

Wood substitute innovation

which meets the demand
and environmentally friendly

- ✓ Able to die cut
- ✓ Smell is not pungent
- ✓ Cheap
- ✓ Good density

Lanna  OSB



LANNA OSB

LANNA OSB (Oriented Strand Board) - Is made from hardwood which is thin and long that combined as layers with different grain direction by using special glue and resin. Then, press with high temperature and heat.

Wood substitute innovation which meets the demand and environmental friendly for residents to participate in the environmental conservation and have balance life which close to the nature.



Product sizes available			
ProductGlabe	Emission/glue	Size (mm.)	Thickness (mm.)
interior Technical class : OSB2	PMDI	1220x2440	9,12,15,18
Eterior Technical class : OSB3	PMDI	1220x2440	9,12,15,18

Remark :
OSB2 = structural (non-load bearing) use in dry conditions
OSB3 = structural (load bearing) use in humid conditions (where moisture is present)

Formaldehyde Enission

Formaldenhyde Emission (mg/L)	EN120 (European Standard)	JAS (Japanese Agricultural Standard)
≤ 1.5	PMDI	F**
≤ 0.5	PMDI	F***
≤ 0.3	PMDI	F****

*Anti-Mold OSB (PMDI g lue) will be added in the future

Lanna OSB application

LANNA OSB (Oriented Strand Board)



Lanna OSB properties

- Tough, high flexible, can resist shear and pressure, and stronger than other plywood 3 times
- The size does not change even in the high-moisture condition
- Anti Mold&insect
- Easy to install and can be used with any tools
- The surface can be well adhere with cement, stone, brick, vinyl, and other material



Subroof

Lanna OSB 9,12,15 mm resists moisture and mold as exterior material (E0 glue)



Packaging

Lanna OSB 9,12,15,18 mm



Subfloor

Lanna OSB 9,12,15 mm resists moisture and mold as exterior material (E0 glue)



Lanna OSB 9,12,15,18 mm.

Interior



Technical specification: Lanna OSB, exterior grade, Anti-moisture&Mold (E0)

According to EN 300

Specification	EN 13986 : 2004	Unit	Standard criteria of exterior model OSB3			Lanna OSB, exterior grade, Anti-moisture&Mold (E0)		
Thickness		mm.	9 mm.	12 mm.	15 mm.	9 mm.	12 mm.	15 mm.
Modulus of Rupture (MOR)	EN 310 : 1993	Newton/m ²	22	22	20	30.1	32.7	29.6
Modulus of Elasticity (MOE)	EN 310 : 1993	Newton/m ²	3500	3500	3500	4511	5271	4032
Tensile strength (perpendicular)	EN 310 : 1993	Newton/m ²	0.34	0.34	0.34	0.91	0.97	0.89
Swelling ratio (24 hours)	EN 310 : 1993	%	15	15	15	7.7	8.3	6.4
Moisture resistance	EN 1087-1 : 1995	Newton/m ²	0.15	0.15	0.15	0.17	0.2	0.18
Density	EN 323	kg./m ³	-	-	-	711	693	718
Formaldehyde Emission	EN120 : E0	ml./l	≤ 0.3	≤ 0.3	≤ 0.3	< 0.1	< 0.1	< 0.1
Fire resistance	EN 13986 : 2004	-	-	-	-	D-s2,d0	D-s2,d0	D-s2,d0
Water vapor permeability (WVP)	EN 13986 : 2004	Wet cup Dry cup	D	D	D	30u 50u	30u 50u	30u 50u
Heat conductivity	EN 13986 : 2004	Wet cup	-	-	-	0.13	0.13	0.13

Finishing

Painting and COATING	Interior wall/furniture	Interior floor
Painting system	Interior lacquer paint/Polyurethane paint/Wood dye paint	Epoxy paint or Polyurethane paint
Clear coat (show grain)	Spray lacquer/Clear Polyurethane	Clear epoxy paint, Clear Polyurethane

Installation



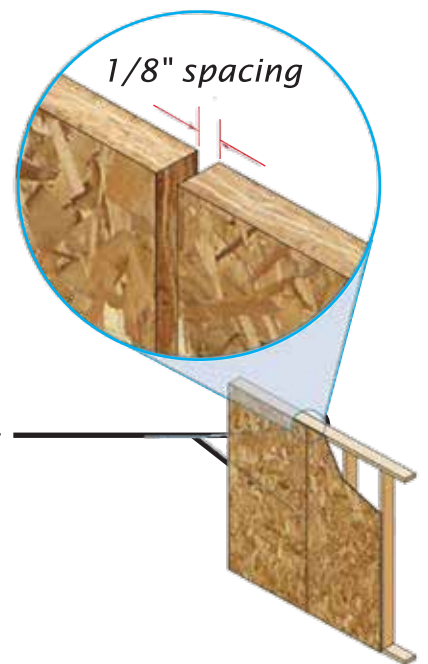
Screw fixing : Drilling screw or screw thread are advised

Board fixing : Screw at the edge should be away from the edge of 8 mm. and away from the corner of the board at least 25 mm.



Installation : To prevent the expansion of the moisture according to the standard of AAA, each board should be fixed on the same frame and the spacing should be 3 mm.

EXAMPLE OF EDGE AND END JOINTS

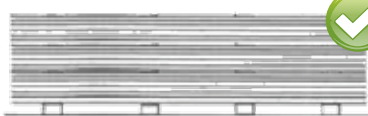


Edge and End Joints : 1/8" spacing is recommended at all panel edge joints unless otherwise recommended by the manufacturer.

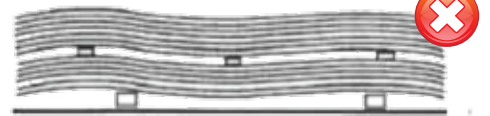
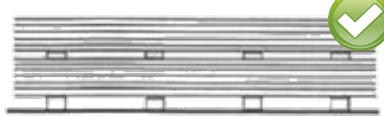
Storage

Lanna OSB should be stored on palettes which can be moved by a forklift. It should be stored indoor to prevent the moisture before the installation. If it needs to be stored outdoor, it should be covered completely.

Palette arrangement is important. To prevent the board to bend, the spacing of each palette should be at least 60 cm. 2,440mm board should be stored on 4 palette.



Correct method of stacking OSB



Incorrect method of stacking OSB



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