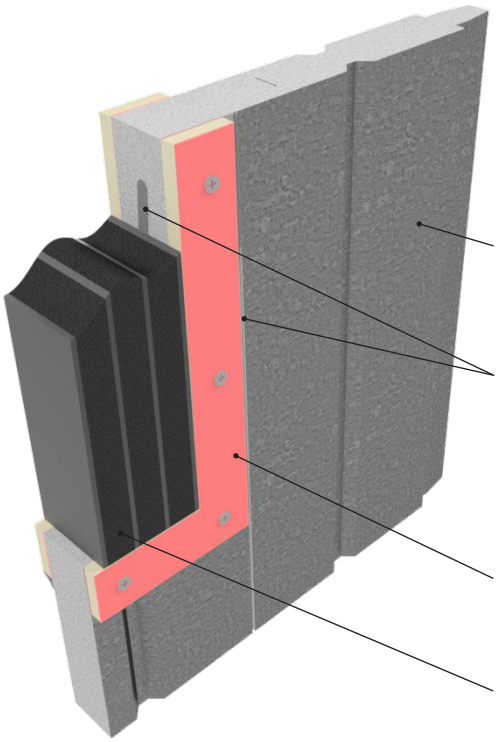
CONTROL JOINT VERTICAL LINEAR GAP

RYANSPAN

Products	**RYANSPAN** **RYANFIRE MASTIC** **RYANFIRE HP-X**
Tested System	**Vertical linear gap seal**
Construction	**51mm Korok wall**
Void Size	**Up to 100mm wide**
Test Reference	**23SFR00095**
V.Card Refernce	**V67.13**

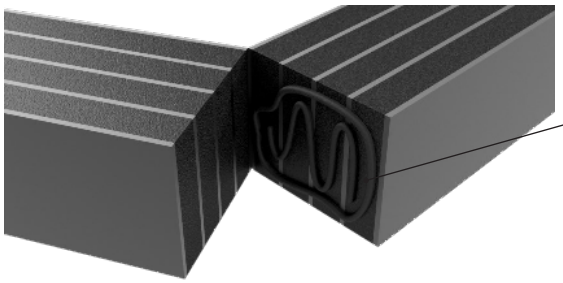
Fire Integrity:

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



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.



2 WAY TESTED FIRE RATED ACCESS PANEL

FYRESHIELD™ RANGE

Applications	System	Details	FRL
KOROK® Walls: Hinged FyreSHIELD PLUS	FyreSHIELDRange Sizes: • 300 x 300mm • 400 x 400mm • 450 x 450mm • 550 x 550mm • 600 x 600mm • Custom any size up to 600 x 600mm	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: FyreSHIELD™ for Korok Data Sheet Available from the Trafalgar Fire Knowledge Centre Technical Manuals page on the website	• - / 120 / 30 (direct exposure to fire side) • - / 60 / 60 (reverse installation, protected face)
KOROK® Ceilings: FyreSHIELD Screw-Fixed			• -/60/30

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.