

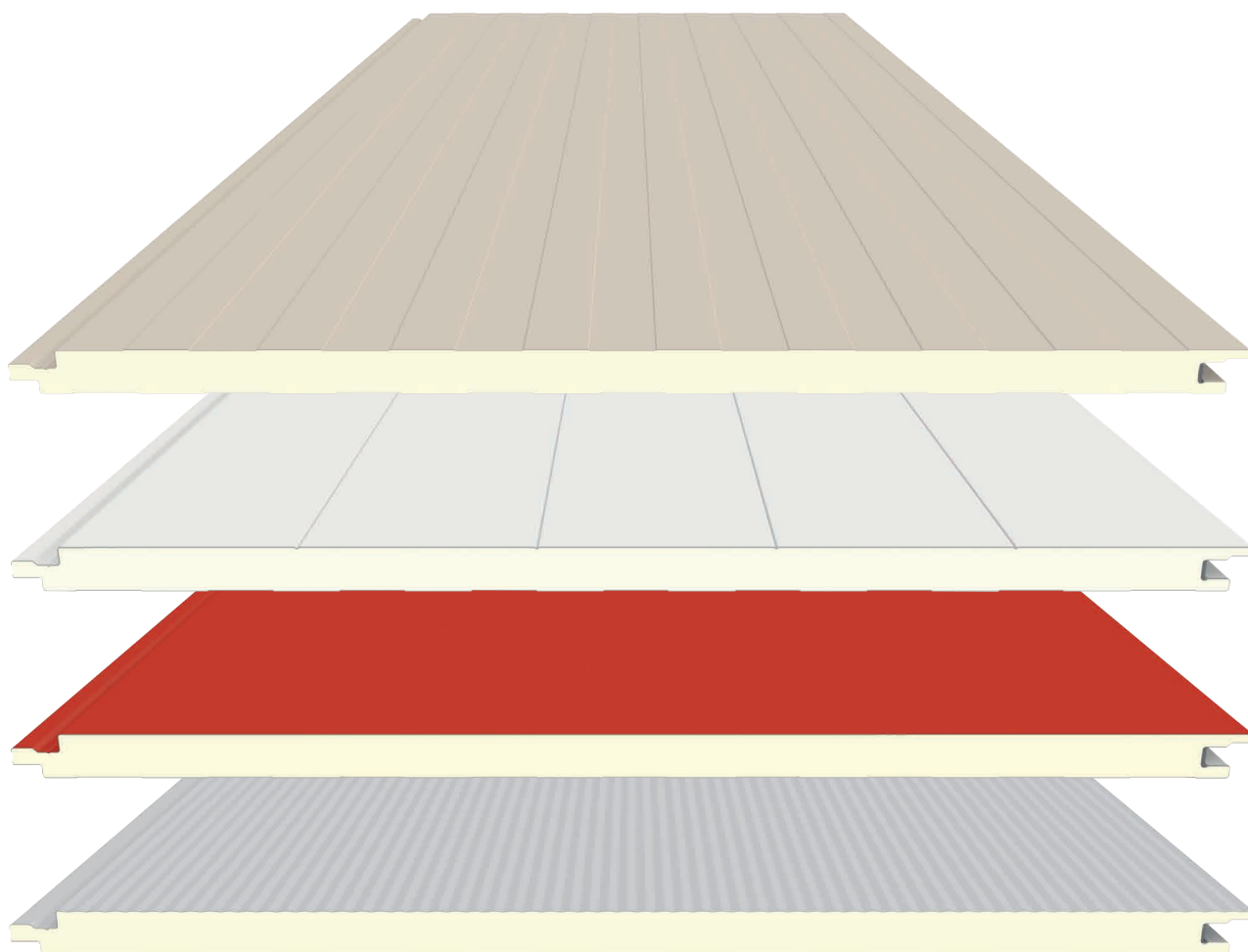


MASTER-F

Master-F wall panels

MASTER-F panels are continuous production line prefabricated panels and are composed of two layers of prepainted galvanized steel bonded to a core of rigid polyurethane or polyisocyanurate, forming a sandwich type element, with a tongue and groove joints.

MASTER-F panels are specially designed for use in all types of facings, for industrial projects as well as for commercial or residential projects. They can be installed in both vertical and horizontal positions, and always ensure total watertightness. The joint design is designed to hide and protect the fixings, which gives an excellent aesthetic appearance.

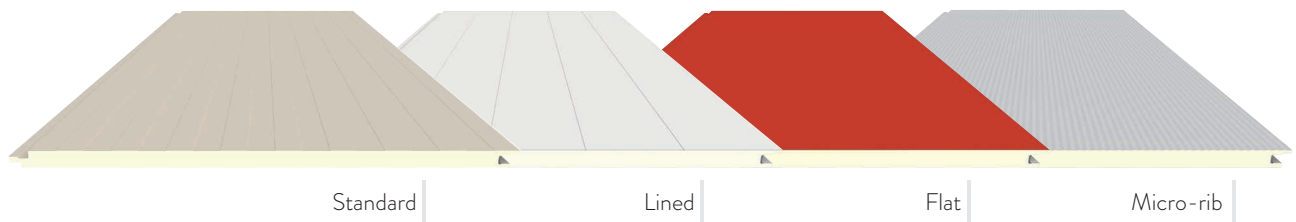


They come in four different exterior finishes (standard, lined, flat, micro-rib) and two different inner ribbings (standard and flat), as well as a wide range of available colors. Additionally, **MASTERPANEL** also offers the option of panels manufactured with PIR (polyisocyanurate) self-extinguishing foam with a B-s1, d0 certification under Euroclasses (UNE-EN 13501).

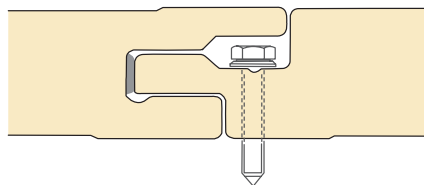
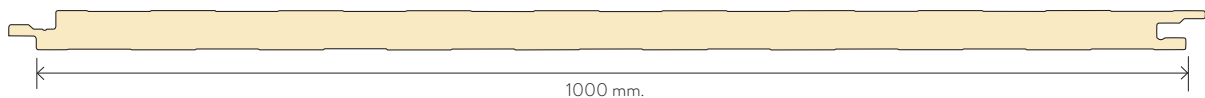


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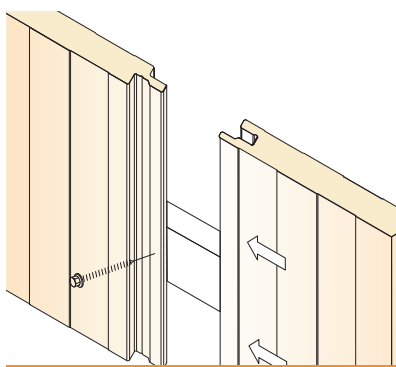
TECHNICAL SPECIFICATIONS



	Values
Panel thickness	35, 40, 50, 60, 80, 100 mm.
Cover Width	1.000 mm.
Length	Up to 16.000 mm. (max. recommended 9,000 mm)
Field of application	Wall panels
Outer face thickness	0,5 / 0,6 / 0,7 mm
Inner face thickness	0,4 / 0,5 / 0,6 / 0,7 mm
Coatings (see section on Finishes)	Polyester 25um PVDF 25um / 35um PU 55um (Granite® HDX/PUPA 55) Imitation wood (inner face) PVC 120 um (foodsafes)
Outer ribbing	Standard / Lined / Flat / Micro-rib
Inner ribbing	Standard / Flat
Core type	Polyurethane (PUR) Polyisocyanurate (PIR)
Core Density	40 Kg/m ³ (+/- 10%)
Tensile strength	> 0,060 Mpa
Compressive strength	> 0,100 Mpa
Flexural strength	> 0,100 Mpa
Reaction to fire	Cs3d0 / Bs1d0



Joint detail.
Other fixing options: see p. 81



Panel thickness	Weight	Thermal transmittance (U-value)		Thermal resistance (R-value)	
		mm	kg/m ²	w/m ² k	Kcal/m ² h °C
35	9,08	0,62	0,53	1,62	9,20
40	9,28	0,54	0,46	1,86	10,53
50	9,67	0,43	0,37	2,34	13,28
60	10,06	0,35	0,30	2,85	16,17
80	10,84	0,26	0,23	3,80	21,59
100	11,62	0,21	0,18	4,76	26,99

Calculations according to EN14509, measuring the surface resistance according to horizontal flow and omitting the influence of the profiled faces. Losses in bolted connections must be calculated by the designer.

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



C-s3 d0
N° 3406T18

B-s1 d0
N° 3066T16

ASTM E84 (MASTER-PIR) Class A

Flame Spread Index: **20**
Smoke developed index: **300**



Permissible overloads (kg/m²).

Panel thickness mm.	(L) Span distance in cm. Calculations made on 0,50 mm / 0,50 mm panels												
	100	150	175	200	225	250	275	300	325	350	375	400	
35	399	240	195	161	135	115	98	85					
40	462	281	229	190	160	137	118	102	89				
50		363	298	249	211	182	157	137	120	106	94		
60			368	309	264	227	198	174	153	136	121	108	
80				431	370	322	282	249	222	198	178	160	
100					479	418	368	327	292	262	237	214	

Evenly distributed pressure overload for 2 spans (3 supports).
 Calculated for a Service Limit State of deformations $L / 200$. According to EN14509.
 Overloads not factored The designer must carry out the calculations in accordance with the applicable regulations.



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This document is not a safety manual.

The content and recommendations in the catalogue are informative and non-binding.

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General Sales Conditions available on our website www.magon.es



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