

1. Product Appearance

EQUITONE [materia] is a through-coloured natural fibre cement panel without coating or hydrophobation. The mechanical treated surface results in a rough texture. The finished panel is weatherproof. Irregularities, differences in the colour tone and traces of the manufacturing process are characteristics of the surface of the board and are to be expected. The rear receives no back coating.

2. Product Composition

EQUITONE [materia] sheets consist of the following:

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

3. Production Method

EQUITONE [materia] sheets are manufactured on a Hatschek machine and are compressed and air-dried. The surface of the EQUITONE [materia] receives a mechanical surface treatment giving the rough texture.

4. Dimensions

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



untrimmed

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

As EQUITONE [materia] is an uncoated panel the ΔL is fluctuating more than Δa and Δb and is within the following parameters.

EQUITONE [materia] ΔL Brightness (dry)	± 2.0
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The panel will appear different when wet or dry. The weathering of EQUITONE [materia] is no different than that expected from uncoated cementitious materials. As with all non-coated materials, EQUITONE [materia] will lighten and weather over time.

6. Technical Properties

EQUITONE [materia] 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	EN12467	1650	kg/m ³
Characteristic bending strength parallel	ambient	EN12467	24.0	N/mm ²
Characteristic bending strength perpendicular	ambient	EN12467	18.5	N/mm ²
Mean module of elasticity	ambient	EN12467	12,000	N/mm ²
Hygric movement	30-95% rh	-	1.18	m/mm ²
Water absorption	0-100	-	< 20	%
Moisture content	Air dried	EN12467	< 8	%

Classification

Durability classification	EN12467	Category A
Strength classification	EN12467	Class 3
Reaction to fire	EN12467	A2-s1,d0

Extra tests

Water impermeability test	EN12467	Pass
Warm water test	EN12467	Pass
Soak-dry test	EN12467	Pass
Freeze-thaw test	EN12467	Pass
Heat-rain tests for category	EN12467	Pass
Dimensional tolerances	EN12467	Level1 trimmed
Thermal movement [α_T]	-	$10 \cdot 10^{-6} \cdot K^{-1}$
Thermal conductivity [λ]	-	0.6 W/mK

Panel Weight (air dried)

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

Tolerances rectified trimmed

Thickness	8mm \pm 0.6mm. 12mm \pm 0.9mm
Length	\pm 1mm
Width	\pm 1mm
Squareness	\pm 1.5mm/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
- strong, rigid panels

8. Applications

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

- Ventilated façade cladding with Uni-screws, Uni-rivets and non-visible fixing Tergo+
- Ventilated Exterior ceiling: decorative cladding of ceiling
- Ventilated 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.

10. Maintenance and Cleaning

The finished ventilated facade areas should be cleaned down following fixing of panels. Any partial cleaning may cause minor visual impairments. To clean off dust use a soft brush and compressed air. As with all uncoated materials contaminations must be avoided.

WARNING

The use of abrasive materials, such as steel-wool, scourers etc. is not permitted as these cleaning items will leave irreparable scratches on the surface.

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. Information

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

Disclaimer

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

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