

X-SERIES

BAL 29, lightweight, reinforced, external insulating wall system.

TECHNICAL DOCUMENT: SYSTEM INSTALLATION & CONSTRUCTION DETAILS DIRECT-TO-FRAME SYSTEM

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POLYURETHANE FOAM SEALANT:

100% flexibility ensures integrity and weatherproofing of joints.

X-SERIES PANELS:

MASTERW

M grade polystyrene, light weight, designed to move with the frame

FIXINGS: Pre-assembled 50mm button and class 3 screw sets provide the right fix for every situation.

> ALLOY EXTERNAL CORNERS: With integrated reinforcing mesh for strength.

> > NO NEED FOR POST FORM REVEALS: No need to double frame to achieve brick like reveals.

X-SERIES SYSTEM -A WEATHER-TIGHT, ENERGY EFFICIENT, INSULATED WALL CLADDING SYSTEM.

FRAMED CONSTRUCTION. DIRECT TO FRAME.





TIMBER OR METAL STUD FRAME.

INTERNAL PLASTERBOARD LINING.

MASTERWALL BREATHER WRAP:

A superior translucent breather type paper which provides a high performance vapor control.

PREMIUM QUALITY MODIFIED LIQUID SEALANT:

Creates a gasket seal between back of panel and the flashing tape.

ALUMINIUM OR TIMBER WINDOW.

MASTERWALL SELF ADHERING FLASHING TAPE:

A high performance flashing system uniquely formulated for Masterwall.

POLYURETHANE FOAM SEALANT:

All cavities around penetrations filled with polyurethane sealant.

RENDER PROCESS:

Minimum 5mm approved polymer modified render system including all-over fiberglass mesh (embedded into first layer of render) and mesh jointing tape to all panels and 45° to all corners



SYSTEM SPECIFICATION

X-SERIES

EXPLODED VIEW DIAGRAM

Direct To Frame Construction

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SYSTEM SPECIFICATION

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Masterwall X-Series complies with the BCA 2019 provisions and

Refer to masterwall.com.au/downloads to view the complete Certificate of Conformity.

State or Territory variation(s).





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INTRODUCTION

Description

X-Series polystyrene panel is an external lightweight, reinforced, insulating wall panel, mechanically fixed to the outer face of the building. The panels are completed by the application of an approved polymer modified render, trims, sealants, opening flashings and decorative and waterproof coatings.

Traditional sand/cement render is not suitable on the X-Series panels.

X-Series panel is a Medium (M) Grade expanded polystyrene (EPS) panel that provides a rigid and thermally stable substrate for the render system to be applied to the face, ensuring high crack resistance and longevity in its performance to the decorative coatings that are applied to it.

EPS (and the combination of EPS and acrylic render) has a 60-year history of use in Europe and North America. **X-Series** complies as a Performance Solution with the NCC 2019, BCA Volumes 1 & 2.

Application

X-Series polystyrene panel is appropriate for use on timber and steel-framed residential and commercial buildings.

The lightweight panels are convenient to install and add minimum weight to the structure.

The product's thermal insulation properties contribute to the energy efficiency of the building. The ability to accept a range of approved acrylic render and decorative finishes allows a variety of aesthetic styles to be achieved, including traditional, heritage and modern.

The large panels are speedily installed, providing early enclosure and weatherproofing – assisting the achievement of early lock-up stage.

Composition

Panel: Medium (M) Grade expanded polystyrene (EPS) with included flame retardant. Grey in appearance.

Manufacture

The panels are manufactured locally from Australian and imported materials.

- As water ingression into timber frame can cause significant movement and thus risk cracking the external render, total frame protection from weather ingression should be implemented prior to the installation of **X-Series**. If for any reason, moisture is apparent in the timber frame after installation, this should be allowed to dry out thoroughly prior to the application of render.
- It is recommended that the installation of internal linings to all external walls should be completed prior to the start of the render process of the **X-Series** system. If installing internal linings after the completion of external render, use screw fixings only, as hammering nails will crack external render.



Sizes & Thicknesses

Standard panel size: 2400mm x 1200mm

Nominal thickness: 50mm, 75mm, 100mm, 125mm 2.88m²

Area:

Mass:

| Thickness | 50mm | 75mm | 100mm | 125mm |
|----------------|------|------|-------|-------|
| kg/m2 | 1 | 1.5 | 2 | 2.5 |
| Total sheet kg | 2.9 | 4.3 | 5.7 | 7.2 |

If other thicknesses are required, please consult Masterwall Australia.

Manufacturing Tolerances

| Length: | 2400mm ± 10mm |
|---------|---------------|
| Width: | 1200mm ± 5mm |

Thickness: ± 1.0mm

Density

20kg/m³ (Polystyrene only)

Water Vapour Transmission

520 ug/m2s (AS2498.5)

Panel Fire Performance AS/NZS 1530.3

a. Ingnitability = 5 b. Spread of flame = 0c. Heat evolved = 1 d. Smoke developed = 4

Colour & Packaging

The panel is branded X-Series

Warranty - 7 years

Masterwall Australia Pty Ltd warrants that its products are free from defects in materials and workmanship for a period of 7 years from the date of purchase. For a full description of the Warranty refer to the Masterwall Australia website (http://www.masterwall.com.au).

Limitation of Liability

Except as provided for in the warranty above, Masterwall Australia Pty Ltd is not liable for any direct, indirect or consequential loss which any user suffers, incurs or is liable for in connection with the supply of Masterwall Australia Pty Ltd's products, including without limitation, direct, indirect or consequential loss arising from third party claims occasioned by defects in products.



PROPERTIES

Thermal Performance

X-Series Direct to Frame

| Panel Thickness | Material R-value | Total R-value (Winter) | Total R-value (Summer) | Total R-value (Winter) | Total R-value (Summer) |
|--------------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | | Timber Framing | | Steel Framing | |
| 50mm | 1.3 | 1.8 | 1.7 | 1.8 | 1.7 |
| 75mm | 2.0 | 2.5 | 2.4 | 2.4 | 2.3 |
| 100mm | 2.6 | 3.2 | 3.0 | 3.1 | 3.0 |
| 125mm | 3.3 | 3.9 | 3.7 | 3.8 | 3.6 |

All thermal calculations are compliant with Australian Standard AS/NZS 4859.1:2018 (published 19/11/2018) which now include the allowance of thermal bridging of the timber/steel frame.

The complete system R Rating including **X-Series** panel, breather wrap, stud frame cavity and 10mm plasterboard. Full system 'calculation of thermal performance' available upon request.

As significant variations occur in both thickness and/or number of layers applied (as well as the types of approved acrylic render used on external walls), an R Rating is not applied to the completed render finish.

The optional thicknesses of the panel provide the opportunity to achieve higher R Ratings without the need to install additional materials.

Although the finished **X-Series** panels are water resistant, a breathable frame wrap is required over framing. If a reflective insulation is required for enhanced thermal performance or to achieve other construction characteristics, that material is to be **a breather grade** – to allow for vapour transmission.

Bushfire Attack Level (BAL A-29)

The **X-Series** BAL A-29 system must be comprised of a precise group of specified materials to meet the Bushfire Attack Level standard as tested (AS1530.8.1-2007). This includes the X-Series panel with all the X-Series ancilliaries, i.e. X-Series Breather Frame Wrap, window flashing tape, fixings, fixing buttons, MS sealants, foam sealants and selected Master A.R.T render system.

Impact Resistance

When correctly installed, **X-Series** panels offer similar resistance to impact and damage as other common non-metallic sheet materials. In addition to this feature, the panels will not shatter or fracture beyond the area of impact. Minor damage will be partly corrected by the self-recovery properties of the EPS.

Weatherproofing

The **X-Series** system provides a weatherproof facade with drainage cavity to the building having been tested to comply with the Verification Method FV1 in Volume 1 of the NCC and V2.2.1 of Volume 2. Full reports available on request.

Substrates

Timber framing must comply with:

AS 1684 - National Timber Framing Code.

Metal framing must comply with:

AS 3623 - Domestic metal framing.

Structural bracing is to be integral to the wall frame system.



X-Series System does not contribute to the structural integrity of the framing.

The control factors for installation of X-Series panels are:

| Support Spacing: | 450mm framing - 50mm 450mm & 600mm framing - 75, 100 & 125mm |
|-------------------|---|
| Building Classes: | 1 to 10 |
| Wind Loadings: | N1 to N4 (classes 1 & 10). Up to 3 kPa (classes 2-9) |

Trims and Starter Channels

Mesh reinforced alloy corner trims are preferred and are to be applied to all external corners/openings. Galvanised or stainless steel trims are not recommended.

Starter channels are PVC and sized to the equivalent panel thickness.

Flashing Tape

Flexible adhesive backed Aluminium **Masterwall** Flashing Tape typically used around windows, doors and underneath control joints as a high quality adhesive flashing system.

Window Flashing Sealant

A premium quality modified liquid sealant applied to the face of the window flashing tape. Urethane foam sealants are not to be used in this application.

Joint Sealant

A flexible urethane foam sealant should be applied to all butt joints - see page 25.



Screw Fixings

Class (3) screws, 10 gauge fitted with a 50mm diameter **Masterwall** plastic button. Class (3) screws are specified regardless of the geographic location.

Maximum Fixing Spacing (mm) for X-Series Polystyrene Panel, M Grade, Minimum <u>50mm</u> Thickness

Design ULS Pressure
(kPa) AS/NZS 1170.2)Stud Centres
450mm1.004001.504002.003502.502803.00240

Maximum Fixing Spacing (mm) for X-Series Polystyrene Panel, M Grade, Minimum <u>75mm</u> Thickness

| Design ULS Pressure (kPa) (AS/NZS 1170.2) | | res 600mm |
|--|-----|--------------|
| 1.00 | 400 | 400 |
| 1.50 | 400 | 400 |
| 2.00 | 400 | 350 |
| 2.50 | 390 | 280 |
| 3.00 | 330 | 240 |
| | | |

NOTES:

1. The use of X-Series Direct-To-Frame System has been validated for Serviceability Limit State Pressures up to +0.82kPa and -1.23kPa for Weatherproofing Performance.

Maximum Fixing Spacing (mm) for X-Series Polystyrene Panel, M Grade, Minimum <u>50mm</u> Thickness

| Stud Centres 450mm | | | | | |
|--------------------------------|-------------------------------|----------------------------|--|--|--|
| AS 4055 Wind Classification | Further than 1.2m the corners | Within 1.2m of the corners | | | |
| N1 | 400 | 400 | | | |
| N2 | 400 | 400 | | | |
| N3 | 400 | 367 | | | |
| N4 | 400 | 248 | | | |

Maximum Fixing Spacing (mm) for X-Series Polystyrene Panel, M Grade, Minimum <u>75mm</u> Thickness

| | Stud Centres 450mm | 1 | Stud Centres 600mn | 1 |
|--------------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|
| AS 4055 Wind Classification | Further than 1.2m the corners | Within 1.2m of the corners | Further than 1.2m the corners | Within 1.2m of the corners |
| N1 | 400 | 400 | 400 | 400 |
| N2 | 400 | 400 | 400 | 400 |
| N3 | 400 | 400 | 400 | 367 |
| N4 | 400 | 330 | 400 | 248 |



The screws are selected to suit either timber framing or steel framing, and are available in the following lengths.

| Length | Туре | Gauge | Relevant Panel Thickness | | |
|--------|-------|-------|---------------------------------|--------------|--|
| 75mm | Chip | 10 | 50mm | Self Driller | |
| 75mm | Chip | 10 | 50mm | Needle Point | |
| 100mm | Bugle | 10 | 75mm | Self Driller | |
| 100mm | Bugle | 10 | 75mm | Needle Point | |
| 130mm | Bugle | 10 | 100mm | Needle Point | |
| 150mm | Bugle | 10 | 125mm | Needle Point | |

• Timber Frame - Screw lengths should always be a minimum of 25mm longer than the thickness of the panel specified.

• Steel Frame - Screw lengths should always be a minimum of 15mm longer than the thickness of the panel specified.

INSTALLATION

Breather Frame Wrap

Masterwall Australia recommends use of **Masterwall** Breather Frame Wrap or similar. Note: Under no circumstances should a non-breathable paper be used behind **X-Series** panels.

Layout

X-Series panels may be laid either vertically or horizontally (for either frame or masonry substrates) according to the best fit for the 2400mm x 1200mm sheet - horizontal, staggered joint layout is always the preferred option.

If the wall height is less than or equal to 2400mm, then practicality may dictate that the **X-Series** panel be laid vertically - but horizontal layout is the preferred option. If using this option, all vertical joints must be either back blocked or fixed to a double stud to fully support edge of panel.

If the wall height is greater than 2400mm, then the panels should always be laid horizontally, in a brickwork or stretcher bond pattern, with each 1200mm vertical joint staggered up through the height of the wall.

A horizontal layout is the preferred option.

Supporting Framework

Edges of the X-Series panels may require support on studs, noggings or other intermediate blocking.

X-Series panels may be cantilevered or projected beyond supports by the same distance as a given panel's thickness.

Fixed-back blocking techniques are mandatory. Full-stud width (min 90mm) support is required. Back blocking timber must be MGP 10 or greater. Merchant grade is not permitted. Adhesive fixed back blocking is not permitted.

Supports to intermediate joints are required, as shown in this table.

| Panel Thickness | 50mm | | 75mm | | 100mm | | 125mm | |
|-------------------|------|---|------|---|-------|---|-------|---|
| Joint Orientation | V | Н | V | Н | V | Н | V | Н |
| Studs 450 crs | ~ | × | ~ | × | ~ | × | ~ | x |
| Studs 600 crs | | | ~ | × | ~ | x | ~ | x |

(V = Vertical) (H = Horizontal)

Supports/blocking are required to all edges around openings.



Cutting

(a) Masonry Blade: For 50mm, 75mm, 100mm &125mm X-Series panels, a diamond-tipped masonry blade is the most accurate, time-efficient and clean way to cut/trim panels (see MSDS).

(b) Hand Saw: A fine-tooth saw is also an efficient way of cutting the X-Series panel.

X-Series panels should be accurately cut to size to produce close butt joints between panels.

Health & Safety

Use of personal protective equipment (face masks and safety goggles) is recommended. The fine dust created by mechanical cutting is hazardous, and protection is recommended, including face masks and safety goggles. Mechanical cutting should be performed in well-ventilated spaces. Power tools can be fitted with effective dust-extraction systems.

Fixing To Framing

- (a) Centres: X-Series panels of 75mm and thicker may be fixed to either 450mm or 600mm stud spacings, whereas 50mm panels may only be fixed to 450mm or less. Fixings are to be at a maximum 400mm centres vertically to all perimeter and intermediate supports. Fixings around perimeter of panels should be 25mm in from the edge of the panel (see Wind Load Fixing Chart page 12).
- (b) Fixings: Fixing screws and buttons should be the type and suitability as set out in this guide.
- (c) Appearance: When fastened correctly, the screw head and button should be slightly countersunk in a concave recess on the outer surface of the panel, and located so as to not crush the edge of the panel. The button should always retain its circular shape i.e. if the button begins to flare or fold it has been screwed too far towards the frame.

Sealing - Joints

Prior to closing up of all joints between panels (and between panels and other building elements), a flexible urethane foam is required to the centre the gap between panels.

This forms a mechanical seal for weatherproofing, and converts the many individual panels into a single monolithic, insulated skin.

Foam urethane sealant is therefore required to:

- (a) All butt joints
- (b) All external corners and butt jointed internal corners

Sealing – Openings

Prior to the application of the panel, **all** openings must be flashed from the reveal to the frame. **Masterwall Australia Pty Ltd** recommends and supplies adhesive aluminium **Masterwall** Flashing Tape for just this purpose, and is suitable for both aluminium and timber windows. This proven flashing method reduces the risk of water penetration. In turn, the panels are then to be sealed with a premium quality modified liquid sealant to the face of the flashing tape to form a gasket seal around the opening.

Note: **X-Series** panels should not be externally sealed to window/door reveals at this point, post installation and prior to render application. Sealants should never be rendered over, as render systems, with limited movement capabilities, will restrict a sealant's ability to move according to manufacturer's specification. Sealants for openings should be applied after the render system has been applied - never before!



Sealing – Other Penetrations (including wiring, plumbing, joists, ducting)

Where possible all penetrations through the **X-Series system** should be treated as per window detail, incorporating flashing tape and liquid urethane sealant. This is of high importance for floor and pergola joist penetrations, electrical meter boxes, ducting and the like.

It is then recommended that a 10mm minimum clearance gap be left between the **X-Series** panel and the penetration and caulked using **Masterwall** flexible expanding foam urethane sealant prior to render application.

Smaller penetrations such as plumbing or electrical conduit should have a 10mm minimum clearance gap between the **X-Series** panel and the pipe and caulked using **Masterwall** approved flexible expanding foam urethane sealant prior to render application.

Note: Extra mesh tape is required around the penetration for added reinforcing during the render process. **Masterwall Australia Pty Ltd** recommends the use of liquid sealants to all windows after the rendering process has been completed. Please note that render systems are not sealants i.e. an opening cannot be sealed by the application of an acrylic render system. Render systems are water-shedding technologies, not weather-proofing technologies.

Control Joints and Articulation Relief Joints

Control joints for expansion should coincide with control joints within the building structure and substrate, and should be placed at all perceived stress points or weak areas of excessive movement within the building structure. Control joints should be placed at a maximum of walls that are over 20 meters long and at all mid-floor breaks. It is recommended that panel area below windows that is less than 300mm in height should be relieved with 'Articulation Relief Joints' of the render coating, at the corners of the opening (see Finishing: page 16). Contact Masterwall Australia for further information.

Articulation relief joints of the render coating are to be formed by cutting or forming a 'V' groove into the completed base coats, only to 70% depth of the render, not into the **X-Series** panel. The applied top coats shall replicate the 'V' groove to leave a visible line.

Where control joints are part of the building construction, the joint is to be expressed in the **X-Series** panels as an open joint, free of construction urethane, and finished as for all other open edges (including external corners applied to each edge).

Panel to panel control joints should be located on double studs, which are then to be sealed with flashing tape, which is then sealed to the rear of each panel with the use of a premium quality modified liquid sealant.

All control joints should feature either Ableflex (or similar) or backer rod as the primary seal, which should be set back in the control joint a minimum of 8mm where it must be caulked by others after the render process has been completed. – See Construction Details Manual. All Control Joints should be free of render products.

Corners, Edges, Openings & Returns

All panels to external corners must be butt joined (square) to give maximum strength to the corner.

Butt joints are required to all internal corners. Foam urethane sealant is required in this butt joint.

To form a total weatherproof face, all joints and abutments require sealing with foam urethane sealant.

Masterwall Alloy External Corners should be applied to all of the following areas:

(a) All external corners

(b) All openings

(c) All bottom edges of panel where a starter channel is not required in the detail.

These trims are to be in long lengths and set accurately to be plumb, level and straight.



Skyline System

The **Skyline System** is an architectural concealed waterproofing detail for use on parapet designs, featuring clean, uninterrupted lines. The **Skyline System** is concealed by the applied render finish and eliminates the need for unsightly pressed metal capping. It is also used as a waterproofing detail for fixing blocks within the **X-Series, Masterwall** and **K-Series Systems**.

The **Skyline System** membrane is a pressure sensitive self-adhesive butyl tape, 0.75mm in thickness, containing a nonwoven polyester fibre face, ready for the application of high polymer render. Able to withstand building movement, it has 35% elongation breaking limit and is serviceable from -10° to 100° Celsius.

Important Note: As the **Skyline System** is a total waterproofing detail, no fixings should ever penetrate the horizontal surface of the completed parapet. All fixings of balustrades and the like should only be mounted on the vertical wall surface only.

Finishing

When all **X-Series** panels have been installed (complete with sealants and edge trims) a 5mm minimum thickness of an approved acrylic render system is required. The fibreglass reinforcing mesh is embedded into the first skim coat of render.

The approved acrylic render is applied using conventional techniques. The render also flush finishes all mechanical fixings.

Traditional sand/cement renders are not suitable for application to X-Series panels.

When the skim coats are dry, the selected approved finishing coat can be applied. This coat can be smooth or textured, and coloured as preferred.

A minimum acceptable result can be achieved by the following sequence:

- 3mm skim coat (including Fibreglass Reinforcing Mesh)
- 2mm skim coat
- 1.5mm top coat and/or paint finish

• When applying **X-Series System** approved render systems, ensure to follow the render system manufacturer's specifications.

Articulation relief joints of the render coating are to be formed by cutting or forming a 'V' groove into the completed base coats, only to 70% depth of the render, not into the **X-Series** panel. The applied top coats shall replicate the 'V' groove to leave a visible line.

Storage, Handling, Protection

X-Series panels delivered to site should be stored flat and evenly supported. They should be covered or otherwise protected from damage or soiling.

If stored outside panel stacks are to be covered, a material/canvas cover should be utilized. Under no circumstances should a black plastic cover be used.

During installation, the **X-Series** panels should be handled with care to prevent edge damage or fracture.

Particular care is required during windy conditions, as unsecured panels can be severely damaged.

Continuous exposure may result in deterioration and minor fretting of exposed edges of the panel. This is to be removed prior to proceeding with finishing or sealing. As with all sheet materials, protection from impact damage is required.

The application of the approved acrylic render should, wherever possible, follow the installation of internal services, fittings and linings – when the risk of damage is minimised.

Timely application of the render will complete the wall system - and protect the panels from damage.



Repair

Panels that are fractured or severely damaged (before or after fixing) should be rejected or cut down to size for use.

Minor penetrations, edge fractures or crushed areas may be site-patched with the reinforcing mesh and an approved acrylic patching render.

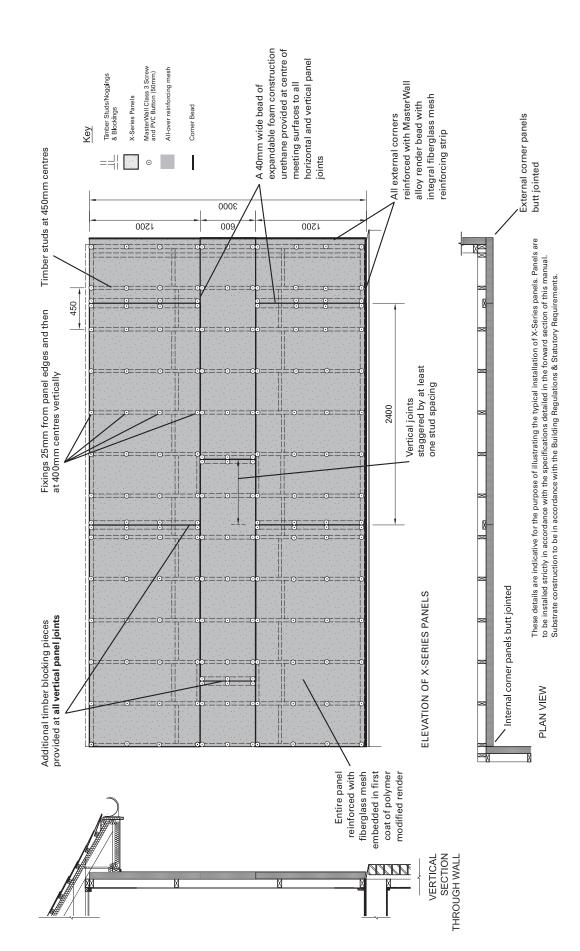
Waste Management

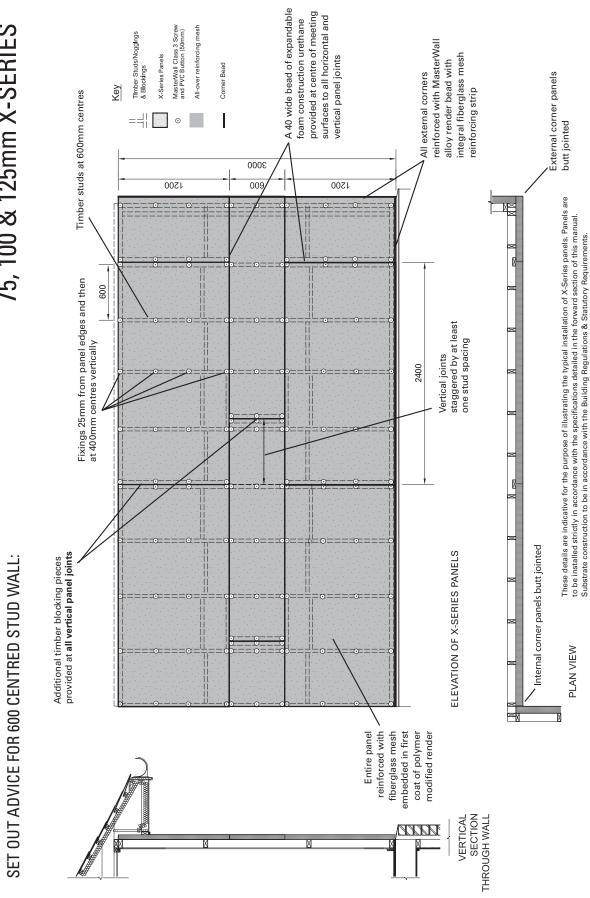
Being lightweight, the panel material is readily dispersed by the wind. To prevent a nuisance, all off-cuts and residue from cutting should be stored in tied plastic bags for removal to a place of legal disposal. Attention to detail - in particular to spacing of backblocking - will contribute to a reduction in the amount of waste and off-cut materials.

Disclaimer

Whilst every effort has been made to ensure the information in this manual is correct at the time of printing, **Masterwall Australia Pty Ltd** reserves the right to change the specifications of all products referred to in this manual at any time. All changes made to this manual are uploaded on to our website www.masterwall.com.au.

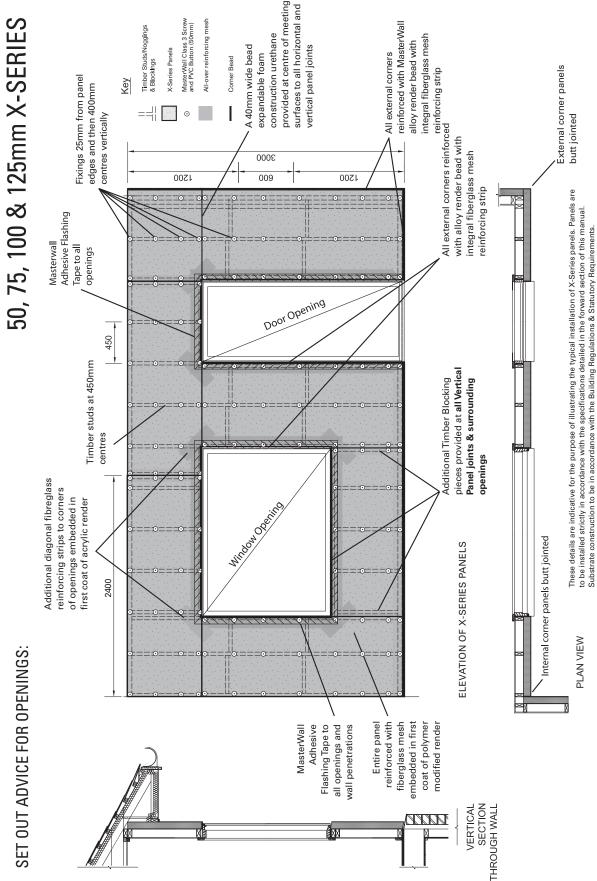
50, 75, 100 & 125mm X-SERIES



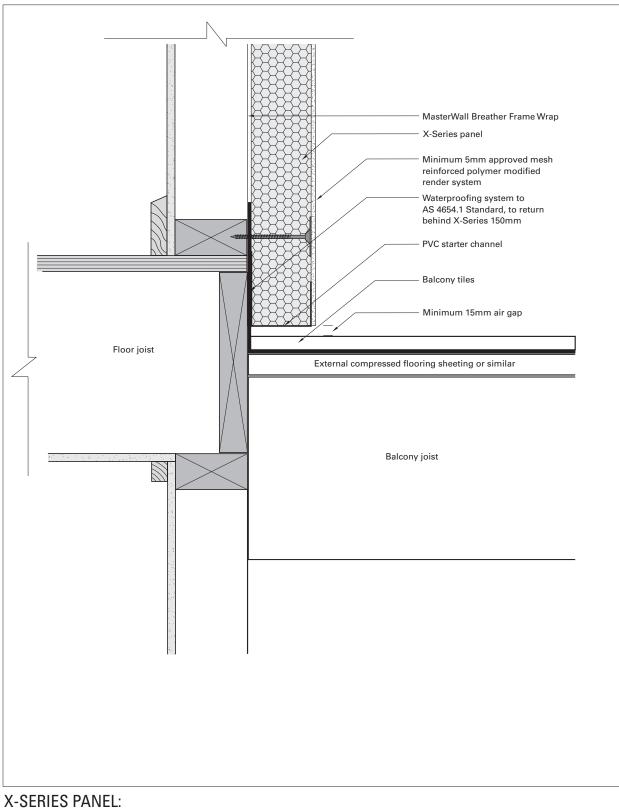


75, 100 & 125mm X-SERIES

X-SERIES

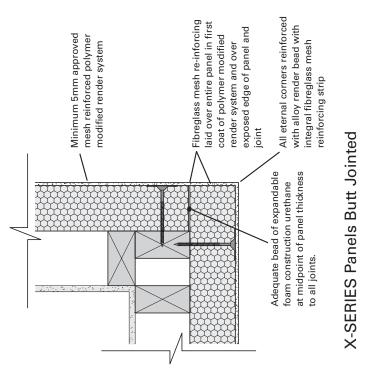






BALCONY SOLID FLOOR JUNCTION

50, 75, 100 & 125mm X-SERIES





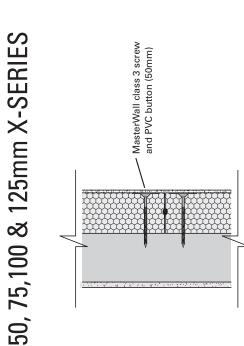
EXTERNAL CORNER - PLAN VIEW

INTERNAL CORNER - PLAN VIEW

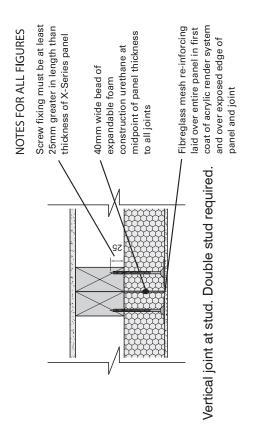
Adequate bead of expandable foam construction urethane at midpoint of panel thickness to all joints. X-SERIES Panels Butt Jointed

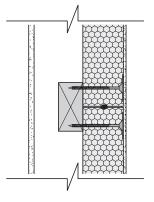
These details are indicative for the purpose of illustrating the typical installation of X.Series panels. Panels are to be installed strictly in accordance with the specifications detailed in the forward section of this manual. Substrate construction to be in accordance with the Building Regulations & Statutory Requirements.

TYPICAL CORNER JOINTS:



TYPICAL JOINTS BETWEEN PANELS:



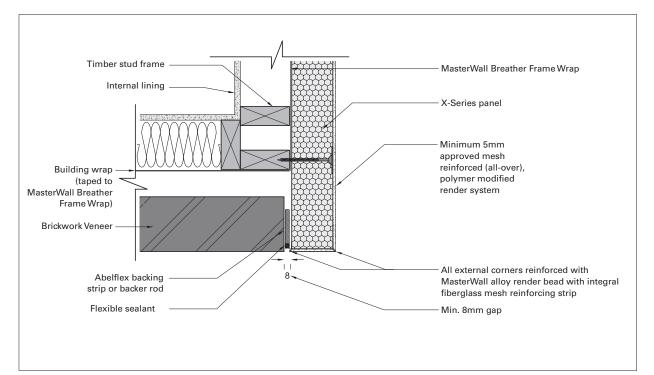


Vertical panel joints between studs. Back blocking required fixed to frame.

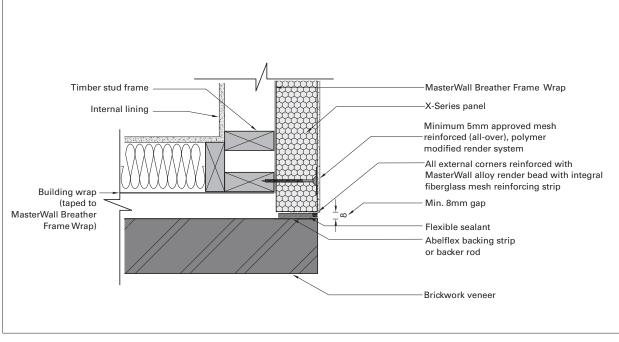
VERTICAL JOINTS - PLAN VIEW





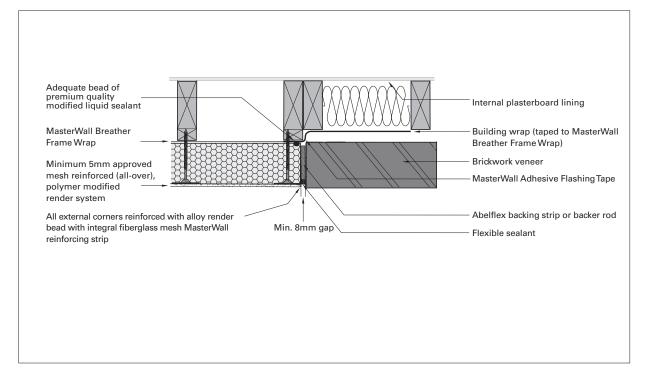


X-SERIES PANEL / BRICK VENEER EXTERNAL CORNER: JUNCTION - 1

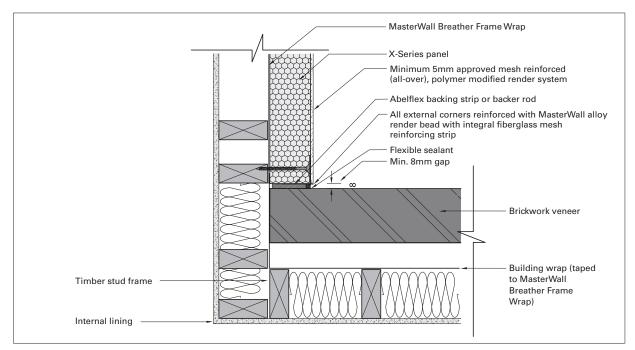


X-SERIES PANEL / BRICK VENEER EXTERNAL CORNER: JUNCTION - 2



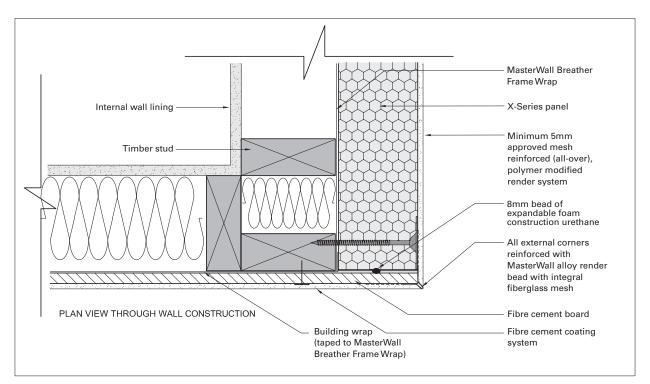


x-series panel / brick veneer construction control joint: JUNCTION - 3

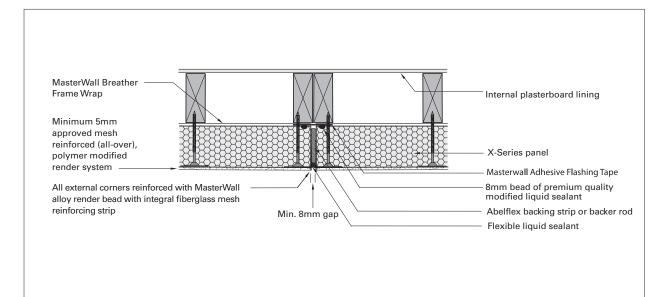


X-SERIES PANEL / BRICK VENEER INTERNAL CORNER: JUNCTION - 4



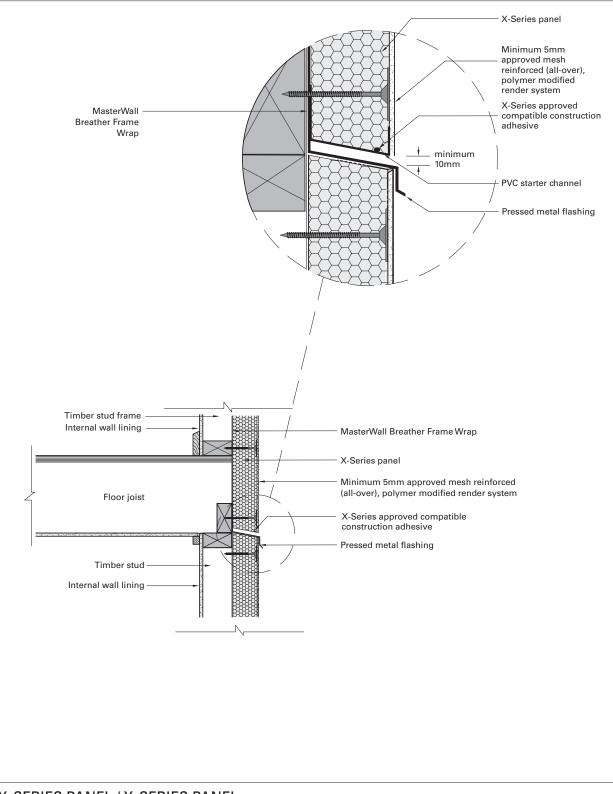


X-SERIES PANEL / FIBRE CEMENT BOARD: JUNCTION



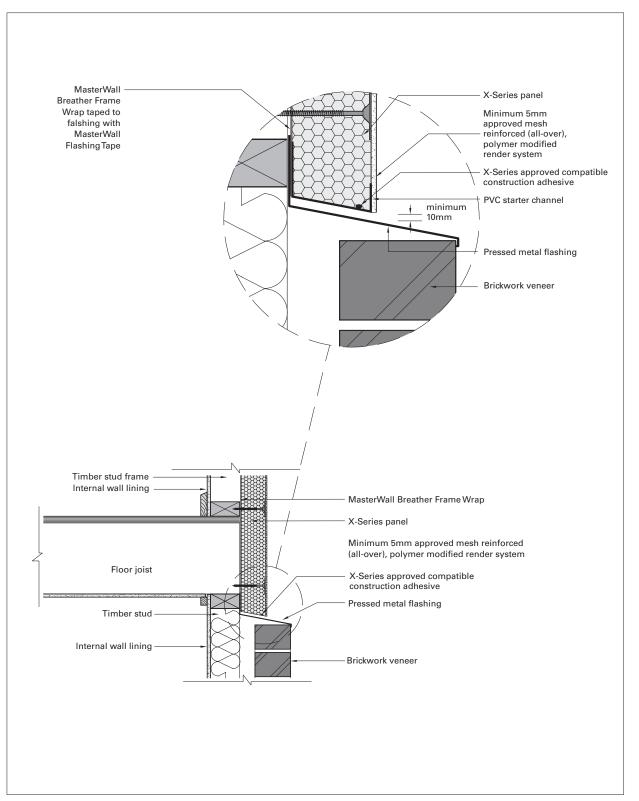
X-SERIES PANEL / X-SERIES PANEL: CONSTRUCTION CONTROL JOINT





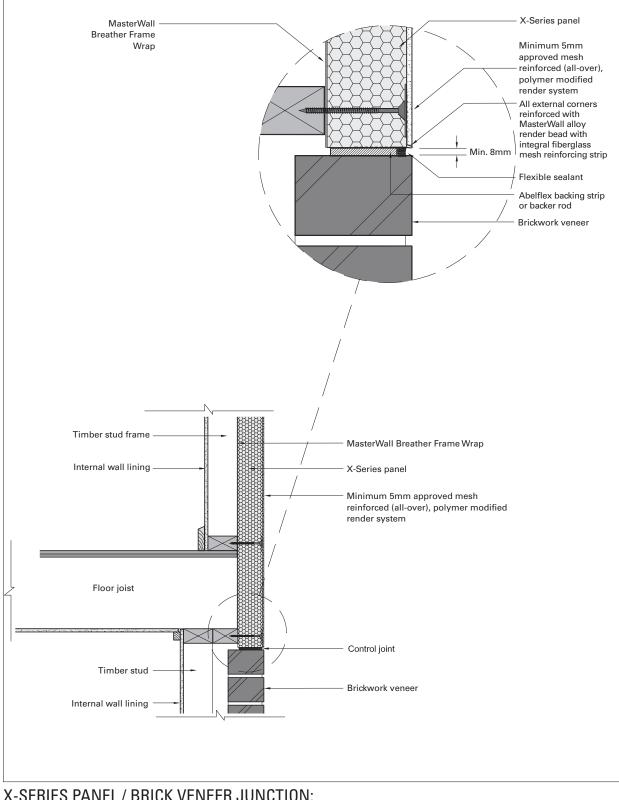
X-SERIES PANEL / X-SERIES PANEL: CONSTRUCTION CONTROL JOINT - MID FLOOR BREAK





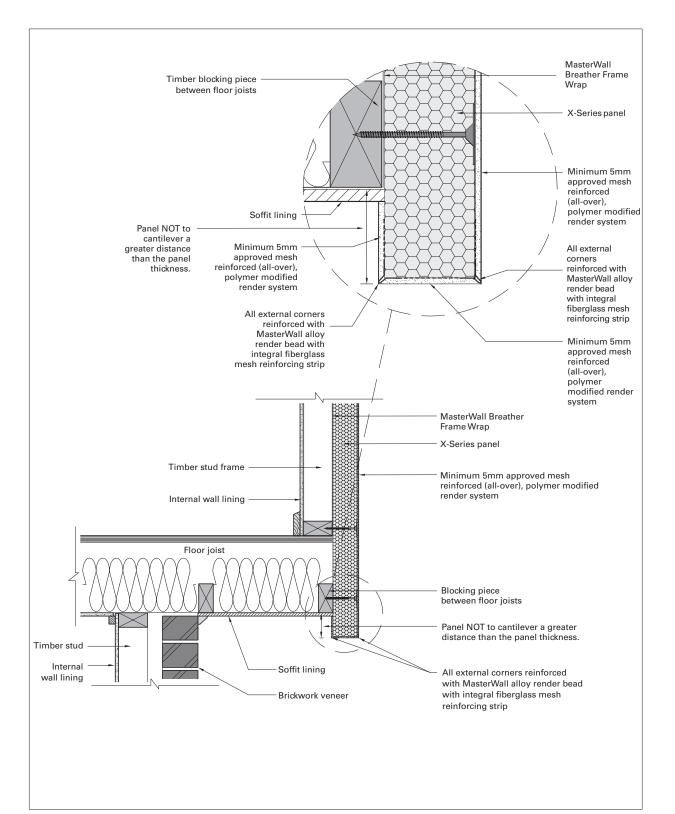
X-SERIES PANEL / BRICK VENEER: JUNCTION - FIRST FLOOR LEVEL STEP OUT





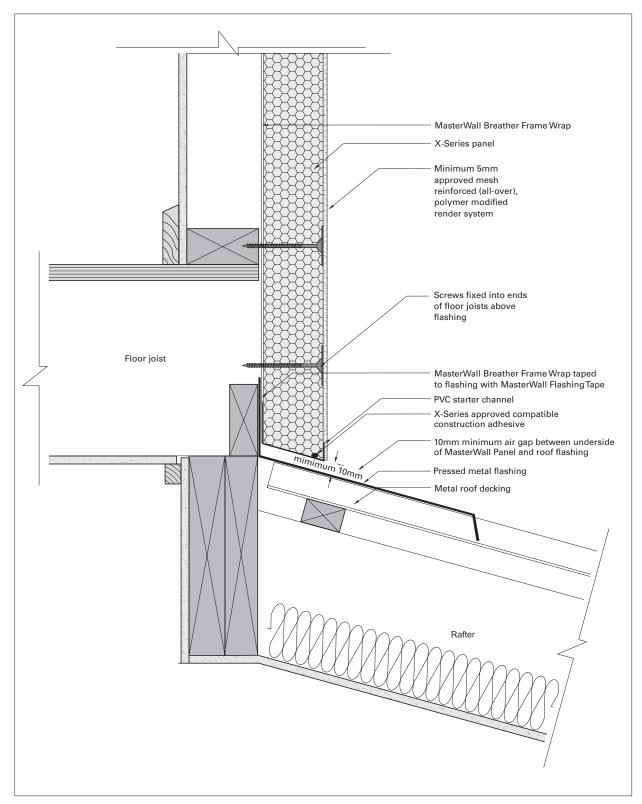
X-SERIES PANEL / BRICK VENEER JUNCTION: FIRST FLOOR LEVEL FLUSH JOINT





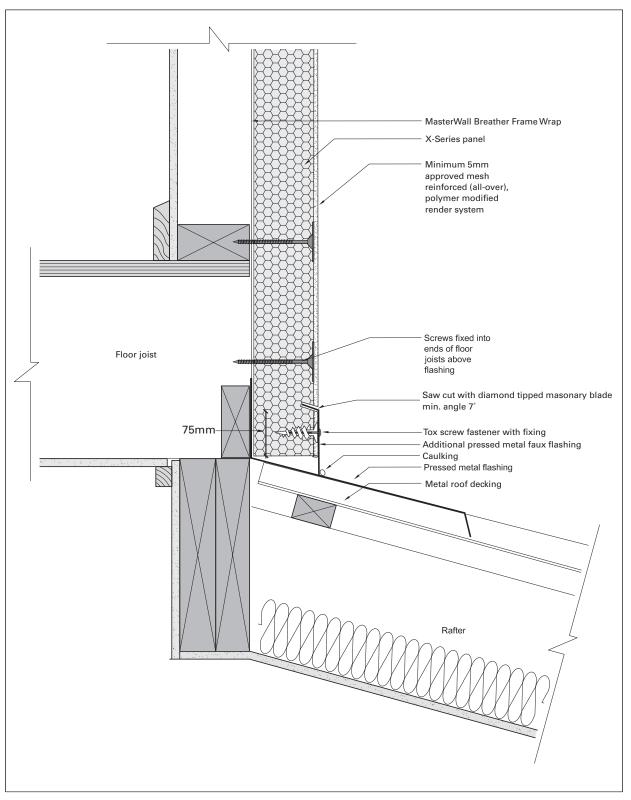
X-SERIES PANEL: OVERHANGING FIRST FLOOR LEVEL





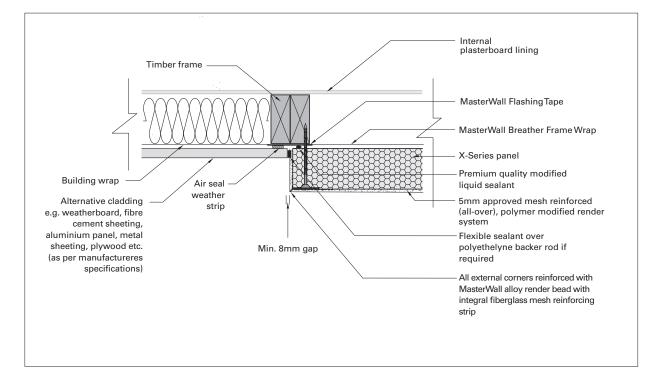
X-SERIES PANEL: LOWER ROOF JUNCTION - REAR FLASHED



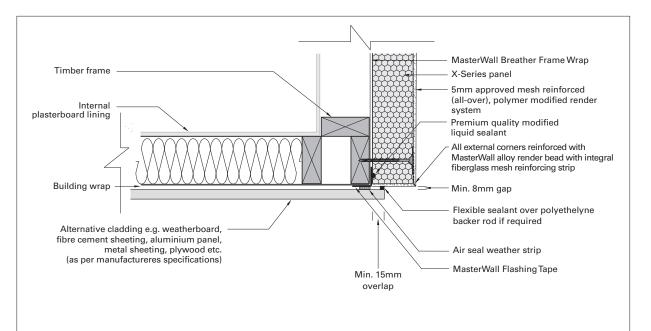


X-SERIES PANEL: LOWER ROOF JUNCTION WITH ADDITIONAL FAUX FLASHING



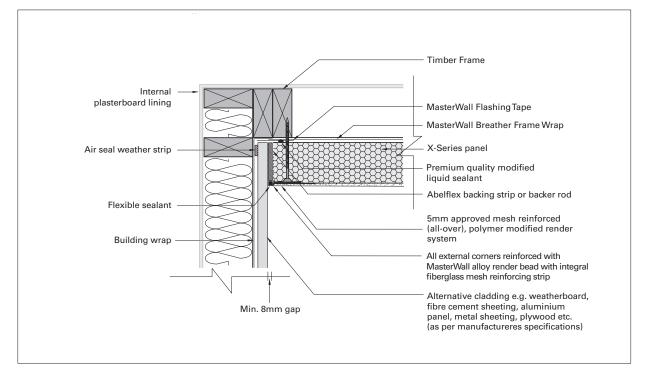


X-SERIES PANEL: UNIVERSAL JUNCTION

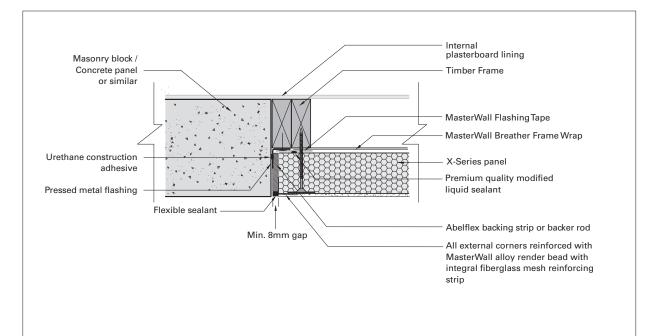


X-SERIES PANEL / EXTERNAL CORNER: UNIVERSAL JUNCTION



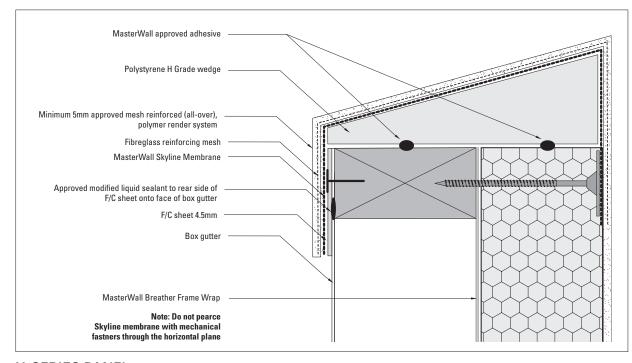


X-SERIES PANEL / INTERNAL CORNER: UNIVERSAL JUNCTION

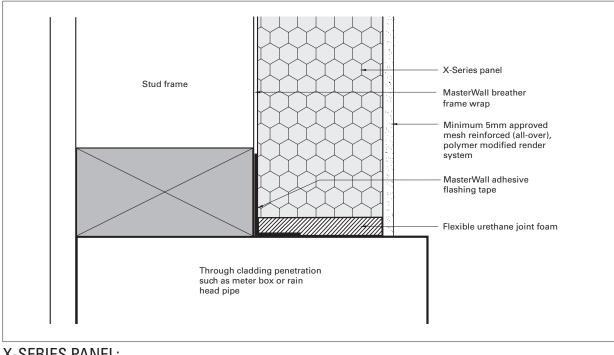


X-SERIES PANEL / SOLID MASONRY: UNIVERSAL JUNCTION

X-SERIES

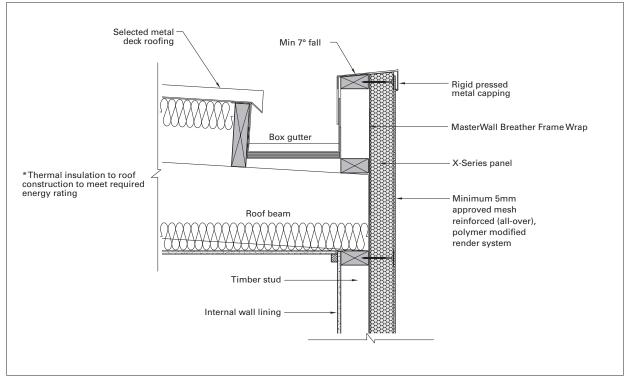


X-SERIES PANEL: RENDERED PARAPET WALL WITH SKYLINE SYSTEM WATER PROOFING

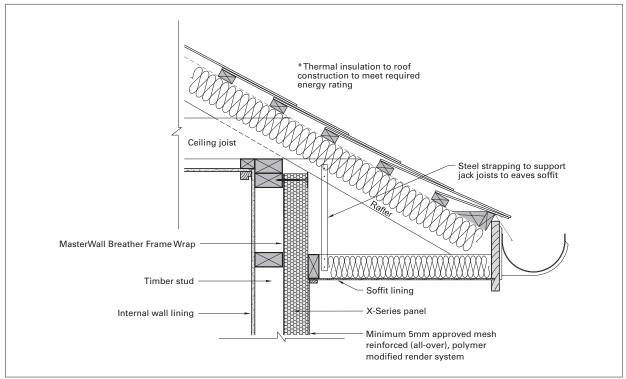


X-SERIES PANEL: PANEL PENETRATION



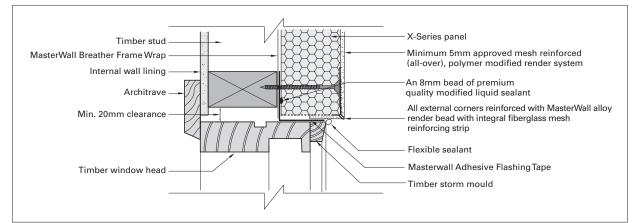


X-SERIES PANEL / ROOF JUNCTION: PARAPET WALL

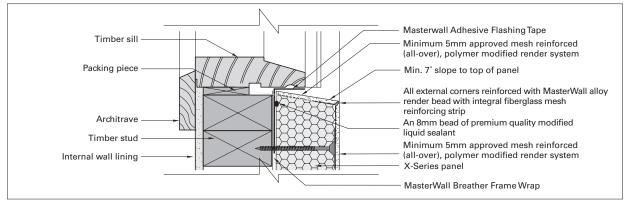


x-series panel / roof junction: PITCHED ROOF WITH SOFFIT LINING

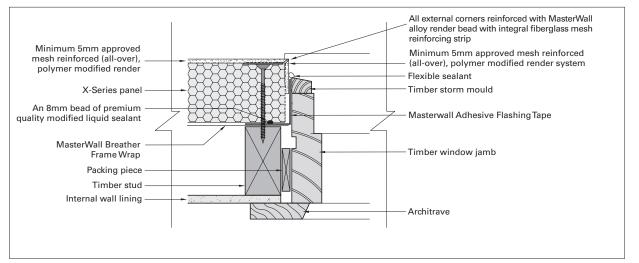




X-SERIES PANEL / TIMBER WINDOW: TYPICAL HEAD DETAIL

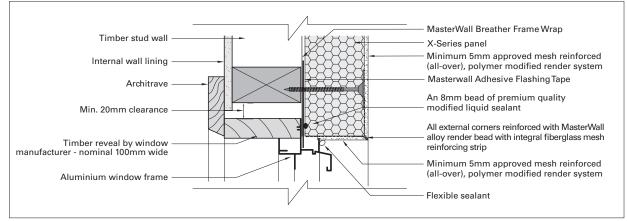


X-SERIES PANEL / TIMBER WINDOW: TYPICAL SILL DETAIL

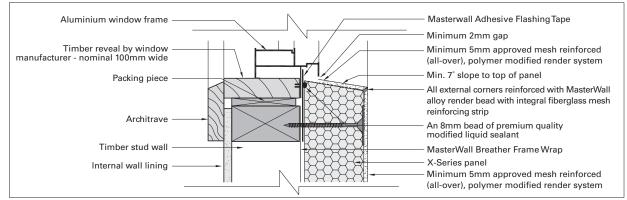


X-SERIES PANEL / TIMBER WINDOW: TYPICAL SIDE JAMB DETAIL

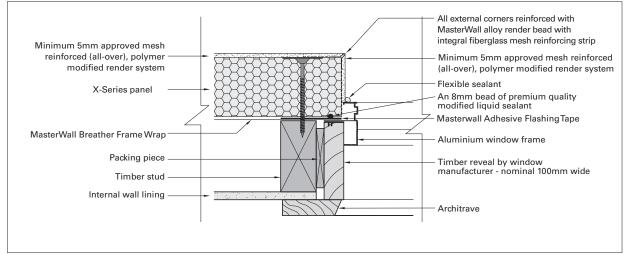




X-SERIES PANEL / ALUMINIUM WINDOW: TYPICAL HEAD DETAIL



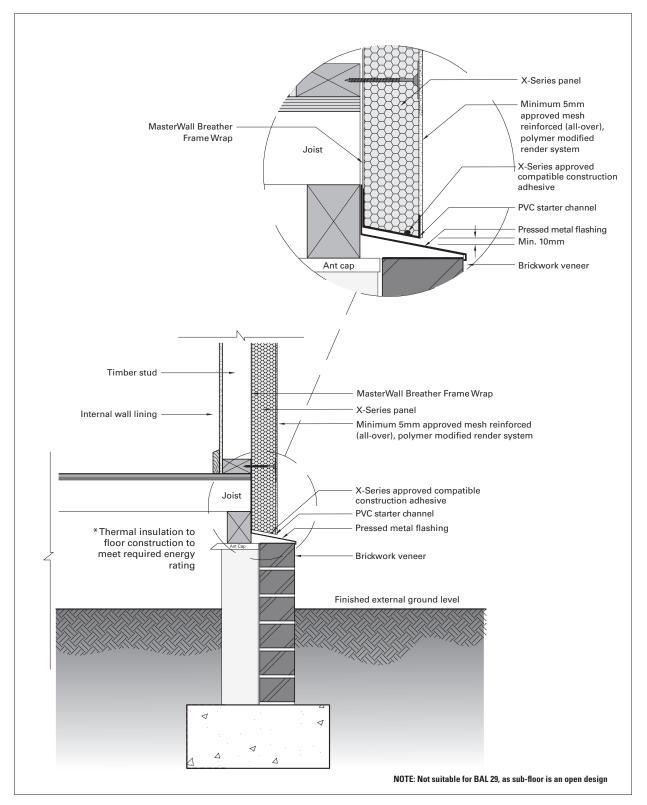
X-SERIES PANEL / ALUMINIUM WINDOW: TYPICAL SILL DETAIL



Note: Window system to be self draining.

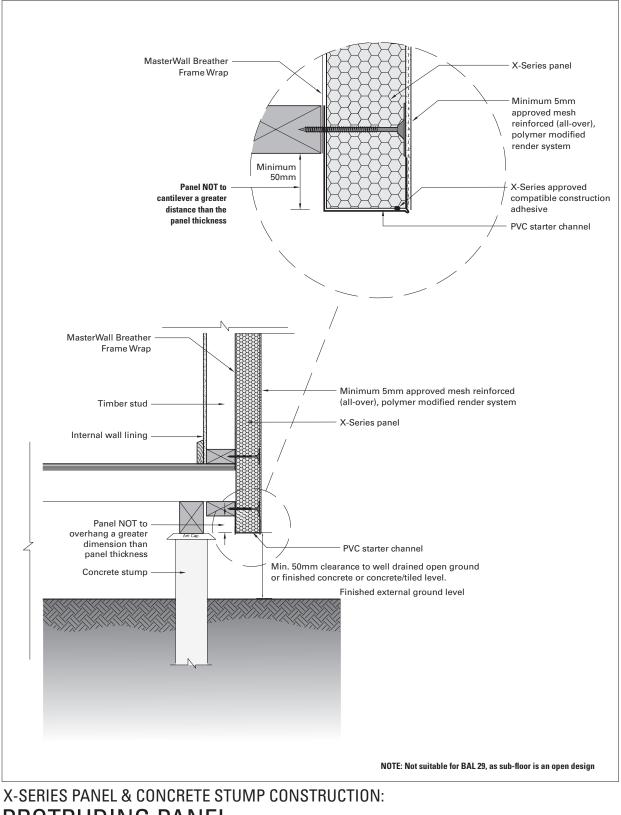
X-SERIES PANEL / ALUMINIUM WINDOW: TYPICAL SIDE JAMB DETAIL





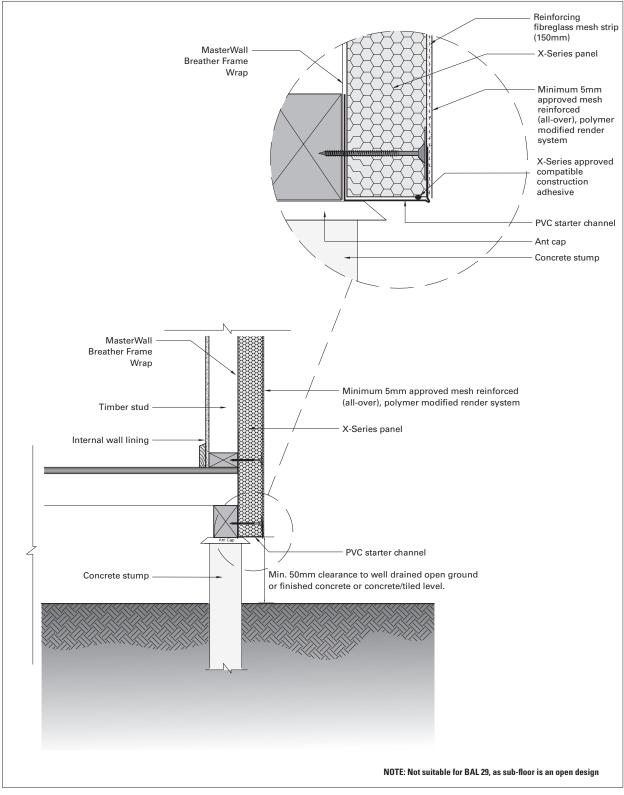
X-SERIES PANEL & BRICKWORK JUNCTION: GROUND LEVEL





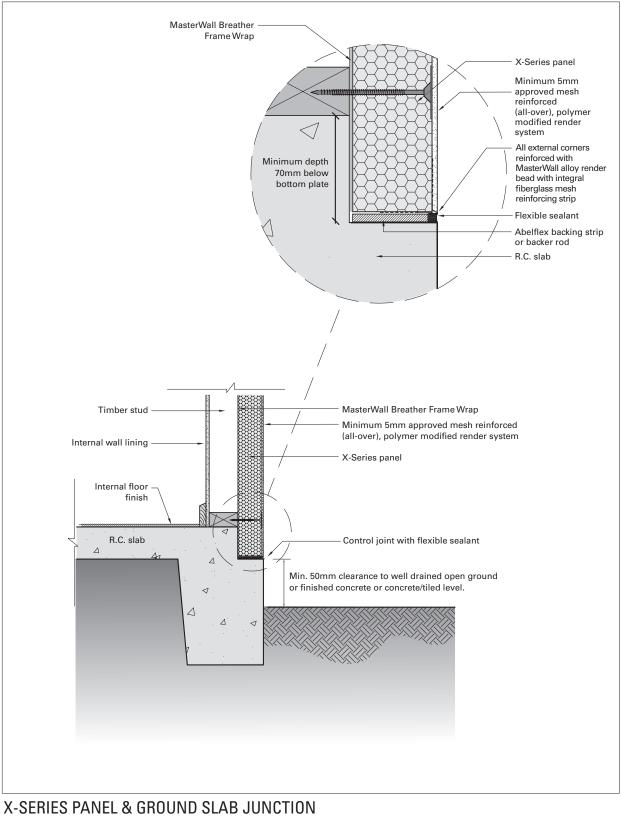
PROTRUDING PANEL





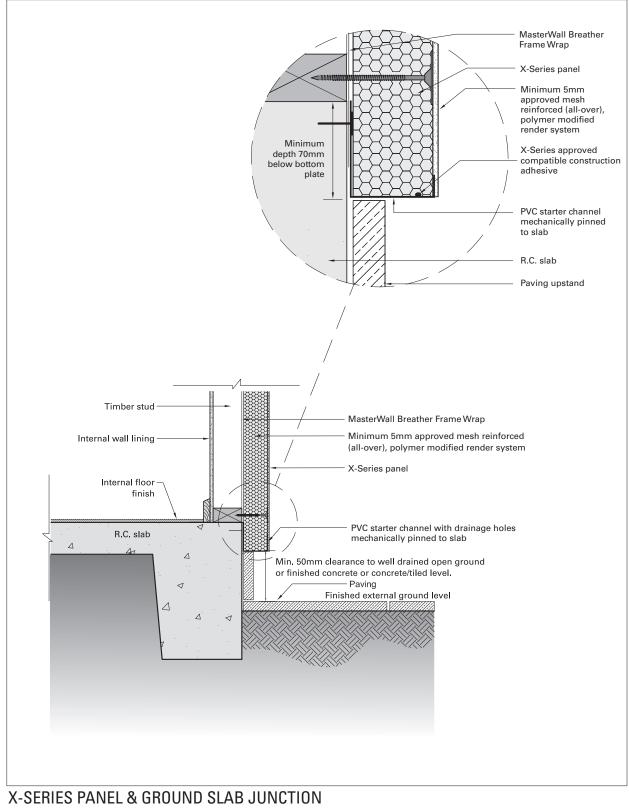
X-SERIES PANEL & CONCRETE STUMP CONSTRUCTION





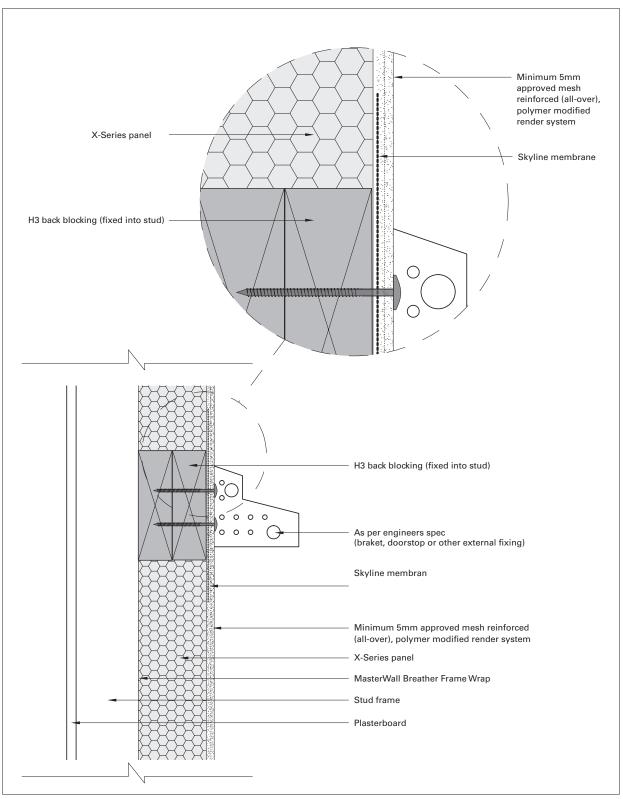
X-SERIES PANEL & GROUND SLAB JUNCTION WITHIN REBATE





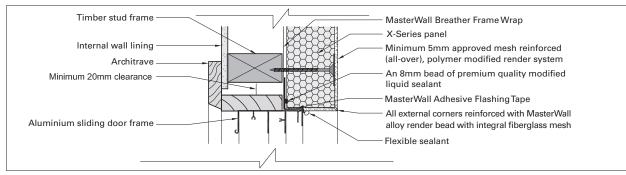
PROTRUDING



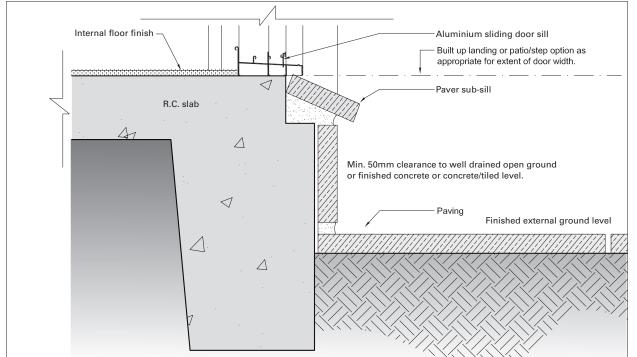


X-SERIES PANEL / EXTERNAL WALL: EXTERNAL SUPPORT WITH SKYLINE SYSTEM WATER PROOFING

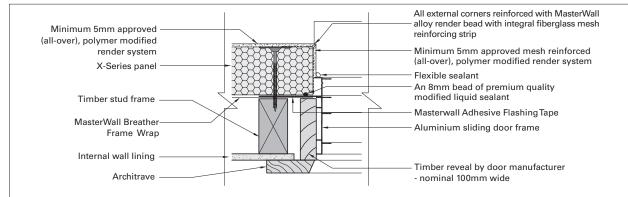




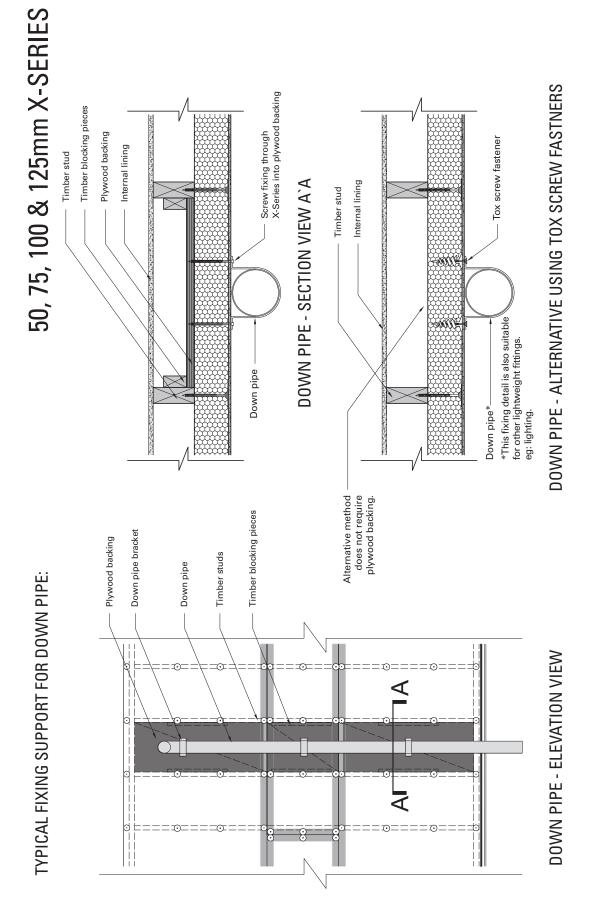
X-SERIES PANEL / ALUMINIUM SLIDING DOOR - TYPICAL HEAD DETAIL



X-SERIES PANEL / ALUMINIUM SLIDING DOOR - TYPICAL SILL DETAIL



X-SERIES PANEL / ALUMINIUM SLIDING DOOR - TYPICAL JAMB DETAIL





SYSTEM CHECKLIST:

| PRODUCT | DESCRIPTION | SIZES | COVERAGE 🗸 |
|---|--|------------------------------|--------------------------------|
| X-Series Panel | Polystyrene Panel | 50mm, 75mm, 100mm & 125mm | 1.2m x 2.4m (2.88m²) |
| Masterwall Fixings | Screw Button Sets 100 p/box | 75mm, 100mm, 130mm | 30 per panel |
| Masterwall Breather Frame Wrap | Vapour Permeable Sarking | 1350mm or 2700mm | 82m² |
| Masterwall Flashing Tape | Self Adhesive Aluminium Tape (flashing windows & doors etc) | 75mm width | 25m roll |
| Premium Quality Modified Liquid Sealant | Premium Quality Modified Liquid Sealant (gasket sealant for flashing tape) | 600ml sausage | 2 per roll of flashing tape |
| Expandable Elastic Foam | Expandable Urethane Flexible Foam (joint sealant) | 700ml can | 65m² of X-Series Panel |
| PVC Starter Channel | U Channel for bottom of panel (on ground floor) | 50mm, 75mm, 100mm & 125mm | 3.0m lengths |
| Ableflex | Foam strip for rebated slab detail & expansion joints | 75mm width | 25m roll |

NOTES:

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TECHNICAL ADVICE / DESIGN

Masterwall Australia supports all of its products and systems with a comprehensive Technical Advisory Service for specifiers, stockists and contractors.

This includes a software-powered service designed to give fast, accurate technical advice. Simply phone the Masterwall Australia Technical Service Department with your project specifications. Calculations can be carried out to provide a Condensation (Dew Point) Risk Analysis, and/or a Total Wall (RT) System Thermal Value so that the correct insulation thicknesses can be determined for any given project.

CONTACT **MASTERWALL AUSTRALIA**

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National phone: (03) 9799 6565 Email: sales@masterwall.com.au Web: masterwall.com.au



Masterwall manufactures and distributes high performance exterior insulation, render and coating systems.



H20 DRAINAGE WRAP

MASTERFLOOR