

NORDIC FACADE PANELS

TECHNICAL DATA SHEET

Nordic Façade Panels are asbestos free, double pressed, and steam cured fiber reinforced cement boards. They are reinforced with mineralized cellulose fibers, with smoothed surface and rectified edges. The panels are fully cured, moisture balanced, noncombustible, and integrally colored. Panels are available with hydrophobic, UV resistant or anti-graffiti, UV resistant surface treatment and are available in both flat and textured surfaces:

- NORDIC PLUS – FLAT BOARD. HYDROPHOBIC SURFACE WITH ANTI-GRAFFITI TREATMENT
- NORDIC CRYSTAL AND NORDIC SMOOTH – FLAT BOARD. HYDROPHOBIC SURFACE TREATMENT
- NORDIC RAW – GROOVED SURFACE WITH HYDROPHOBIC SURFACE TREATMENT
- NORDIC GEOMETRIC, NORDIC PLANK, NORDIC STRIPS – SMOOTH OR GROOVED FINISH. HYDROPHOBIC SURFACE TREATMENT
- NORDIC CRYSTALLINE – FLAT BOARD. TRANSPARENT ACRYLIC ANTI-GRAFFITI SURFACE TREATMENT
- NORDIC COLORED – FLAT BOARD WITH ACRYLIC PAINTED CUSTOM COLOR SURFACE TREATMENT
- NORDIC COLORED PLUS - NORDIC COLORED WITH ANTI-GRAFFITI PROPERTIES

| * wet over dry | Unit of measure | Value |
|---|---|----------------------|
| STANDARD DIMENSIONS** AND GEOMETRY | | |
| Length | mm | 2500 3000 3050 |
| Width | mm | 1200 1250 |
| Thickness | | 5-6-8-10-12-15-20 |
| Tolerances on nominal dimensions | Classification according to EN 12467:2016 | Level 1 |
| - on length | mm | ± 2 |
| - on width | mm | ± 1 |
| - on straightness of edges | % | 0,1 |
| - on squareness of edges | mm/m | 2 |

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|---|----------------------------|--|
| - on thickness for smooth sheets | mm | $\pm 0,2$ |
| Nominal weight | kg/m ² | 14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm) |
| PHYSICAL PROPERTIES | | |
| Density (dry) | kg/m ³ | 1600 \pm 50 |
| MECHANICAL PROPERTIES | | |
| E modulus of elasticity (dry) | | |
| - longitudinal | GPa | 14 |
| - transversal | GPa | 12 |
| E modulus of elasticity (wet) | | |
| - longitudinal | GPa | 11 |
| - transversal | GPa | 9 |
| Bending strength (wet) – hydrophobic treated sheets - transparent acrylic treated sheets-painted acrylic treated sheets | MPa | ≥ 24 |
| Bending strength (dry) | | |
| - longitudinal | MPa | 32 |
| - transversal | MPa | 22 |
| Compressive strength | MPa | 40 |
| Resistance (Charpy test) | According to EN 179-1:2010 | |
| - longitudinal | kJ/m ² | 4,3 |
| - transversal | kJ/m ² | 3,1 |
| HYGROMETRICAL PROPERTIES | | |
| Natural humidity | % | 10 \div 15 |
| Max water absorption* – hydrophobic treated sheets | % | 9 \pm 3 |
| Max water absorption* – transparent acrylic | % | 3 \pm 2 |

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|---|-------------------------------|-------------------------|
| treated sheets- acrylic treated sheets | | |
| Moisture movement – Relative humidity change from 30% to 90% | | |
| - longitudinal | mm/m | 0,7 |
| - transversal | mm/m | 0,8 |
| THERMAL AND WATER VAPOUR PROPERTIES | | |
| Vapor resistance factor, μ – according to EN 12572:2016 | --- | 49 |
| Thermal conductivity – according to EN 12664:2002 | W/mK | 0,42 |
| Thermal expansion coefficient – according to EN 10545-8:2014 | | |
| - longitudinal | 1/°C | 1,71 • 10 ⁻⁶ |
| - transversal | 1/°C | 0,58 • 10 ⁻⁶ |
| OTHER PROPERTIES | | |
| Superior calorific power | MJ/kg | 0,14 |
| Fire rating class | According to EN 13501-1 | A2 s1 d0 |
| Freeze-thaw performance | | RL ≥ 0,75 |
| Durability classification | According to EN 12467:2016 | category A |
| | | |
| Strength classification – treated sheets | According to EN 12467:2016 | class 5 |
| Oils, acids, bases, salts resistance | | good |
| Waterproof - inalterability | | absolute |
| Wear resistance | | good |
| CE marked product according to | --- | EN12467:201 6 |

If not otherwise specified, the tests are in accordance to EN 12467:2016.