



**Master-C roofing panels**



master panel

E15 / 24 11

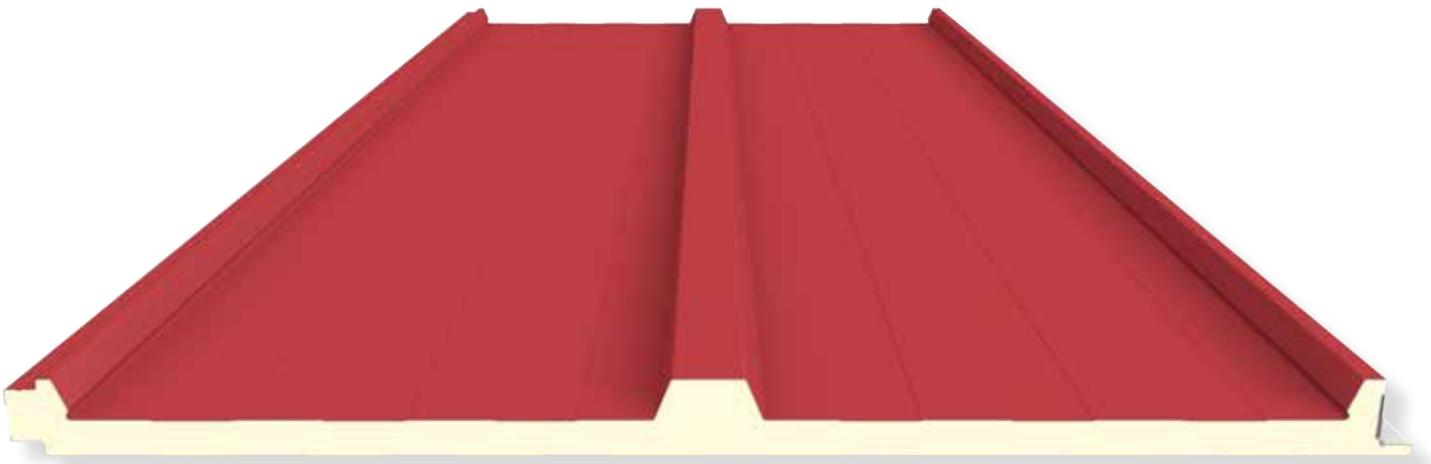


**MASTER-C** panels are structural roof panels composed of steel skins laminated to a minimum 1.6 inch polyisocyanurate foam core (min 2.3 pcf density).

**MASTER-C** panels have a tongue and groove joining system with a steel cover cap that hides and protects the fasteners and ensures the watertightness of the system.

Installation is very simple, and provides total watertightness (roof slopes of over ½:12).

## Master-C roofing panels



**MASTER-C** panels have a tongue and groove joining system with a steel cover cap that hides and protects the fasteners and ensures the watertightness of the system.

External profile of the panel is a three-rib design, available in seven different thicknesses, with two different interior rib designs and a wide range of colours to meet customer needs.

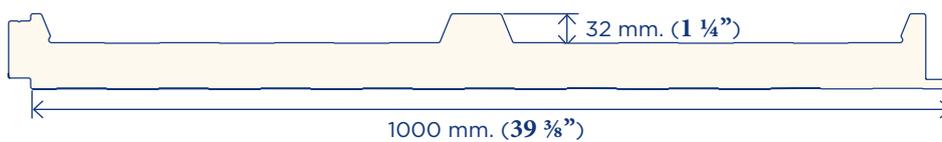


**TECHNICAL SPECIFICATIONS**

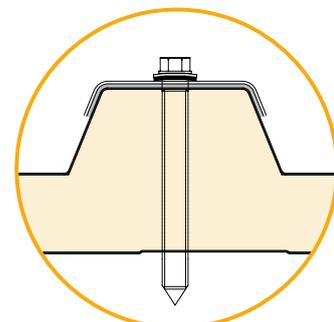
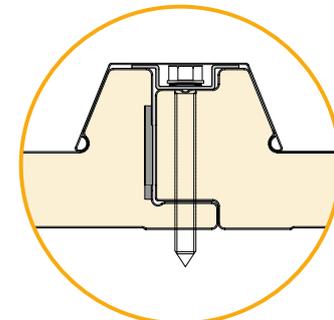
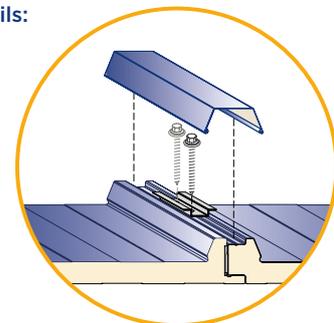
**Master-C roof panels**

	<b>VALUES</b>
<b>Panel thickness</b>	40, 50, 60, 80, 100, 120 mm. 1 <sup>9</sup> / <sub>16</sub> , 1 <sup>3</sup> / <sub>2</sub> , 2 <sup>3</sup> / <sub>8</sub> , 3 <sup>5</sup> / <sub>32</sub> , 3 <sup>15</sup> / <sub>16</sub> , 4 <sup>23</sup> / <sub>32</sub> inch.
<b>Useable width</b>	1000 mm. (39 <sup>3</sup> / <sub>8</sub> " )
<b>Length</b>	Up to 11.900 mm. (39 ft.)
<b>Field of application</b>	Roofing
<b>Thicknesses of outer face</b>	mm 0.5 / 0.6 / 0.7 GAUGE 26 / 24 / 22
<b>Thicknesses of inner face</b>	mm 0.5 / 0.6 / 0.7 GAUGE 26 / 24 / 22
<b>Exterior face</b>	G90 galvanized or AZ50 aluminium-zinc, coated steel in 26 GA and above
<b>Interior face</b>	G90 galvanized or AZ50 aluminium-zinc, coated steel in 26 GA and above
<b>Coatings (see section on Finishes)</b>	Polyester 25um (1 mil) PVDF 25um / 35um (1 mil / 1.38 mils) Granite HDX / SDP 50 (2,16 mils) PVC imitation wood (interior use)
<b>Outer ribbing</b>	Three ribs
<b>Inner ribbing</b>	Standard / Flat
<b>Type of core</b>	Polyisocyanurate (PIR)
<b>Core Density</b>	40 Kg/m <sup>3</sup> (2.3 PCF)

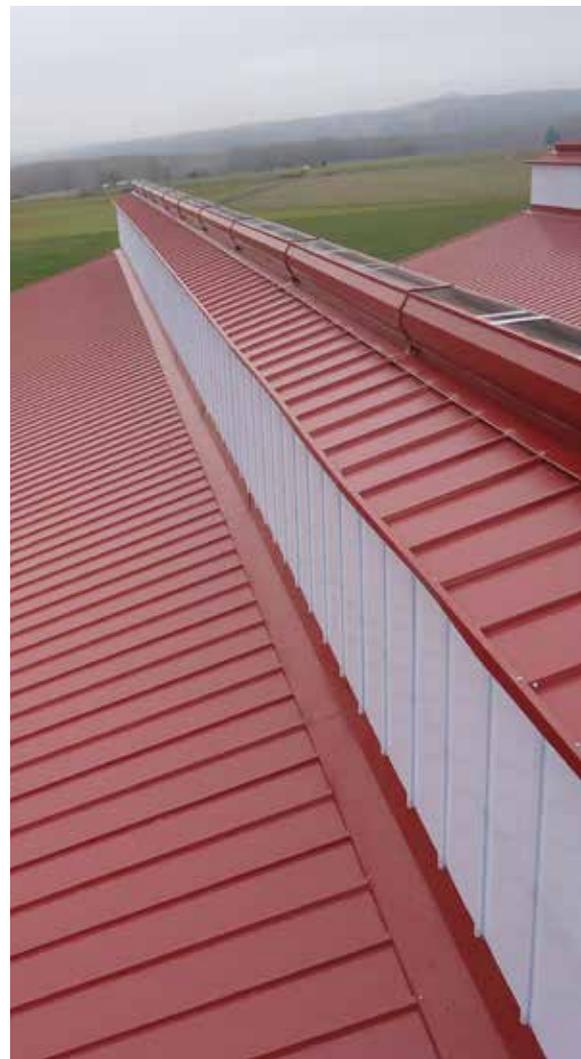
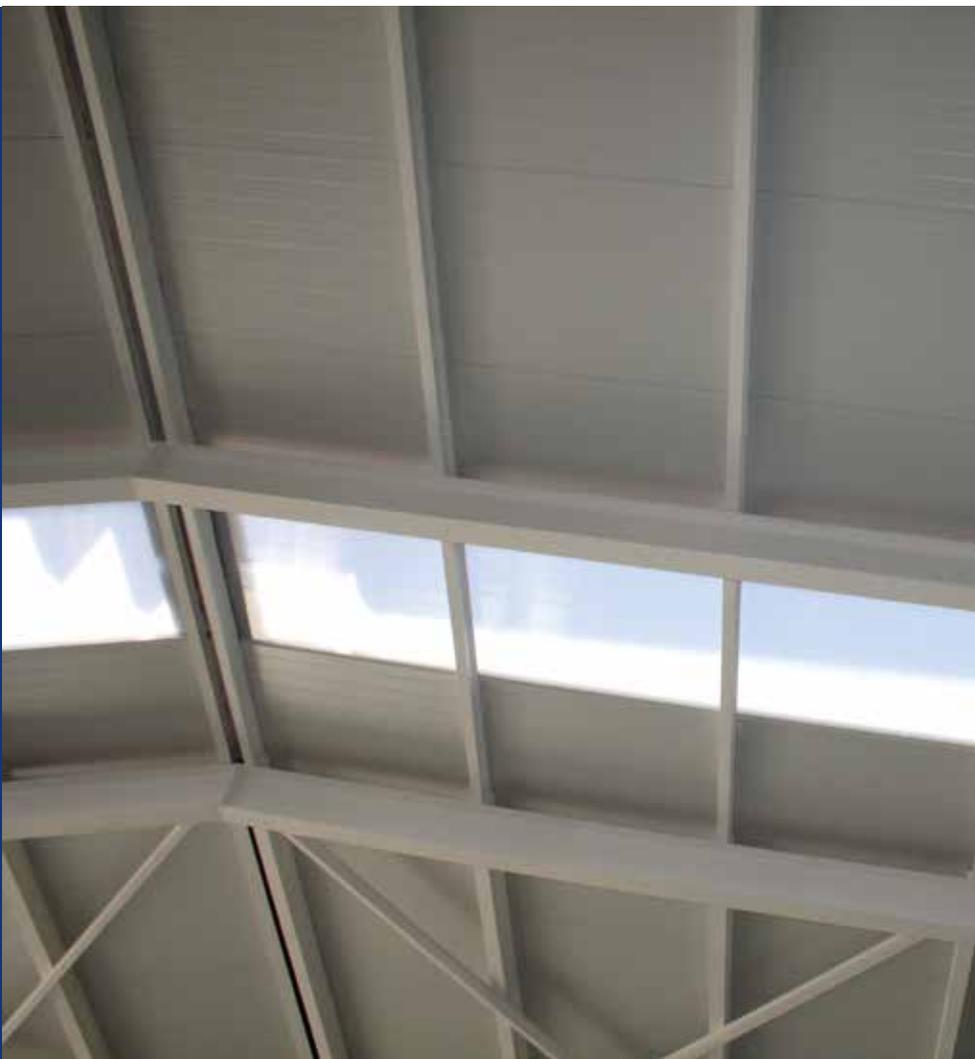
Three ribs



Fixing details:



<b>Panel thickness</b>	<b>Panel weight</b> ( <sup>26</sup> / <sub>26</sub> ga.)	<b>U - Value</b>	<b>R - Value</b>
mm (")	LB/ft <sup>2</sup>	BTU/Hr ft <sup>2</sup> °F	Hr ft <sup>2</sup> °F/BTU
40 (1 <sup>9</sup> / <sub>16</sub> " )	2.23	0.091	11.015
50 (1 <sup>3</sup> / <sub>2</sub> " )	2.31	0.073	13.694
60 (2 <sup>3</sup> / <sub>8</sub> " )	2.40	0.061	16.410
80 (3 <sup>5</sup> / <sub>32</sub> " )	2.56	0.046	21.803
100 (3 <sup>15</sup> / <sub>16</sub> " )	2.72	0.037	27.164
120 (4 <sup>23</sup> / <sub>32</sub> " )	2.89	0.031	32.524



## Functions and benefits of **MASTER-C** panels

- Resistant to aggressive environments
- High thermal insulation capacity
- A versatile material that allows any configuration
- High mechanical strength
- Quick to install and easy to maintain (easy to clean)
- The fasteners are hidden and protected
- Easily removable and can be reused
- High dimensional stability
- Made to measure, avoids waste
- Water vapour tight

**Allowable Inward and Outward Loads (psf). Minimum 2.44" thick 26-26 ga., Three Rib Profile**

Panel Span (ft)	Span Condition		
	Single Span	Two Spans	3 or more Spans
1	121.8	131.9	137.5
1.5	81.2	88.4	99.7
2	60.9	66.6	74.8
2.5	48.7	53.5	59.9
3	40.6	44.7	49.9
3.5	34.8	38.4	42.8
4	30.5	33.6	37.5

**NOTES:**

1. Allowable inward and outward loads are based on panel an connection strength and deflection limit of L/240.
2. Allowable loads are obtained from ASTM E1592 test an calculated with a factor of safety 2.0 for connection.
3. Panels will be fastened along each panel seam with (2) #12-24 x 4-1/4" HWH fasteners with 1/2" bonded sealing washer installed through 2-3/8" x 1-9/16" x 16 ga. bearing plate prior to installing the 24 ga. steel cap.
4. (1) #12-24 x 4-1/4" HWH fastener with 1/2" bonded sealing washer will be installed through 1-9/16" x 20 ga. bearing plate with sealing rubber along the intermediate rib of each panel at each purling.
5. #12-24 x 1" HWH fasteners with 1/2" bonded sealing washers will be installed staggered 2.5 -ft o.c on either side of the seam cap.
6. The structural capacity of the panel supports are not considered and must be examined independently.



