

AllDeck[®] System



Deck roofing system featuring sandwich panels and a high-performance membrane

POWERED BY
QuadCore[™]
TECHNOLOGY

- ▶ Deck roofing system featuring sandwich panels and a range of compatible membrane options.
- ▶ High thermal performance, with a thermal conductivity (λ) of just 0.019 W/mK.
- ▶ Enhances the interior and exterior appearance of the building with a smooth finish, eliminating visual discontinuities as well as the ribbing typically found on trapezoidal sheet metal or inverted panels.
- ▶ A system offering high fire protection with a Broof (t1) rating, which assesses fire performance in the event of external fire spread.





Description and applications

The AllDeck system is a high-performance flat roof system developed by Huurre. The AllDeck system combines the installation benefits of sandwich panel roofing with innovative QuadCore® insulation technology, whilst also being compatible with a range of waterproofing membranes available on the market.



System components

1. HI-QuadCore 2.0 F cold storage panel

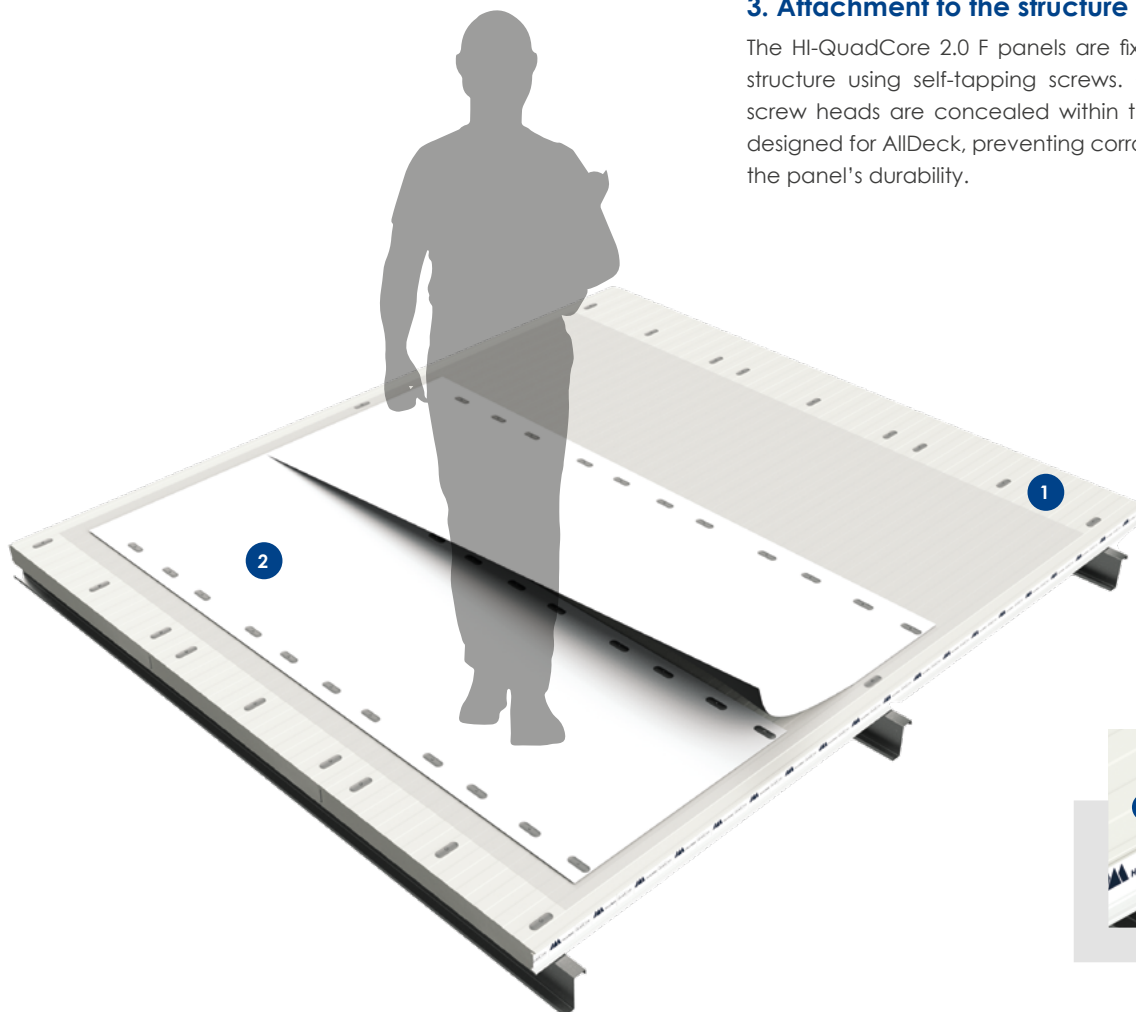
Insulated panel system offering high thermal insulation and excellent fire performance. Its high rigidity, mechanical performance and light weight make it easy to handle and install on site.

2. Waterproof membrane

The AllDeck system is compatible with a range of waterproofing membranes available on the market. Please refer to the list of membranes that are compatible with the system and have a Broof (t1) rating.

3. Attachment to the structure

The HI-QuadCore 2.0 F panels are fixed to the roof sub-structure using self-tapping screws. Once installed, the screw heads are concealed within the washer specially designed for AllDeck, preventing corrosion and increasing the panel's durability.





Technical specifications of the AllDeck system

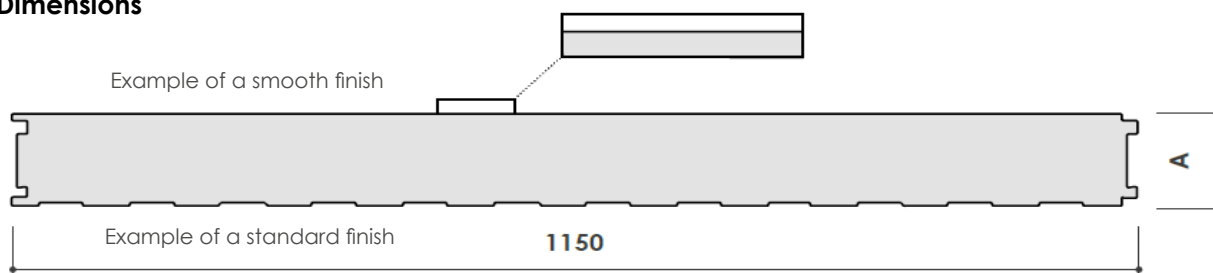
Total thickness (A)	60	80	100	125	150	175	200	230	(mm)
Mass 1	13.19	13.99	14.79	15.79	16.79	17.79	18.79	19.99	(kg/m ²)
Thermal transmittance ⁽¹⁾	0.34	0.24	0.19	0.15	0.13	0.11	0.10	0.08	(W/m ² ·K)
Thermal resistance¹	3.28	4.34	5.39	6.71	8.02	9.34	10.65	12.23	(m ² K/W)

NOTES: (1) For the AllDeck system with an HI-QuadCore 2.0 F panel featuring 0.5/0.5 mm sheets, an FJ joint and a width of 1,150 mm; and assuming a membrane weight of 2.3kg/m².

Technical specifications of the panel

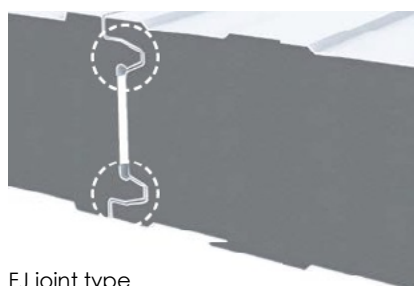
HI-QuadCore 2.0 F roof insulation panel, with metal facings and a QuadCore® core, designed for flat deck roofs and applications requiring a high level of insulation, excellent fire performance, and high rigidity and resistance to repetitive loading stresses. The minimum installation slope for panels on flat roofs is 2%; please also refer to the recommendations of the waterproofing system manufacturer.

Dimensions



Useful width	1,150 mm	
Manufacturing length	Standard	2.0 to 13.5 m
	Special	13.5 to 18 m (special transport)
Declared thermal conductivity	0.019 W/mK (assuming an aged core)	
Finish option (exterior/interior)	Standard or plain	

FJ Finger-joint



FJ joint type



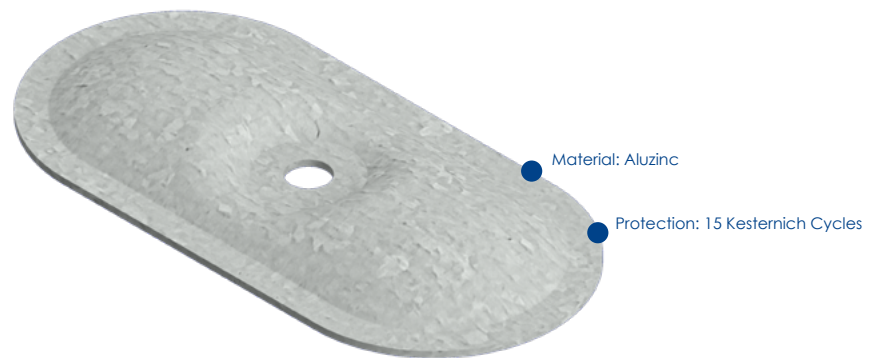
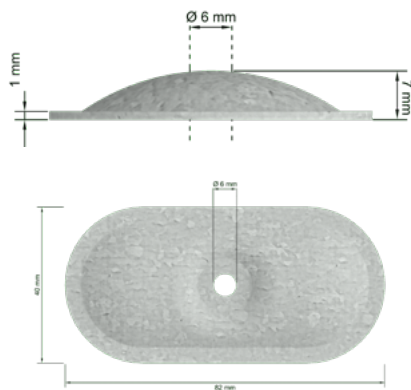
Technical specifications of the AllDeck washer

The system for securing the panel to the structure consists of an AllDeck washer and a screw. The AllDeck washer is supplied with the panel and is specially designed to ensure that the screw head sits flush with the surface and does not protrude, thereby protecting the membrane from potential damage. The type of self-tapping screw should be selected according to the type of substrate and the loads involved.

5051568204000 - FYT Deck PLATE OVAL PL HIGH 82x40 i6

Material	Steel (DX51)	Length	82 mm
Corrosion protection	Z275	Width	40 mm
Steel thickness	1 mm	High	7 mm
Ø Internal diameter	6 mm	Pull-through Resistance (Pullthrough)	5,000 N

AllDeck washer



Self-tapping screw





Technical specifications of the membrane

The AllDeck system is compatible with a wide range of roof waterproofing membranes, including both mechanically fastened and adhered types. All of them have been selected for their durability and high performance. Please contact the technical department for a full list of compatible membranes.



Fire performance of the AllDeck system

Reaction to fire classification of the panel

EUROCLASS B-s1,d0

B: Very limited contribution to the fire and does not lead to flashover¹

s1: Reduced or no smoke production

d0: No flaming droplets / particles

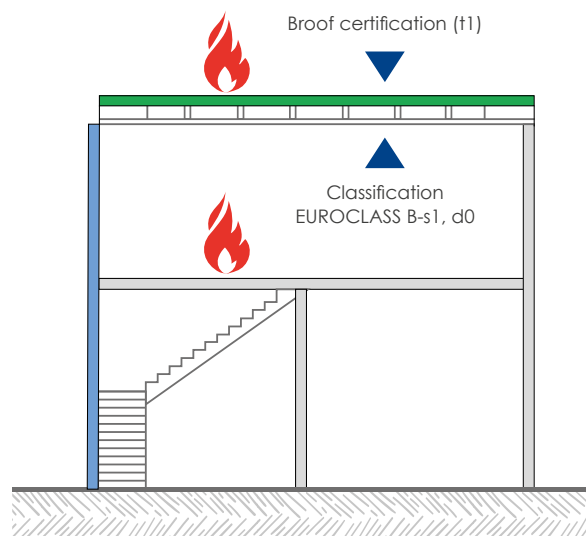
⁽¹⁾ higher ranking possible for a material organic in nature.

Reaction to fire determined in accordance with standard UNE-EN 13501-1:2019.

External fire classification

System with Broof (t1) classification:

Assessment of external fire performance in the event of an external fire in accordance with classification standard EN 13501-5:2016 and test method CEN/TS 1187:2012, method 1, resulting in a Broof (t1) classification.



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and a high-performance membrane



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Huurre Ibérica S.A.U.

Carrer Serinyà 43
Polígon Industrial el Trust
17244 Cassà de la Selva
Girona (Spain)

☎ (+34) 972 463 085

📠 (+34) 972 463 208

✉ huurre@huurreiberica.com



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