MULTIPANEL®
Choose a modern alternative to tiles

Recommended Tools

- Pencil
- Masking tape
- Measuring tape
- Silicone sealant & silicone gun
- Power drill & screwdriver
- High-grab adhesive
- Circular saw, jig saw or hand saw

REFLECT RANGE

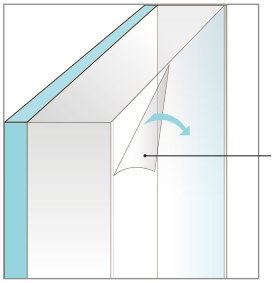
INSTALLATION GUIDE

Pre-installation

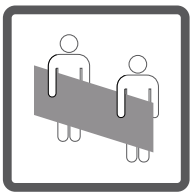
Prior to installation, Multipanel recommend that you visit our **video** section on **www.multipanel.co.uk**, where you will find a complete animation. Read installation guidelines.

Pre-installation check-list	Checked?
Inspect panels & profiles for any flaws, defects or damage.*	**Y / N**
Check colour and sheen levels match between all panels and profiles.	**Y / N**
If panels are being fitted by a tradesman, colours & condition should be approved by end user prior to installation.	**Y / N**
Condition panels and adhesive at room temperature for 48 - 72 hours.	**Y / N**

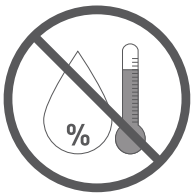
*Panels are supplied with clear protective polycoating to the face, and blue to the rear. The clear polycoating should be carefully peeled back to inspect the surface, and replaced for installation. The blue polycoating should be removed for installation. This is particularly important where polycoating has text over-printed. Once installation has commenced, the panels are deemed to have arrived in perfect condition – any of the above reported after installation will not be covered by your warranty.



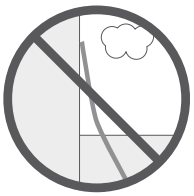
CONDITIONING AND STORAGE



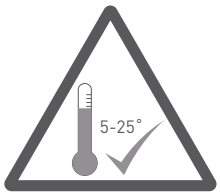
Panels should always be carried by two people



Panels should not be stored in areas of high humidity



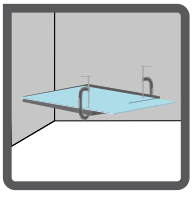
Do not store outside or lean at an angle against a wall



Store in cool dry conditions between 5-25°C

Store flat and horizontal to prevent bowing

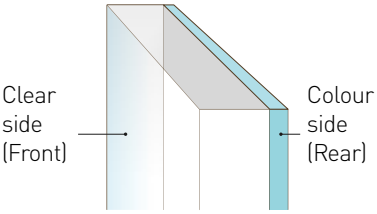
Condition panels & adhesive at room temp. for 48-72 hours

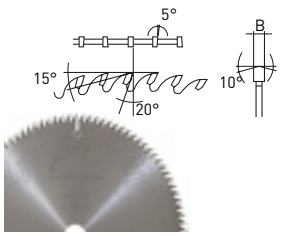


Reflect should be clamped & supported on a board/sturdy surface during cutting and drilling

Cutting Parameter - RPM : 5000 ~ 18000 rpm / Feeding rate : 0.5 ~ 3m/min

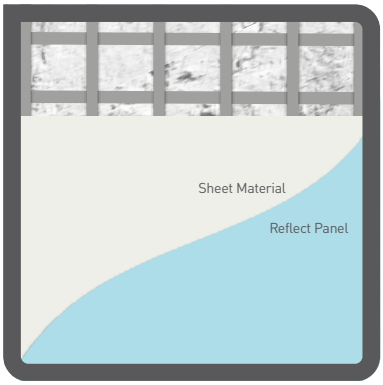
Blades with a minimum of 60 teeth must be used.





WALL PREPARATION, HANDLING AND CUTTING PANELS

Panels can be fixed to most surfaces including tiles, concrete, plaster, plasterboard, and chipboard/plywood walls providing they are sound and flat.

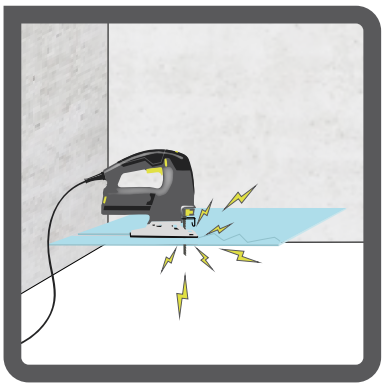


Where there is any source of light behind the panels, timber grounds should be covered with a flat sheet material*, eg plasterboard, to eliminate the possibility of shadow show-through.

To ensure your Reflect panel is properly bonded, ensure all surfaces to which adhesive will be applied are clean, dry & dust free.

*Flat sheet material should be a consistent shade, and as light as possible, as particularly with lighter décors there can be a small degree of show-through.

To avoid the possibility of splitting or chipping Reflect when cutting, panels should be clamped to avoid vibration, and the area beneath the cutting line should be supported on a secure, sturdy surface to allow the panels to lie flat.



When cutting, do not apply undue pressure on the tool, or try to force a faster cut. Let the saw do the cutting with minimal force being applied.

Reflect has very sharp corners and edges – cut proof safety gloves should be worn at all times when carrying, handling, cutting and fitting panels. Appropriate PPE such as safety eye-wear should be worn when cutting panels.

Measure and mark your required cutting line. When using an upward cutting saw blade with a fine tooth or a circular saw, panels should be cut from the back, decorative face down to prevent chipping of the surface.

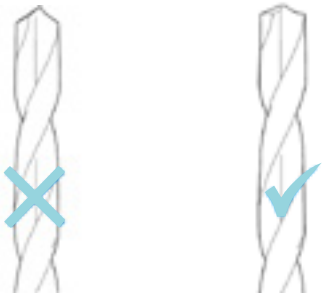
When using a fine-tooth blade hand-saw, panels should be cut decorative face up.

Note: Always dry fit panels prior to bonding, to ensure they will fit. When applying silicone sealant into the profiles, it is recommended to apply masking tape to the face of the panel, adjacent to the edge of the profile where excess silicone will ooze out.

DRILLING

A drill press or electric drill may be used. A standard metal or wood drill will cut into the Reflect panel very quickly and may cause damage through cracking or splitting. Use a drill bit suitable for drilling plastic. You can also use a plunging type router to produce a hole in a Reflect panel. Employ the same principles as electric drilling methods. In most site applications, drill bit options are minimal. In this case the best option is to use a blunt drill as shown. Firmly secure the Reflect panel before drilling.

- Use a 9° pitch drill bit.
- When drilling Reflect using a drill press, the revolving speed is increased if the hole diameter is small (0 – 4mm).
- If the hole is large in diameter, decrease the speed. A hole saw may be used to further enlarge the opening. Make sure it is a metal type of hole saw with no offset.
- To avoid work bench damage, use a scrap sheet of timber or plastic of 5 –10mm thickness underneath the cutting area and allow the bit to drill into this support.



Standard sharp drill Blunt for Reflect

FITTING VALVES AND CONTROLS

- When drilling, do not put undue force on the drill. On a medium speed, hold the drill firmly and let it drill through the panel.
- When cutting apertures through Reflect, a 2mm clearance gap should be left around all edges, and sealed with silicone sealant. To reduce the risk of chipping or cracking, drilled holes should be no closer than 10mm from the edge of the panel, and a piece of scrap wood should be placed beneath the area being drilled. For larger holes, a finetoothed hole saw should be used.

INSTALLATION

Due to the effect of heat, each Reflect sheet will expand and contract 3mm into and out of the corner silicone join. The internal corner is therefore crucial to the installation as it will allow for thermal expansion and contraction.

The first sheet will butt into the wall and allow for a 3mm expansion while the second sheet will butt onto the first Reflect sheet which was installed allowing for expansion and contraction against the first Reflect sheet. This will reduce the visible join line to 3mm instead of 6mm.

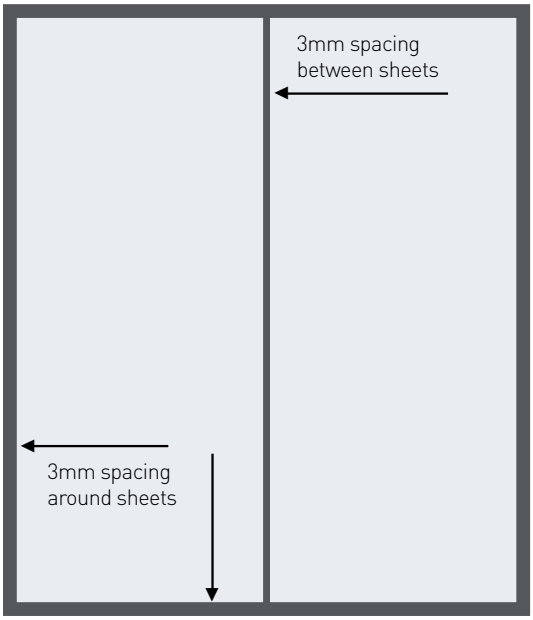
When using profiles, a 3mm expansion gap must be left which can be filled with a transparent neutral cure silicone.

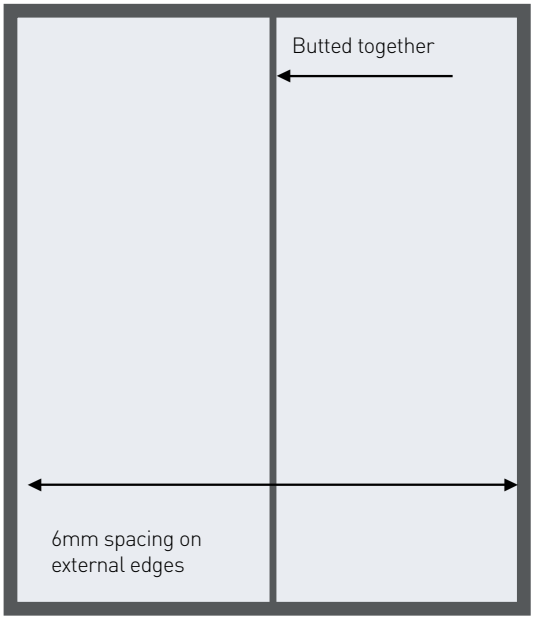
These profiles should be firmly fastened to the substrate using a grab adhesive or screws, provided they can be countersunk sufficiently so they do not interfere with the installation of the panel. A bead of neutral cure silicone should be placed inside the area where the panel fits.

When installing two sheets you must allow for a 3mm silicone gap around each edge to compensate for sheet expansion and contraction or a 6mm silicone gap on both right and left edges and either top or bottom edge.

Alternatively when installing 2 sheets, they can be butted together with no gap provided there is a 6mm silicone gap on both right and left edge and either top or bottom edge.

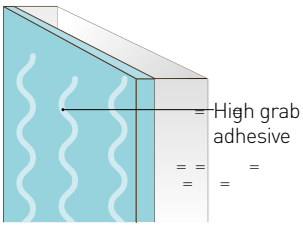
The straight panel connector or 'H-joint' can be used between panels in a straight run. One of these profiles should be firmly fastened to the substrate. The panel can then be fitted to the wall then slid into the profile.





FIXING PANELS AND PROFILES

- The first profile – normally start with an Internal Corner or End Cap – should be fixed to the wall or end grounds with countersunk screws, or adhesive and a bead of silicone sealant applied to the channel
- Apply silicone sealant to the channel of the second profile and attach it to the long edge of first panel.
- Apply high grab adhesive to the reverse of the Reflect panel (see fig. 1), angle into the first profile and push firmly against the wall (see fig.2).



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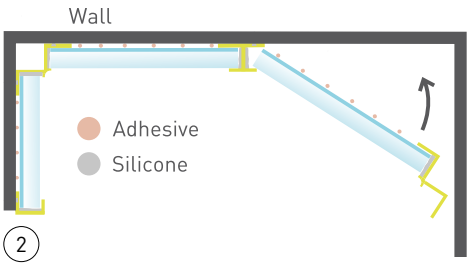
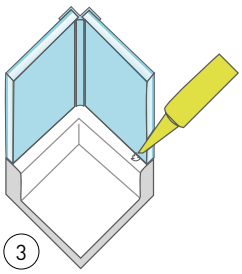


2

- Continue the above steps to work around corners, finishing with end caps if required.

SHOWER TRAYS AND BATHS

- Reflect should be fitted with a 3mm gap between the bottom edge of the panel and the shower tray or bath, sealing the gap with silicone sealant. (see fig 3)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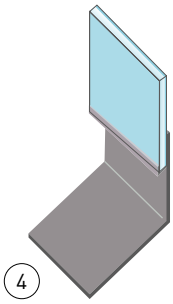
WET AREAS

- In wet areas, Reflect can be set in an end cap profile, and sealed to the floor finish. (see fig. 4).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KITCHEN SPLASHBACKS

- Reflect is suitable for use as kitchen splashback. When installing behind a gas hob, to prevent excessive heat being applied to the surface of the panel, a sheet of glass must be fitted over Reflect, covering the full width of the hob. Alternatively, if preferred by the customer, Reflect is stopped at the side of the gas hob and glass is used instead at that section.

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ADHESIVES AND SEALANTS

- Multipanel high-grab adhesive and sealant are available to order from your local distributor or showroom.

AFTERCARE

- Once installed, your Reflect panels require minimal maintenance. Reflect should be cleaned with warm water and a non-abrasive mild detergent. Scouring products or similar products should not be used, and doing so may scuff the surface of the panel and invalidate your warranty.

DOMESTIC WARRANTY

Grant Westfield Ltd. offers a 1 year warranty that Reflect panels will not crack or blister and will remain watertight if fitted and sealed in accordance with our published recommendations.

In the event of a successful claim under your Reflect guarantee we will replace the panels, but will only cover any claims for consequential costs under exceptional circumstances where a defective panel prohibits ordinary use of the surrounding area.

Multipanel® High Grab Panel Adhesive must be used and is available to order from your local distributor or showroom.

This guarantee does not cover failure of the product due to:

- Faulty installation.
- Incorrect maintenance or storage, (please see Page 1 - 'Conditioning and Storage')
- Damage or misuse.

Prior to installation the following checks should be carried out and any queries reported, as claims of this nature will not be covered after installation:

- Colour matching and sheen levels between all panels and profiles.
- If panels are to be fitted by a tradesman colours should be approved by the customer, panels should be checked by the customer that:
    - All products have arrived in good condition.
    - Flaws or defects in Acrylic - although unlikely. Where polycoating is applied it should be peeled back to inspect the surface and replaced for installation, this is particularly important where polycoating has text overprinted.

This guarantee does not confer any rights other than those set out above and claims for consequential loss or damage are excluded. This guarantee does not affect your statutory rights as a consumer.

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