



1. Product Appearance

EQUITONE [inspira] is a high-density fibre cement panel with a digital printed surface covered with a UV finishing.

The surface finish is smooth, hard, matt and resistant to UV radiation. The UV finishing provides a hard, dirt resistant surface finish with a high abrasion resistance and a permanent and durable anti-graffiti surface.

The panels are calibrated to ensure a consistent thickness. The rear receives a UV coating.

2. Colour

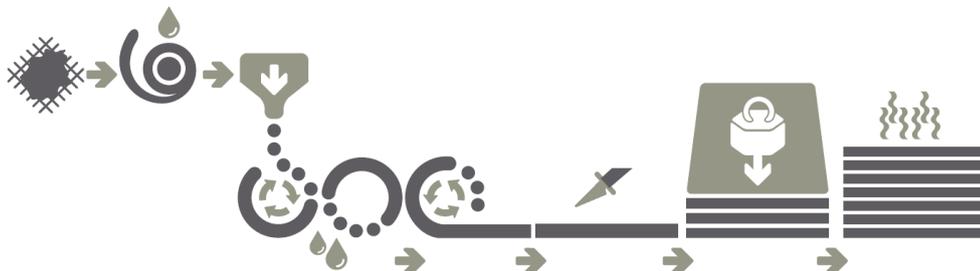
EQUITONE [inspira] is available in a wide range of designs inspired by nature as well as wood, concrete, stone and rust graphics and personalised images.

3. Product Composition

EQUITONE [inspira] panels consist of cement, water, mineral fillers, cellulose and synthetic organic reinforcing fibres and have a coloured digital printed surface covered with UV-cured functional topcoats.

4. Production Method

EQUITONE [inspira] is a highly compressed, air cured fibre cement material manufactured in Poland (Europe).



EQUITONE [inspira] panels are manufactured through the Hatschek process where the base materials which are mainly cement, fibres, cellulose, water and optional pigments are first mixed together to form a slurry. This slurry is then pumped into several vats with rotating cylindrical sieves on the surface of which a film of fibre cement is formed through a sieving mechanism as they rotate, which is then transferred to a felt belt traveling overhead. This thin layer of fibre cement is then dewatered before being transferred via the felt belt to a forming drum on which several layers of fibre cement are collected and squeezed together until the required thickness is achieved. Once this occurs, this fresh sheet of fibre cement is cut by an automatic cutting knife. A conveyor then transports the sheet to where all the sheets are stacked with an interleaving steel plate. The stacked sheets are then highly compressed, resulting in a high density material.

This is followed by a curing process where the panels harden under ambient temperature and without vapour pressure.

The panels are calibrated for a consistent thickness.

Subsequently EQUITONE [inspira] receives a digital print, with UV hardened topcoat offering a graffiti resistant surface on the front face. The back side is finished with a UV coating to balance the humidity of the panel.

5. Dimensions and Tolerances

EQUITONE [inspira] is available in a standard thickness of 8 mm. The panels are available in trimmed (maximum usable size) formats.

Dimensions	
Nominal Thickness	8 mm
Width	
Trimmed	1250 mm
Length	
Trimmed	2500 mm / 3100 mm

Tolerances¹ (for cut and trimmed panels)

Thickness	± 0.2 mm
Width	± 1 mm
Length	± 1 mm
Squareness	± 1.0 mm/m

Weight per m² (air dry)16.8 kg/m²**Weight per panel (without pallet)**

2500 x 1250 mm (trimmed)	52.5 kg
3100 x 1250 mm (trimmed)	65.1 kg

Packaging

Number of panels on pallet	20
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Usable surface per pallet

2500 x 1250 mm (trimmed)	62.5 m ²
3100 x 1250 mm (trimmed)	77.5 m ²

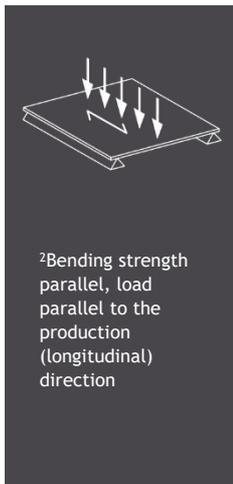
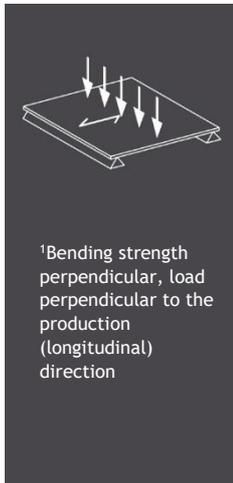
Gray scale discoloration according to PN-EN 201056-A2:1996

Gray scale discoloration	4-5
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¹ Factory tolerances for trimmed and untrimmed panels outperform the requirements of the EN12467 Level I and II dimensional tolerances, respectively.

6. Material Properties

EQUITONE [inspira] cladding panels conform to the requirements of EN 12467:2012+A1:2018 “Fibre cement flat sheets - Product specification and test methods“. The results below are presented as defined by the standard.



Classification		
Type of product	EN12467	NT
Durability classification	EN12467	Category A
Strength classification	EN12467	Class 4
Dimensional tolerances for trimmed panels	EN12467	Level I
Dimensional tolerances for untrimmed panels	EN12467	Level II

Physical requirements and characteristics				
Mean density	dry	EN12467	1850	kg/m ³
Moisture movement	30-90 %	EN12467	0.1	%
Characteristic bending strength perp. ¹	ambient	EN12467	24.0	MPa
Characteristic bending strength par. ²	ambient	EN12467	18.5	MPa
Partial safety factor γ_m^3	ambient	-	2.0	-
Mean module of elasticity	ambient	EN12467	12,000	MPa
Water impermeability test		EN12467	No drops/Pass	

³ Recommendation for the safety concept according to the Eurocode standard if no national regulations exist.

Durability requirements		
Freeze-thaw test for category A panel	EN12467	Pass
Heat-rain tests for category A panel	EN12467	Pass
Warm water test	EN12467	Pass
Soak-dry test	EN12467	Pass

Fire and safety		
Reaction to fire	EN13501	A2-s1,d0

Other characteristics				
Thermal movement	α	-	< 0.01	mm/mK
Thermal conductivity	λ	ASTM C518	0.60	W/mK
Poisson's ratio	ν	-	0.2	-

Note to the units: 1 K (degree Kelvin) = 1 °C, 1 MPa (Mega Pascal) = 1 N/mm², M.-% = mass percentage

Note: EQUITONE [inspira] panels also comply with the requirements of ISO8336:2017 “Fibre-cement flat sheets - Product specification and test methods“

7. Advantages

Providing the application guidelines are followed, EQUITONE [inspira] fibre-cement panels have the following superior mix of properties compared to other materials:

- Recyclable according to Environmental Product Declaration (EPD)
- Expected average reference service life of 50 years (based on EPD)
- Fire safe (no fire ignition, no spread of fire)
- Improved sound insulation of the façade
- UV-resistant
- Resistant to extreme temperatures and frost
- Weather resistant
- Resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- Resistant to many chemicals
- Strong, rigid panels
- Permanent and durable graffiti protection.

Working with the material:

- The material is easy to drill, cut and install with the proper tools

8. Applications

EQUITONE [inspira] can be used in several ventilated applications, including, but not limited to:

- Ventilated facade or rainscreen cladding
- Window and door reveal
- Exterior ceiling: decorative cladding of ceiling
- Soffits, eaves and verge boards
- Interior wall and ceiling lining (subject to local regulations)

For restrictions on the above-mentioned applications read the specific application guidelines.

The panels may be face or concealed fixed with Etex proprietary or recommended fixing solutions.

EQUITONE [inspira] can not be used in the following applications, but not limited to: Internal applications exposed to direct moisture e.g. wet areas, situations with direct contact with standing snow or ice, applications where exposed to long term temperatures exceeding 80°C.

9. Health and Safety Aspects

During the mechanical machining of panels, dust can be released which can irritate the airways and eyes. Depending on the working conditions, adequate machinery with dust extraction and/or ventilation should be foreseen. The inhalation of fine (respirable size) quartz containing dust, particularly when in high concentrations or over prolonged periods of time can lead to lung disease and an increased risk of lung cancer. For more information, please visit www.equitone.com for the most recent Safety Information Sheet.

10. Maintenance and Cleaning

Refer to the relevant "EQUITONE Cleaning Information" Guide.

11. Certification



The manufacturer can - within the framework of the European Regulation N° 305/2011 (CPR) - present the Declaration of Performance (DOP) of the product such confirming that the product has a CE marking. The CE marking guarantees that the product is in accordance with the basic requirements determined by the harmonized European standard and applicable to the product. The Declaration of Performance is presented in accordance with the CPR and can be found at www.equitone.com.

EQUITONE [inspira] is certified with an Environmental Product Declaration according to ISO 14025 or EN 15804. The life cycle assessment includes raw material and energy production, the actual manufacturing phase, and the use phase of the fibre cement panels. More information available in the Material Sustainability Datasheet.

12. Information



Please visit www.equitone.com for contact details and further information and technical documents.

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