



Norbord NV
Eikelaarstraat 33
3600 Genk
Belgium

DoP ref: NGOSB3DoPv3

EN 13986:2004 +A1:2015

1161

O8

E1

OSB3

6mm to 32mm

Structural use in humid conditions

Essential characteristics	Performance													
	6 to 10		>10 to <18		18 to 25		>25 to 32		15 T&G 600/400/300mm		18 T&G 600mm		22 T&G 600mm	
Thickness range	0	90	0	90	0	90	0	90	0 - 90		0 - 90		0-90	
Characteristic Strength (N/mm ²)														
- Bending	18.0	9.0	16.4	8.2	14.8	7.4	NPD	NPD	16.4	8.2	14.8	7.4	14.8	7.4
- Compression	15.9	12.9	15.4	12.7	14.8	12.4	NPD	NPD	15.4	12.7	14.8	12.4	14.8	12.4
- Tension	9.9	7.2	9.4	7.0	9.0	6.8	NPD	NPD	9.4	7.0	9.0	6.8	9.0	6.8
- Panel Shear	6.8		6.8		6.8		NPD		6.8		6.8		6.8	
- Planar shear	1.0		1.0		1.0		NPD		1.0		1.0		1.0	
Mean Stiffness (MOE) (N/mm ²)														
- Tension	3800	3000	3800	3000	3800	3000	NPD	NPD	3800	3000	3800	3000	3800	3000
- Compression	3800	3000	3800	3000	3800	3000	NPD	NPD	3800	3000	3800	3000	3800	3000
- Bending	4930	1980	4930	1980	4930	1980	NPD	NPD	4930	1980	4930	1980	4930	1980
- Panel Shear	1080		1080		1080		NPD		1080		1080		1080	
- PlanarShear	50		50		50		NPD		50		50		50	
Characteristic strength under point load F _{max,k} (kN) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD		1.68/1.85/1.78		2.25		3.04	
Mean stiffness under point load, R (N/mm ²) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD		190/333/514		269		445	
Characteristic serviceability strength under point load F _{ser,k} (kN)	NPD		NPD		NPD		NPD		1.67/1.71/1.78		2.20		2.81	

(for floors and roofs)							
Racking resistance (for walls)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Soft Body Impact resistance Floors/Roofs Walls	NPD	NPD	NPD	NPD	Pass Floor	Pass Floor	Pass Floor
Reaction to fire	NPD	D-s2,d0	D-s2,d0	D-s2,d0	Dfl-s1	Dfl-s1	Dfl-s1
Water vapour permeability μ	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Release of formaldehyde	E1	E1	E1	E1	E1	E1	E1
Release (content) of pentachlorophenol (PCP)	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm
Airborne sound insulation (surface mass) (R)	NPD	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	0.1
Sound absorption Frequency range 1000Hz to 2000Hz (α)	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Thermal conductivity λ	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Durability							
Internal bond (N/mm^2)	0.34	0.32	0.30	0.29	0.32	0.32	0.30
Swelling in thickness (%)	15	15	15	15	15	15	15
Moisture resistance Internal bond after boil test (%)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Internal bond after cyclic test (N/mm^2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Bending strength after cyclic test – major axis (N/mm^2)	9	8	7	6	8	8	7
Mechanical (Creep k_{def}) Service class 1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Mechanical (Creep k_{def}) Service class 2	2.25	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	0.4	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

