**DECLARATION OF PERFORMANCE**

DoP Reference number: - NP4LPDoPv4

Norbord Europe Ltd

Station Road

Cowie

Stirling

FK7 7BQ

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**Unique Identification code of the product type**

| P4 18mm*          | Internal use as structural components in dry conditions | 2+       | 1224 | EN13986:2004 +A1:2015 |

*The unique identification code of the product type is a combination of the technical class and the individual product’s nominal thickness.

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**Declared performance (covering P4 18mm*)**

**Essential characteristics**

<table>
<thead>
<tr>
<th>Performance</th>
<th><strong>Thickness range</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>1200x300</td>
</tr>
<tr>
<td></td>
<td>T&amp;G 2 edges</td>
</tr>
</tbody>
</table>

**Characteristic Strength (N/mm²)**

- **Bending** $f_m$: 12.5
- **Compression** $f_c$: 11.1
- **Tension** $f_t$: 7.9
- **Panel Shear** $f_v$: 6.1
- **Planar shear** $f_r$: 1.6

**Mean Stiffness (MOE) (N/mm²)**

- **Tension** $E_t$: 1700
- **Compression** $E_c$: 1700
- **Bending** $E_m$: 2900
- **Panel shear** $G_v$: 830

**Characteristic strength under point load $F_{max,k}$ (kN)**

(for floors and roofs)

NPD

**Mean stiffness under point load (N/mm)**

(for floors and roofs)

NPD

**Characteristic serviceability strength under point load $F_{ser,k}$ (kN)**

(for floors and roofs)

NPD

**Racking resistance**

(for walls)

NPD

**Soft Body Impact resistance**

Floor/roofs

NPD

Wall

D-s2,d0

**Reaction to fire**

NP4LPDoPv4

**Water vapour permeability $\mu$**

NPD

**Release of formaldehyde**

E1

**Release (content) of pentachlorophenol (PCP)**

≤5ppm
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airborne sound insulation (surface mass) (R)</td>
<td>NPD</td>
</tr>
<tr>
<td>Sound absorption, Frequency range 250Hz to 500Hz (α)</td>
<td>0.1</td>
</tr>
<tr>
<td>Sound absorption, Frequency range 1000Hz to 2000Hz (α)</td>
<td>0.25</td>
</tr>
<tr>
<td>Thermal conductivity (λ)</td>
<td>NPD</td>
</tr>
</tbody>
</table>

**Durability**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal bond (N/mm²)</td>
<td>0.35</td>
</tr>
<tr>
<td>Swelling in thickness (%)</td>
<td>15</td>
</tr>
<tr>
<td>Mechanical (creep kₜₜₜₜ) service class 1</td>
<td>2.25</td>
</tr>
<tr>
<td>Mechanical (duration of load kₜₜₜₜ)</td>
<td></td>
</tr>
</tbody>
</table>

**Action Mode**

<table>
<thead>
<tr>
<th>Service class 1</th>
<th>Permanent</th>
<th>Long Term</th>
<th>Medium Term</th>
<th>Short Term</th>
<th>Instantaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.3</td>
<td>0.45</td>
<td>0.65</td>
<td>0.85</td>
<td>1.1</td>
</tr>
<tr>
<td>Biological</td>
<td>Use Class 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The performance of the product identified is in conformity with the declared performance.

This declaration of performance is issued in accordance with regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Nick Fedo

At: - Cowie, Scotland          On: - 06-04-17