

INSTALLATION OPTIONS

Lattice & Screen Installation

VERSATILE IN APPLICATION... EASY TO INSTALL

Whatever your application, there is a simple installation method to provide the flexibility and ease of installation you need to create your outdoor masterpiece.

Installation in a flat (ceiling) position is not recommended and any resulting distortion will not be covered by the warranty.

FIXING METHODS

Installing Matrix Lattice and Decor Screens using one of our recommended methods will ensure a professional and durable finish.

Note: Our 15 year Warranty only applies when the panel has been installed in accordance with our installation instructions.

Detailed installation instructions are provided with each kit and can be downloaded from www.designflow.com.au; these instructions must be carefully followed in accordance with the Warranty conditions.

We also offer galvanised and powder coated steel posts and rails, and plastic post caps in matching or contrasting colours.

INSTALLATION OPTIONS

There are several simple installation options that will ensure a professional and durable finish:

- Using a Matrix galvanised and powder coated C-channel frame kit produces a very professional and secure installation.
- Using screws and washers – screw holes in the panel must be 12mm larger than the screws to allow for expansion and contraction with changes in temperature.
- Within a timber frame with grooved timbers or beading. Use 30mm minimum groove depth and allow at least 12mm for vertical and 6mm for horizontal thermal expansion.

Using spacers to set the screen panel off the wall or fence will create a more 3-dimensional installation with shadow effects. Backlighting can be used to further enhance this effect.

Mounting Directly Using Screws

The following steps must be followed when direct fixing Matrix Lattice and Screens.

- To mount the panel using screws (with washers if required), holes should be positioned in locations as close as practical to the diagram at right.
- Holes should be drilled at least 6mm larger than the screw thread to allow for expansion..
- If required, use washers to cover the holes.
- Make sure that each screw is in the centre of each attachment hole.
- Do not overtighten screws to allow the panel to expand and contract with changes in temperature.
- If fitting multiple sheets, you must leave a space of 6mm between sheets for expansion along each long edge and 12mm along each short edge.
- If the screen buckles in the heat, this means that the screws are too tight; release them slightly to allow some movement. If the screen still buckles, check that screws are centred and reposition if required.
- For a neater installation paint the screw heads or purchase colour coded hex head fasteners.

Timber Frame

The screen can be mounted using a timber frame with beading.

- Ensure that there is plenty of room for thermal expansion - you must leave a space of 6mm along the long edge and 12mm along the short edge
- Use timber beading at least 30mm in depth to retain the screen.
- Nail or screw the bead in place to make a back support for the screen, then position the screen in the frame and fit the bead to hold the screen in place.
- Ensure that the frame is strong enough to withstand the additional weight and wind loading.

Note: For best result paint all the timber components before assembly.

MATRIX C-CHANNEL FRAME KIT

The Matrix C-Channel Frame Kit is designed especially for Matrix Screens and Lattice. It allows you to attach the panel between or in front of vertical or horizontal supports, or to the inside of a frame. The kit makes installation easy, attractive and secure, while allowing the panel to expand and contract with changes in temperature.

Use a Matrix C-Channel Frame Kit for securing Matrix Lattice and Screens:

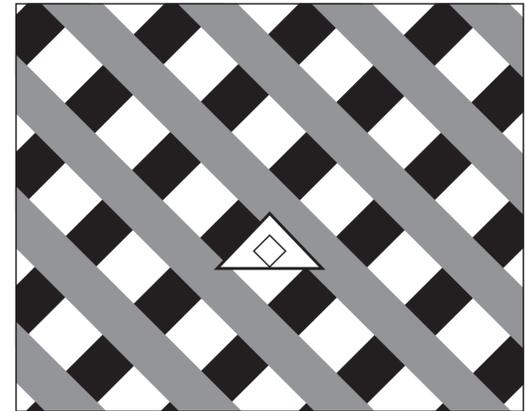
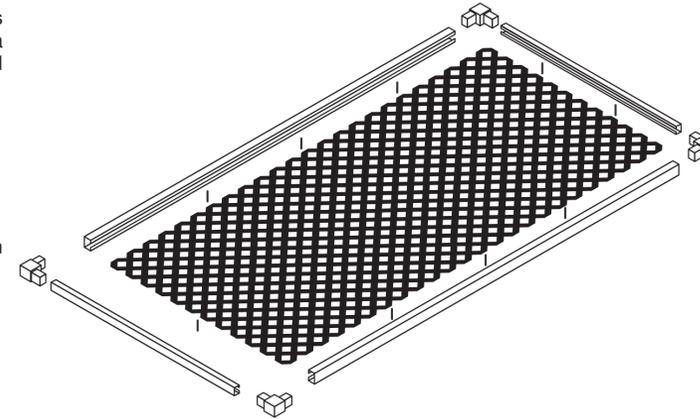
- To the inside of a frame
- To the face of a frame, posts or rails
- Spanning between posts or rails

A Matrix C-Channel Frame Kit is designed to fit around a full lattice or screen panel 2410x1205mm or 1800x900mm.

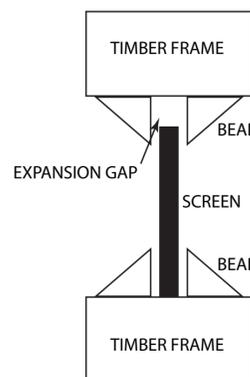
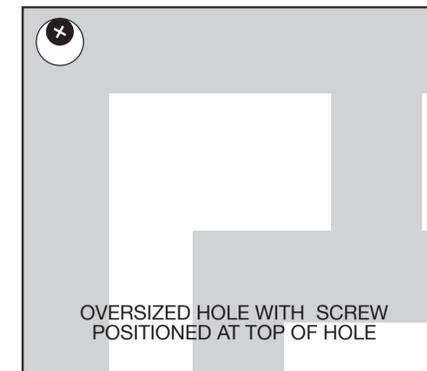
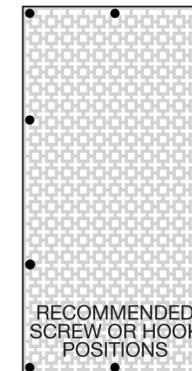
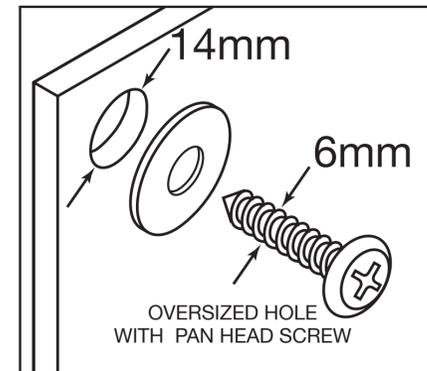
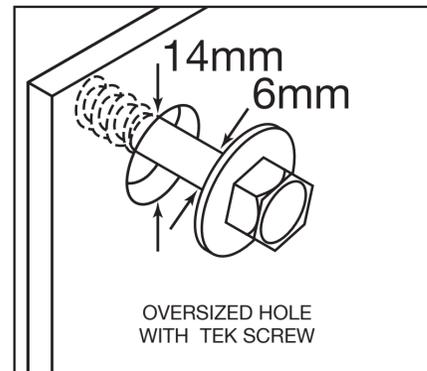
Each kit consists of the following components:

- 2x long C-channels
- 2x short C-channels
- 4 x plastic corners
- 10x galvanised steel flat mounting brackets
- 10x 22mm long x 3mm diameter galvanised steel pins (for securing the panel within the C-channel)

NOTE: Mounting screws are not included in the kit.



Diamond Clips (available through special orders) can be used on their own or in conjunction with Matrix C-Channel Frame Kits and will hold the lattice securely in place against any existing structure (e.g. posts or rails, a fence or a building) while allowing it to expand and contract with changes in temperature.



Routing Timber

This option can only be used if timber is routed before the frame is assembled.

- Rout an slot in the timber frame. 8mm wide The slot has to be 20mm deep in the base timber to retain the lattice and 20mm deep along each side. At the top, the slot has to be 30mm deep. This is so that there is enough room for the lattice to expand and contract.
- When the sheet is installed in the frame, there should be 6mm movement in the width of the sheet and 12mm in the length for expansion and contraction.

Note: For best results paint or stain the timber before the panel is installed.

If the panel buckles in the heat, you have not allowed enough gap for expansion.

