



Norbord NV  
Eikelaarstraat 33  
3600 Genk  
Belgium

DoP ref: NGOSB2DoPV3

EN 13986:2004 +A1:2015

1161

08

E1

OSB2

6mm to 32mm

Structural use in dry conditions

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
<b>Characteristic Strength (N/mm<sup>2</sup>)</b>										
- 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	
<b>Mean Stiffness (MOE) (N/mm<sup>2</sup>)</b>										
- 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	
<b>Characteristic strength under point load <math>F_{max,k}</math> (kN) (for floors and roofs)</b>	NPD		NPD		NPD		NPD		NPD	
<b>Mean stiffness under point load, R (N/mm<sup>2</sup>) (for floors and roofs)</b>	NPD		NPD		NPD		NPD		NPD	
<b>Characteristic serviceability strength under point load <math>F_{Ser,k}</math> (kN) (for floors and roofs)</b>	NPD		NPD		NPD		NPD		NPD	
<b>Soft Body Impact resistance Floor/roofs Walls</b>	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 $\mu$	NPD	NPD	NPD	NPD	NPD
Release of formaldehyde	E1	E1	E1	E1	E1
Release (content) of pentachlorophenol (PCP)	$\leq 5\text{ppm}$	$\leq 5\text{ppm}$	$\leq 5\text{ppm}$	$\leq 5\text{ppm}$	$\leq 5\text{ppm}$
Airborne sound insulation (surface mass) (R)	NPD	NPD	NPD	NPD	NPD
Sound absorption Frequency range 250Hz to 500Hz ( $\alpha$ )	0.1	0.1	0.1	0.1	0.1
Sound absorption Frequency range 1000Hz to 2000Hz ( $\alpha$ )	0.25	0.25	0.25	0.25	0.25
Thermal conductivity $\lambda$	0.13	0.13	0.13	0.13	0.13
<b>Durability</b>					
Internal bond ( $\text{N}/\text{mm}^2$ )	0.34	0.32	0.30	0.29	0.26
Swelling in thickness (%)	20	20	20	20	20
Mechanical (Creep $k_{\text{def}}$ ) Service class 1	2.25	2.25	2.25	NPD	NPD
Mechanical (Duration of load $k_{\text{mod}}$ )	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				

Sterkmans Peter

Quality Supervisor



Genk, Belgium

10/10/2016