



Patina Original

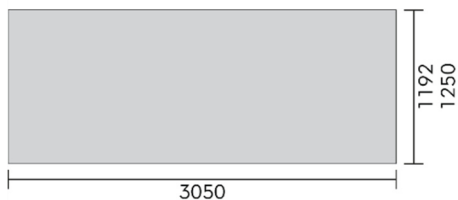
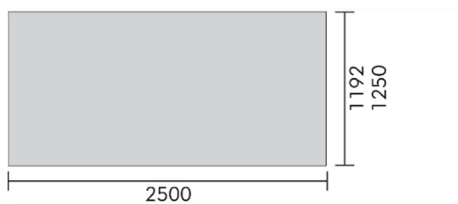
Datasheet - Facade Boards

Patina Original has a natural, textured surface. You can see the fiber and natural characteristics of the raw materials, and you can see and feel the unique sanding lines on the surface. Natural imperfections like dots and spots can be visible but from 3-5 meters distance the surface will appear homogenous. As the seasons change and the years pass, the natural aging of the fiber cement leaves subtle traces on the surface, and the facade will gradually acquire a distinctive patina.

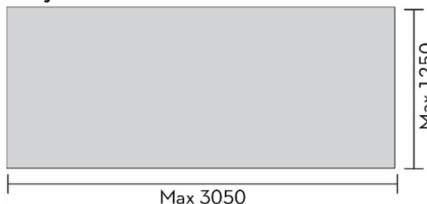
Patina Original is a through-coloured board. Variations in the color of the board are visible and vary depending on the orientation of the sheet, the viewing angle and level of light and humidity. Measuring the board color's small variations in the lightness are accepted. Patina Original facade boards are high quality fiber cement products used as part of a ventilated facade solution in all types of construction.

| Dimensions (nominal) | | Small Module | Standard size |
|----------------------|----|----------------------|---------------|
| Thickness | mm | 8 | 6 8 |
| Width | mm | 292 592 | 1192 1250 |
| Length | mm | 1192 2392 2992 | 2500 3050 |

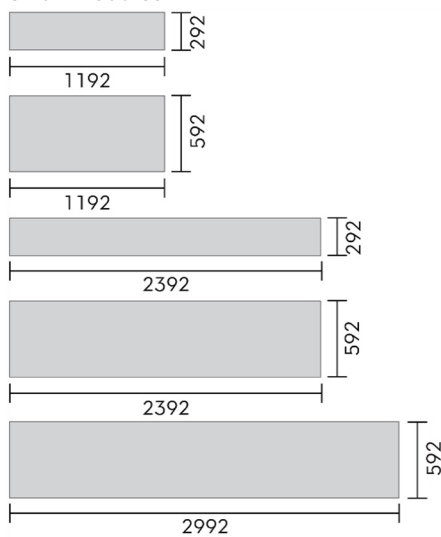
Standard size



Project size



Small Modules



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Patina Original

| Dimension tolerance (EN 12467, Level 1) | | Patina 6 mm | Patina 8 mm |
|---|----|-------------|-------------|
| Thickness (up to 20 mm) | mm | ± 0.6 | ± 0.8 |
| Width (a ≤ 1000 mm) | mm | ± 3.0 | ± 3.0 |
| Width/Length (1000 mm < a ≤ 1600 mm) | mm | ± 0,3% a | ± 0,3% a |
| Length (1600 mm < Length) | mm | ± 5.0 | ± 5.0 |

* a is the nominal width or length

Physical properties

| | | | |
|---|-------------------|--------|--------|
| Density, dry minimum (EN12467) | kg/m ³ | ≥ 1400 | ≥ 1475 |
| Density, dry average (EN12467) | kg/m ³ | 1450 | 1550 |
| Weight (incl. 10% moisture)* | kg/m ² | 9.3 | 12.4 |
| Moisture content (on dispatch ex works) | % | 5-10 | 5-10 |

* nominal value may vary depending on the conditions

Mechanical properties (EN 12467)

| | | | |
|--------------------------------|-----|----|----|
| Flexural modulus | | | |
| E-module along grain, ambient | GPa | 12 | 12 |
| E-module across grain, ambient | GPa | 13 | 14 |
| E-module along grain, wet | GPa | 9 | 9 |
| E-module across grain, wet | GPa | 11 | 11 |

Bending strength (EN 12467)

| | | | |
|-----------------------|-----|----|----|
| Along grain, ambient | MPa | 22 | 22 |
| Across grain, ambient | MPa | 35 | 35 |
| Along grain, wet | MPa | 17 | 18 |
| Across grain, wet | MPa | 26 | 27 |

Modified Charpy Pendulum Impact test EN ISO 148-1

| | | | |
|-------------------|-------------------|-----|-----|
| Along grain, dry | kJ/m ² | 2.2 | 2.7 |
| Across grain, dry | kJ/m ² | 2.7 | 3.6 |

Thermal properties

| | | | |
|---|---------|--------|--------|
| Thermal conductivity (ISO 8301, EN 12667), λ ₁₀ | W/mK | 0.32 | 0.37 |
| Coefficient of thermal expansion | mm/m °C | 0.01 | 0.01 |
| Frost resistance (average along/across) | RL | ≥ 0.75 | ≥ 0.75 |

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| Hygrothermal properties | | | |
|--|---|------|------|
| Water absorption (24 hrs 105°C, 24 hrs in water) | % | 28 | 28 |
| Moisture movement (30/90 % RH, EN 12467) | % | 0.08 | 0.08 |

| Water vapour transmission properties (EN 12572-C) | | | |
|---|-------------------------|-------|-------|
| Water vapour transmission resistance (Z-value) | GPa m ² s/kg | 2.4 | 2.5 |
| Water Vapour transmission resistance (Z-value) | s/m | 17700 | 18500 |
| Water vapour diffusion equivalent air layer thickness, Sd | m | 0.5 | 0.5 |
| Water vapour resistivity | MN s/gm | 366 | 327 |
| Water vapour resistance factor, μ | | 58 | 58 |
| Water vapour resistance | MN s/g | 2.4 | 2.5 |
| Water vapour transmission | USPerm | 7.2 | 7.0 |

| Color variation measured on the production line | | | |
|---|----|-----------|-----------|
| CIELAB colour model | ΔL | -2.5/+2.5 | -2.5/+2.5 |

| Fire Performance | | | |
|---|--------|----|-----------|
| Reaction to fire (EN 13501-1) | Rating | NA | A2-s1, d0 |
| Behavior of materials at 750°C (ASTM E136) | Rating | NA | Passed |
| External thermal insulation for walls (BS 8414-2-2015+A1-2017)* | Rating | NA | Passed |

* Tested with special requirements. Contact Product Compliance for further information.

| Other properties | | | |
|---|--|---------|---------|
| Category, class (EN12467) | | NT A4 I | NT A4 I |
| M1-Classification, VOC emission of building materials | | Pass | Pass |

| Impact resistance test (ETAG 034, ISO 7892), 8 mm | | | | | |
|---|------------|-------------|--------------|-------------|------------|
| | Max. | Category IV | Category III | Category II | Category I |
| Hard body | 1 Joule | Passed | | | |
| | 3 Joules | | Passed | Passed | Passed |
| | 10 Joules | | | Passed | Passed |
| Soft body | 10 Joules | Passed | Passed | | |
| | 60 Joules | | | Passed | Passed |
| | 300 Joules | | | Not passed | |
| | 400 Joules | | | | Not passed |
| Evaluation | | Passed | Passed | Not passed | Not passed |

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Ballwurfsicherheit (DIN 18032-3) - (Impact resistance), Wall and Ceiling, 12 mm

| | Angle of Impact | Number of shots | Subconstruction | Distance, subconstruction | Test result |
|------------|-----------------|-----------------|-----------------|---------------------------|----------------------------|
| Handball | 90 | 30 | Aluminium | 315 mm | Passed as "Ballwurfsicher" |
| | 45 | 12 | | | |
| | 45 | 12 | | | |
| Hockeyball | 90 | 4 | Aluminium | 315 mm | Passed as "Ballwurfsicher" |
| | 45 | 4 | | | |
| | 45 | 4 | | | |
