

EQUITONE [natura]

Material Information Sheet

1. Product Appearance

EQUITONE [natura] is a through coloured base board, with semi-transparent coloured finish which results in the structure of fibre cement material shining through. The finished panel is both weatherproof and UV-stable. Irregularities, differences in shade and traces of the manufacturing process are to be expected. The rear receives a transparent back-sealing coating.

2. Product Composition

EQUITONE [natura] sheets consist of the following:

- Portland cement
- Minerals fillers
- Cellulose fibres
- Polyethylene fibre fillers
- Polyvinyl alcohol fibres

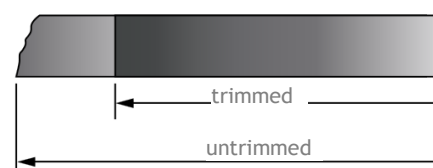
3. Production Method

EQUITONE [natura] sheets are manufactured on a Hatschek machine and are double compressed and air-dried. EQUITONE [natura] is finished with two semi-transparent water-based acryl dispersions on the panel face (front) and a polyethylene wax on the back (rear).

4. Dimensions

EQUITONE [natura] is available in 8mm and 12mm thicknesses. The panels are available in either untrimmed or trimmed formats.

The panels that come off the production line have untrimmed (raw) edges. These panels are available for distributors with the proper equipment to allow them to cut and trim the panel for any project.



The factory also provides a cutting service for customers who do not have the necessary cutting facilities. Approximately 15mm needs to be trimmed from the untrimmed (raw) panel to ensure correct squareness.

Dimensions:

Not rectified untrimmed	2530mm x1280mm	3130mm x 1280mm
Rectified trimmed	2500mm x 1250mm	3100mm x 1250mm



5. Colour

The allowable tolerance of shade between the EQUITONE [natura] materials is measured according to a simplified CIELAB colour model and is minimal and this table gives the Mean Average of three readings.

EQUITONE [natura]	
Δ L Brightness	± 2.0
Δ a +red - green	± 2.0
Δ b +yellow - blue	± 2.0

6. Technical Properties

EQUITONE [natura] cladding panels conform to the requirements of EN 12467:2012-12 “Fibre-cement flat sheets - Product specification and test methods“. The results below are presented as defined by the standard.

Technical properties

Minimum Density	Dry	EN 12467	1650	kg/m ³
Characteristic bending strength parallel	ambient	EN 12467	24.0	N/mm ²
Characteristic bending strength perpendicular	ambient	EN 12467	18.5	N/mm ²
Mean module of elasticity	ambient	EN 12467	12,000	N/mm ²
Hygric movement	30-95%	-	1.0	mm/m
Water absorption	0-100%	-	< 20	%
Moisture content	air-dried	EN 12467	< 8	%

Classification

Durability classification	EN 12467	Category A
Strength classification	EN 12467	Class 4
Reaction to fire	EN 13501-1	A2-s1, d0

Extra tests

Water impermeability test	EN 12467	Pass
Warm water test	EN 12467	Pass
Soak-dry test	EN 12467	Pass
Freeze-thaw test for category A panel	EN 12467	Pass
Heat-rain tests for category A panel	EN 12467	Pass
Dimensional tolerances for Level 1 Panel	EN 12467	Pass
Thermal movement	-	0.01 mm/mK
Thermal conductivity	-	0.6 W/mK

Panel Weight (air-dried)

Panel	Weight	2530mm x 1280mm	3130 mm x 1280 mm
8mm	15.4 kg/m ²	49.9 kg/panel	61.7 kg/panel
12mm	22.8 kg/m ²	73.8 kg/panel	91.4 kg/panel

Tolerances

Thickness	8mm	± 0.6mm
	12mm	± 0.9mm
	Untrimmed	Trimmed
	± 12mm	± 1mm
Length	± 12mm	± 1mm
Width	± 6mm	± 1mm
Squareness	± 2.5mm/m	1.0mm/m

7. Advantages

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

- fire safe (no fire ignition, no spread of fire)
- sound insulating
- resistant to extreme temperatures and frost
- water resistant (if in compliance with application guideline)
- resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- resistant to many chemicals
- environmentally friendly, no harmful gas emissions
- natural appearance due to transparent coating
- strong, rigid panels

8. Applications

EQUITONE [natura] can be used in the following applications:

- Façade: Rear ventilated façade cladding and detailing to window and doors
- Exterior ceiling: decorative cladding of ceiling
- Weatherboarding
- Eaves and verge boards
- Interior wall lining

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. For more information, please check the Safety Data Sheet (based on 1907/2006/EC, article 31). The reinforcement is achieved using synthetic, organic fibres of polyvinyl alcohol. These fibres are used in a similar form in the clothing industry for covering fabrics, for fleece materials and for medical fibres. A very important feature is that they are physiologically not problematic.

EQUITONE [] is certified with an Environmental Product Declaration according to ISO 14025 (available from local support).

The life cycle assessment includes raw material and energy production, the actual manufacturing phase, and the use phase of the fibre cement panels.

10. Maintenance and Cleaning

For minor soiling, washing with a mild household detergent or soft soap solution followed by rinsing with clear water.



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.infodop.com. The products are delivered with the KOMO-certificate. The manufacturer is also ISO certified.



12. Additional Information

Information on the different applications can be found in the Etex Façade application guidelines. They can be found on the website or can be obtained from local support. Information about external suppliers can also be downloaded from the local websites.

Disclaimer

The information in this Guidance Note is correct at time of issuing. However, due to our committed program of continuous product and system development we reserve the right to amend or alter the information contained therein without prior notice. Please contact your local EQUITONE Sales Organisation to ensure you have the most current version.

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