

DECLARATION OF PERFORMANCE
DoP Reference Number: - **NP5DoPv4**
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
P5 >6mm to 40mm*	Internal use as structural components in humid 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 a range of product-types P5 >6mm to 40mm*)

Essential characteristics	Performance								
	Thickness(mm)								
	>6 to 10	>10 to 13	>13 to 20	>20 to 25	>25 to 32	>32 to 40	18 T&G 400 centres	22 T&G 600 centres	
Characteristic Strength (N/mm²)									
- Bending f_m	15.0	15.0	13.3	11.7	10.0	8.3	13.3	11.7	
- Compression f_c	12.7	12.7	11.8	10.3	9.8	8.5	11.8	10.3	
- Tension f_t	9.4	9.4	8.5	7.4	6.6	5.6	8.5	7.4	
- Panel Shear f_v	7.0	7.0	6.5	5.9	5.2	4.8	6.5	5.9	
- Planar shear f_r	1.9	1.9	1.7	1.5	1.3	1.2	1.7	1.5	
Mean Stiffness (MOE) (N/mm²)									
- Tension E_t	2000	2000	1900	1800	1500	1400	1900	1800	
- Compression E_c	2000	2000	1900	1800	1500	1400	1900	1800	
- Bending E_m	3500	3500	3300	3000	2600	2400	3300	3000	
- Panel Shear G_v	960	960	930	860	750	690	930	860	
Characteristic strength under point load $F_{max,k}$ (kN) <i>(for floors and roofs)</i>	NPD	NPD	NPD	NPD	NPD	NPD	5.4	5.4	
Mean stiffness under point load, R (N/mm) <i>(for floors and roofs)</i>	NPD	NPD	NPD	NPD	NPD	NPD	840	560	
Characteristic serviceability strength under point load, $F_{ser,k}$ (kN) <i>(for floors and roofs)</i>	NPD	NPD	NPD	NPD	NPD	NPD	4.3	4.3	
Racking resistance <i>(for walls)</i>	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	
Soft Body Impact resistance Floor/roofs Walls	NPD	NPD	NPD	NPD	NPD	NPD	Pass Floor	Pass Floor	
Reaction to fire	NPD	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0	D-2,d0	DFL-s1	DFL-s1	
Water vapour permeability μ	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	
Release of formaldehyde	E1	E1	E1	E1	E1	E1	E1	E1	

Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm		≤5ppm	≤5ppm	
Airborne sound insulation (surface mass) (R)	NPD	NPD	NPD	NPD	NPD	NPD		NPD	NPD	
Sound absorption Frequency range 250Hz to 500Hz (α)	0.1	0.1	0.1	0.1	0.1	0.1		0.1	0.1	
Sound absorption Frequency range 1000Hz to 2000Hz (α)	0.25	0.25	0.25	0.25	0.25	0.25		0.25	0.25	
Thermal conductivity λ	NPD	NPD	NPD	NPD	NPD	NPD		NPD	NPD	
Durability										
Internal bond (N/mm²)	0.45	0.45	0.45	0.40	0.35	0.30		0.45	0.40	
Swelling in thickness (%)	13	11	10	10	10	9		10	10	
Internal bond after cyclic test (N/mm²)	0.25	0.25	0.22	0.20	0.17	0.15		0.22	0.20	
Swelling in thickness after cyclic test (%)	12	12	12	11	10	9		12	11	
Moisture resistance Internal bond after boil test (%)	0.15	0.15	0.14	0.12	0.11	0.10		0.14	0.12	
Mechanical (Creep k_{def}) service class 1	2.25	2.25	2.25	2.25	2.25	2.25		2.25	2.25	
Mechanical (Creep k_{def}) service class 2	3	3	3	3	3	3		3	3	
Mechanical (Duration of Load, k_{mod})	Action Mode									
	Permanent		Long Term		Medium Term		Short Term		Instantaneous	
Service Class 1	0.30		0.45		0.65		0.85		1.10	
Service Class 2	0.20		0.30		0.45		0.60		0.80	
Biological	Use classes 1 & 2									

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

