

POWERED BY  
**QuadCore™**  
TECHNOLOGY

Panel  
HI-QuadCore®  
KS1000 AWP

Architectural Wall Panels



# More, with QuadCore®

**QuadCore® is the new self-formulated insulating core technology, manufactured by HUURRE.**

This innovative core, with its characteristic grey microcells, offers some of the best performance of all closed cell insulation panels systems on the market.



## High level of protection to fire

The QuadCore® core has a higher fire performance, providing a better protection in case of fire.



## High thermal efficiency

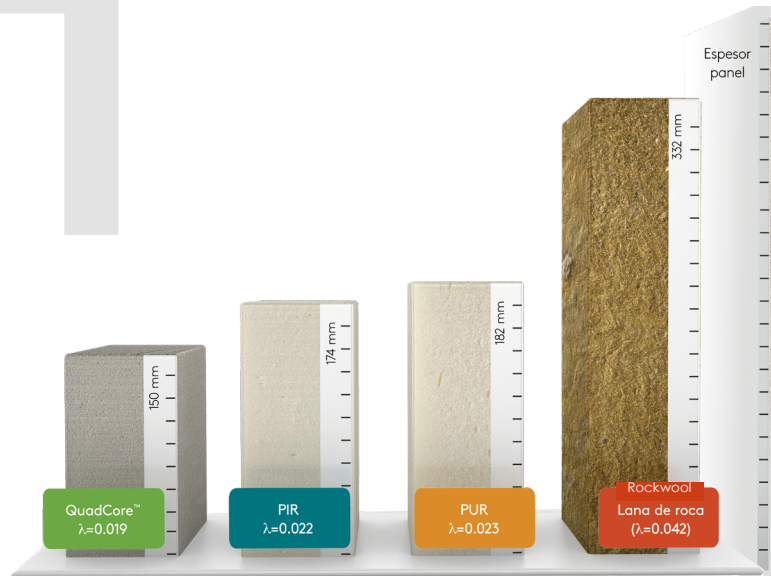
The QuadCore® insulating core has a high thermal performance, with an aged thermal conductivity of just 0.019W/m · K.



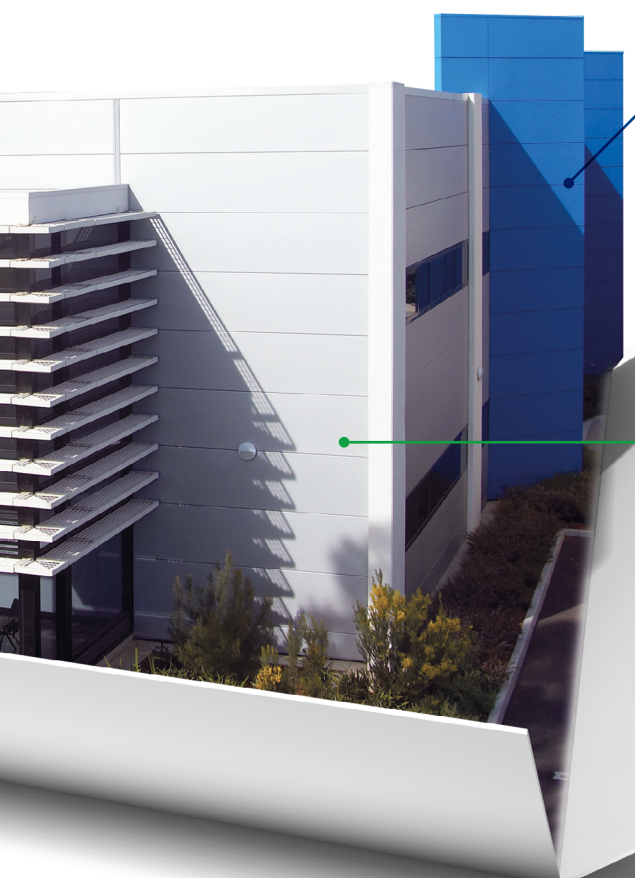


## Thinner, lighter, better.

The higher thermal performance of QuadCore® involves a thinner envelope, providing a larger interior surface, greater construction efficiency and lower environmental impact.



Declared thermal conductivity of Huurre products considering the aged core.  
Huurre Iberica does not manufacture PUR panels.



### High durability

By not absorbing moisture, the functional performance of the QuadCore® core does not diminish over time, offering its high durability.



### High environmental sustainability

The use of Huurre's range of HI-QuadCore® panels can enable reduce operational energy loss and reduces associated transport emissions.

# HI-QuadCore® KS1000 AWP



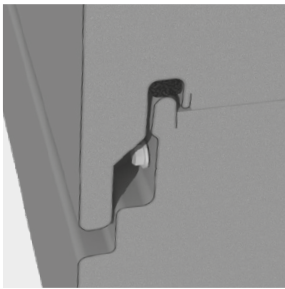
HI-QuadCore® KS1000 AWP is a facade panel with hidden fixation and a QuadCore® core, which provides high thermal insulation, high protection in the event of fire and great durability. Ideal for high-performance architectural facades in industrial, residential, commercial buildings and sports facilities.

## Dimensions, mass and thermal properties

<b>Useful width</b>	1,000 mm						
<b>Manufacturing length</b>	2.0 to 13.5 m						
	13.5 to 18 m (special transport)						
<b>Reaction to fire classification</b>	EUROCLASS B-s1,d0 <sup>3</sup>						
<b>Declared thermal conductivity<sup>1</sup></b>	0.019 W/mK (considering an aged core)						
<b>Insulating core density</b>	40 ± 5 kg/m <sup>3</sup>						
<b>Insulating core thickness (A)</b>	60	80	100	120	140	160	(mm)
<b>Mass<sup>2</sup></b>	12.02	12.82	13.62	14.42	15.22	16.02	(kg/m <sup>2</sup> )
<b>Thermal transmittance<sup>1,2</sup></b>	0.35	0.25	0.20	0.16	0.14	0.12	(W/m <sup>2</sup> K)
<b>Thermal resistance<sup>2</sup></b>	3.27	4.32	5.38	6.43	7.48	8.53	(m <sup>2</sup> K/W)

NOTES: (1) Declared values corresponding to the HI-QuadCore F panel manufactured in Huurre.  
 (2) For 0.5/0.6mm (int/ext) steel sheets. Consult for other options.  
 (3) Determined according to UNE-EN 13501-1:2009 (tested under the name "HI-QuadCore F")





### Hidden joint

Tongued and grooved joint that conceals the fixing of the panel to the supporting structure, protects the screw head and increases its durability.

The tongue and groove of the panel on the outer face incorporates a compressible seal to optimize its tightness.

### Tightness

The joint is certified by external laboratory without the need for additional silicone sealing (under the indicated permeability parameters). Its tightness has been proven by laboratory test (according to EN 14509:2014, EN 12114:2000 and EN 12865:2002 standards).

**Air permeability:** 0.01 m<sup>3</sup>/h · m<sup>2</sup> at 50Pa.  
Values certified by external laboratory according to Standard 12114:2000.

**Water permeability\*:** CLASS A  
(waterproof joints up to pressures greater than 1,200Pa). Best classification according to EN 12865:2002, Standard, for demanding application with intense rain and strong winds.

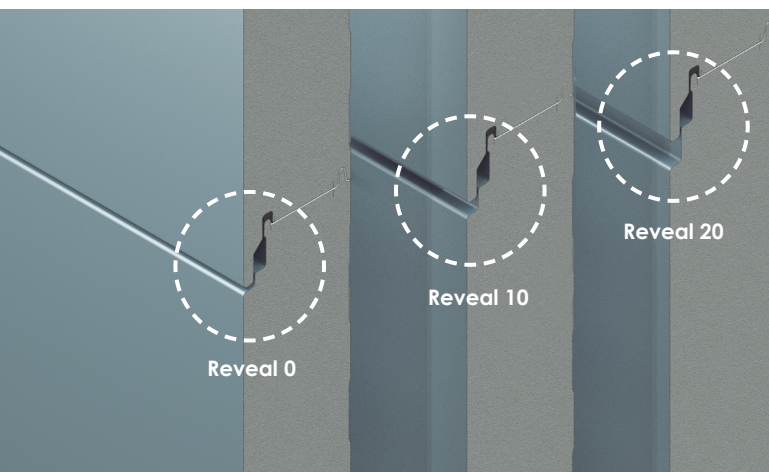
(\* ) Valid values for thicknesses equal to or greater than 80mm with reveal 0.



### Several Reveal options

HI-QuadCore® KS1000 offers different options for the joint reveal to provide a custom architectural look:

- Reveal 0 (3 mm gap)
- Reveal 10 (13 mm gap)
- Reveal 20 (23 mm gap)



### Finishes

Manufacture finishing with three options (flat, plank or micro-profiled), variety of sheet metal coatings to ensure maximum durability depending on the environment and use conditions.

### Sheet metal types

Cold rolled sheet from structural steel coil type S220GD, certified quality, hot galvanized according to standards EN10346 and EN10169.



## Samcity Activity Center

Location: Hoorn, Países Bajos

Year: 2018

Type of building: Leisure

Product: KS1000 AWP QuadCore<sup>®</sup>

Contractor: Samcity

Architect: ME2 Architecten

In Samcity, both older and younger people like to free themselves from tensions. The building hosts many activities such as a trampoline park, a BMX park and skatepark and several Escape Rooms.

The simple and striking design is not only iconic, but also affordable. Given the use of the building, with many young people, it had high project demands for fire safety as well as energy efficiency.





## Maritime terminal BOLUDA

Location: Port of Santander

Year: 2023

Type of building: Maritime logistics

Product: KS1000 AWP QuadCore®

Contractor: Dragados

Engineering: Lesaca

Property: Boluda

Magnificent work in the Port of Santander with a challenging modulation carried out with our HI-QuadCore® KS1000 AWP architectural panel.

The joint of the AWP panel of this work is designed with Reveal 20, that adds elegance and character to the façade, breaking the continuity of the the outer face. The sheet coating is HDX 55m Extreme, with high durability in maritime enviroments, even on the seafront.



# Service and technical support

We are here to help! Contact us to:

Help you with planning assistance and specificacions:



Production selection



Detailed specification of the accessories



Construction details



Mechanical strength calculations and panel failure modes



Technical specification documents



BIM objects



Technical training in installation

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## Products datasheets:

