

TECHNICAL DATASHEET

Steni Nature F / Steni Nature Glass F

| MATERIAL DATA (23 °C RF 45-60 %): | | Value | Unit | Reference |
|--|---|------------------------|------------------------------------|---------------------------|
| Thickness | | 6,5 ± 0,6 | mm | STENI quality system |
| Weight | | 13,0 ± 10 % | kg/m ² | STENI quality system |
| Weight Steni Nature Glass SN 604 | | 13,0 ± 10 % | kg/m ² | STENI quality system |
| Weight Steni Nature Glass SN 605 | | 13,5 ± 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 |
| Angular deviation on L and U elements (100mm from corner) | | ± 3° | deg | STENI quality system |
| SURFACE: | | | | |
| Front side of panel: (Untreated natural aggregate) | Aggregate size | 1,0 – 3,0 | mm | STENI quality system |
| Front side quality: Uniform surface expression without craters and lack of aggregate) | <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 | | ≥ 30 | N/mm ² | CSTB method |
| Elasticity module | | ≥ 5000 | N/mm ² | EN ISO 178 |
| Impact strength | | ≥ 17 | kJ/m ² | ISO 172-82 |
| Tensile strength (length and width direction) | | ≥ 13 | N/mm ² | ISO/R 527-66 |
| Critical radius | | < 3,5 | m | |
| Resistance to strong impact | Maximum height of ball drop | 3,5 | m | NT Build 066 |
| Resistance of pull through panel (drilled hole d=5,5mm) Steni fixing screw (4,0 * 28/ 33) | | 1,0 | kN | EN 320:1993 |
| Emission After 28 days (23 °C 50 % RH) | TVOC Formaldehyde Σ VOC carcinogenic | 540 3 <1 | µg/(m ² h) | EN ISO 16000-9:2006 |
| 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 | | 30 · 10 ¹⁰ | (m ² sPa)/kg | ASTM E 96-66 |
| Water vapor resistance S _d | | 58,5 | m | SINTEF NBI |
| Permeability of water vapour | | 33 · 10 ⁻¹³ | kg/(m ² s Pa) | ASTM E 96-66 |
| Water absorption 1 m deep: (25 °C 100% RH) | After 24 hours 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) | | B-s1,d0 | Euro Class | EN 13501-1 |
| ENVIRONMENTAL: | | | | |
| Global warming potential | | 18 | CO ₂ ekv/m ² | NEPD-2580-1307-EN |
| Total energy use | | 428 | MJ/m ² | NEPD-2580-1307-EN |