



1. Product Appearance

EQUITONE [inspires]isahigh-densityfibercement panel with a digital printed surface covered with a UV finishing.

The surface finish is smooth, hard, matte, 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. Color

EQUITONE [inspires] is available in a wide range of designs inspired by nature including wood, concrete, stone, and rust graphics. The digital print technology also allows for custom designs and images to be printed on the panel.

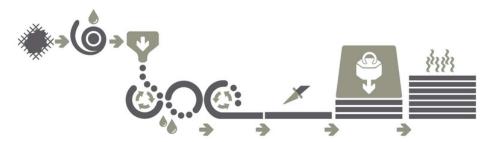
3. Product Composition

EQUITONE [inspires] panelsconsist ofcement, water, mineral fillers, cellulose, and synthetic organic reinforcing fibers. This creates an ASTM E84 Class A material with 0 flame spread and 0 smoke development. The finish consists of a digitally printed surface covered with a UV-cured topcoat.



4. Production Method

EQUITONE [inspires]isahighlycompressed, air-cured fiber cement material manufactured in Poland (Europe).



EQUITONE [inspires] panels are manufactured through the Hatschek process wherethe base materials which are mainly cement, fibers, cellulose, water, and optional pigments are first mixedtogether to form a slurry. This slurry is then pumped into several vats with rotating cylindrical sieves on thesurface of which a film of fiber cement is formed through a sieving mechanism as they rotate, which is thentransferred to a felt belt traveling overhead. This thin layer of fiber cement is then dewatered before beingtransferred via the felt belt to a forming drum on which several layers of fiber cement are collected and squeezed together until the required thickness is achieved. Once this occurs, this fresh sheet of fiber cementiscut 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 vapor pressure.

The panels are calibrated for a consistent thickness.

Subsequently, EQUITONE [inspires] 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 (Imperial)

EQUITONE [inspires]is available inastandardthicknessof5/16in.Thepanels are available in trimmed (maximum usable size) formats.

Dimensions	
Nominal Thickness	5/16 in
Width	
Trimmed	49 in
Length	
Trimmed	98 in / 122 in
Tolerances1 (for cut and trimmed panels)	
Thickness	0.008 in
Width	0.039 in
Length	0.039 in
Squareness	0.039 in
Weight per m² (air dry)	
	3.44 psf
Weight per panel (without pallet)	
2500 x 1250 mm (trimmed) 3100	116 lbs
x 1250 mm (trimmed)	144 lbs
Packaging	
Number of panels on a pallet	20
Usable surface per pallet	
2500 x 1250 mm (trimmed)	672.7 ft ²
3100 x 1250 mm (trimmed)	834.2 ft ²
2100 × 1230 Hill (tillillied)	UJ4.2 IL
Gray scale discoloration according to PN-EN 201056-A2:1996	
Gray scale discoloration	4-5

¹ Factory tolerances for trimmed outperform the requirements of the EN12467 Level I and II dimensional tolerances, respectively; as well as all criteria set forth on ASTM C1185.

² Color tolerance are only to be measured on dry surfaces. The color deviation may differ depending on the angle of light incidence and the angle of view.

5.1 Dimensions and Tolerances (Metric)

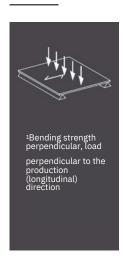
EQUITONE [inspires]is available inastandardthicknessof8mm.Thepanels are available in trimmed (maximum usable size) formats.

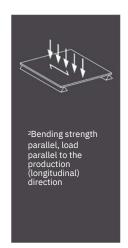
Dimensions	
Nominal Thickness	8 mm
Width	
Trimmed	1250 mm
Tillined	1230 111111
Length	
Trimmed	2500 mm / 3100 mm
Tolerances1 (for cut and trimmed panels)	
Thickness	± 0.2 mm
Width	± 1 mm
Length	± 1 mm
Squareness	± 1.0 mm/m
Weight per m² (air dry)	
	16.8 kg/m²
Weight per panel (without pallet)	
2500 x 1250 mm (trimmed) 3100	52.5 kg
x 1250 mm (trimmed)	65.1 kg
Packaging	
Number of panels on pallet	20
Usable surface per pallet	
2500 x 1250 mm	62.5 m²
(trimmed) 3100 x 1250	77.5 m²
mm (trimmed)	
Gray scale discoloration according to PN-EN 201056-A2:1996	
Gray scale discoloration	4-5

¹ Factory tolerances for trimmed and untrimmed panels outperform the requirements of the EN12467 Level I and II dimensional tolerances, respectively.

6. Material Properties (EN)

EQUITONE [inspires] claddingpanels conform to the requirements of EN 12467:2012+A2:2018 "Fiber cement flat sheets – Product specification and test methods." The results below are presented as defined by the standard.





Classification					
Type of product		EN 12467	′ N7		
Durability classification		EN 12467	EN 12467 Category		
Strength classification		EN 12467	67 Class 4		
Dimensional tolerances for trimmed panels		EN 12467	Level I		
Dimensional tolerances for untrimmed panels		EN 12467	' Leve	Level II	
, i					
Mean density Characteristics dead load gk (8 mm	dry	EN 12467	1750 0.17 k	κg/m³ N/m²	
Characteristic dead load gk (12 mm				,	
Moisture movement	-	-	0.26 k	N/ m²	
Characteristic bending strength perp	o.1 ambient%	EN 12467	0.1	%	
Characteristic bending strength par.		EN 12467	24.0	MPa	
		EN 12467	18.5	MPa	
Partial safety factor ym³	ambient	-	2.0	-	
Mean module of elasticity	ambient	EN 12647	12,000	MPa	
Water impermeability	-	EN 12647 No Drops /Pass			
³ Recommendation for the safety concept according to the Eurocode standard if no national regulation exists.					
Durability requirements					
Freeze-thaw test for Category A panel	el	EN 12467	Bass		
warm water test Soak-dry test		12467 ED 4	Pass		
		EN 12467			
Fire Classification					
Flame spread rating			_	_	
Smoke development classification		EN 4.05.04	10 1		
		EN 13501	A2-s1,d	0	
		ULC S102	0		
		ULC S102	0		
Other characteristics					
Thermal movement		-	0.01 m	m/mK	

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

Note: EQUITONE [inspires] panels also comply with the requirements of ISO8336:2017 "Fiber-cement flat sheets – Product specification and test methods."

Thermal conductivity

Poisson's ratio

Moisture content at 20°C, 65 % humidity

< 10% M. - %

ASTM C518 0.407 W/mK

0.2

6.1 Equivalent Material Properties (ASTM)

Cl assi ficati on				
Minimum strength classification		ASTMC1186	Grade III	
Dimensional tolerances for trimmed panels		ASTMC1186	Pass	
Physical requirements and characteristics	-	_	-	-
Mean density	dry	ASTMC1185	≥106	lb /ft³
Moisture movement	30-90 %	ASTMC1185	≤0.12%	%
Characteristic flexural strength	dry	ASTMC1185	≥2320	psi
Characteristic flexural strength	wet	ASTMC1185	≥2160	psi
Water tightness		ASTMC1186	Pass	
Moisture content		ASTMC1185	≤12%	%
Durability requirements				
Frost resistance (freeze/thaw)		ASTMC1186	Pas	
Warm water resistance test		ASTMC1186	S	
Mean water absorption		ASTMC1185	Pas	%
			S	
Fire and safety			≤8	
Material burning characteristics		ASTME84	Class A	
Flame spread index			0	
Smoke development index			0	
Other characteristics				
Thermal movement	α	-	5.5e -6	in/in°F
Thermal conductivity	λ	ASTMC518	≤ 0.25	BTU/h ft°F

Notes:

1. EQUITONE [inspires] cladding panels meet the minimum requirements of the International Building Code (IBC).

7. Advantages

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

Reusable according to Environmental Product Declaration (EPD)
 Expected average reference service life of 50 years (based on EPD)
 Improved sound dampening 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

Working with the material:

☐ The material is easyto drill, cut, and install with the proper tools

8. Applications

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

☐ Ventilated facade or rainscreen cladding

Permanent and durable graffiti protection.

- ☐ 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 [inspires] cannot 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, and applications where exposed to long-term temperatures exceeding 80°C/176°F.

9. Health and Safety Aspects

Duringthe mechanicalmachining ofpanels, dust canbe 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

Refertotherelevant"EQUITONECleaningInformation"Guide.

11. Certification



EQUITONE [inspires] 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 fiber cement panels. More information is available in the Material Sustainability Datasheet.

12. Information



Pleasevisitwww.equitone.com for contact details, further information, and technical documents.

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