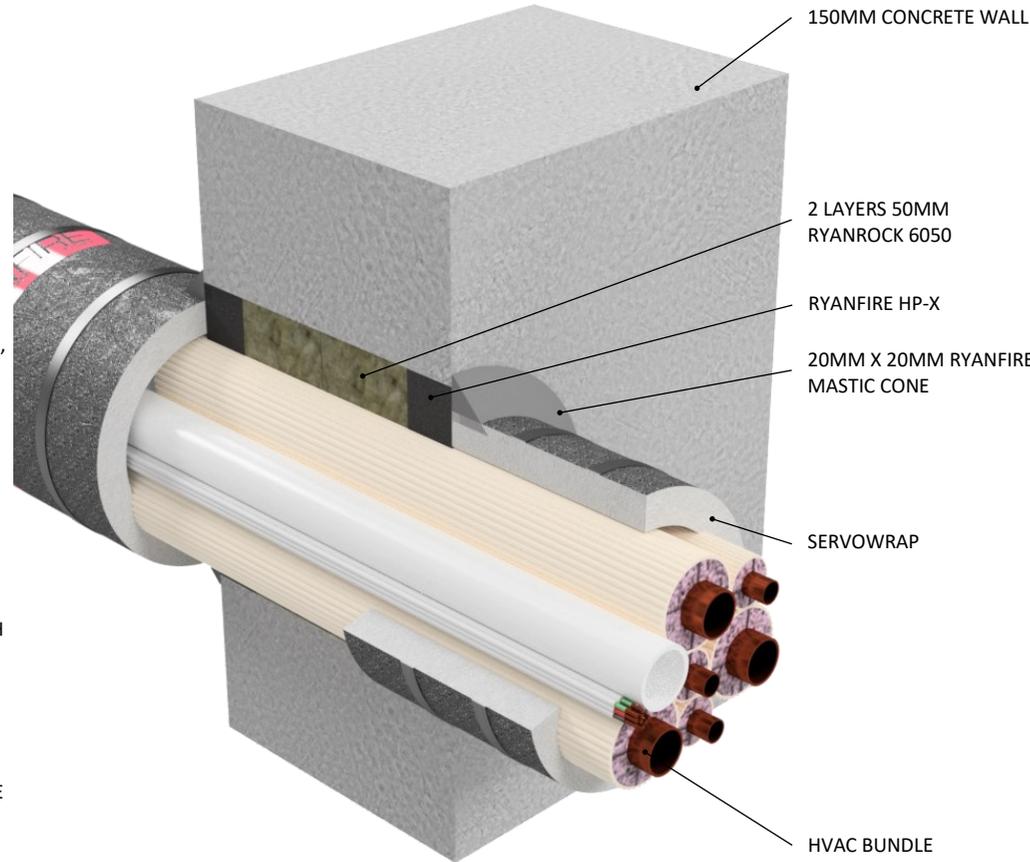


INSTALLATION INSTRUCTIONS

1. ENSURE THE APERTURE IS CLEAN AND FREE OF DUST AND DEBRIS.
2. INSERT A LAYER OF 50MM THICK RYANROCK INTO THE ANNULAR GAP BETWEEN THE HVAC BUNDLE AND THE WALL, RECESSED 25MM FROM THE SURFACE.
3. APPLY HP-X INTO THE ANNULAR GAP BETWEEN THE HVAC BUNDLE AND THE WALL TO A DEPTH OF 25MM, FINISHING FLUSH TO THE SURFACE OF THE WALL.
4. WRAP 1 LAYER OF 300MM WIDE SERVOWRAP AROUND THE BUNDLE WITH A MINIMUM 100 MM OVERLAP. SLIDE THE SERVOWRAP UP AGAINST THE SURFACE OF THE WALL.
5. SECURE THE SERVOWRAP AROUND THE BUNDLE USING STEEL CABLE TIES 50MM FROM EACH EDGE AND 1 NOMINALLY IN THE CENTRE.
6. SEAL ANY EXPOSED EDGES OF THE SERVOWRAP WITH FOIL TAPE.
7. APPLY A 20MM X 20MM CONE OF RYANFIRE MASTIC TO THE JOINT BETWEEN THE SERVOWRAP AND THE CONCRETE WALL.
8. REPEAT THIS PROCESS ON THE OPPOSITE SIDE OF THE WALL.
9. REMOVE ANY EXCESS SEALANT WITH A DAMP CLOTH.



Products: RYANROCK 6050
RYANFIRE HP-X
RYANFIRE SERVOWRAP
RYANFIRE MASTIC

Approvals: AS 1530.4/AS 4072.1

BK: 200

Ref: 22SFR00009

ID: C

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

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

Construction: 150mm concrete wall

Aperture: Max Ø133mm

Annular: 20mm - 35mm

Fire Integrity: 180 minutes

Fire Insulation: 180 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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Drawing Title
**HP-X + Servowrap to HVAC bundle
150mm concrete wall**

Scale NTS	Date July 2024
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Drawing Number V14.17	Rev 2.0
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