

DECLARATION OF PERFORMANCE

DoP Reference number: - NSMP4DoPv3

Norbord Europe Ltd

Hill Village

South Molton

Devon

EX36 4HP

Unique Identification code of the product type*	Intended Use	Systems of AVCP	Notified Body	Harmonised standard
P4 >10mm to 40mm*	Internal use as structural components in dry conditions	2+	0502	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 P4 >10mm to 40mm*)

Essential characteristics	Performance						18 T&G 400 centres
	>10 to 13	>13 to 20	>20 to 25	>25 to 32	>32 to 40		
Characteristic Strength (N/mm ²)							
- Bending f_m	14.2	12.5	10.8	9.2	7.5		12.5
- Compression f_c	12.0	11.1	9.6	9.0	7.6		11.1
- Tension f_t	8.9	7.9	6.9	6.1	5.0		7.9
- Panel Shear f_v	6.6	6.1	5.5	4.8	4.4		6.1
- Planar shear f_r	1.8	1.6	1.4	1.2	1.1		1.6
Mean Stiffness (MOE) (N/mm ²)							
- Tension E_t	1800	1700	1600	1400	1200		1700
- Compression E_c	1800	1700	1600	1400	1200		1700
- Bending E_m	3200	2900	2700	2400	2100		2900
- Panel Shear G_v	860	830	770	680	600		830
Characteristic strength under point load $F_{max,k}$ (kN) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD		5.4
Mean stiffness under point load, R (N/mm) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD		840
Characteristic serviceability strength under point load $F_{ser,k}$ (kN) (for floors and roofs)	NPD	NPD	NPD	NPD	NPD		4.3
Racking resistance (for walls)	NPD	NPD	NPD	NPD	NPD		NPD
Soft Body Impact resistance Floor/roofs Walls	NPD	NPD	NPD	NPD	NPD		Pass Floors
Reaction to fire	D-2,d0	D-2,d0	D-2,d0	D-2,d0	D-2,d0		DFL-s1
Water vapour permeability μ	NPD	NPD	NPD	NPD	NPD		NPD
Release of formaldehyde	E1	E1	E1	E1	E1		E1
Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm	≤5ppm	≤5ppm		≤5ppm
Airborne sound insulation (surface mass) (R)	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

Sound absorption Frequency range 1000Hz to 2000Hz (α)	0.25	0.25	0.25	0.25	0.25		0.25
Thermal conductivity λ	NPD	NPD	NPD	NPD	NPD		NPD
Durability							
Internal bond (N/mm^2)	0.40	0.35	0.30	0.25	0.20		0.35
Swelling in thickness (%)	16	15	15	15	14		15
Mechanical (creep k_{def}) service class 1	2.25	2.25	2.25	2.25	2.25		2.25
Mechanical (duration of load k_{mod})	Action Mode						
	Permanent	Long Term	Medium Term	Short Term	Instantaneous		
Service Class 1	0.3	0.45	0.65	0.85	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:

Ian Lawrence

At: - South Molton, UK

On: - 01-11-16



(signature)