

## C-CHANNEL KIT INSTALLATION

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

2 x 94" Long C-Channel	10 x Flat Attachment Brackets	4 x Moulded Corners
2 x 46 1/2" Long C-Channel	10 x Pins 1/8"Øx3/4" long	

### Tools and hardware required

Sprit Level	Tape Measure	Hacksaw	Wood saw	Pliers
Rubber Mallet	Drill with 1/8" 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 1/8" holes about 3/16" in from the edge of the panel and inserting the pins with pliers.
- The kit is designed to be fitted in a vertical position (8' high x 4' wide), where it can span 4' between supports. If installing on its side (8' wide x 4' high), provide an additional support in the middle of each 8' 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 12" 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.

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

The maximum opening that one full framed panel can fill is 4' x 8' (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

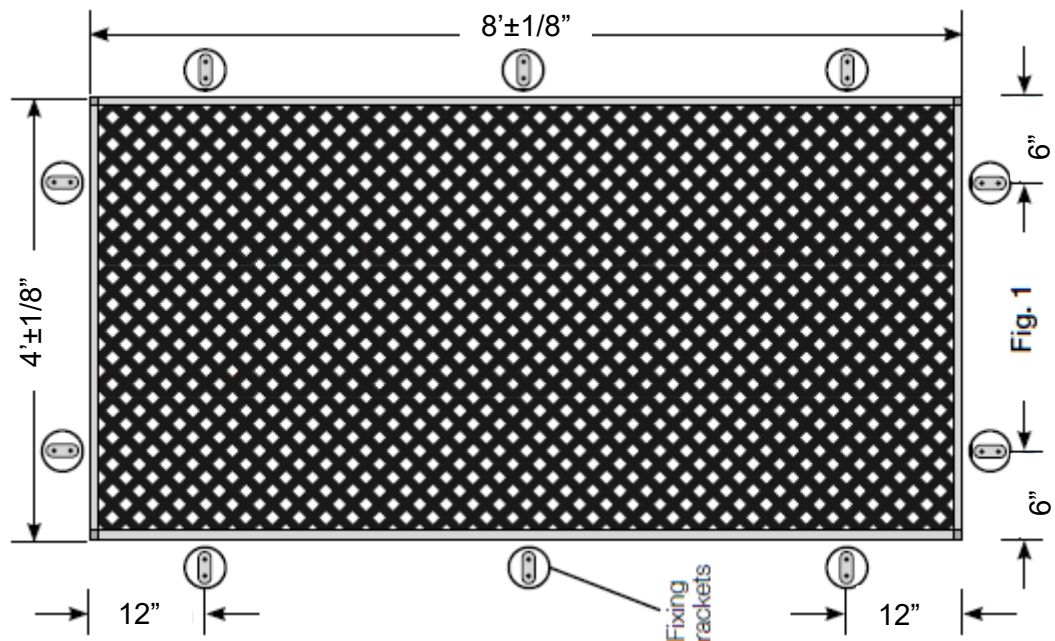
Some expansion and contraction of the lattice/screen will occur with changes in temperature (see table below). When properly installed, the C-Channel kit will allow for thermal expansion and contraction of the panel. Attaching Matrix screening products with no provision for thermal expansion and contraction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

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

At 32°F = 47 3/8" x 94 3/4"

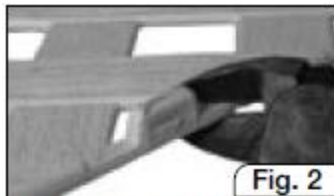
At 68°F = 47 7/16" x 94 7/8"

At 104°F = 47 1/2" x 95 1/16"

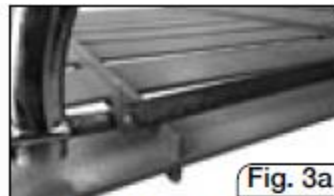


### 1. Prepare the panel and frame components

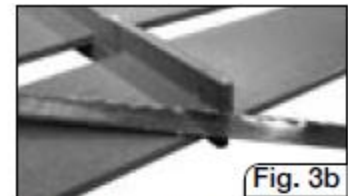
This kit is designed to fit a standard full sheet of lattice or screen panel and will cover an area 8' x 4'. Accurately measure the area to be covered by the framed screen. Remember to allow room for the attachment brackets and screws. If you need to reduce the height and/or width, cut the C-channels with a hacksaw first, then trim the panel using a wood saw by the same amount.



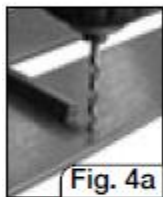
REMOVE TABS FROM  
BOTTOM EDGE OF LATTICE



TRIM MOULDED SCREEN RIB  
3/8" FROM EDGE



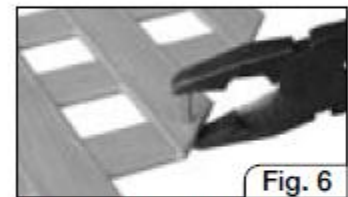
REMEMBER TO DO BOTH  
SIDES



DRILL 1/8" HOLE 3/16"  
FROM EDGE



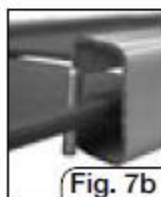
INSERT PINS



INSERT PINS INTO TRIMMED  
LATTICE PANEL



SLIDE C-CHANNEL OVER  
TABS OR PINS



REMEMBER TO OFFSET  
SCREW FOR FLAT BRACKETS



SCREW DOES NOT  
INTERFERE WITH SHEET

## 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 1/8" holes 3/16" 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

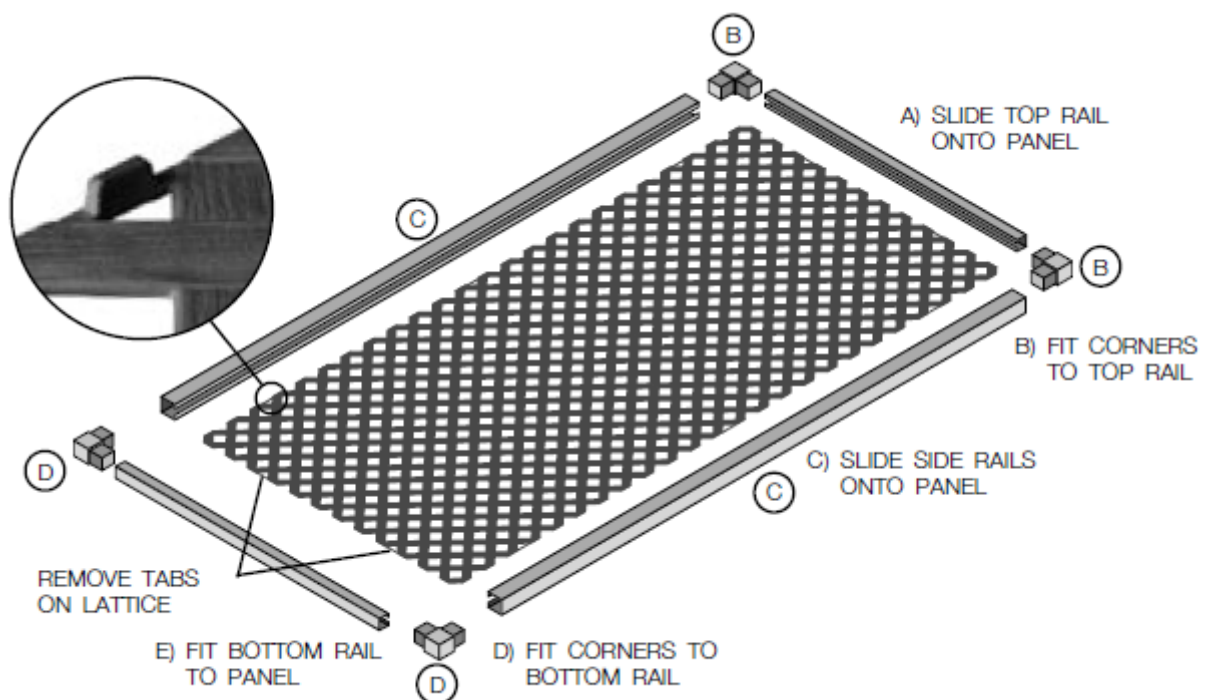
- Trim the 4 vertical ribs with a saw as shown on Fig. 3a & 3b at top and bottom of the panel and on both front and back.
- Drill 1/8" holes 3/16" from the top edge where the four ribs were removed (Fig. 4a) and at each end of three of the slats evenly spaced on the long sides (Fig. 4b).
- Insert the 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 1/8" holes for the pins 3/16" 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 2" 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.

### 15 Year Manufacturer's Warranty

Design Flow Pty Ltd warrants to the original purchaser that Matrix screening, fencing and flooring 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 of the materials 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 faulty 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.

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