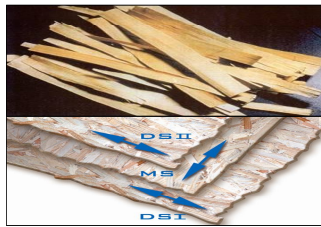


Oriented Strand Board



OSB Strands are flat, longish splints, Oriented™ means the splints are adjusted, A 3-level-structure provides high consistency



Application area : Wood construction and interior decoration

**Smarter surfaces Luxfinish :** Classic standard unsanded, stage press panel with natural surface Bright, natural surface without chemical additives Raw surface possible depending on production process. Surface treatment with lacks, waxes and the clueing of other materials or panels is realisable without complex sanding « Luxfinish » surface offers a more secure handling in roof utilities. More transport safety as packing material.

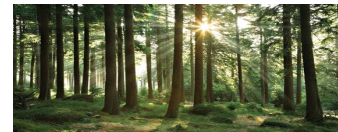
**Smarter surfaces Luxsanded :** sanded surface for smoother finish both sided sanding to avoid surface tension for all decorative uses, OSB sanded offers the best pre-conditions. Sanded surface suits best for lacking and waxing and all further decorative surface treatments. The calibrated surface is the best requirement to receive a permanent clueing safety with other materials / panels. Thickness tolerances can be reduced to a minimum by sanding. For the combination with PVC, linoleum, carpets and floor tiles, the surface has to be sanded. By surface – sanding, OSB fits especially for innovative applications like furniture exhibition building.



**OSB 2**  
EN 300



**OSB 3 PEFC**  
EN 300



**OSB 4 - Nature + PEFC**  
EN 300

panels for carrying purposes and packaging material (dry part only).

Properties	NORMS	UNIT	Thickness (mm)		
			8 - 10	>10 - <12	12 - 25
Density		kg/m³	620	610	590
Bending Strength (parallel to face grain)	EN 310	N/mm²	22	20	18
	EN 310	N/mm²	11	10	9
Modulus of Alsticity (parallel to face grain)	EN 310	N/mm²	3500	3500	3500
	EN 310	N/mm²	1400	1400	1400
Internal bond	EN 319	N/mm²	0.34	0.32	0.30
Internal bond after Boil test EN1087-1	EN 300	N/mm²	-	-	-
Internal bond after cyclictest EN 321	EN 319	N/mm²	-	-	-
Swelling	EN 317	%	≤ 20		
TOLERANCES Thickness luxsanded	EN 324-1	mm	+/- 0.3		
		luxfinish	mm +/- 0.8		
Size	Lenght - width	mm	+/-3		
		Squareness	mm/m 2		
density	EN 323	%	+/- 15	+/- 15	+/- 15
MOISTURE CONTENT	EN 322	%	2 - 12		
FORMALDEHYDE	EN 120		E1 : 8 mg/100 g		

panels for carrying purposes in moisture part (not weather exposed)

Properties	NORMS	UNIT	Thickness (mm)		
			8 - 10	>10 - <15	15 - 25
Density		kg/m³	620	610	590
Bending Strength (parallel to face grain)	EN 310	N/mm²	22	20	18
	EN 310	N/mm²	11	10	9
Modulus of Alsticity (parallel to face grain)	EN 310	N/mm²	3500	3500	3500
	EN 310	N/mm²	1400	1400	1400
Internal bond	EN 319	N/mm²	0.34	0.32	0.30
Internal bond after Boil test EN1087-1	EN 300	N/mm²	0.15	0.13	0.12
Internal bond after cyclictest EN 321	EN 319	N/mm²	0.18	0.15	0.13
Swelling	EN 317	%	≤ 15		
TOLERANCES Thickness luxsanded	EN 324-1	mm	+/- 0.3		
		luxfinish	mm +/- 0.8		
Size	Lenght - width	mm	+/-3		
		Squareness	mm/m 2		
density	EN 323	%	+/- 15	+/- 15	+/- 15
MOISTURE CONTENT	EN 322	%	5 - 12		
FORMALDEHYDE	EN 120		E1 : 8 mg/100 g		

panels for carrying purposes under high pressure (moisture part, not weather exposed)

Properties	NORMS	UNIT	Thickness (mm)			
			8 - 10	>10 - <18	18 - ≤ 25	>25-28
Density		kg/m³	680	660	640	640
Bending Strength (parallel to face grain)	EN 310	N/mm²	30	28	26	24
	EN 310	N/mm²	16	15	14	13
Modulus of Alsticity (parallel to face grain)	EN 310	N/mm²	4800	4800	4800	4800
	EN 310	N/mm²	1900	1900	1900	1900
Internal bond	EN 319	N/mm²	0.50	0.45	0.40	0.35
Internal bond after Boil test EN1087-1	EN 300	N/mm²	0.17	0.15	0.13	0.06
Internal bond after cyclictest EN 321	EN 319	N/mm²	0.21	0.17	0.15	0.10
Swelling	EN 317	%	≤ 12			
TOLERANCES Thickness luxsanded	EN 324-1	mm	+/- 0.3			
		luxfinish	mm +/- 0.8			
Size	Lenght - width	mm	+/-3			
		Squareness	mm/m 2			
density	EN 323	%	+/- 15	+/- 15	+/- 15	+/- 15
MOISTURE CONTENT	EN 322	%	5 - 12			
FORMALDEHYDE	EN 120		E1 - Nature+ : ≤ 2mg/100g			

Physical characteristics and typical board performance

Wood-based panel Class 1			
Reaction to fire	EN 1398t	D - s2 , d0 / D <sub>F1</sub> - S1	
Thermal conductivity λ	DIN 52612	λ = 0.12 W/mK	
Vapour diffusion resistance factor μ	OSB 2	30 < μ < 50	

Wood-based panel Class 2			
Reaction to fire	EN 1398t	D - s2 , d0 / D <sub>F1</sub> - S1	
Thermal conductivity λ	DIN 52612	λ = 0.12 W/mK	
Vapour diffusion resistance factor μ	OSB 3	64 < μ < 107	

Wood-based panel Class 2			
Reaction to fire	EN 1398t	D - s2 , d0 / D <sub>F1</sub> - S1	
Thermal conductivity λ	DIN 52612	λ = 0.12 W/mK	
Vapour diffusion resistance factor μ	OSB 4	135 < μ < 300	

LOAD SUFFICIENT TABLE FOR OSB2-3 AND OSB4 BOARDS FROM KRONOSPAN APPLIED IN CONJUNCTION WITH EUROCODE 5.

**Floorplate Element**  
Point load (p) of 200daN and relative deflection (f) to L/400  
Modulus of elasticity and contrains according with EN 12369-1  
1/3 short-term loads (less than one week)

Loads (in daN/m2)	Inter-joyce distance (in cm)						
	40	45	50	55	60	65	70
<i>Thickness of the panel OSB 2 in dry conditions and OSB 3 in humid conditions (in mm)</i>							
150	15	15	18	19	22	22	25
200	15	18	18	22	22	25	28
250	16	18	22	22	25	28	28
300	18	19	22	25	25	28	
<i>Thickness of the panel OSB 4 in humid conditions (in mm)</i>							
150	15	15	15	18	18	22	22
200	15	15	18	18	22	22	25
250	15	18	18	22	22	25	25
300	15	18	22	22	22	25	

**Roof support**  
Point load (p) of 100daN and relative deflection (f) to L/300  
Modulus of elasticity and contrains according with EN 12369-1  
1/3 short-term loads (less than one week)

Loads (en daN/m2)	Inter-joyce distance (in mm)				
	60	70	80	90	100
<i>Thickness of the panel OSB 3 in humid conditions (in mm)</i>					
100	15	15	18	18	22
150	15	18	22	25	25
200	16	18	22	25	28
<i>Thickness of the panel OSB 4 in humid conditions (in mm)</i>					
100	15	15	15	18	18
150	15	15	18	18	22
200	15	15	18	18	22