

# Matrix Décor Screen



- Never needs painting
- 15 year structural warranty
- No harmful chemicals
- Made in Australia
- Impervious to insects
- Will not swell, rot or rust

Matrix Décor Screens offer the perfect blend of contemporary styling, durability and low maintenance. The versatility and style of these screens allows for installation both indoors and outdoors, in formal and informal settings.

Matrix Décor Screens are suited to all climatic conditions and will never rot, rust, swell or leach out their colour. These screens are not affected by continuous exposure to moist, salty air and will not stain walls or paving.

Fade resistant materials are used to ensure that Matrix Decor Screens will never need painting. Painting is not recommended as conventional paints will not adhere to Matrix Decor Screens. Attractive designs of Matrix Décor Screens allow an artistic installation suited to residential and commercial properties. All

Matrix Décor Screens can be further enhanced with background or recessed lighting.

Bring the garden inside, enhance your courtyard, or disguise an existing feature or unwanted view with Matrix Décor Screens.

- Made in Australia from 100% recycled plastic
- Will not rot, rust or need painting
- Do not contain harmful chemicals
- Resistant to mould and insects
- Covered by a 15 year structural warranty

Matrix Decor Screens can be installed using several simple methods. Our recommended method is using one Matrix C-Channel Frame Kit per panel.

Matrix C-Channel Frame Kits are available in sizes that match Matrix Decor Screens. If the size of the panel has to be reduced to fit the available space, cut the same amount off the panel and off the frame pieces to ensure that they fit together.

## THERMAL EXPANSION AND CONTRACTION

All plastic products will expand and contract with changes in temperature. If no allowance is made for thermal expansion and contraction during installation, this may cause damage to the product and void the warranty. The figures below show approximate panel size variation due to temperature changes:

	8' x 4'	6' x 4'	6' x 3'
At 32°F	94.6" x 47.2"	70.8" x 47.2"	70.8" x 35.2"
68°F	94.9" x 47.4"	71.1" x 47.4"	71.1" x 35.4"
104°F	95.2" x 47.6"	71.3" x 47.6"	71.3" x 35.6"
Expansion gap:	3/4" 3/8"	1/2" 3/8"	1/2" 1/4"

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.

## 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 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](http://www.designflow.com.au); these instructions must be carefully followed in accordance with the Warranty conditions.

### INSTALLATION OPTIONS

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

- Using screws and washers – screw holes in the panel must be 1/4" larger than the screws to allow for expansion and contraction with changes in temperature. (Fig 1)
- Using a Matrix galvanised and powder coated C-channel frame kit produces a very professional and secure installation. (Fig 2)
- Within a timber frame with grooved timbers or beading. (Fig 3)

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.

Detailed instructions are available on our website:  
[www.designflow.com.au](http://www.designflow.com.au)

**NOTE:** These products are not approved for use as pool fencing.

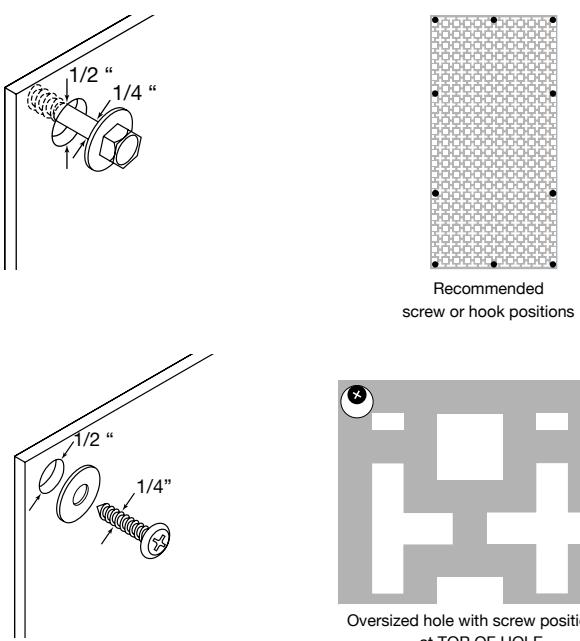
### MOUNTING DIRECTLY USING SCREWS:

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

- To mount the panel using screws (with washers if required), holes should be positioned in locations as close as practical to the diagram below.
- Holes should be drilled at least 1/4" 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.
- For a neater installation paint the screw heads or purchase colour coded hex head fasteners.

Figure 1.



#### MATRIX C-CHANNEL FRAME KIT

The Matrix C-Channel Frame Kit is designed especially for Matrix 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 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 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 screen panel of either 8' x 4', 6' x 4' or 6' x 3' size.

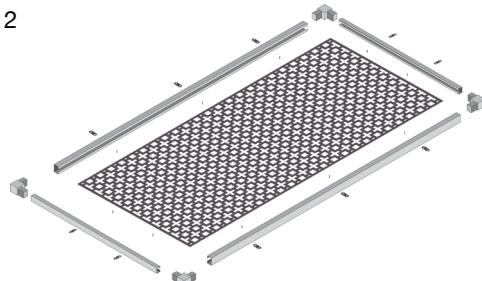
Each kit consists of the following components:

- 2 x long C-channels
- 2 x short C-channels
- 4 x plastic corners
- 10 x galvanized steel flat mounting brackets
- 10 x 7/8" long x 1/8" diameter galvanized steel pins (for securing the panel within the C-channel)

NOTE: Mounting screws are not included in the kit.

#### Matrix C-Channel Frame Kit

Figure. 2



#### 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 1/4" along the long edges and 1/2" along the short edges
- Use timber beading at least 1 1/4" 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 results paint all the timber components before assembly.

#### ROUTING TIMBER

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

- Rout a slot in the timber frame 3/8" wide. The slot has to be 3/4" deep in the base timber to retain the screen and 3/4" deep along each side. At the top, the slot has to be 1 1/4" deep. This is so that there is enough room for the decor screen to expand and contract.
- When the sheet is installed in the frame, there should be 1/4" movement in the width of the sheet and 1/2" 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.

Figure 3.

