

TECHNICAL DATASHEET

STENI Terra

| MATERIAL DATA (23 °C RF 45-60 %): | | Value | Unit | Reference | |
|--|--|---|------------------------------------|----------------------------|----------------------|
| Thickness | | 5 ± 0,5 | mm | STENI quality system | |
| Weight | | 9,5 ± 10 % | kg/m ² | STENI quality system | |
| Density | | 1960 ± 3 % | kg/m ³ | STENI quality system | |
| Length and width | | ± 2 | mm | STENI quality system | |
| Edge straightness | | ± 1 | mm | STENI quality system | |
| Drilling position tolerance | | ± 5 | mm | STENI quality system | |
| Diagonal deviation | | ≤ 3 | mm | STENI quality system | |
| SURFACE: | | | | | |
| Front side of panel: (Untreated natural sand) | | Grain of sand size | 1,0 – 3,0 | mm | STENI quality system |
| Front side quality: Uniform surface expression without craters and lack of sand) | | <i>Product for outside use;</i> (5 m distance 90° viewing with normal daylight without sun) <i>Product for inside use;</i> (3 m distance 90° viewing with normal illumination) | | Not visible | STENI quality system |
| Edge of panel: | | <i>Untreated;</i> (small defects adjoining to surface) | Accepted | | STENI quality system |
| Back side of panel is untreated. Minor defects. | | Accepted | | | STENI quality system |
| PHYSICAL DATA: | | | | | |
| Flexural strength | | ≥ 40 | N/mm ² | CSTB method | |
| Elasticity module | | ≥ 5000 | N/mm ² | CSTB method | |
| Impact strength | | | kJ/m ² | Not certified | |
| Tensile strength (length and width direction) | | | N/mm ² | Not certified | |
| Critical radius | | < 3,5 | m | STENI quality system | |
| Resistance to strong impact | | Maximum height of ball drop | 3,5 | m | NT Build 066 |
| Resistance of pull through panel (drilled hole d=4,5mm) Steni fixing screw (4,0 * 28/ 33) | | 0,6 | kN | EN 320:1993, interpolated | |
| Emission (TVOC): (23 °C 25 % RH) | | After 3 days After 28 days | | µg/(m ² h) | Not certified |
| Thermal conductivity λ _p | | 0,55 | W/(m K) | SINTEF NBI | |
| THERMAL PROPERTIES: | | | | | |
| Dimensional stability. Cumulative change max | | 0,04 | % | NS EN 438-2:2005, part 18 | |
| Temperature expansion (-20 °C to +65 °C) | | 0,021- 0,026 | mm/(m K) | SINTEF NBI | |
| Water vapor resistance | | 20·10 ¹⁰ | (m ² sPa)/kg | ASTM E 96-66, interpolated | |
| Water vapor resistance S _d | | 39 | m | SINTEF NBI, interpolated | |
| Permeability of water vapour | | 22·10 ⁻¹³ | kg(m ² s Pa) | ASTM E 96-66, interpolated | |
| Water absorption 1 m deep: (25 °C 100% RH) | | After 24 hour After 28 days | ca. 0,5 ca. 2,0 | % | ASTM D-570 |
| Frost resistance | | > 300 | Cycle | SINTEF NBI | |
| FIRE RESISTANCE: | | | | | |
| Used as ventilated facade panel (surface) | | | Euro Class | Not certified | |
| ENVIRONMENTAL: | | | | | |
| Global warming | | | CO ₂ ekv/m ² | Not certified | |
| Total energy | | | MJ/m ² | Not certified | |