

# DECLARATION OF PERFORMANCE

## Reference number DoP UMIDAX® NOIR v.1.0

| Product type   | Intended use   |                  |                  | AVCP   |
|--|--|------------------|------------------|--|
| UMIDAX® NOIR MDF-HLS<br>EN 622-5   | Internal use as structural components<br>in dry conditions |                  |                  | 2+   |
| Essential characteristics  | Performance  |                  |                  | Reference  |
|  | 6 to 12  | >12 to 19        | >19 to 30        |  |
| <b>Characteristic Strength (Nmm<sup>2</sup>)</b>                           |  |                  |                  | <b>EN 12369-1: 2001</b>  |
| - Bending $f_m$  | 22   | 22               | 21               |  |
| - Compression $f_c$  | 18,0   | 16,5             | 16,0             |  |
| - Tension $f_t$  | 18,0   | 16,5             | 16,0             |  |
| - Panel Shear $f_v$  | 8,5  | 8,5              | 8,5              |  |
| - Planar shear $f_r$   | NPD  | NPD              | NPD              |  |
| <b>Characteristic Stiffness (MOE)<br/>(Nmm<sup>2</sup>)</b>                |  |                  |                  |  |
| - Tension $E_t$  | 3.200  | 3.100            | 2.800            |  |
| - Compression $E_c$  | 2.800  | 2.700            | 2.400            |  |
| - Bending $E_m$  | 2.800  | 2.700            | 2.400            |  |
| - Panel Shear $G_v$  | 1.000  | 1.000            | 800              |  |
| <b>Impact resistance</b>   | NPD  | NPD              | NPD              |  |
| <b>Reaction to fire</b>  | D-s2, d0   | D-s2, d0         | D-s2, d0         | <b>CWFT Table 8<br/>Density &gt; 600 kg/m<sup>3</sup></b>            |
| <b>Water vapour permeability <math>\mu</math></b>                          | wet 20<br>dry 12   | wet 20<br>dry 12 | wet 20<br>dry 12 | <b>CWFT Table 9<br/>Density &gt; 600 kg/m<sup>3</sup></b>            |
| <b>Release of formaldehyde</b>   | E1   | E1               | E1               | <b>WKI-295-6/1994</b>  |
| <b>Release (content) of<br/>pentachlorophenol (PCP)</b>                    | ≤5ppm  | ≤5ppm            | ≤5ppm            |  |
| <b>Airborne sound insulation<br/>(surface mass) (R)</b>                    | NPD  | NPD              | NPD              |  |
| <b>Sound absorption</b> Frequency range<br>250Hz to 500Hz ( $\alpha$ )     | 0,1  | 0,1              | 0,1              | <b>CWFT Table 10<br/>Density &gt; 400 kg/m<sup>3</sup></b>           |
| <b>Sound absorption</b> Frequency range<br>1.000Hz to 2.000Hz ( $\alpha$ ) | 0,2  | 0,2              | 0,2              | <b>CWFT Table 10<br/>Density &gt; 400 kg/m<sup>3</sup></b>           |
| <b>Thermal conductivity <math>\lambda</math></b>                           | 0,1  | 0,1              | 0,1              | <b>CWFT Table 10<br/>Density &gt; 600, 800 &lt; kg/m<sup>3</sup></b> |
| <b>Internal bond (N/mm<sup>2</sup>)</b>                                    | NPD  |                  |                  | <b>EN 622-5: 2006</b>  |
| <b>Swelling in thickness (%)</b>   | NPD  |                  |                  |  |
| <b>Module of elasticity (N/mm<sup>2</sup>)</b>                             | NPD  |                  |                  |  |
| <b>Module of rupture (N/mm<sup>2</sup>)</b>                                | NPD  |                  |                  |  |
| <b>Mechanical durability</b>   | NPD  |                  |                  |  |
| <b>Impact resistance</b>   | NPD  |                  |                  |  |
| <b>Biological durability</b>   | Class 2 according EN335                                    |                  |                  |  |

**EN 13986: 2004**
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 COO Spanolux

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