



# ISOGRECATA

Embossed Centesimal Aluminum

## Characteristics:

Monosheet panel with rigid foam insulation made of polyurethane or polyisocyanurate (PUR and PIR) for roofing with a minimum slope of 5%. The outer sheet is profiled with 4 trapezoidal ribs to increase resistance to static and dynamic loads. The fastening is exposed with clips and gaskets. The inner face is embossed hundredth aluminum, available in natural aluminum or white color.

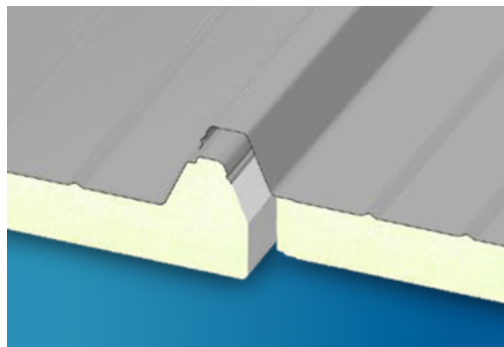
## Options:

As an economical panel, it is ideal, especially for applications with low-budget projects, with less metal structure on-site, and that require good overall firmness and resistance with secondary aesthetic needs.



## Benefits:

- Easy-to-clean material
- Better internal appearance
- Greater resistance
- Lightweight, requires less structure





## Embossed Hundredth Aluminum Specifications

Joint	Tongue-and-groove
Effective Width	39 3/8" - 1000 mm
Standard Length	Minimum 2.50 m, maximum 12 m (Subject to transport availability)
External Face	Pre-painted galvanized steel
Internal Face	Embossed Hundredth Aluminum
Interior Finish	Aluminum
Exterior Finish	Polyester Coating / Available in embossed finish
Foam Density	40 kg/m <sup>3</sup> ± 10%
Fixation	Exposed Fastening / Fixing Clips

## Wheelbase Overload

### Sheet Thickness (Gauge)

3/08"	1"	1 1/2"	2"	2 1/2"
9.52	25.4	38.1	50.8	63.5

### Maximum between axles (cm)

sheet gauge	Valores en kg/m2				
28	5.9	6.5	7.0	7.6	8.1
26	6.9	7.5	8.0	8.5	9.0
24	7.8	8.4	8.9	9.4	10.0

## Wheelbase Overload

### Sheet Thickness (Gauge)

kg/m2	28	26	24	22
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### Maximum between axles (cm)

80	170	190	210	225
100	150	170	190	210
120	140	160	175	195
140	140	150	160	175
160	120	140	150	165

Once the distributed load has been determined, the panel thickness is chosen according to the thermal requirements of the project, and at the intersection of both is the distance between supports in cm.

Deflection limit 1/200 l.



## Dimensional Tolerance

Length	$\pm 10$ mm
Width	$\pm 5$ mm
Thickness	$\pm 2$ mm
Orthometry and recangularity	$\pm 3$ mm

L= Length, D= Thickness F= Support

Once the distributed load has been determined, the panel thickness is chosen according to the thermal requirements of the project, and at the intersection of both is the distance between supports in cm.

Deflection limit 1/200 l.

## Panel Weight

Nominal panel thickness (in)

3/08"	1"	1 1/2"	2"	2 1/2"
9.52	25.4	38.1	50.8	63.5

Values in kg/m<sup>2</sup>

Gauge Sheet	Valores en kg/m2				
28	5.9	6.5	7.0	7.6	8.1
26	6.9	7.5	8.0	8.5	9.0
24	7.8	8.4	8.9	9.4	10.0

## Thermal Insulation under ASTM C518 and EN10456 standards

Nominal panel thickness (in)

	3/8"	1"	1 1/2"	2"	1 2/2"
<b>U</b>	PUR/35° F (1.67°C) 55° A 15°F				
W/m2 .K	1.96	0.73	0.49	0.36	0.29
Btu/H.ft2.F	0.34	0.13	0.08	0.06	0.05
<b>U</b>	PUR/35° F (1.67°C) 55° A 15°F				
m2K/W	0.34	1.35	2.03	2.7	3.38
H ft2F/Btu	2.88	7.69	11.54	15.38	19.23
<b>U</b>	PUR/35° F (1.67°C) 55° A 15°F				
W/m.K	1.92	0.72	0.48	0.36	0.28
Btu/H.ft2.F	0.33	0.12	0.08	0.06	0.05
<b>R</b>	PUR/35° F (1.67°C) 55° A 15°F				
m2K/W	0.52	1.38	2.08	2.77	3.46
H ft2 F/Btu	2.95	7.87	11.8	15.75	19.69

For more details on Isogrecata fastening systems and overlaps, consult your advisor or technical department.



## Fastening Systems

