

DECLARATION OF PERFORMANCE
DoP Reference number: - **NP6DoPv4**
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 >20mm to 40mm*	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 a range of product-types P6 >20mm to 40mm*)

Essential characteristics	Performance		
	Thickness (mm)		
	>20 to 25	>25 to 32	>32 to 40
Characteristic Strength (N/mm²)			
- Bending f_m	13.3	12.5	11.7
- Compression f_c	12.8	12.2	11.9
- Tension f_t	8.5	8.3	7.8
- Panel Shear f_v	6.8	6.5	6.0
- Planar shear f_r	1.7	1.7	1.7
Mean Stiffness (MOE) (N/mm²)			
- Tension E_t	2100	1900	1800
- Compression E_c	2100	1900	1800
- Bending E_m	3500	3300	3100
- Panel Shear G_v	1050	950	900
Characteristic strength under point load $F_{max,k}$ (kN) <i>(for floors and roofs)</i>	NPD	NPD	NPD
Mean stiffness under point load, R (N/mm) <i>(for floors and roofs)</i>	NPD	NPD	NPD
Characteristic serviceability under point load $F_{ser,k}$ (kN) <i>(for floors and roofs)</i>	NPD	NPD	NPD
Racking resistance <i>(for walls)</i>	NPD	NPD	NPD
Soft Body Impact resistance Floor/roofs Walls	NPD	NPD	NPD
Reaction to fire	D-s2,d0	D-s2,d0	D-s2,d0
Water vapour permeability μ	NPD	NPD	NPD
Release of formaldehyde	E1	E1	E1
Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm
Airborne sound insulation (surface mass) (R)	NPD	NPD	NPD
Sound absorption Frequency range 250Hz to 500Hz (α)	0.1	0.1	0.1
Sound absorption Frequency range 1000Hz to 2000Hz (α)	0.25	0.25	0.25

Thermal conductivity λ	NPD	NPD	NPD	NPD	NPD
Durability					
Internal bond (N/mm ²)	0.40	0.35	0.30	0.30	0.30
Swelling in thickness (%)	15	15	14	14	14
Mechanical (creep k_{def}) service class 1	1.5	1.5	1.5	1.5	1.5
Mechanical (duration of load k_{mod})	Action Mode				
	Permanent	Long Term	Medium Term	Short Term	Instantaneous
Service class 1	0.4	0.5	0.7	0.9	1.1
Biological	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

