

## DECLARATION OF PERFORMANCE

DoP Reference number : -NP6StrebordDoPv4

**Norbord Europe Ltd**

**Station Road**

**Cowie**

**Stirling**

**FK7 7BQ**

Unique Identification code of the product type*	Intended Use	Systems of AVCP	Notified Body	Harmonised standard
P6 38mm*	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				

### Declared performance (covering P6 38mm\*)

Essential characteristics	Performance
	<b>Thickness (mm)</b>
	<b>38mm T&amp;G</b>
<b>Characteristic Strength (N/mm<sup>2</sup>)</b>	
- Bending $f_m$	11.7
- Compression $f_c$	11.9
- Tension $f_t$	7.8
- Panel Shear $f_v$	6.0
- Planar shear $f_r$	1.7
<b>Mean Stiffness (MOE) (N/mm<sup>2</sup>)</b>	
- Tension $E_t$	1800
- Compression $E_c$	1800
- Bending $E_m$	3100
- Panel Shear $G$	900
<b>Characteristic strength under point load <math>F_{max,k}</math> (kN)</b> <i>(for floors and roofs)</i>	12.93
<b>Mean stiffness under point load, R (N/mm)</b> <i>(for floors and roofs)</i>	1980
<b>Characteristic serviceability strength under point load <math>F_{ser,k}</math> (kN)</b> <i>(for floors and roofs)</i>	11.7
<b>Racking resistance</b> <i>(for walls)</i>	NPD
<b>Soft Body Impact resistance</b> Floor/roofs Walls	Pass Floors
<b>Reaction to fire</b>	DFL-s1
<b>Water vapour permeability <math>\mu</math></b>	NPD
<b>Release of formaldehyde</b>	E1
<b>Release (content) of pentachlorophenol (PCP)</b>	≤5ppm
<b>Airborne sound insulation (surface mass) (R)</b>	NPD
<b>Sound absorption</b> Frequency range 250Hz to 500Hz ( $\alpha$ )	0.1

<b>Sound absorption</b> Frequency range 1000Hz to 2000Hz ( $\alpha$ )	0.25				
<b>Thermal conductivity</b> $\lambda$	NPD				
<b>Durability</b>					
<b>Internal bond</b> (N/mm <sup>2</sup> )	0.30				
<b>Swelling in thickness</b> (%)	14				
<b>Mechanical</b> (creep $k_{def}$ ) <b>service class 1</b>	1.5				
<b>Mechanical</b> (duration of load $k_{mod}$ )	<b>Action Mode</b>				
	<b>Permanent</b>	<b>Long Term</b>	<b>Medium Term</b>	<b>Short Term</b>	<b>Instantaneous</b>
<b>Service class 1</b>	<b>0.4</b>	<b>0.5</b>	<b>0.7</b>	<b>0.9</b>	<b>1.1</b>
<b>Biological</b>	Use Class 1				

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

