

DECLARATION OF PERFORMANCE
Reference number NGOSB4DoPv3

Norbord NV
Eikelaarstraat 33
3600 Genk
Belgium

Unique Identification code of the product type*	Intended Use	Systems of AVCP	Notified Body	Harmonised standard
OSB/4 6mm to 32mm*	Heavy duty; Internal use as structural components in humid conditions	2+	1161	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 OSB/4 6mm to 32mm*)

Essential characteristics	Performance							
	6 to 10		>10 to <18		18 to 25		>25 to 32	
Thickness range	0	90	0	90	0	90	0	90
Characteristic Strength (N/mm ²)								
- Bending	24.5	13.0	23.0	12.2	21.0	11.4	NPD	NPD
- Compression	18.1	14.3	17.6	14.0	17.0	13.7	NPD	NPD
- Tension	11.9	8.5	11.4	8.2	10.9	8.0	NPD	NPD
- Panel Shear	6.9		6.9		6.9		NPD	
- Planar shear	1.1		1.1		1.1		NPD	
Mean Stiffness (MOE) (N/mm ²)								
- Tension	4300	3200	4300	3200	4300	3200	NPD	NPD
- Compression	4300	3200	4300	3200	4300	3200	NPD	NPD
- Bending	6780	2680	6780	2680	6780	2680	NPD	NPD
- Panel Shear	1090		1090		1090		NPD	
- PlanarShear	60		60		60		NPD	
Characteristic strength under point load F _{max,k} (kN) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD	
Mean stiffness under point load, R (N/mm ²) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD	
Characteristic serviceability strength under point load F _{ser,k} (kN) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD	
Racking resistance <i>(for walls)</i>	NPD		NPD		NPD		NPD	
Soft Body Impact resistance Fillors/Roofs Walls	NPD		NPD		NPD		NPD	
Reaction to fire	NPD		D-s2,d0		D-s2,d0		D-s2,d0	
Water vapour permeability μ	NPD		NPD		NPD		NPD	
Release of formaldehyde	E1		E1		E1		E1	
Release (content) of pentachlorophenol (PCP)	≤5ppm		≤5ppm		≤5ppm		≤5ppm	

Airborne sound insulation (surface mass) (R)	NPD	NPD	NPD	NPD	
Sound absorption Frequency range 250Hz to 500Hz (α)	0.1	0.1	0.1	0.1	
Sound absorption Frequency range 1000Hz to 2000Hz (α)	0.25	0.25	0.25	0.25	
Thermal conductivity λ	0.13	0.13	0.13	0.13	
Durability					
Internal bond (N/mm ²)	0.50	0.45	0.40	0.35	
Swelling in thickness (%)	12	12	12	12	
Moisture resistance Internal bond after boil test (%)	NPD	NPD	NPD	NPD	
Internal bond after cyclic test (N/mm ²)	NPD	NPD	NPD	NPD	
Bending strength after cyclic test – major axis (N/mm ²)	15	14	13	6	
Mechanical (Creep k_{def}) Service class 1	1.5	1.5	1.5	1.5	
Mechanical (Creep k_{def}) Service class 2	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	0.4	0.5	0.7	0.9	1.1
Service class 2	0.3	0.4	0.55	0.7	0.9
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:

Sterkmans Peter

Quality Supervisor



Genk, Belgium

..... 10/10/2016