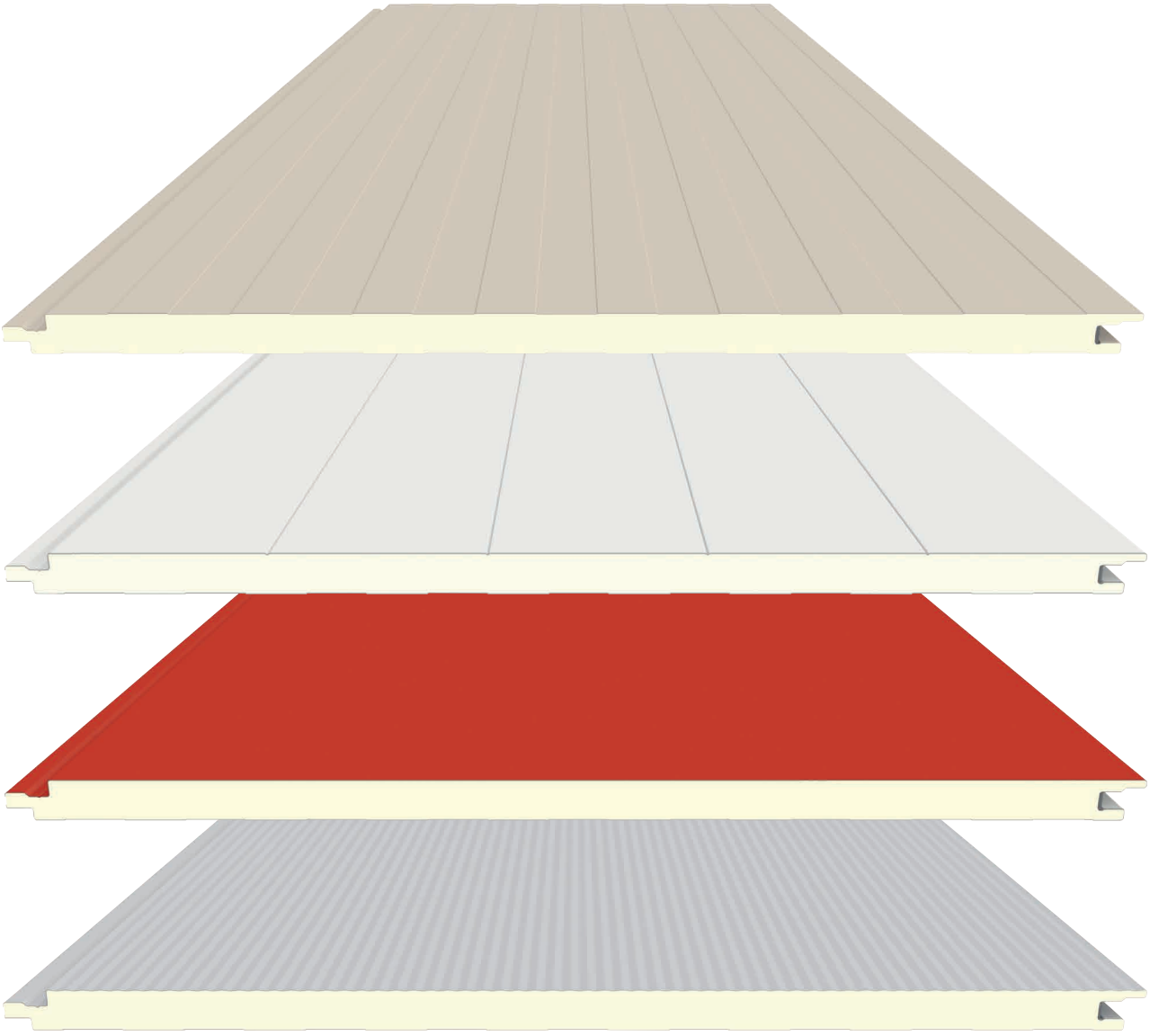
MASTER PANEL

MASTER-F

Master-F wall panels

MASTER-F panels are structural wall Insulated Metal Panels composed of steel skins laminated to a minimum of 1.96-inch polyisocyanurate foam core (min 2.3 pcf density)..

MASTER-F panels have a tongue and groove joining system designed to hide and protect the fixings, which gives an excellent aesthetic appearance. They can be installed in both vertical and horizontal positions.



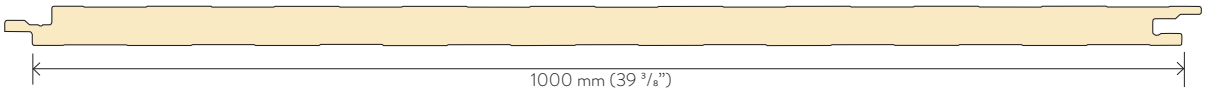
They come in four different exterior finishes (standard, lined, flat, micro-rib) and two different inner ribbings (standard and flat), as well as a wide range of available colors.

Master-F wall panels

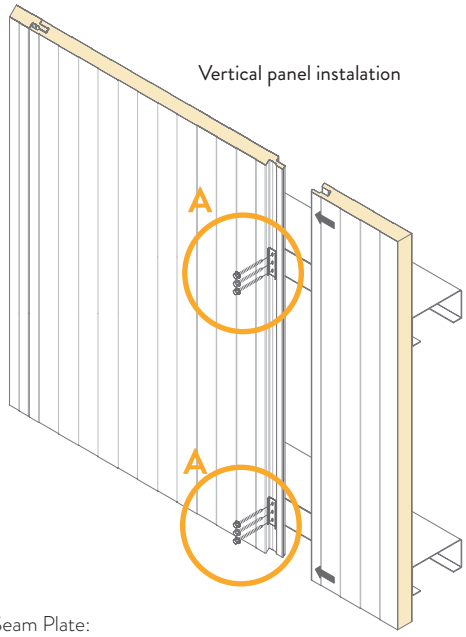
TECHNICAL SPECIFICATIONS

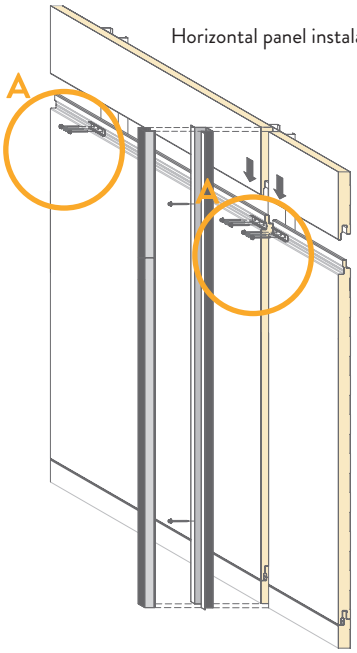
Standard | Lined | Flat | Micro-rib

	Values
Panel thickness	50, 60, 80, 100 mm. 1 31/32, 2 3/8, 3 5/32, 3 15/16, inch.
Cover Width	1000 mm. (39 3/8")
Length	Up to 11.900 mm. (39 ft.)
Field of application	Wall panels
Outer face thickness	mm 0.5 / 0.6 / 0.7
Inner face thickness	GAUGE 26 / 24 / 22
Exterior face	G90 galvanized or AZ50 aluminium-zinc, coated steel in 26 GA and above
Interior face:	G90 galvanized or AZ50 aluminium-zinc, coated steel in 26 GA and above
Coatings (see section on Finishes)	Polyester 25 um (1 mil)
	PVDF 25um / 35um (1 mil / 1.38 mils)
	PU 55um (Granite® HDX/SDP 50) (2.16 mils)
	PVC 120um (4.8mil) (foodsafe)
Outer ribbing	Standard / Lined / Flat / Micro-rib
Inner ribbing	Standard / Flat
Core type	Polyisocyanurate (PIR)
Core Density	40 kg/m³ (+/- 10%) (2.3 PCF)

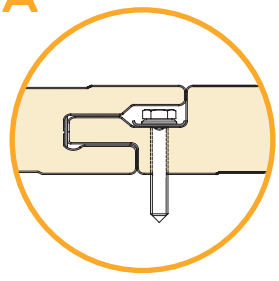


Joint detail.





A Seam Plate:



Panel Thickness		Panel weight	U-Value	R-Value
mm	inch	PSF	BTU/Hr ft² °F	Hr ft² °F/BTU
50	1 31/32	2.17	0.075	13.28
60	2 3/8	2.25	0.062	16.17
80	3 5/32	2.41	0.046	21.59
100	3 15/16	2.58	0.037	26.99

FUNCTIONS AND BENEFITS OF **MASTER-F** PANELS

- Aesthetically appealing
- Efficient thermal insulation capacity
- High mechanical strength
- Exceptional dimensional stability
- Watertight against water vapor
- Resistant to aggressive environments
- A versatile material that allows any configuration
- Quick to install and easy to maintain (easy to clean)
- Easily removable and can be reused
- Made-to-measure, avoids waste
- Made with recyclable materials

REACTION TO FIRE

intertek

ASTM E84 (MASTER-PIR) Class A
Flame Spread Index: **20**
Smoke developed index: **300**

FLORIDA APPROVED

AFITI LICOF

C-s3 d0
Nº 3406T18

B-s1 d0
Nº 3066T16

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CE

Testing and approvals:

Master Panel wall panel meet the most demanding requirements. We have large experience in producing insulated metal panels in our continuous production line and we have obtained the FL approval with reference #FL27199

TEST	TEST METHOD	RESULTS
Fire	ASTM E 84	Flame spread index 20 Smoke developed index 300
Strength	ASTM E 8	> 32 ksi steel
Wind Uplift	ASTM E 330	Design load up to 67.5 psf
Water penetration	ASTM E 331	No water leakage at 12 psf
Permeability	ASTM E 283	< 0.004 cfm/ft^2 at 12 psf

Master-F Wall Panel

Panel Description	Support Spacing (in)	Allowable Inward Load (psf) FD1 & FD 2	Alowable Outward Load (psf) FD1	FD2
Master F Min. 26 ga. Exterior & Interior Skins Panel Core Thickness: 1-31/32", 2-3/8", 3-5/32" 3-15/16", 4-23/32", 5-15/16" (50, 60, 80, 100, 120 & 150 mm)	36	132.5	**34.5**	**67.5**
	39	122.3	33.7	65.4
	42	113.6	32.8	63.3
	48	99.4	31.2	56.3
	54	88.3	29.5	50.0
	60	79.5	27.8	45.0
	66	72.3	26.2	40.9
	72	66.3	24.4	37.5
	78	61.2	22.5	34.6
	84	56.8	20.9	32.1
	90	**53.0**	**19.5**	**30.0**

Notes:
1. Allowable load is the lowest value of panel strength, connection strength & deflection limit of L/180
2. Allowable load is aplicable to two or more span conditions.
3. The bold numbers indicate design loads obtained from test reports.
4. Panels must be installed as per Evaluation Report FL27199.1 and Master Panel current installation procedure.
5. For Fastening Design FD1, U-clips are fastened to min. 14 ga. steel with (2) 1/4"-14 Type 3 SDS or to min. 16 ga. steel with (3) 1/4'-14 Type 3 SDS at all supports.
6. The Fastening Design FD2 includes U-clip attachment plus 3 Fab-loks fasteners per panel width at supports. Fastener spacing is 9.8" (250 mm) o.c. from female edge of panel seam.
7. Continuous bead of Dow Corning® 791 silicone weatherproofing sealant was field applied along the panel seams.
8. The structural capacity of support beam are not considered and must be examined independently by others.
9. Minimum bearing width of support is 2.5"

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CINESA
3D
DIGITAL
la gavia

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