

# STENI Colour



LASTING EXPRESSIONS

## TECHNICAL DATASHEET

| MATERIAL DATA (23 °C RF 45-60 %):  |   | Value                 | Unit                                  | Reference                   |
|--|---|-----------------------|---------------------------------------|-----------------------------|
| Thickness  |   | 6,0 ± 0,6             | mm                                    | STENI quality system        |
| Weight   |   | 12,0 ± 5%             | kg/m <sup>2</sup>                     | STENI quality system        |
| Density  |   | 2000 ± 5%             | kg/m <sup>3</sup>                     | STENI quality system        |
| Length and width   |   | ± 2                   | mm                                    | STENI quality system        |
| Edge straightness  |   | ± 1                   | mm                                    | STENI quality system        |
| Drilling distains tolerance  |   | ± 3                   | mm                                    | STENI quality system        |
| Diagonal deviation   |   | ≤ 3                   | mm                                    | STENI quality system        |
| <b>SURFACE:</b>  |   |                       |                                       |                             |
| Front side of panel:<br>(electron cured acryl with gloss)  | M (Matt)<br>HM (Half Matt)<br>HG (High Gloss)   | 1-4<br>10-35<br>65-75 | BYK 60°                               | ISO 6504, ASTM standard     |
| Front side quality of coat:<br>(surface defects as stars, blisters, craters, pinholes and scratches) | <i>Product for outside use;</i><br>(5 m distance 90° viewing with normal daylight without sun)<br><i>Product for inside use;</i><br>(3 m distance 90° viewing with normal illumination) | Not visible           |                                       | EN 12206-1:2004, 4.5.2      |
| The coating shall be free from defects extending down to the substrate.                              |   | Not accepted          |                                       | EN 12206-1:2004, 4.5.2      |
| Edge of panel:   | <i>Untreated;</i><br>(small defects adjoining to surface)<br><i>Treated;</i><br>(small defects without coating)   | Accepted              |                                       | STENI quality system        |
| Back side of panel is untreated and partly calibrated by sanding. Minor defects.                     |   | Accepted              |                                       | STENI quality system        |
| <b>PHYSICAL DATA:</b>  |   |                       |                                       |                             |
| Flexural strength  |   | 40                    | N/mm <sup>2</sup>                     | CSTB method                 |
| Tensile strength (length and width direction)  |   | 20                    | N/mm <sup>2</sup>                     | ISO/R 527-66                |
| Elasticity module  |   | 10 000                | N/mm <sup>2</sup>                     | CSTB method                 |
| Critical radius  |   | < 3,5                 | m                                     |                             |
| Surface hardness:  | Ball impression 250 N<br>Permanent impression   | 0,14<br>0,03          | mm                                    | NT Build 059, NT Build 066  |
| Resistance to Steni fixing screw (4,0 * 28/ 33)  |   | 1,8                   | KN                                    | EN 320:1993                 |
| Emission (TVOC):<br>(23 °C 25 % RH)  | After 3 days<br>After 28 days   | 140<br>50             | µg/(m <sup>2</sup> h)                 | prEN 13419-2                |
| Thermal conductivity λ <sub>p</sub>  |   | 0,55                  | W/m K                                 | SINTEF NBI                  |
| <b>THERMAL PROPERTIES:</b>   |   |                       |                                       |                             |
| Dimensional stability: Cumulative change max   |   | 0,04                  | %                                     | NS EN 438-2 : Part 18, 2005 |
| Temperature expansion (-20 °C to +65 °C )  |   | 0,021- 0,026          | mm/m K                                | SINTEF NBI                  |
| Water vapor resistance   |   | 30·10 <sup>10</sup>   | (m <sup>2</sup> sPa)/kg               | ASTM E 96-66                |
| Water vapor resistance S <sub>d</sub>  |   | 58,5                  | m                                     | SINTEF NBI                  |
| Permeability of water vapour   |   | 33·10 <sup>-13</sup>  | kg(m <sup>2</sup> s Pa)               | ASTM E 96-66                |
| Water absorption 1 m deep:<br>(25 °C 100% RH)  | After 24 hour<br>After 28 days  | ca. 0,5<br>ca. 2,0    | %                                     | ASTM D-570                  |
| Frost resistance   |   | > 300                 | Cycle                                 | SINTEF NBI                  |
| <b>FIRE RESISTANCE:</b>  |   |                       |                                       |                             |
| Used as ventilated facade panel (rain screen)  |   | B-s1,d0               | Euro Class                            | EN 13501-1                  |
| <b>ENVIRONMENTAL:</b>  |   |                       |                                       |                             |
| Global warming   |   | 17                    | CO <sub>2</sub><br>ekv/m <sup>2</sup> | SINTEF NEPD 0097E rev 1     |
| Total energy   |   | 179                   | MJ/m <sup>2</sup>                     | SINTEF NEPD 0097E rev 1     |

STENI AS works continually engaged in product development, and we reserve the right to change our data without notice.



Technical data is a neutral description of the product. It is not within STENI AS responsibility to evaluate the performance of products when used under other conditions than recommended in our technical manuals. Fire Euro Cass presupposes installation according to our installation descriptions. Check our web [www.steni.com](http://www.steni.com) for up to date installation instructions and technical documentation.