



Norbord NV
Eikelaarstraat 33
3600 Genk
Belgium

DoP ref: NGOSB4DoPv3

EN 13986:2004 +A1:2015

1161

O8

E1

OSB4

6mm to 32mm

Heavy duty; structural use in humid conditions

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	NPD		NPD		NPD		NPD	

NGOSB4CEv3

Flloors/Roofs Walls					
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)	$\leq 5\text{ppm}$	$\leq 5\text{ppm}$	$\leq 5\text{ppm}$	$\leq 5\text{ppm}$	
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				

Sterkmans Peter

Quality Supervisor



Genk, Belgium

10/10/2016