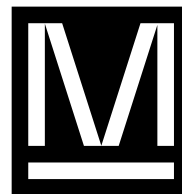


MULTIPANEL

Internal Wet Area Waterproofing System



INSTALLATION GUIDE





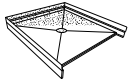

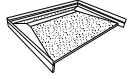



PRODUCT INFORMATION

Thickness	Product code	Size (MM)	Weight per sheet
8mm	MP08	2400 x 1200	5.2Kg
12mm	MP12	2400 x 1200	7.2Kg

Showerbase sizes

Size	Waste outlet / grate size
900 x 900 x 25mm (1:80 min.fall)	Centre/NA
1200 x 900 x 25mm (1:80 min.fall)	Centre/NA
Custom* (1:80 min.fall)	TBA
LINEAR GRATE SIZES	DESCRIPTION
1200 x 900 x 25mm (1:80 min.fall)	900 x 55-70 20-25mm (L,W,H) Centre of grate is positioned from the frame. Refer to Step 12 of Shower Base Kit Installation.
1500 x 900 x 25mm (1:80 min.fall)	1200 x 55-70 20-25mm (L,W,H)
1800 x 900 x 25mm (1:80 min.fall)	1500 x 55-70 20-25mm (L,W,H)

* Custom sizes up to 2400 x 1200mm are available. Refer to Custom Order Form available at www.multipanel.com.au for full terms and conditions.

Supplied by MULTIPANEL		Not supplied by MULTIPANEL	
Component	Description	Component	Description
 * PU adhesive	MULTIPANEL Foaming Adhesive*, 310mL Colour: Opaque	 Screws	For fixing into timber frame, use either a galvanized or min class 3 screw. Refer to manufactures for suitability.
 * PU adhesive	MULTIPANEL Sealant Adhesive*, 600mL Colour: Brown	 Nails	For fixing into timber frame, use either a galvanized or min class 3 nail. Refer to manufactures for suitability.
 MULTIPANEL Shower Base Kit	/ Pre formed shower base / Upstands x3 / 50mm Stainless Steel z flashings / Gloves / Blade / MULTIPANEL Foaming Adhesive / MULTIPANEL Sealant Adhesive	 Blade	For spreading adhesive over all sheet joints and fixings.
 MULTIPANEL Linear Shower Base Kit	/ Pre formed shower base / Upstands x3 / 50mm Stainless Steel z flashings / Gloves / Blade / MULTIPANEL Foaming Adhesive / MULTIPANEL Sealant Adhesive	 Gloves	Recommended when using adhesive.
		 Linear Grate System	Select grate to suit your tile thickness. See sizes above.
			Stainless Steel corner angle or a compatible material to comply with AS3740 waterproof material.

*Where the document refers to **FMP100 & FMP100-PU** this is now known as **MULTIPANEL Foaming Adhesive**

*Where the document refers to **FIX30 & FIX30-PU** this is now known as **MULTIPANEL Sealant**

What is MULTIPANEL?

MULTIPANEL manufactures a revolutionary, high-density, polyurethane composite building panel, ideal for waterproofing bathrooms and wet areas as it is lightweight, 100% waterproof, highly versatile and replaces the need for a liquid membrane.

This innovative product is currently the most technologically advanced construction panel on the global market. It is a significantly superior alternate to traditional building materials.

PRODUCT ADVANTAGES

- / Lightweight
- / 100% waterproof
- / Eco-Friendly
- / Labour Saving
- / Insulating

PRODUCT INFORMATION

SAFETY

MULTIPANEL is an inert, non-toxic, noncarcinogenic material and is not considered harmful, however inhalation of dust produced during cutting should be avoided.

Eye, ear and mouth protection should be worn whenever cutting or sanding MULTIPANEL.

Gloves are recommended when applying adhesives. Uncured adhesive may be removed from tools, timber and tiles with alcohol cleaner such as Methylated spirits. Cured adhesive must be removed mechanically.

A AND B SURFACES OF MULTIPANEL

During the manufacturing process some air pockets may form. These air bubbles are small in size and appear on the "B" side of the panel only. Every panel produced is stamped to advise the "B" side. Holes will not compromise the integrity or waterproofing of the system. When installing MULTIPANEL, ensure the "A" side of the panel is placed face up.

CUTTING

Standard woodworking tools can be used for all cutting of MULTIPANEL.

STORAGE AND HANDLING

MULTIPANEL should always be stored flat, on a level surface, and away from direct sunlight. UV light will cause discolouration of MULTIPANEL however will not change the structural integrity.

ADHESION

The MULTIPANEL adhesives listed on page 1, must be used in conjunction with mechanical fixing, when gluing panels to substrate.

DESIGN CONSIDERATIONS

FRAMING

TIMBER FRAMING

Timber framing must be in accordance with AS 1684 - 'Residential timber-framed construction', the building code of Australia and the framing manufacturer's specifications.

Adequate ventilation of the subfloor must be in accordance with the National Construction Code.

TOLERANCES

Framing must be straight and true. Framing tolerances must comply with relevant codes and manufacturer's specifications.

DESIGN

COMPLIANCE

All design and construction must comply with the appropriate requirements of the current Building Code of Australia (BCA) and other applicable regulations and standards current at the time of construction.

TILING

Install tiles as per AS 3958.1-2007. When tiling, please ensure a compatible polyurethane tile adhesive is used. For a list of recommended adhesives visit www.multipanel.com.au or call MULTIPANEL on (03) 9787 2544.

SHOWER BASE KIT INSTALLATION

This guide will provide instructions on three common installation methods, Step Up, Walk In and Linear Base as shown on page 3. The shower base is preformed with a graded fall. 75mm vertical up-stands are provided to form the junction between the base and adjoining walls. These up-stands are cut and installed on-site creating a waterproof floor and wall installation.

Step 1

Prepare substrate according to preference, as per diagrams on page 3.

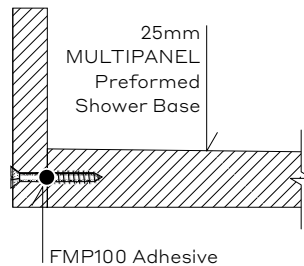
NOTE — Ensure surface is at and free of dust and Debris.

Step 2

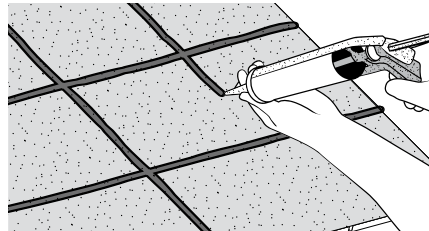
Put the base in place, check it is square and true, if not, trim base to suit application. (Trim base using traditional woodworking tools).

Step 3

Remove base and fix MULTIPANEL upstands to base with a continuous 3mm bead of MULTIPANEL Foaming Adhesive along the groove and screw or nail off at 150mm centres using a minimum 25mm x 2.8mm screw or nail.



Step 4

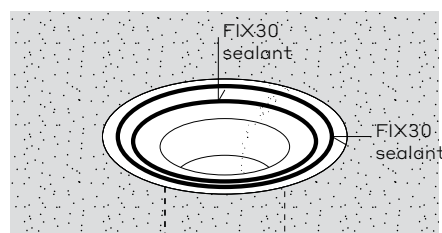


Apply a 6mm bead of MULTIPANEL Foaming Adhesive in a 200 x 200mm grid pattern.

Step 5

Seal the puddle flange to the underside of the shower base, using a continuous bead of MULTIPANEL Sealant and embed the base onto the puddle flange.

NOTE — Puddle flange must be rebated into subfloor to finish flush.

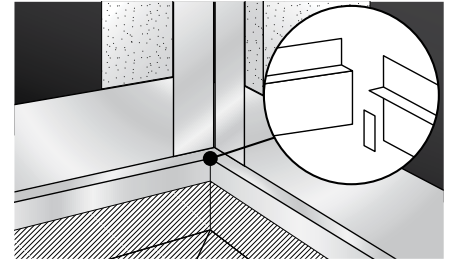


Step 6

Fit base into place and screw or nail off at 300mm centres.

Step 7

Notch metal flashing for internal corner matching.



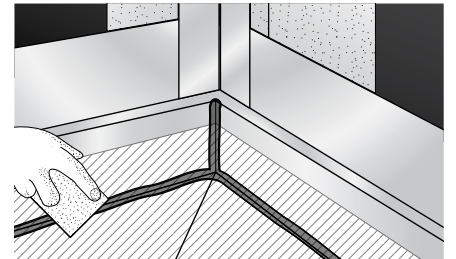
Step 8

Install the metal flashings supplied by MULTIPANEL in the Shower Base Kit, and nail off using a 30mm x 2.8mm nail.

NOTE — Stainless Steel flashing will need to be drilled prior to fixing.

Step 9

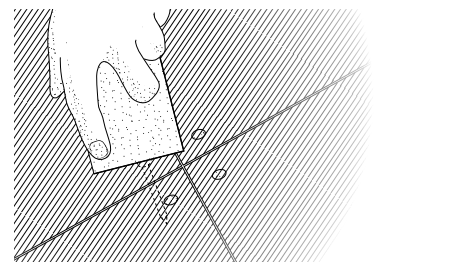
Apply a continuous 3mm bead of MULTIPANEL Sealant to upstand junctions.



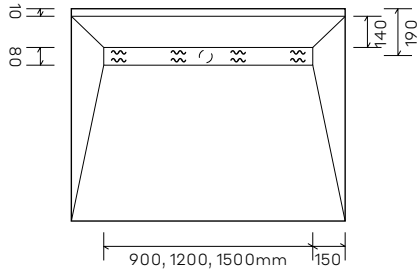
Step 10

Apply MULTIPANEL Sealant over heads of fixings over base and blade off.

NOTE — To ensure a complete waterproof bathroom solution, 8mm MULTIPANEL underlay and 12mm MULTIPANEL Wall Lining must be installed in accordance with the MULTIPANEL Underlay and MULTIPANEL Wall Lining Installation Steps.

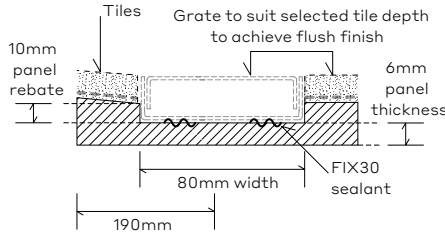


Step 11



Glue in grate using MULTIPANEL Sealant spot glue to allow moisture to enter outlet.

Step 12

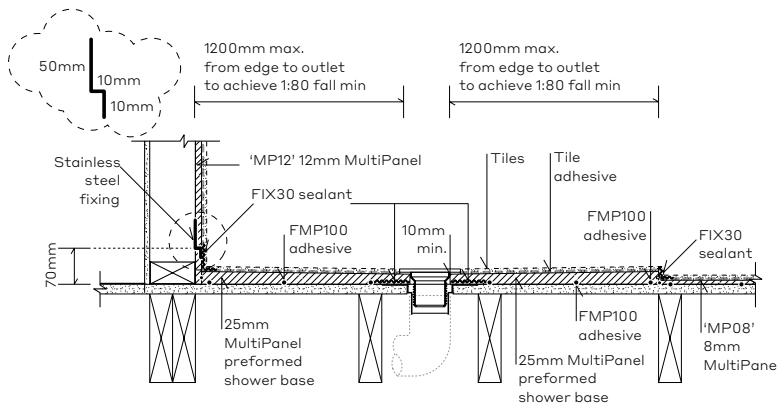


Embed the lined grate system into MULTIPANEL cut out, using MULTIPANEL Sealant to spot glue grate in position.

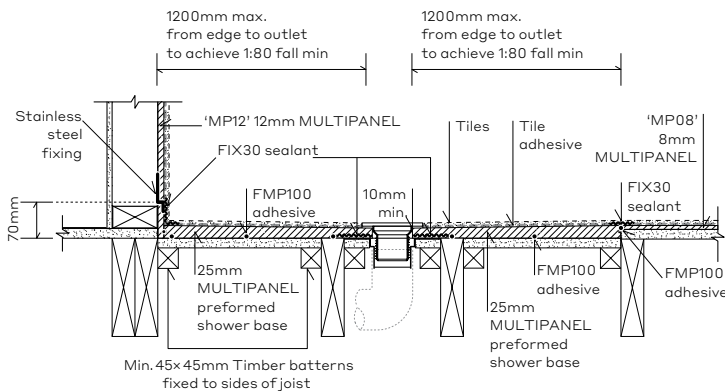
NOTE— Centre of grate is positioned 190mm from frame.

WATERPROOF MEMBRANE OVER MULTIPANEL IS NOT REQUIRED

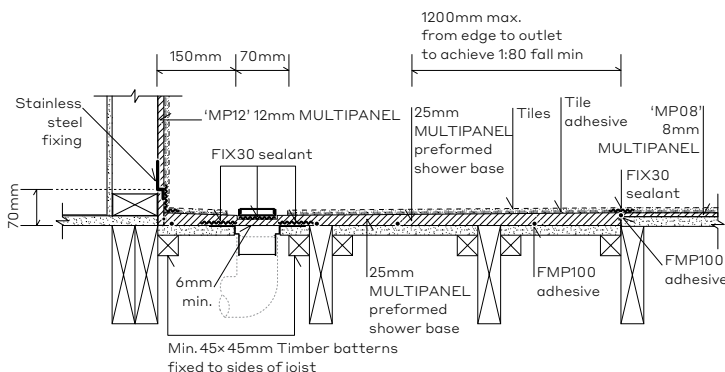
STEP UP — DIAGRAM 1



WALK IN — DIAGRAM 2



LINEAR BASE — DIAGRAM 3



MULTIPANEL WALL LINING INSTALLATION

Step 1

Trim out wall to support MULTIPANEL on all edges. Studs at maximum 300mm centres. Install standard corner flashings. Apply MULTIPANEL Foaming Adhesive in a single continuous bead to the stud and noggin framework.

Step 2

Fix minimum 12mm MULTIPANEL onto framework at 300mm centres, 200mm around perimeter and 20mm from panel edge.

NOTE — MULTIPANEL can be used in curved walls, contact MULTIPANEL for further information.

Step 3

/ Place continuous bead of MULTIPANEL Foaming Adhesive along panel edge of sheet in position.

/ Place second sheet of 12mm MULTIPANEL so that the panel edge butts up against sheet. Blade off excess MULTIPANEL Foaming Adhesive.

NOTE — Allow 3 hours for the MULTIPANEL Foaming Adhesive to cure.

/ Apply a continuous bead of MULTIPANEL Sealant as shown in Figure 2 below and blade off creating a 50mm band over the join of the two sheets.

Step 4

Apply MULTIPANEL Sealant over the heads of fixings and all sheet joints and junctions to achieve waterproofing. Blade off excess adhesive.

Step 5

Where MULTIPANEL meets plasterboard, use standard plastering techniques. Surface is now ready for finishing. Contact MULTIPANEL for specific painting requirements.

NOTE — For best results bevel edge of MULTIPANEL to match plasterboard.

Step 6

Any wall penetrations, including shower breaches and tap outlets are to be sealed using MULTIPANEL Sealant Adhesive.

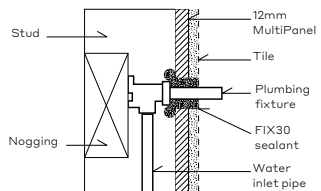


Figure 1 — Detail of sealing wall penetration.

NOTE — Apply a continuous bead of MULTIPANEL Sealant to all corner and vertical flashings.

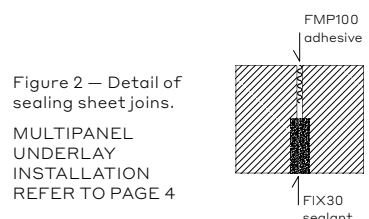


Figure 2 — Detail of sealing sheet joints.

MULTIPANEL UNDERLAY INSTALLATION REFER TO PAGE 4

MULTIPANEL WATERPROOF BATHROOM DETAIL GUIDE

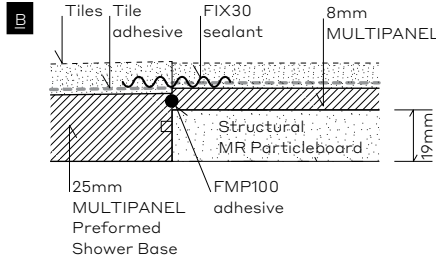
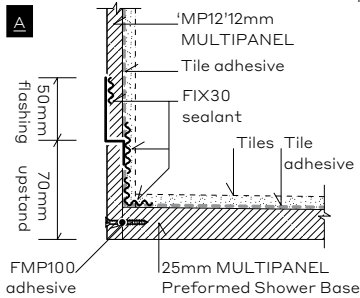
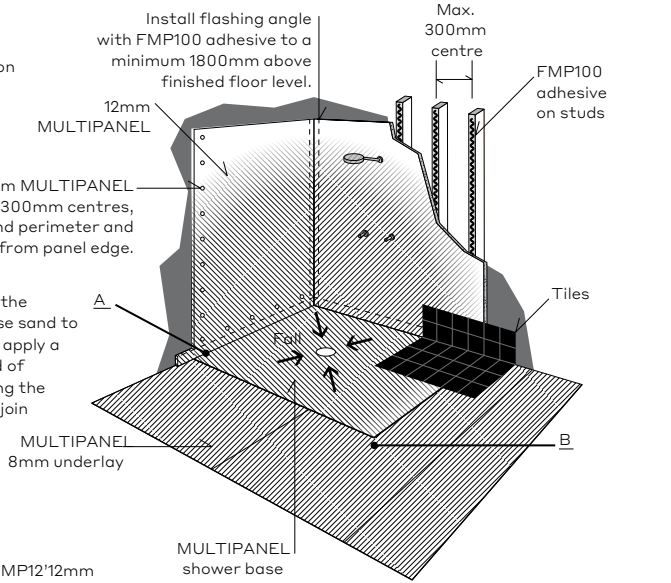
MULTIPANEL OPTION — NO MEMBRANE REQUIRED

NOTE — Metal flashings and corner angles are installed prior to the installation of the MULTIPANEL internal wall lining.

Install flashing angle with FMP100 adhesive to a minimum 1800mm above finished floor level.

Fix minimum 12mm MULTIPANEL onto framework at 300mm centres, 200mm around perimeter and 20mm from panel edge.

NOTE — When gluing the sheets together, please sand to prepare the edge and apply a continuous 3mm bead of FMP100 adhesive along the sheet edges and butt join

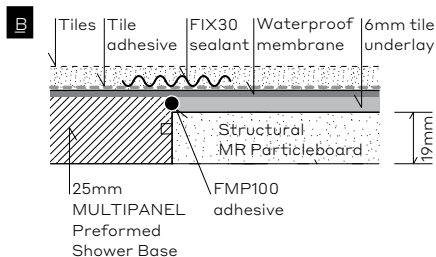
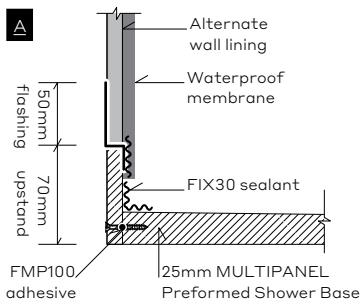
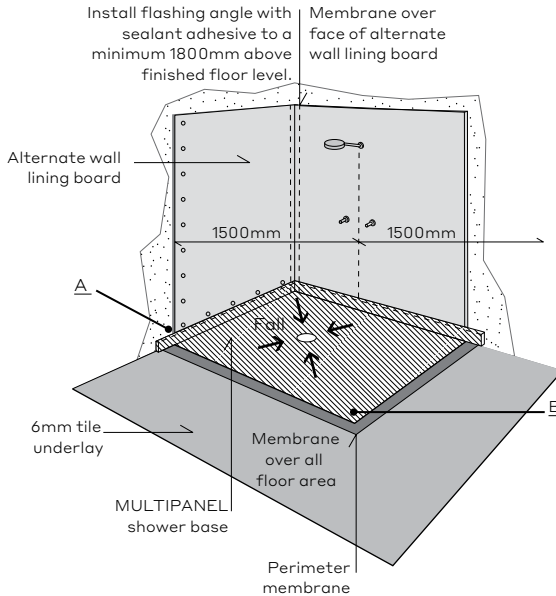


ALTERNATE OPTION — MEMBRANE REQUIRED

NOTE — Metal flashings and corner angles are installed prior to the installation of the MULTIPANEL internal wall lining. When using an alternate membrane, it must comply with AS 3740, the manufacturers requirements, and any other relevant standards.

Install flashing angle with sealant adhesive to a minimum 1800mm above finished floor level.

Membrane over face of alternate wall lining board



MULTIPANEL UNDERLAY INSTALLATION

Step 1

Prepare substrate flooring ready for MULTIPANEL Waterproof Underlay. For use in wet areas over an accepted substrate (installed to Australian Standards).

NOTE — Ensure floor substrate is sound, flat and dust free prior to installing MULTIPANEL Waterproof Underlay.

Step 2

Apply MULTIPANEL Foaming Adhesive to substrate flooring in continuous 3mm bead, spacing 100mm apart.

Step 3

Lay minimum 8mm MULTIPANEL to substrate flooring, fixing off at 300mm centres, 200mm around perimeter and 20mm from panel edge.

NOTE — When gluing the sheets together, please sand to prepare the edge and apply a continuous 3mm bead of MULTIPANEL Foaming Adhesive along the sheet edges and butt join.

Step 4

Blade off excess adhesive over the joints. Allow MULTIPANEL Foaming Adhesive three (3) hours to cure.

NOTE — This process needs to be repeated 2-3 times or until the MULTIPANEL Foaming Adhesive has finished expanding.

Step 5

Apply MULTIPANEL Sealant over the heads of fixings and sheet joints. Blade off excess sealant.

NOTE — Surface is now ready for finishing, waterproof membrane over MULTIPANEL is not required.

WARRANTY AND CONDITIONS

The company warrants the MULTIPANEL Waterproof Balcony ("the product") for period of (10) years ("the warranty period") from the date of purchase, that it will be free from defects due to faulty manufacturing, and will be resistant to cracking, rotting, water, fire, and damage to the extent set out in the relevant MULTIPANEL published literature, and subject to compliance to the conditions set out below.

CONDITIONS OF WARRANTY

The warranty is strictly subject to the following conditions (which are in addition to and do not displace the MULTIPANEL Terms and Conditions of Sale).

- a. The product and any other components of the system must be installed in accordance with the relevant MULTIPANEL literature current at the time of installation. Further to all other products including jointing and sealing systems, that are applied or used in conjunction with the product must be installed as per the relevant manufacturer's specifications at the time of installation.
- b. MULTIPANEL will not be liable for, and will not accept any breach of Warranty claims, unless the claimant provides proof of purchase within 30 days of the alleged defect becoming apparent.
- c. Under no circumstances is the Warranty transferable.
- d. MULTIPANEL will not be liable for defects arising from materials and components not supplied by MULTIPANEL, or the use of goods by a person in a manner not consistent with the recommendations made by MULTIPANEL.
- e. A claimant's sole remedy for breach of Warranty is (at the company's option) that MULTIPANEL will repair or replace the defect, pay the cost of replacement or rectification of the affected product, or supply replacement product.
- f. Under no circumstances will MULTIPANEL be liable for any damages or losses to property damage and personal injury, economic loss or loss of profits, arising from contract or negligence or howsoever arising. Without limiting the foregoing, MULTIPANEL will not be liable for any claims, damages or defects arising or in any way attributable to poor or defective workmanship, poor design and detailing, defective materials, structural movement and/or movement of materials to which the product is attached to, acts of God including but not limiting to severe weather conditions or unusual climate conditions, normal wear and tear, or growth of any organism on the product.

DISCLAIMER

The recommendations in this literature are based on good building practice, but is not an exhaustive statement of all relevant information as the successful performance of the system depends on several factors outside the control of MULTIPANEL, for example the quality of workmanship and design.

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Certificate CM20270