

1. Product Appearance

EQUITONE [pictura] is a high-density fibre cement panel with a through coloured core, and a coloured double layer acrylic coating.

The surface finish is matt with a UV hardened PU topcoat (front side), providing a hard, dirt resistant surface finish with a high abrasion resistance and a permanent and durable graffiti protection.

Irregularities and traces of the manufacturing process are part of the natural characteristics of the material. The rear receives a transparent back-sealing coating.

2. Colour

EQUITONE [pictura] is available in a wide range of standard and special colours, manufactured based on various different through coloured core/base boards as shown on the colour chart below.

The allowable tolerance of shade between the EQUITONE [pictura] materials is minimal and is measured according to the CIELAB colour model. The allowable dry mean averages of three readings are ΔL^* (brightness) of ± 1.0 , Δa^* (+red/-green) of ± 0.75 and Δb^* (+yellow/-blue) of ± 0.75 compared to the production benchmark sample and measured with the same device.

Available colours



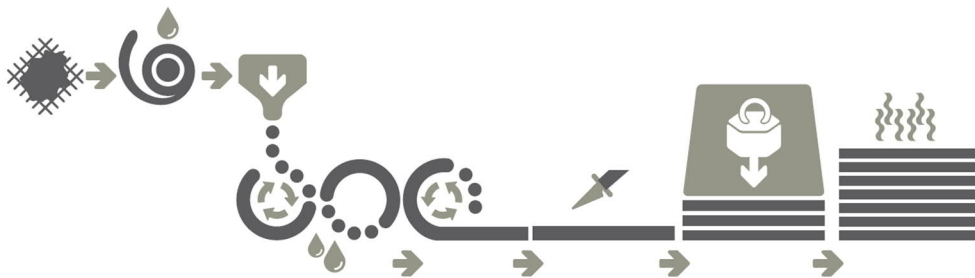
Note: It is not possible to realistically show available colours in literature, therefore the final choice of colours should be made with samples. Please order your samples on the website www.equitone.com

3. Product Composition

EQUITONE [pictura] panels consist of cement, water, mineral fillers, cellulose fibres, synthetic reinforcing fibres, inorganic colour pigments (depending on the colour) and an acrylic coating and a UV-cured functional top layer.

4. Production Method

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



EQUITONE [pictura] 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.

Subsequently EQUITONE [pictura] receives an industrially applied multiple layer acrylic coating on the front face, and a physically equivalent sealing coating on the rear face. Finally a UV hardened PU top-coat is applied to the front side.

In case of factory trimmed panels the edges are trimmed and additionally sealed with Luko edge sealer.

5. Dimensions and Tolerances

EQUITONE [pictura] is available in a standard thickness of 8 mm and also in 12 mm thicknesses for specific applications or fixings. The panels are available in either untrimmed (production dimension) or trimmed (maximum usable size) formats.



The panel must not be installed with untrimmed edges. Approximately 15 mm needs to be trimmed from each of the untrimmed (raw) edges.

Dimensions		
Nominal Thickness	8 mm	12 mm
Width		
Trimmed	1250 mm	
Untrimmed	1280 mm	
Length		
Trimmed	2500 mm / 3100 mm	
Untrimmed	2530 mm / 3130 mm	
Tolerances ¹ (for cut and trimmed panels)		
Thickness	± 0.6 mm	± 0.9 mm
Width	± 1 mm	
Length	± 1 mm	
Squareness	± 1.0 mm/m	
Tolerances ¹ (for untrimmed panels)		
Thickness	± 0.6 mm	± 0.9 mm
Width	± 6 mm	
Length	± 8 mm	
Squareness	± 1.0 mm/m	
Weight per m ² (air dry)		
	15.4 kg/m ²	22.8 kg/m ²
Weight per panel (without pallet)		
2500 x 1250 mm (trimmed)	48.1 kg	71.3 kg
3100 x 1250 mm (trimmed)	59.7 kg	88.4 kg
2530 x 1280 mm (untrimmed)	49.9 kg	73.8 kg
3130 x 1280 mm (untrimmed)	61.7 kg	91.4 kg

Packaging

Number of panels on pallet	30	20
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Usable surface per pallet

2500 x 1250 mm (trimmed)	93.75 m ²	62.5 m ²
3100 x 1250 mm (trimmed)	116.25 m ²	77.5 m ²

Colour tolerance (CIELAB) ²

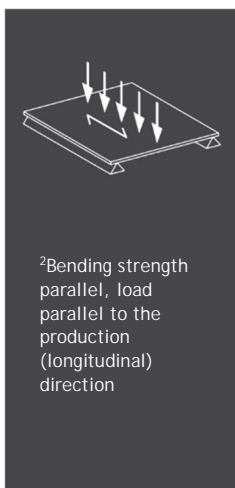
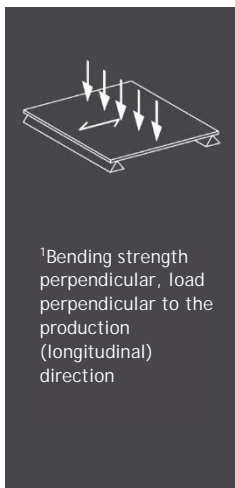
ΔL^* , brightness	± 1.0
Δa^* , + red/ - green	± 0.75
Δb^* , + yellow/ - blue	± 0.75

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

² Colour tolerance are only to be measured on dry surfaces.

6. Material Properties

EQUITONE [pictura] 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

Bending strength				
Mean modulus of rupture perpendicular ¹	ambient	EN12467	24.5	MPa
Mean modulus of rupture parallel ²	ambient	EN12467	19.5	MPa
Modulus of rupture ³	ambient	EN12467	22.0	MPa
Modulus of rupture ³	wet	EN12467	≥ 18	MPa
Characteristic modulus of rupture ³	ambient	EN12467	≥ 21.2	MPa

³ Average of perpendicular and parallel values (Mean of values in both directions)

Note: The characteristic values have been determined according to EN 17468-1:2022, chapter 9.1.2 as the 5 % quantile with 75 % probability.

Other physical requirements and characteristics				
Mean density	dry	EN12467	1750	kg/m ³
Moisture movement	30-90 %	EN12467	0.1	%
Mean module of elasticity	ambient	EN12467	12,000	MPa
Water impermeability test		EN12467	No drops/Pass	
Characteristic dead load (8mm)		-	0.17	kN/m ²
Characteristic dead load (12mm)		-	0.26	kN/m ²

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	0.407	W/mK
Moisture content at 20°C, 65 % humidity		-	<6	M.-%
Brinell surface hardness (HBWmean)		ISO6506-1	75	N/mm ²
Poisson's ratio	ν	-	0.2	-
Total volatile organic compounds (TVOC)			< 0.5	mg/m ³
Individual VOC		CDPH Method	< limit	
Formaldehyde			≤ 0.009	mg/m ³

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

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

Performance to AS/NZS 2908.2(**)

Classification		
Dimensional and geometrical tolerances	AS/NZS 2908.2	Compliant
Durability Classification	AS/NZS 2908.2	Type A
Bending Strength Classification	AS/NZS 2908.2	Category 5
Water Permeability	AS/NZS 2908.2	Compliant
Frost Resistance	AS/NZS 2908.2	Compliant
Warm-Water	AS/NZS 2908.2	Compliant
Heat-Rain	AS/NZS 2908.2	Compliant
Soak-Dry	AS/NZS 2908.2	Compliant

(**) Based on an independent assessment and ISO8336 independent testing

The EQUITONE [pictura] surface has the following properties:

- Oesterle scratch resistance 2.5 N
- Mohs hardness 4
- Pencil hardness 4H
- Indentation test 6 N according to DIN 53153, EN ISO 2815

The UV-hardened surface coating is smooth and easy to clean. It offers high protection against normal and spray paints. The anti graffiti coating satisfies the placement test requirements and those of Test Cycle 2 of the quality control association Gütegemeinschaft Anti-Graffiti e.V. for protective anti-graffiti surface systems (ILF test report 4-013/2006 of the Institut für Lacke und Farben e.V.). Graffiti can be removed with the usual graffiti cleaning agents available in the trade.

7. Fire performance

Australia

EQUITONE facade materials are fibre cement sheeting, and as such are deemed non-combustible in accordance with the following clauses of the NCC, and may be used wherever a non-combustible material is required.

- C2D10(6)(d) of the NCC 2022 Volume 1
- H3D2(1)(d) of the NCC 2022 Volume 2
- C1.9e(iv) of the NCC 2019 Volume 1 (Amendment 1)
- 3.7.1.1(d) of the NCC 2019 Volume 2 (Amendment 1)

EQUITONE fibre cement façade materials are classified as a 'Group 1' material in compliance with AS5637.1 and Specification C2D11 - Fire hazard properties, of the NCC 2022 Volume 1.

New Zealand

EQUITONE façade materials are classified as Type 'A' cladding materials and fully meet the fire properties requirements of external wall cladding materials as outlined in the Verification Method C/VM2 of the NZBC, with Peak Heat Release Rate (kW/m²) of less than (<) 100 and Total Heat Released (MJ/m²) of less than (<) 25 as determined in accordance with ISO 5660.1 at an irradiance of 50 kW/ m² for a duration of 15 minutes.

EQUITONE façade materials are classified as a 'Group 1-S' fire resistant material in accordance with the Verification Method C/VM2 (Appendix 'A') and ISO5660, and as such are safe and suitable for internal lining and ceiling applications.

8. Advantages

Providing the application guidelines are followed, EQUITONE [pictura] 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
- Hail impact tested
- Permanent and durable graffiti protection.

Working with the material:

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

9. Applications

EQUITONE [pictura] 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)
- Roof applications or inclined facades with panels facing up

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 [pictura] 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.

10. 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.

11. Maintenance and Cleaning

Refer to the relevant "EQUITONE Cleaning and Maintenance Information" Guide.

12. Certification



EQUITONE façade materials and systems are CodeMark certified in Australia and New Zealand. For more details, please refer to the CodeMark certificates available at www.equitone.com.

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.

The manufacturing facility holds the latest versions of the following ISO certificates

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- ISO 45001 Occupational Health and Safety
- ISO 50001 Energy Management System

EQUITONE [pictura] 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.

EQUITONE [pictura] is Cradle to Cradle Certified at the Bronze level.

13. Information



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

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