

Technical Specs

- *Excellent for construction use.*
- *Strength and stiffness.*
- *Exceptional resistance to moisture.*
- *High thermal and acoustic insulation.*
- *Optional results for exterior and interior uses.*

TECHNICAL PROPOSAL FOR ITS USE

This **Panel** has great strength and structural stability and is ideal for many interior and exterior uses. Faces and backs are not sanded and accept open defects (open knots and cracks according to the international grading standards). Faces are always of a higher quality than backs.

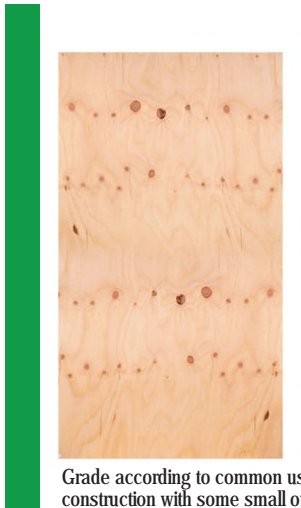
CHARACTERISTIC

Tulsa **Pine Plywood** is constructed using 100% plantation Radiata Pine veneers that have been sorted according to the following American PS 1-95 standard face grades.

Panels are constructed by gluing veneers together perpendicularly, with the face grain always being in the long direction. Tulsa always uses uneven numbers of plies to reach the best stability and strength resistance.

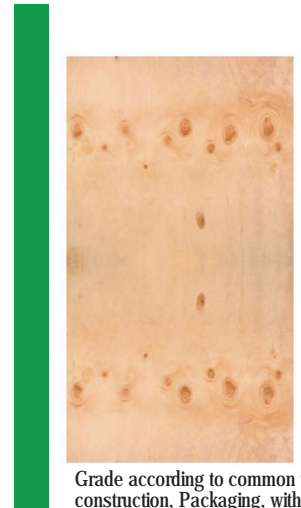
The grade used for face/backs: **C/C - C/D** **CD P & TS** **Underlayment T&G**

Grade C



Grade according to common use for construction with some small open defects.

Grade D



Grade according to common use for construction, Packaging, with some open and tight knots.

Structural Pine

C/C - C/D

CD P & TS

Underlayment T&G

Veneer & Plywood
TULSA
Tulipas & Contrachapados



Grade P&TS



grade according to common use for construction with sanded faces and without some open, tight knots and some small open defects synthetically repaired, and / or with wood in its faces.

Grade Underlayment T&G



Tongues & groove panels are appropriate for the use in floor underlayment and packaging with sanded faces, tight knot with defects synthetically repaired and / or wood in its faces.

Tongues & Groove Panels



Structural Pine

C/C - C/D

CD P & TS

Underlayment T&G

Veneer & Plywood
TULSA
Tulipas & Contrachapados



SIZES

Thickness:

- 9 mm = 11 / 32"
- 12 mm = 15 / 32"
- 15 mm = 19 / 32"
- 18 mm = 23 / 32"

Dimensions:

- Width 1,22 mt = 4"
- Length 2,44 mt = 8"

RECOMMENDED USES

- Exterior Siding
- Roof and Wall sheathing
- Floors underlayment
- Packing
-

HUMIDITY

During manufacturing, panel humidity is controlled and stabilized to 8%.

THERMAL INSULATION

Tulsa Pine Plywood are excellent for use as exterior sheathing or for interior panels due to their low thermal conductivity coefficient ($k=10/\text{cal}\cdot\text{m}/\text{m}^2\text{ h}^\circ\text{C}$).

QUALITY CERTIFICATION

Tulsa Pine Panels are certified by the American company TECO and fulfill the standards set in American PS 1-95 norm.

ADHESIVES

Tulsa Standard Panels are produced using phenolic resins with low polluting emission in accordance to European E-1 norm. This allows outdoor uses with an exceptional resistance to moisture without causing environmental pollution when used in interior applications.

Structural Pine

C/C - C/D

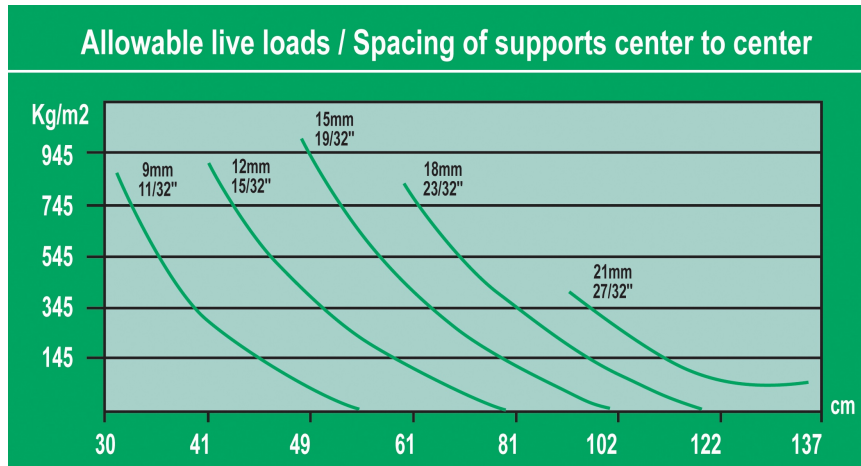
CD P & TS

Underlayment T&G

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GRAPHIC



Panel Sizes and Tolerance			
Format		Tolerance	
Length	2.44 mm - 8"	+ 0; - 1,6 mm	
Width	1.22 mm - 4"	+ 0; - 1,6 mm	
Thickness	9 a 25 mm - 11/32" a 1"	Sanded	$\pm 0; 4 \text{ mm} \leq 19 \text{ mm}$
			$\pm 3.0 \% > 19 \text{ mm}$
		Not Sanded	$\pm 0,8 \text{ mm} < 20,5 \text{ mm}$
			$\pm 50 \% \geq 20,6 \text{ mm}$

Panel General Information								
Thickness	N° Piles	N° Panels Bundle	Weight Panel / kg	Grs / cm ³ Density	MOR Kg / cm ²		MOE Kg / cm ²	
9 mm - 11/32"	3	108	13	463	922	865	190.279	147.652
12 mm - 15/32"	5	80	17	468	635	644	123.834	191.715
15 mm - 19/32"	5	65	22	492	712	698	114.623	187.659
18 mm - 23/32"	7	54	26	476	758	897	198.364	324.422
21 mm - 27/32"	7	46	31	495	812	707	214.597	175.637