

MATRIX C-CHANNEL FRAME KIT

FOR MATRIX LATTICE, MOULDED SLAT SCREENS and ONE-PIECE SCREENS

Matrix C-Channel Frame Kit is designed to be used with Matrix Lattice, Matrix Moulded Slat Screens and Matrix One-Piece Screens. It allows you to attach these screening panels between vertical or horizontal supports, or across the front of vertical or horizontal supports, or to the inside of a frame. The Matrix C-channel Kit makes the 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

2x 2383mm Long C-Channel 10x Flat Attachment Brackets 4x Moulded Corners
2x 1178mm Long C-Channel 10x Pins 3.2Øx20mm long

Tools and hardware required

Sprit Level Tape Measure Hacksaw Wood saw Pliers
Rubber Mallet Drill with a 3mm drill bit Screws or bolts for attachment.

Tips

- The tabs on the perimeter on the lattice panel make installation easier. Always retain a row of tabs at the top of the sheet so that the lattice is suspended from them. If cutting the size to suit your requirements, make sure to remove material from the bottom or from one edge so as to retain the tabs on the other edge at the top. Supplied pins can be used as replacement for the tabs that are removed by drilling 3mm holes about 5mm in from the edge of the panel and inserting the pins with pliers.
- 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 (2.4m long x 1.2m high), provide an additional support in the middle of each 2.4m span.
- 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.
- Painting the lattice/screens is not recommended due to poor adhesion of conventional paints.
- The lattice/screen is a decorative panel, not a support structure, it is not designed to carry loads such as 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 FI

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INNOVATION IN PLASTIC
DesignFlow®

Please check that the supporting structure meets the requirements for a successful installation.

The maximum opening that one full framed panel can fill is 1220 x 2425mm (not including attachment 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.

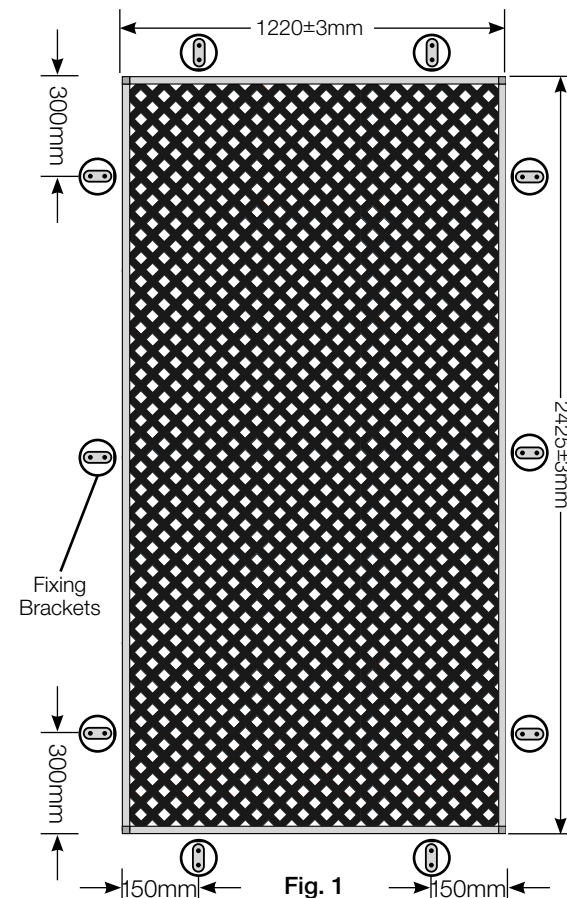
The structure must be solid and firmly anchored to withstand the increased wind loading after the C-Channel and screen has been installed.

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 = 1203 x 2406mm
At 20°C = 1205 x 2410mm
At 40°C = 1207 x 2414mm



15 Year Manufacturer's Warranty

Design Flow Pty Ltd warrants

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, the product is not a support structure and is not designed to carry loads.

Valid warranty claims will

be considered on a

consequential or

including the Trade Practices Act (Cth. 1974) or cause any part of this warranty to be void.

by law

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 and will cover an area 2425x1220mm. Accurately measure the area to be covered by the framed screen. Remember to allow room for the attachment brackets and screws. If you need to reduce the height and/or width, cut the C-channels with a hacksaw first, then trim the panel using a wood saw by the same amount.

Lattice

- Remove tabs from the bottom edge of lattice sheet using a saw or side cutting pliers (Fig. 2).
- If you cut the lattice, replace any tabs that were removed – drill 3mm holes 5mm from the edge and insert the pins provided in the kit (Fig. 6). We recommend using at least three pins (evenly spaced) on each long side and two pins on each short side. Where possible, retain the moulded tabs, especially at the top of the sheet.

Moulded Slat Screen

- Trim the 4 vertical ribs with a saw as shown on Fig. 3a & 3b at top and bottom of the panel and on both front and back.
- Drill 3mm holes 5mm from the top edge where the four ribs were removed (Fig. 4a) and at each end of three of the slats evenly spaced on the long sides (Fig. 4b).
- Insert the 10 supplied pins into the holes using pliers (Fig. 5a & b).

One-Piece Screen

- One-Piece Screen panel is supplied with holes already pre-drilled, just insert the pins at the top and along both sides.
- If trimming the screen panel, drill new 3mm holes for the pins 5mm from the edge near where they were removed.

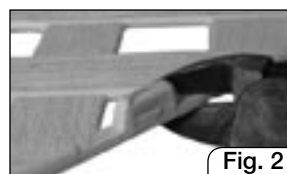
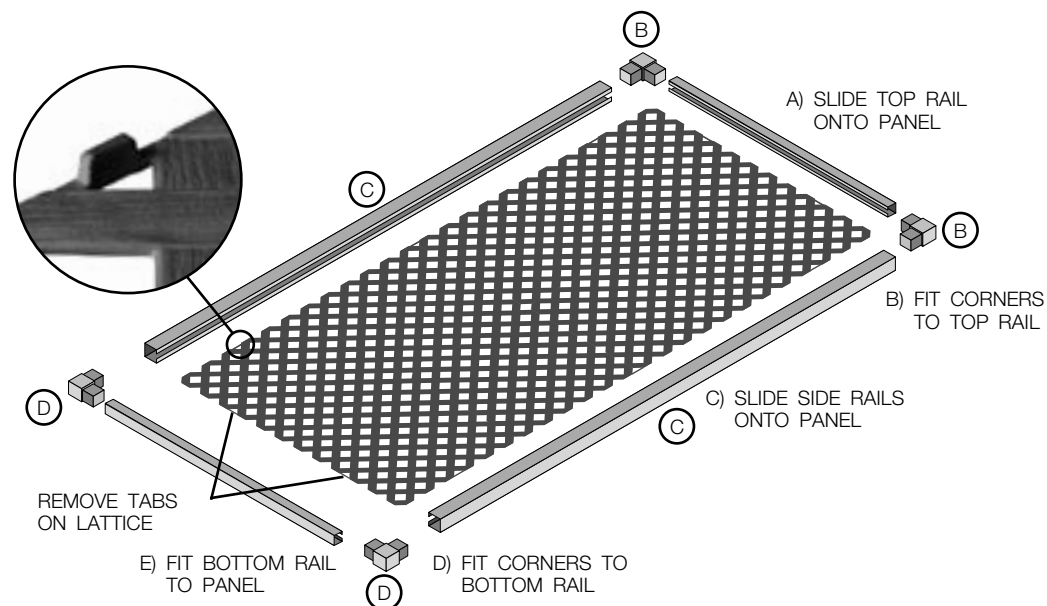
2. Assemble the C-Channel Kit

- Slide Top C-Channel over the tabs or pins (Fig. 7) onto the top edge of the panel.
- Insert a moulded corner into each end of the top C-Channel.
- Slide the two side C-channels along the edges of the panel over the tabs or pins, and tap into place.
- Insert a moulded corner into each end of bottom C-channel and tap into place.
- Fit bottom C-channel onto the bottom edge of the panel and tap the corners into the side C-channels.

3. Attach the C-Channel frame

Use the 10 supplied flat brackets to secure the frame to your support structure. Attach the flat brackets to the C-Channel using screws or rivets (Fig. 8), ensuring that the brackets are offset from the centre of the C-Channel (Fig. 9) so that they do not interfere with the thermal expansion of the panel. We recommend using three brackets (evenly spaced) on each long side and two brackets on each short side (Fig. 1).

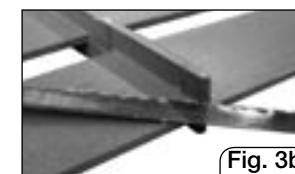
Attach the other end of each bracket to the support structure using appropriate screws. Alternatively, you can drill holes straight through the C-channels and attach directly to the support structure behind using 50mm or longer screws. Ensure that the screws do not go through the panel inside the C-channel as this will interfere with expansion and contraction, which will void the warranty.



REMOVE TABS FROM
BOTTOM EDGE OF LATTICE



TRIM MOULDED SCREEN RIB
10MM FROM EDGE



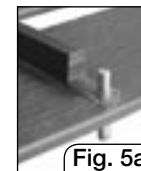
REMEMBER TO DO BOTH
SIDES



DRILL 3MM HOLE 5MM
FROM EDGE



Fig. 4b



INSERT PINS

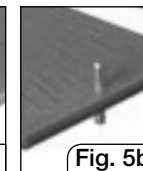


Fig. 5b



INSERT PINS INTO TRIMMED
LATTICE PANEL



SLIDE C-CHANNEL OVER
TABS OR PINS



Fig. 7b



REMEMBER TO OFFSET
SCREW FOR FLAT BRACKETS



SCREW DOES NOT
INTERFERE WITH SHEET