



## POLYCARBONATE GLAZING SYSTEM FOR VERTICAL FAÇADES

Marlon Clickfix 1040 is the complete architectural glazing system providing quality natural daylight and superior thermal insulation with a U-value of 0.99W/m<sup>2</sup>K. 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 Clickfix 1040 is supplied with thermally broken or non-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 Clickfix 1040 is suitable for vertically glazed façades, northlights, cladding and partitioning applications, internally and externally.



**marlon** Clickfix 1040  
Polycarbonate Glazing System

### 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](http://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

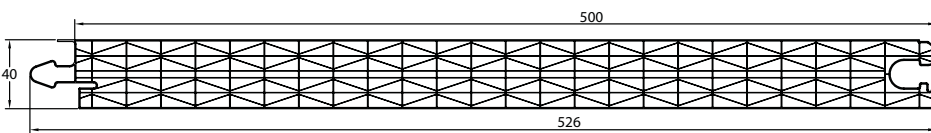


PANEL PROPERTIES	
Panel Thickness	40mm
Panel Structure	10 wall
Modular Width	500mm ±2.5%
Overall Width	526mm ±2.5%
Thermal Insulation	0.99 W/m <sup>2</sup> K to EN 673
Weight	4.3kg/m <sup>2</sup> ±5%
Non-Fragility Classification	Class B to ACR[M]001 at 1200mm rail/purlin centres
Fire Performance	B-s1,d0 to EN13501-1
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
Green (g)	11%	0.31	0.36

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

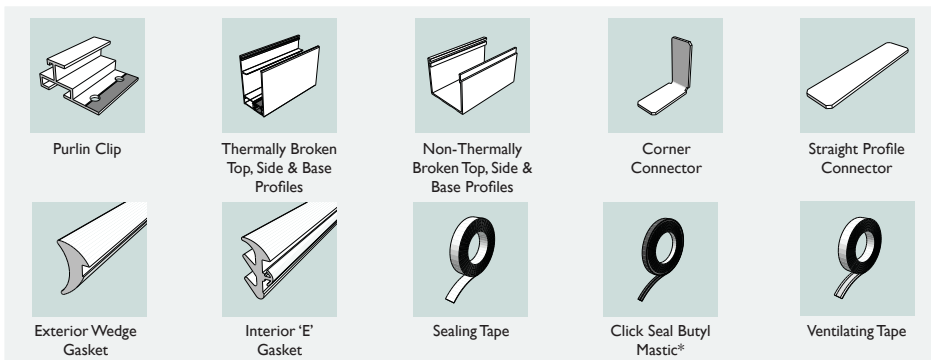
### PANEL STRUCTURE AND DIMENSIONS



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/m <sup>2</sup>
Physical Properties	Specific gravity	DIN 53479	1.20	g/cm <sup>3</sup>
	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/m <sup>2</sup>
	Air Permeability	BS EN 12114:2000 (BRE)	@+50 @-50	Pa 0.18m <sup>3</sup> /h.m <sup>2</sup> Pa 0.21m <sup>3</sup> /h.m <sup>2</sup>
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 <sup>-5</sup>	m/m.K
	Thermal conductivity	DIN 52612	0.2	W/m.K
	Maximum service temperature		Permanent 100 Short Term 130	°C
	- no loading			°C

### ACCESSORIES

A range of accessories is available for both thermally broken and non-thermally broken systems.



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



SPANNING	
+/- LOAD (KN/M <sup>2</sup> )	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.

### INSTALLATION

Installation Guides for thermally broken and non-thermally broken systems can be downloaded from [www.brettmartin.com](http://www.brettmartin.com)

### WARRANTY



**REMEMBER** Marlon polycarbonate is also available in a range of multiwall, corrugated, flat and corrugated multiwall sheet options. A range of accessories is also available. For further details please visit our website.



**Plastic Sheets**

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