



# OSB 3 ECOBOARD

The universal OSB panel

## DESCRIPTION

OSB 3 ECOBOARD is a high-performance wood-based panel which complies with EN 300/EN 13986. It is available in multiple formats with a tongue and groove profile on all 4 sides or with butt edges, with a Contiface surface (treated, not sanded) or in a sanded surface version. OSB 3 offers excellent results in the construction sector and can be used as a multipurpose panel for structural purposes and for load-bearing and in roof, wall and floor areas. It can be used as an airtight layer or vapour barrier in a vapour permeable construction, so that the use of additional veneer is unnecessary.

- OSB panel for load-bearing purposes in humid conditions (service class 1 + 2)
- High strength and stability
- Suitable as an airtight layer or vapour barrier
- Non-detrimental to health - independent confirmation that it is safe to use with foodstuffs
- Abrasion-resistant, dirt and water-repellent Contiface surface
- Formaldehyde-free and moisture-proof gluing
- High quality confirmed by regular, external inspections
- Raw material exclusively from responsible forest and timber industry

## PROPERTIES



DURABILITY



VERSATILITY



VERY LOW EMISSIONS



MOISTURE RESISTANT



LOAD-BEARING

## APPLICATIONS

- Floor construction
- Wall cladding
- Structural wall elements and roof panelling
- Housing, industrial and formwork construction
- Transport packaging



FLOORING



FOR PANELING



FOR CONSTRUCTION

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## TECHNICAL DATA

PROPERTIES	UNIT	THICKNESS RANGE (mm)			
		6 - 10	> 10 - < 18	18 - 25	> 25 - 32
Bulk density	Kg/m <sup>3</sup>	≥ 600			
Rated thermal conductivity λ <sub>R</sub>	W/(m*K)	0.13			
Formaldehyde emission	Class	E1 - formaldehyde-free glued (<0.03 ppm)			
Fire reaction	Class	D-s2, d0 *1			
Thickness swelling (24 hours)	%	15			
Change in length per 1% change in moisture content	%	0.03			
Bending strength - major axis	N/mm <sup>2</sup>	22	20	18	16
Bending strength - minor axis	N/mm <sup>2</sup>	11	10	9	8
Modulus of elasticity (MOE) - major axis	N/mm <sup>2</sup>	3500	3500	3500	3500
Modulus of elasticity (MOE) - minor axis	N/mm <sup>2</sup>	1400	1400	1400	1400
Internal bond	N/mm <sup>2</sup>	0.34	0.32	0.30	0.29
Internal bond after boil test	N/mm <sup>2</sup>	0.15	0.13	0.12	0.06

## CHARACTERISTIC VALUES\*2

PROPERTY	UNIT	THICKNESS (mm)	BENDING f <sub>m</sub>		TENSION f <sub>t</sub>		COMPRESSION f <sub>c</sub>		PANEL SHEAR f <sub>v</sub>	PANEL SHEAR f <sub>v</sub>
			or 0	⊥ or 90	or 0	⊥ or 90	or 0	⊥ or 90		
STRENGTH	N/mm <sup>2</sup>	6 - 10	18.0	9.0	9.9	7.2	15.9	12.9	6.8	1.0
		> 10 - 18	16.4	8.2	9.4	7.0	15.4	12.7		
		> 18 - 25	14.8	7.4	9.0	6.8	14.8	12.4		
PROPERTY	UNIT	THICKNESS (mm)	BENDING f <sub>m</sub>		TENSION f <sub>t</sub>		COMPRESSION f <sub>c</sub>		PANEL SHEAR G <sub>v</sub>	PANEL SHEAR G <sub>v</sub>
			or 0	⊥ or 90	or 0	⊥ or 90	or 0	⊥ or 90		
STIFFNESS	N/mm <sup>2</sup>	6 - 25	4930	1980	3800	3000	3800	3000	1080	50

\*1 for thicknesses of 9 mm or more; for thicknesses of 6 to 9 mm: fire reaction Class E; \*2 acc. to EN 12369-1.

## ALSO AVAILABLE IN:

## CERTIFICATIONS:



Promoting  
Sustainable Forest  
Management  
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