

DECLARATION OF PERFORMANCE

Reference number NGOSB2DoPv3

Norbord NV
Eikelaarstraat 33
3600 Genk
Belgium

Unique Identification code of the product type*	Intended Use	Systems of AVCP	Notified Body	Harmonised standard
OSB/2 6mm to 40mm*	Internal use as structural components in dry 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/2 6mm to 40mm*)

Essential characteristics	Performance									
	Thickness range									
	6 to 10		>10 to <18		18 to 25		>25 to 32		>32 to 40	
	0	90	0	90	0	90	0	90	0	90
Characteristic Strength (N/mm²)										
- Bending	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	NPD	NPD
- Compression	15.9	12.9	15.4	12.7	14.8	12.4	NPD	NPD	NPD	NPD
- Tension	9.9	7.2	9.4	7.0	9.0	6.8	NPD	NPD	NPD	NPD
- Panel Shear	6.8		6.8		6.8		NPD		NPD	
- Planar shear	1.0		1.0		1.0		NPD		PD	
Mean Stiffness (MOE) (N/mm²)										
- Tension	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD
- Compression	3800	3000	3800	3000	3800	3000	NPD	NPD	NPD	NPD
- Bending	4930	1980	4930	1980	4930	1980	NPD	NPD	NPD	NPD
- Panel Shear	1080		1080		1080		NPD		NPD	
- Planar Shear	50		50		50		NPD		NPD	
Characteristic strength under point load F_{max,k} (kN) (for floors and roofs)	NPD		NPD		NPD		NPD		NPD	
Mean stiffness under point load, R (N/mm²) (for floors and roofs)	NPD		NPD		NPD		NPD		NPD	
Characteristic serviceability strength under point load F_{ser,k} (kN) (for floors and roofs)	NPD		NPD		NPD		NPD		NPD	
Soft Body Impact resistance										
Floor/roofs	NPD		NPD		NPD		NPD		NPD	
Walls	NPD		NPD		NPD		NPD		NPD	
Racking resistance (for walls)	NPD		NPD		NPD		NPD		NPD	
Reaction to fire	NPD		D-s2,d0		D-s2,d0		D-s2,d0		D-s2,d0	
Water vapour permeability μ	NPD		NPD		NPD		NPD		NPD	
Release of formaldehyde	E1		E1		E1		E1		E1	
Release (content) of pentachlorophenol (PCP)	≤5ppm		≤5ppm		≤5ppm		≤5ppm		≤5ppm	

Airborne sound insulation (surface mass) (R)	NPD	NPD	NPD	NPD	NPD
Sound absorption Frequency range 250Hz to 500Hz (α)	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
Thermal conductivity λ	0.13	0.13	0.13	0.13	0.13
Durability					
Internal bond (N/mm ²)	0.34	0.32	0.30	0.29	0.26
Swelling in thickness (%)	20	20	20	20	20
Mechanical (Creep k_{def}) Service class 1	2.25	2.25	2.25	NPD	NPD
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:

Sterkmans Peter

Quality Supervisor



Genk, Belgium

