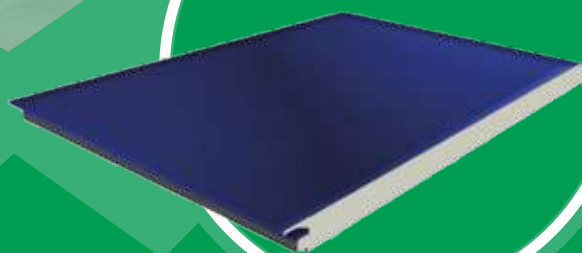




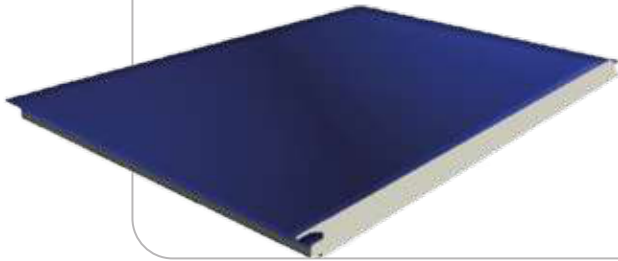
HUURRE PANAMÁ

HP-PUR STS

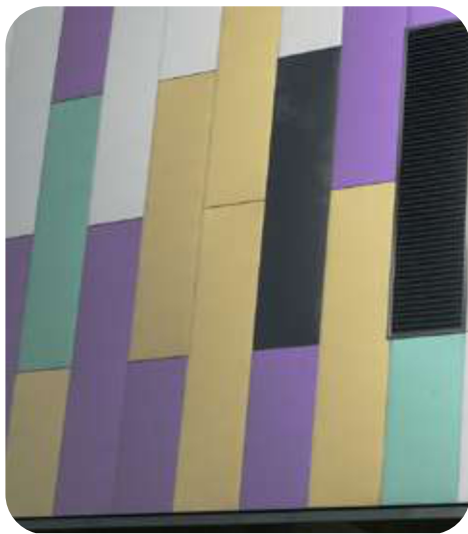
PANELWALL



PANELWALL



INSULATING PANEL OF HIGH
PRESETS FOR FAÇADES



Rigid insulating core with a high thermal performance (conductivity as low as 0.0195 W/mK).
Light enclosure with the possibility of mounting vertically or horizontally such. Also suitable for ceilings and partitions inner sions.

Structural steel sheets with slightly profiled finish with different coating options high durability cough.

It does not absorb water, maintaining its performance throughout its entire life. Shelf life, and is not affected by biological agents.

Quality and safety, guaranteed and certified.

DESCRIPTION AND APPLICATIONS



Sandwich panel with metal faces and core rigid insulation.

Panel with hidden tongue-and-groove joints and Reduced fret height on both sides.

PUR foam can be used as insulating core Available in various thicknesses, coatings and colors.

Insulating facades, residential, commercial and sports facilities, as well as for ceilings and internal divisions.

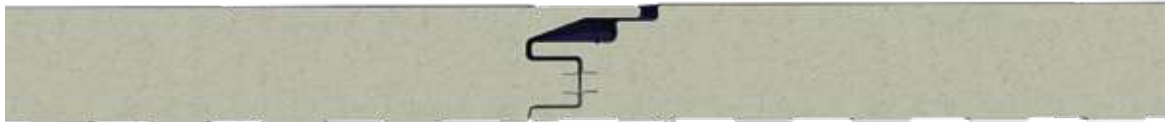
DIMENSIONS, WEIGHT AND THERMAL PERFORMANCES

Useful width	1000 m				
Manufacturing length	standar:	2 a 16 m			
Thermal conductivity	0,0195W/mK				
Declared thermal conductivity ^{o1}	0,0217W/mK(considering aged core)				
Density of the insulating core	40 ± 5 kg/m³				
Thickness(A	40	50	75	100	(mm)
Weight	10,13	10,53	11,73	12,53	(kg/m²)
Thermal transmittance1 (PUR)	0,54	0,43	0,27	0,21	(W/m²K)
Thermal resistance2 (PUR)	1,80	2,26	3,64	4,56	(m²K/W)
FactorR	11,40	14,25	21,37	28,5	(BTU hora pulg²)

NOTES: (1) Thermal transmittance determined according to the UNE-EN 14509 standard, considering the effect of aging.
(2) For 0.5/0.5mm sheets (int/ext).

HIDDEN JOINT

Tongue-and-groove joint that hides the fixing of the panel to the load-bearing structure, which protects the screw head and increases its durability.



INSULATING PLATE

Material specifications

RIGID POLYURETHANE FOAM (PUR)(Core):

PHYSICAL PROPERTIES

Average density: 38Kgs/ M3 with a structure of at least 90% closed cells, with conform to standards ASTM-D 1622 and ASTM-D - 2856 self-extinguishing: This is how this cellular plastic is considered because it does not require additives fire retardants to meet US building specifications from America.

Thermal conductivity:

K= 0.14 BTU Inch. / (Hr.) (Foot2) (°F) at a temperature of 75° F (24°C) according to the Standard ASTM-C-518

Chemical products:

Excellent resistance to water, seawater, acid vapors, most solvents, hydrocarbons and mineral oils.

Operating temperature:

Minimum: -40°C (Depending on the thickness of the panel and the coating on the plate)

Maximum: +120°C

Mechanical properties

Compression stress: 1.42 Kg. / Cm2 (20 Lbs./Inch3) ASTM-D-1621

TABLES OF USE (daN/m²)

	THICKNESS (mm)	Burden (Kg/ m2)						
		50	75	100	125	150	175	200
	40	3.60	3.15	2.85	2.65	2.50	2.40	2.25
	50	3.90	3.40	3.10	2.85	2.70	2.55	2.45
	75	4.27	3.75	3.38	3.14	2.95	2.86	2.67
	100	6.00	5.40	4.70	4.20	3.85	3.55	2.85

	THICKNESS (mm)	Burden (Kg/ m2)						
		40	75	100	125	150	175	200
	40	4.20	3.65	3.30	3.10	2.90	2.75	2.65
	50	4.50	3.95	3.60	3.30	3.10	2.95	2.85
	75	5.25	4.60	4.20	3.90	3.65	3.75	3.30
	100	6.50	6.00	5.50	4.90	4.50	4.15	3.85

OTHER FEATURES

Resistance to biological agents:

HUURRE panels, thanks to the structure closed of the insulating core, they are immune to attack fungi, molds and other biological agents deteriorating.

Water absorption:

The insulating core of the panel does not absorb water, thus maintaining its thermal performance throughout its entire useful life. Therefore, you can be installed in weather conditions adverse.

Tightness:

The careful tongue-and-groove design of the joints hidden from the panel guarantees an absolute queity against rainwater, determines the sandwich panels with metal faces are considered they were watertight, airtight and steam-tight.

these parameters being relevant only in the joints and fixings depending on the installation relevant only in joints and fixings depending on of the installation.

Sustainability:

Both steel and its metallic coatings and organic are free of SVHC ("Substances extremely worrying"), in accordance with the requirements of the European regulation REACH. The insulating core of the panel is injected by a process that does not release HCFC-type gases.

Prepainted –PP

GENERAL DESCRIPTION

HURRE PANAMÁ® manufacturer products using prepainted steel, specifically designed by Hurre Panamá S.A. to provide a high durability, premier cladding and roofing material for general use.

TYPICAL USES

Roofing and accessories, wall cladding, rain water goods. For material selection advice, please contact Hurre Panamá technical department

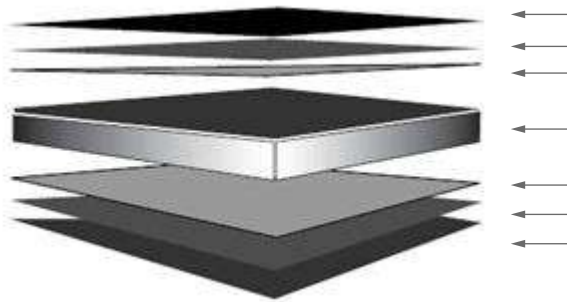
U.S.A STANDARDS

Substrate –ASTM A 792 –G50

Paint Coating –ASTM D 4214

PREFERRED SUBSTRATES

Steel Sheet, 55% Aluminum–Zinc Alloy–Coated
by the HotDip Process



AVAILABLE STEEL SHEET THICKNESS

Gauge –28

Gauge –26

Gauge –24

ATTRIBUTES TESTED DURING MANUFACTURE

Property	Test & Evaluation Method(s)	Results
Adhesion		
Reverse Impact	ASTM D 2794	≥10joules
T-bend	ASTM D 4145	Maximum 6T
Hardness		
Pencil	ASTM D 3363	HB or harder
Specular gloss		
60° meter	ASTM D523	Nominal ±10 units

PRODUCT ATTRIBUTES

Property	Test & Evaluation Method(s)	Results
Flexibility		
T-bend	ASTM D4145	Maximum 10T(no cracking).
Resistance to abrasion		
Scratch	ASTM G171-03	Typically 2000g
Adhesion		
Natural well washed exposure (10 yrs)	ASTM D 3330; D 3359 - 97	No flaking or peeling.
Resistance to humidity		
Cleveland (500 hours)	ASTM D4545	Blister density: ≤ 3 . Blister size: $\leq S2$. No loss of adhesion or corrosion.
Resistance to corrosion		
Salt spray (1000 hours)	ASTM B117	Blister density: ≤ 2 . Blister size: $\leq S3$. Undercut from score: ≤ 2 mm. No loss of adhesion or corrosion.
Kesternich (SO ₂) (50 cycles)	DIN 50018	Edge creep: < 4 mm.
Resistance to colour change		
Natural well washed exposure (10 yrs)	ASTM D2244 (Colour)	ΔE cielab 2000: Light colour: ≤ 4 units; Intermediate colour: ≤ 6 units; Dark colour: ≤ 10 units.
QUV (2000 hours)	ASTM G154 & ASTM D2244 (Colour)	ΔE cielab 2000: Intermediate colour : ≤ 5 units
Resistance to chalking		
Natural well washed exposure (10 yrs)	ASTM D4214	Chalk rating: ≤ 4 .
QUV (2000 hours)	ASTM G154	Chalk rating: ≤ 4
Resistance to Solvents		
Exposure	ASTM D1308 (3.1.1) & ASTM D2244 (Colour); ASTM D714 (Blisters)	No discolouration or blistering.
Resistance to acids		
Exposure	ASTM D1308 (3.1.1) & ASTM D2244 (Colour); ASTM D714 (Blisters)	No discolouration or blistering.
Resistance to alkalis		
Exposure	ASTM D1308 (3.1.1) & ASTM D2244 (Colour); ASTM D714 (Blisters)	No discolouration or blistering.
Resistance to fire		
Exposure	ASTM E108	Ignitability index: 0 rating in scale of 0-20 Spread of Flame index: 0 rating in scale of 0-10 Heat evolved index: 0 rating in scale of 0-10 Smoke evolved index: 0-1 rating in scale of 0-10
Resistance to heat		
Exposure 100°C continuous (500 hrs)	ASTM D2244 (Colour)	Colour change ΔE cielab 2000: ≤ 3 units



www.huurrepanama.com