

MATRIX C-CHANNEL FRAME KIT

For Matrix Lattice & Screens – 2410 x 1205mm

Item Code: B-1300-RI



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

Kit Contents

2 x Long C-Channel	10 x Flat Mounting Brackets	4 x Moulded Corners
2 x Short C-Channel	10 x Pins 3.20x22mm Long	

Tools and hardware required

Spirit Level	Tape Measure	Steel saw	Drill with a 3mm drill bit
Rubber Mallet	Pliers	Jigsaw	Screws or bolts for attachment

Tips

- Use the supplied pins to retain the panel in the C-channel by drilling 3mm holes 5mm in from the edge of the panel and inserting the pins with pliers. Then slide the C-channel over the pins (See Fig. 3, 4, 5).
- The kit is designed to be fitted in a vertical position (2425mm high x 1220mm wide), where it can span 1220mm between supports. If installing on its side (horizontally), provide an additional support in the middle of each long span or along the full length of the horizontal C-channel.
- Installation in a flat (ceiling) position is not recommended and any resulting distortion will not be covered by the warranty. If installing as a ceiling, support should be provided at approximately 300mm intervals in both directions.
- Cut away an area 15 x 20mm on the edge of the screen to create clearance for each mounting screw (Fig. 6). This is not required if screws can be positioned in the gaps of the lattice.
- It is possible to attach the framed panel using screws through the plastic corners and/or C-channel (as in Fig. 8, 9). Remember to cut the corners and edges of the screen to allow for thermal expansion (see Fig. 6, 7). Do not crush the corners by overtightening screws.
- Painting the lattice/screens is not recommended due to poor adhesion of conventional paints.

Note: The lattice/screen is a decorative panel, not a support structure, it is not designed to carry loads such as heavy hanging baskets.

In an ongoing commitment to product innovation Design Flow reserves the right to change specifications without notice. It is the policy of Design Flow Pty Ltd to use the highest possible proportion of suitable recycled materials in the production of Matrix screening products.

Matrix Lattice™ & Matrix Screens™ are trademarks of Design Flow Pty Ltd
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Please check that the supporting structure meets the requirements for a successful installation.

The maximum opening that one full framed panel can fill is approximately 1220 x 2425mm (not including mounting brackets and screws or rivets) as detailed in Fig. 1.

Ensure that the structure you are attaching the C-Channel to is square and true, otherwise incorrect installation will result. This may interfere with the expansion and contraction of the lattice which will void the warranty.

The structure must be solid and firmly anchored to withstand the increased wind loading after the C-Channel and screen has been installed.

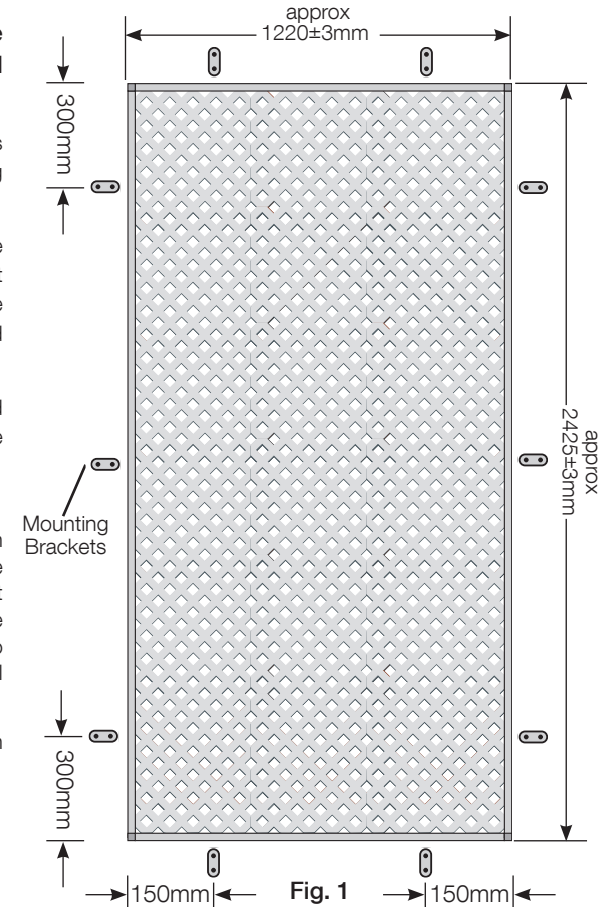
Panel Dimensions

Some expansion and contraction of the lattice/screen will occur with changes in temperature (see table below). When properly installed, the C-Channel kit will allow for thermal expansion and contraction of the panel. Attaching Matrix screening products with no provision for thermal expansion and contraction will void the warranty.

Figures shown are an approximation only of variation due to temperature fluctuations.

At 0°C	2400 x 1200mm
At 20°C	2410 x 1205mm
At 40°C	2420 x 1210mm

Expansion Gap: 10mm 5mm
 (Required for each panel)



15 Year Manufacturer's Warranty

Design Flow Pty Ltd warrants to the original purchaser that Matrix screening products will be free of structural faults due to defects in manufacturing for a period not exceeding 15 years from the date of purchase. Whilst the colour formulation has been designed to withstand many years of exposure to the sun and weather, the warranty does not cover natural fading or a reduction of material properties over time. This warranty is only valid where the product has been installed according to the manufacturer's installation instructions. All warranty matters are to be referred through the original place of purchase. Valid warranty claims will be settled by either full replacement or satisfactory repair of the product. Warranties and remedies including compensation for consequential or direct losses, other than those set out above are hereby excluded, except to the extent where to so exclude would contravene any law including the Trade Practices Act (Cth. 1974) or cause any part of this warranty to be void.

MATRIX C-CHANNEL FRAME KIT

Installation Instructions

1. Prepare the Panel and Frame Components

- This kit is designed to fit a standard full sheet of lattice or screen panel 2410 x 1205mm. Due to the use of recycled materials, some variation in panel size may occur. If adjustment is necessary, cut down the channels so that they are 25mm shorter than the panel dimensions.
- Accurately measure the area to be covered by the framed screen. Remember to allow room for the mounting brackets and screws.
- If you need to reduce the height and/or width, cut the C-channels with a steel saw first, then trim the panel using a jigsaw by the same amount.
- We recommend using at least three pins (evenly spaced - 600mm apart) on each long side and two pins (spaced 400mm apart) on the top short side. Only place one pin in the centre on the bottom edge (Fig. 2).
- Drill 3mm holes 5mm from the edge of the panel (Fig. 3).
- Using pliers insert the pins supplied in the kit into the holes (Fig. 4).
- Cut off corners and notch edges as required to create clearance for screws (Fig. 6, 7). This is not required if the screws can be positioned in the gaps of the lattice.

2. Assemble the C-Channel Kit

- Slide top C-channel over the pins (Fig. 5) onto the top edge of the panel.
- Insert a moulded corner into each end of the top C-Channel and tap in gently.
- Slide the two side C-channels along the edges of the panel over the pins and gently tap into place.
- Insert a corner into one of the free ends of the long (side) C-channel and gently tap into place.
- Insert the last corner into the remaining short (bottom) C-channel and gently tap into place.
- Slide bottom C-channel over the pin on the bottom edge of the panel and gently tap into place. Flex the C-channel to align the last corner with the bottom and side and complete the assembly.

3. Attach the Framed Panel

- Use the 10 supplied flat brackets to secure the frame to your support structure. Ensure brackets are positioned in areas to coincide with the panel notches (Fig. 10).
- Attach the flat brackets to the C-Channel using screws or rivets ensuring that the screws are offset from the centre of the C-Channel (Fig. 11) so that they do not interfere with the thermal expansion of the panel. Position the brackets so they don't interfere with the pins.
- We recommend using three brackets on each long side and two brackets on the short side (Fig. 1).
- Attach the other end of each bracket to the support structure using appropriate screws.
- Alternatively, drill holes straight through the corners and/or C-channels and attach directly to the support structure behind using screws 50mm or longer (Fig. 8, 9) ensuring that there is ample clearance for each screw (Fig. 6, 7). Do not crush the corners and channel by overtightening the screws.
- Ensure that the screws do not go through the panel inside the C-channel as this will interfere with the expansion and contraction of the panel, which will void the warranty.

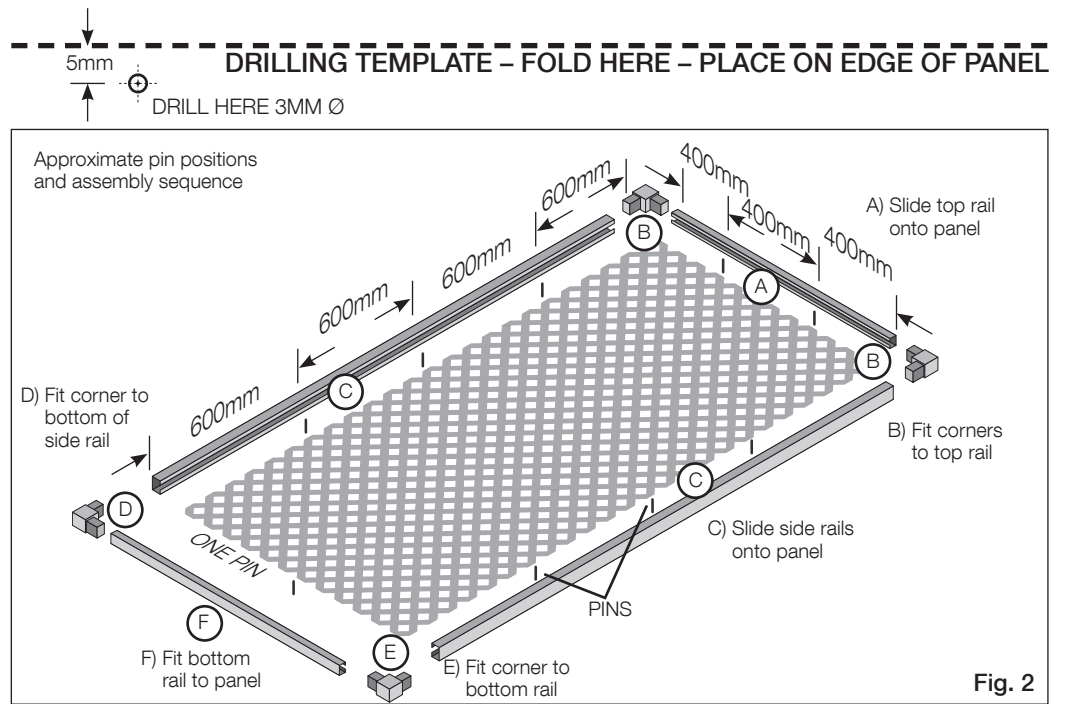


Fig. 2

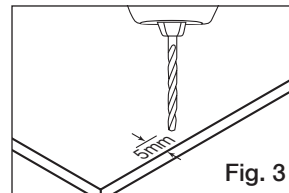


Fig. 3

Drill 3mm hole, 5mm from edge using template above

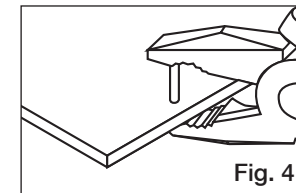


Fig. 4

Insert pins into panel

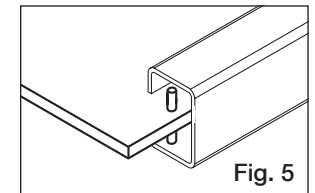


Fig. 5

Slide C-channel over pins

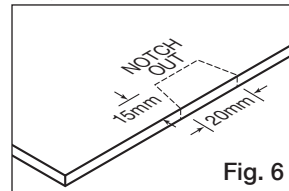


Fig. 6

Cut away 15 x 20mm from screen edge if attaching through C-channel as in Fig. 9 & 11

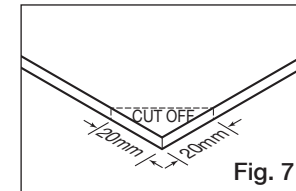


Fig. 7

Cut off 20 x 20mm from screen corner if attaching through plastic corners as in Fig. 8

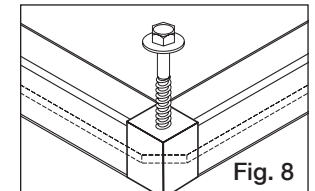


Fig. 8

Attaching through plastic corners

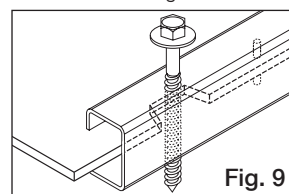


Fig. 9

Attaching through C-Channel

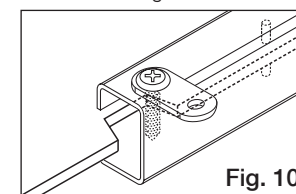


Fig. 10

Cutaway screen to prevent interference with screws

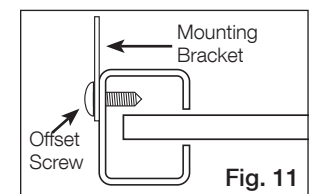


Fig. 11

Offset screws so that they do not interfere with the panel