



**OSB Climate**

Substrates Collection

OSB Climate is manufactured entirely in compliance with the current demand for healthy living spaces focused on organic and environmentally friendly materials. Its mechanical strength and water resistance is the same or exceeds the properties of plywood.

Thickness  
Dimensions

9 / 12 / 15 / 18 mm  
1220 × 2440 mm

Characteristics



**Super E0**  
**No Added Formaldehyde**  
Wood strands are adhered together using a formaldehyde-free binder.



**H3 Limited External**  
Suitable for interior spaces with high humidity and areas prone to water exposure but not in direct contact with moisture.

Technical  
Specifications

**General Requirements for Oriented Strand Boards**

Properties		Test Method	Requirement
Tolerance on Nominal Dimensions	Thickness	EN 324-1	± 0.3 mm
	Length/Width		± 0.3 mm
Squareness Tolerance		EN 324-2	2 mm/m
Tolerance of Density		EN 323	± 15%
Formaldehyde Release		EN 717-1	< 0.03 ppm

## OSB/2 for Load-bearing Use in Dry Conditions

Properties		Test Method	Unit	Thickness (mm, nominal dimension)			
				8 to 10	> 10 to 18	> 18 to 25	> 25 to 30
Bending Strength	Major axis	EN 310	N/mm <sup>2</sup>	22	20	18	16
	Minor axis			11	10	9	8
Modulus of Elasticity	Major axis	EN310	N/mm <sup>2</sup>	3500	3500	3500	3500
	Minor axis			1400	1400	1400	1400
Internal Bond		EN319	N/mm <sup>2</sup>	0.34	0.32	0.29	0.26
Swelling in thickness after 24 hours		EN 317	%	20	20	20	20

## OSB/3 for Load-bearing Use in Humid Conditions

Properties		Test Method	Unit	Thickness (mm, nominal dimension)			
				8 to 10	> 10 to 18	> 18 to 25	> 25 to 30
Bending Strength	Major axis	EN 310	N/mm <sup>2</sup>	22	20	18	16
	Minor axis			11	10	9	8
Modulus of Elasticity	Major axis	EN310	N/mm <sup>2</sup>	3500	3500	3500	3500
	Minor axis			1400	1400	1400	1400
Internal Bond		EN 319	N/mm <sup>2</sup>	0.34	0.32	0.29	0.26
	After Boil <sup>2</sup>	EN 321		0.15	0.13	0.12	0.06
	After Cyclic Test <sup>3</sup>	EN 321		0.18	0.15	0.13	0.10
Bending Strength after cyclic test main axis 1		EN 1087-1		9	8	7	6
Swelling in thickness after 24 hours		EN 317	%	20	20	20	20

## OSB Climate Application Areas

<b>Furniture and Woodworking</b>	
Lamination of Surface Elements (Melamine, Laminates and Foils)	
Spray Painting	
Easy processing with woodworking tools	•
Excellent grip of fasteners (Screws, nails and staples)	•
Decorative Surface	•
Attractive Edges	
Homogeneous Appearance Throughout	

<b>Building and Structural Applications</b>	
High Moisture and Humidity Resistance	H3
Increased Fire Safety Regulations	*
Termite Resistance	*
Climate Sensitive Applications (Ultra Low VOC)	•
Horizontal Load-bearing Applications	•
Non Load-bearing Walls, Partitions and Ceilings	•
Formwork	

<b>Other Technical and Industrial Applications</b>	
Door production with increased fire safety regulations	*
Suitable for use in marine vessels	
Temporary Outdoor Exhibitions	•
Packaging Industry	•
Signage and Billboards	•
Warehouse Management (Racking)	•

• Recommended    \* Option Available