BRETT MARTIN

marlon Clickfix 1040
Polycarbonate Glazing System

INSTALLATION
MANUAL

THERMALLY
BROKEN
SYSTEM

Marlon Clickfix1040 is the complete architectural glazing system comprising premium quality, multiwall modular panels manufactured from Brett Martin's Marlon polycarbonate. The modular panels provide quality natural light, superior thermal insulation and UV protection in addition to exceptional impact resistance and an outstanding strength to weight ratio.

The modular design consists of interlocking panels which simply click and fix into place for fast and easy installation and a completely seamless façade. Marlon Clickfix1040 is suitable for a variety of applications including roofing and cladding projects, internally and externally.

General

Fitting of Marlon Clickfix polycarbonate panels should be the last operation in completing the project. The structure should be finished with all components of the selected glazingsystem in place and wood preservatives, when used, thoroughly dry.
Marlon Clickfix panels must always be installed with the ribs running vertically or up-slope.

Safety

Panels up to 3m long can be safely handled by one person but larger panels will require two or more people. When handling panels particular care must be taken in windy conditions. Any pallets of 6 metres or longer must be lifted using a spreader beam of adequate length (with no more than 2.5m unsupported at each end) or have the panels removed by hand (one or two at a time) and re-stacked on a suitable pallet.

Storage

Store sheets on flat surfaces or wooden bearers with 100mm minimum bearing surfaceplaced at centres not exceeding 1m. Use an opaque cover, tightly secured, to protectfrom wind, rain and sun until the sheets are to be installed into their final position. Storageis always preferable indoors. Store panels away from sources of heat. Do not stack other items on top of the panels.

Installation

Ensure that the clearly marked UV protected surface of the Marlon Clickfix panel is to the outside. About 50mm of protective film should be peeled back from the ends of the panel prior to installation and the residual film should only be removed after glazing is complete Avoid excessive handling as this can cause scratching of the surfaces.

When required use only compatible sealants and tapes.

Clickfix panel has been proven to be suitable for use with a substantial number of commercially available glazing compounds, building materials and profile systems.
However, it is still vital that advice on chemical compatibility should be sought either from

Brett Martin's Technical Department or the manufacturer of interfacing products.
NB: The following installation Guidelines are specific to the thermally broken system.

Profiles

Ensure the frame to be glazed is secure and true. Aluminium profiles can be either flush mounted within the opening or surface mounted to the outside of the frame

Fix top, edge and base profiles with screws suitable for the frame, typically Ø6mm at 0.5m centres.

Profiles can be connected using fishplates to ensure joint alignment.

It is good practice to insert butyl tape or similar between the profile and the frame to seal the assembly.

The fixings should be either stainless steel or isolated from the aluminium profiles with a suitable washer.

Drainage hole are required Ø6mm at 0.5m centres on the outside of the base profile
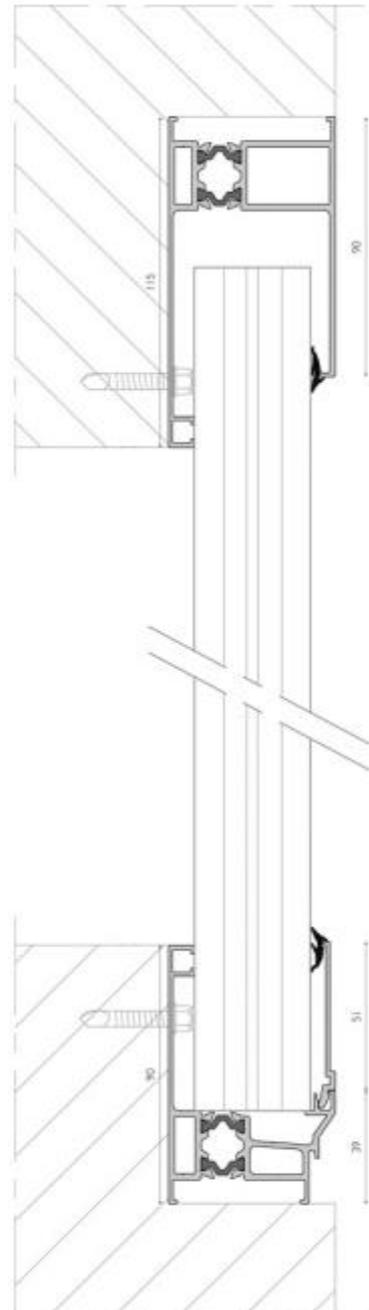
Panel Preparation

Marlon Clickfix can be cut with a fine tooth circular saw or hand saw held at a shallow angle. Dust MUST be removed from the panel using a vacuum cleaner or dry compressed air. It is necessary to support the panel close to the cut and to hold it firmly to prevent stress and vibration.

Installation Procedure

Locate clip into groove in panel
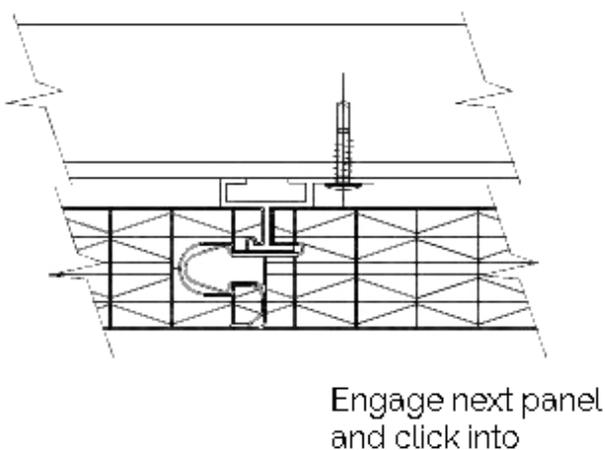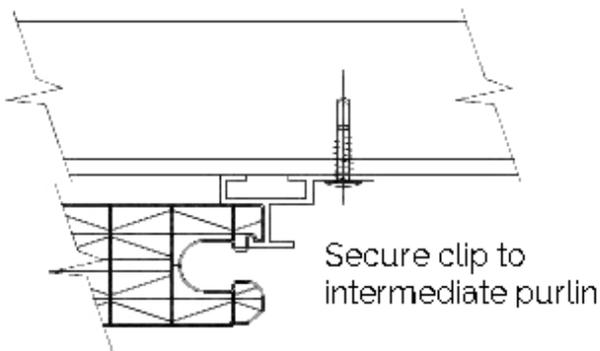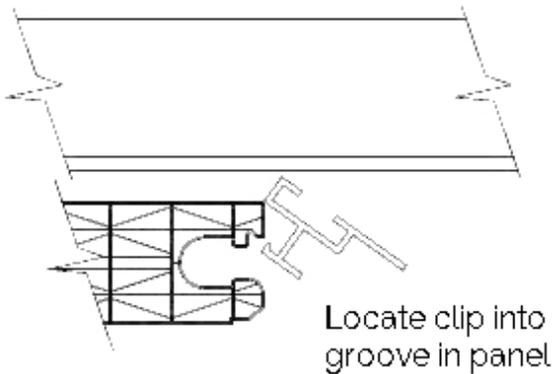
It is best practice to measure the overall opening width and determine the approximate width of the last panel. If the last panel is too narrow (less than 100mm) it becomes difficult to handle. If this is the case it is advisable to trim the width of the first panel to allow a larger finishing panel width. Rest the top of the panel on the inside of the top profile (see below) Lift the panel up until it is fully engaged Rotate the panel until it engages in the base profile Lower the panel until it rests on the panel stop

Secure clip to intermediate purlin

Slide the panel side ways until it is fully engaged in the side profile
If using clips on longer panel lengths these must be fixed as the panels are installed. They cannot be fitted later.

A small amount of silicon lubricant applied to the interlock feature can ease assembly. Continue fitting panels following the same procedure until approaching the end of the run.

Engage next panel and click into

Maintenance

As a condition of ensuring that Marlon Clickfix performs at optimum throughout its service life, it is recommended that the panel be cleaned periodically using suitable household cleaning agents. The recommended cleaning instructions are as follows:

- use lukewarm water to rinse panel and soften dirt
- make up a solution of lukewarm water and ordinary household cleaner or a mild soap and use this to wash panel
- a sponge or soft cloth should then be used to gently remove dirt and grime
- the cleaning process should then be repeated and the panel rinsed and dried with a soft cloth

WARNING!
Care should be taken to observe the following precautions:
1. Do not scrub Marlon Clickfix panel with brushes or sharp instruments.
2. Avoid contact with the UV protected surface of Marlon Clickfix by Butyl Cellosolve,Isopropanol or any other solvent.
3. Avoid any abrasives or cleaners of a highly alkaline composition.

It is generally advisable in all instances to test any cleaner on a sample piece of Marlon Clickfix first and it should also be remembered that cleaners and solvents which state that they are suitable for cleaning polycarbonate may not be safe for use on the UV protective surface of Marlon Clickfix .

Properties	
Thickness	40mm ±0.5mm
Structure	10 wall
Modular Width	500mm ±2.5mm
Overall Width	526mm ±2.5mm
Weight	4.3kg/m2 ±5%
Thermal Insulation	0.99W/m2K EN 673
Impact Resistance	Class B ACR[M]
Minimum Recommended Pitch	10˚
Fire Class	B-s1, d0 EN 13501-1

+/- Load (kN/m2)	Span (m)
0.6	2.2
0.8	2.1
0.9	2.0
1.0	1.9
1.2	1.8
1.5	1.7
1.8	1.6
2.0	1.5