

1. Product Appearance

EQUITONE [Iunara] is a through coloured fibre cement panel with no coating. As the panel has an honest, pure and natural appearance, colour differences are possible. The surface of the sheet is characterised by a textured surface and white spots. The rear receives no back-sealing coating. The board receives a hydrophobation which prevents moisture ingress into the core of the panel.

2. Colour

The colour is throughout the sheet. Natural colour differences, possibly accentuated by the orientation of the sheet, the viewing angle and the effects of light and moisture, are possible. The sheet becomes a little lighter with aging.

It is not possible to realistically show available colours in literature, therefore the final choice of colours should be made with samples. The risk of colour differences between the various sheets decreases when the whole quantity is ordered at once.

Colour differences are measured according to a simplified CIELAB colour model, by which only the lightness of the colour is checked. Tolerated colour differences on a face are $\Delta L = 5.0$ based of 5 measurements.

3. Product Composition

EQUITONE [Iunara] sheets consist of the following:

- Portland cement
- Selected mineral fillers providing extra smooth surface
- Organic reinforcing fibres
- Mineral and organic pigments
- Functional additives

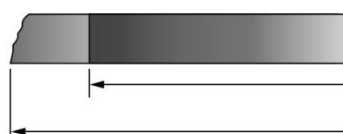
4. Production Method

EQUITONE [Iunara] sheets are manufactured on a Hatschek machine, are double pressed and autoclaved. Afterwards EQUITONE [Iunara] is made water repellent on the front and back by means of a hydrofobation.

5. Dimensions

EQUITONE [lunara] is available in 10mm thickness. The panels are available in either untrimmed or trimmed formats. The untrimmed (raw) panel needs to be trimmed by approximately 10mm on all edges. The panel should not be installed with untrimmed edges.

Factory trimmed panels are available in both standard and custom (MTO) trimmed formats. For internal applications where trimmed edges are within close viewing position the latter format may be more suitable. The standard factory trimmed edges may have a slight recess located towards the rear face of the panel.

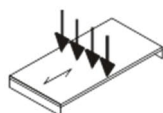


Dimensions

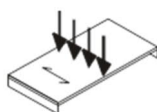
| | | |
|-------------------------|-----------------|-----------------|
| Not rectified untrimmed | 2520mm x 1240mm | 3070mm x 1240mm |
| Rectified trimmed | 2500mm x 1220mm | 3050mm x 1220mm |

6. Technical Properties

EQUITONE [lunara] cladding panels conform to the requirements of EN 12467:2012+A1 2016 "Fibre-cement flat sheets - Product specification and test methods". The results below are presented as defined by the standard.



Load perpendicular to the production direction



Load parallel to the production direction

Technical Properties

| | | | | |
|---|---------|---------|--------|-------------------|
| Minimum Density | Dry | EN12467 | 1580 | kg/m ³ |
| Characteristic bending strength perpendicular | ambient | EN12467 | 32.0 | N/mm ² |
| Characteristic bending strength parallel | ambient | EN12467 | 22.0 | N/mm ² |
| Mean module of elasticity | ambient | EN12467 | 14,000 | N/mm ² |
| Hygic movement (RH) | 30-90% | - | <0.80 | mm/m |
| Hygic movement (RH) oven dry to saturated | 0-100% | - | 1.6 | mm/m |
| Water absorption of uncoated panels | 0-100% | - | <25 | % |

Classification

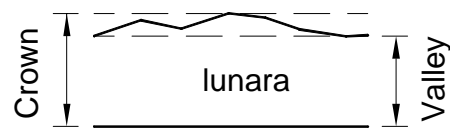
| | | |
|---------------------------|---------|------------|
| Durability classification | EN12467 | Category A |
| Strength classification | EN12467 | Class 4 |
| Reaction to fire | EN13501 | A2-s1,d0 |

Extra tests

| | | |
|--|---------|------------|
| Water impermeability test | EN12467 | Pass |
| Warm water test | EN12467 | Pass |
| Soak-dry test | EN12467 | Pass |
| Freeze-thaw test for category A panel | EN12467 | Pass |
| Heat-rain tests for category A panel | EN12467 | Pass |
| Dimensional tolerances for Level 1 panel | EN12467 | Pass |
| Thermal movement | - | 0.01 mm/mK |
| Thermal conductivity | - | 0.39 W/mK |

Panel Weight (air dried)

| | | | |
|-------|------------------------|-----------------|-----------------|
| Panel | Weight | 2500mm x 1220mm | 3050mm x 1220mm |
| 10mm | 18.6 kg/m ² | 56.7 kg | 69.2 kg |



Tolerances rectified trimmed

| | |
|------------|---|
| Thickness | Valley 8mm -0.2mm +1mm, Crown 10mm -/+1mm |
| Length | ± 3mm |
| Width | ± 3mm |
| Squareness | ± 1.0mm/m |

Performance to AS/NZS 2908.2(**)

| | | |
|--|---------------|------------|
| 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

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.

- C1.9e(iv) of the NCC 2019 Volume 1 (Amendment 1)
- 3.7.1.1(d) of the NCC 2019 Volume 2 (Amendment 1)
- C1.9e(iv) of the NCC 2016 Volume 1 (Amendment 1)
- 3.7.1.2(d) of the NCC 2016 Volume 2

EQUITONE fibre cement façade materials are classified as a 'Group 1' material in compliance with AS5637.1 and Specification C1.10 - Fire hazard properties, of the NCC 2019 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 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
- 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

In addition, EQUITONE [lunara] has the following specific properties:

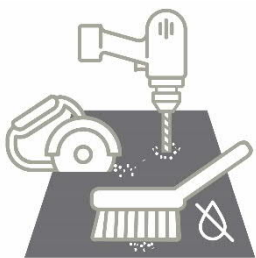
- Strong and rigid sheet
- Lightly Textured aesthetic surface with natural hues
- Natural pure colour

9. Applications

EQUITONE [lunara] 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

10. Cutting and Drilling



Any cutting or drilling dust must be removed from the face of the panel immediately after cutting using a clean microfibre cloth or brush otherwise the aesthetic aspect of the panel may be altered/affected as sawing and drilling dust contains cement and can cause permanent stains on the surface of the panels if allowed to dry in. Once the panel is installed it is recommended to use a clean microfibre cloth or brush to remove any traces of dirt or dust that may have occurred during installation of the panel.

11. Health and Safety Aspects

During the mechanical machining of panels, dust can be released which can irritate the airways and eyes. 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. Depending on the working conditions, adequate machinery with dust extraction and/or ventilation should be foreseen. For more information, please check the Material Safety Data Sheet.

EQUITONE [lunara] 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.

12. Maintenance and Cleaning

For minor soiling, washing with a mild household detergent or soft soap solution followed by rinsing with clear water. Light scratches can be removed by using a rotating brush - this may result in a slight darkening of the brushed area, however this will diminish as natural weathering occurs. Deeper scratches can be lessened but cannot be removed completely although they will diminish as natural weathering occurs.

13. 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 manufacturer is also ISO certified.

14. Information

Information on the different applications can be found in EQUITONE Design and Installation guides and technical documents. They can be found on EQUITONE website or can be obtained from local support.

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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