



Norbord Europe Ltd
 Morayhill
 Dalcross
 Inverness
 Scotland
 IV2 7JQ

DoP ref: **NOSB2DoPv4**

EN 13986:2004+A1:2015

0502

03

E1

OSB2

6mm to 32mm

Structural use in dry conditions

Essential characteristics	Performance									
	6 to 10		>10 to <18		18 to 25		>25 to 32		>32 to 40	
Thickness range	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 values(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) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD		NPD	
Mean stiffness under point load, R (N/mm²) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD		NPD	
Characteristic serviceability strength under point load F_{Ser,k} (kN) <i>(for floors and roofs)</i>	NPD		NPD		NPD		NPD		NPD	
Racking resistance <i>(for walls)</i>	NPD		NPD		NPD		NPD		NPD	
Soft Body Impact resistance Floor/roofs Walls	NPD		NPD		NPD		NPD		NPD	

Racking resistance <i>(for walls)</i>	NPD	NPD	NPD	NPD	NPD
Reaction to fire	NPD	NPD	NPD	NPD	NPD
Water vapour permeability μ	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 (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	NPD	NPD	NPD	NPD	NPD
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	2.25	2.25
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				