



Next Generation Seamless Vertical Façades

... a simple click and fix with
Marlon Clickfix1040 glazing system

marlonClickfix1040 Polycarbonate Glazing System

Marlon Clickfix1040 is the complete architectural glazing system providing quality natural daylight and superior thermal insulation with a U-value of 0.99W/m²K. Consisting of unique interlocking glazing panels manufactured from lightweight polycarbonate sheet, the modular system simply clicks and fixes into place to create seamless vertically glazed areas.

Made from 40mm thick, 10-wall multiwall polycarbonate the panels offer excellent UV protection and high impact resistance and come with a 10-year warranty. Designed as a complete system Marlon Clickfix1040 is supplied with thermally-broken aluminium profiles, purlin clips and EPDM gaskets and offers the potential for swift and simple installation on site.

Achieving a European fire rating of B-s1,d0, Marlon Clickfix1040 is suitable for vertically glazed façades, northlights, cladding and partitioning applications, internally and externally.



KEY BENEFITS

- High light transmission
- Thermally insulating
- Energy saving
- Simple click and fix system
- Quick and easy to install
- Maximum airtightness
- Minimal solar gain
- Weatherable and UV resistant
- Damage and impact resistant
- Fire rating B-s1,d0 to EN13501-1
- 10 year warranty on polycarbonate panel

APPLICATIONS

- All building types
- Façades
- Northlights
- Cladding and partitioning
- Internally and externally

Also suitable for **Rooflights and Canopies** - download these fact sheets from www.brettmartin.com

OPTIONS

- Sheet lengths: Up to 12m as standard (longer lengths available to order)
- Standard colours: Clear (g)*; Pearlescent (clear and colour options available to order) *(g) glass effect
- Protective coatings: Double sided UV protection; condensation control



PANEL PROPERTIES

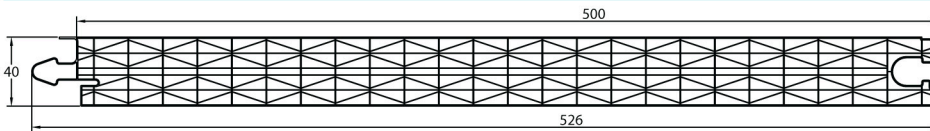
Panel Thickness	40mm
Panel Structure	10wall
Modular Width	500mm ±2.5mm
Overall Width	526mm ±2.5mm
Weight	4.3kg/m² ±5%
Non-Fragility Classification	Class B to ACR[M]001 at 1200mm rail/purlin centres
Recommended Minimum Pitch	10° (for lower pitches, please contact Technical Dept)

COLOURS AND LIGHT TRANSMISSION

COLOUR	LT	SHGC	SC
Clear (g)	52%	0.42	0.48
Pearlescent	44%	0.28	0.32
Red (g)	16%	0.43	0.49
Blue (g)	15%	0.40	0.46

LT Light Transmission, SHGC Solar Heat Gain Coefficient, SC Shading Coefficient, (g) Glass Effect

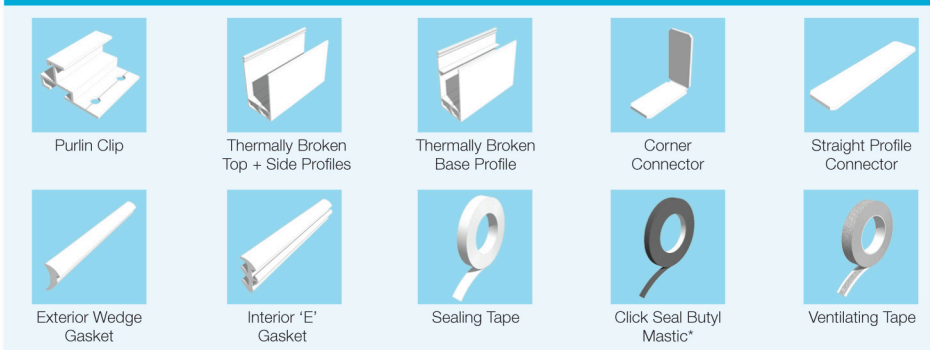
PANEL STRUCTURE AND DIMENSIONS



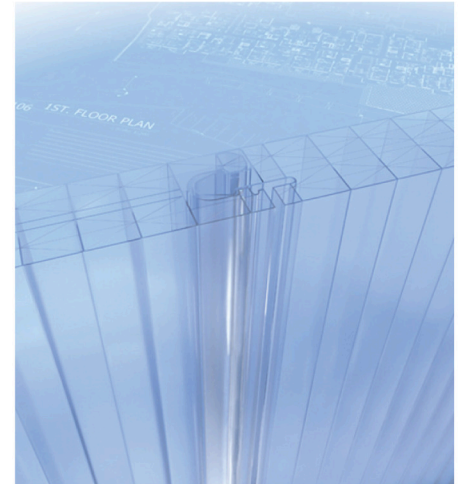
PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD	VALUE	UNITS
Mechanical Properties			
Tensile strength at yield	DIN 53455	>60	MPa
Tensile Strength at break	DIN 53455	>70	MPa
Elongation at yield	DIN 53455	6-8	%
Elongation at break	DIN 53455	>100	%
Modulus of elasticity	DIN 53457	>2300	MPa
Charpy notched impact strength	DIN 53453	>50	kJ/m²
Physical Properties			
Specific gravity	DIN 53479	1.20	g/cm³
Refractive index nD25	DIN 53491	1.586	
Water absorption, 24h @23°C	DIN 53495	0.35	%
Water permeability (thickness 1mm)	DIN 53122	<2.28	g/m²
Air Permeability	BS EN 12114:2000 (BRE)	@+50 @-50	Pa 0.18m³/h.m² Pa 0.21m³/h.m²
Thermal Properties			
Softening temperature Vicat 'B'	DIN 53460	148	°C
Deflection temperature, load 1.8MPa	DIN 53461	142	°C
Linear thermal expansion	DIN 53752	6.8X10 ⁻⁵	m/m.K
Thermal conductivity	DIN 52612	0.2	W/m.K

ACCESSORIES



* Recommended for sealing between Clickfix profiles and a flat level substrate. Should substrate be uneven (eg including cladding sheet overlaps), please contact Brett Martin Daylight Systems for advice on suitable alternatives.



SPANNING

+/- 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

Note: spanning based on deflection limit of 50mm or span/40 whichever is the lower.

FIRE PERFORMANCE

TEST METHOD	CLASSIFICATION
EN 13501-1	B-s1, d0

For further details please contact our technical department.

INSTALLATION

An Installation Guide is available to download from www.brettmartin.com

WARRANTY



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