

**DURAPine**



# A PROVEN ALTERNATIVE TO HARD WOOD



The rising demand for timber in construction and a constant diminution of our forestry resources has led the wood industry with no choice but to find alternative solutions to the traditional hardwood used in carpentry.

For more than 25 years, Pressure Treated Timber has been used successfully in all parts of the world, where some have similar or harder weather constraints than we have in Mauritius.

If left natural, the timber greys uniformly, but it can be varnished, tinted or even painted allowing for a large range of finishes.

Woodstock has carefully selected the best wood essence and possible treatment for your future projects.



This type of wood is ideal for the construction of verandas, pergolas, deck joist, roof structures, garages, garden fences, etc...



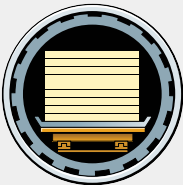
# ABOUT DURAPine WOOD

Our Sylvester pine (*Pinus sylvestrus*) timber is harvested in the cold Northern European Forests. The extreme weather conditions and slow growth time allows for a very dense and straight material. Sylvester pine is receptive to a range of penetrative treatment options. This means that we can chemically protect the timber for its intended use. Unlike hardwoods which usually cannot accept a penetrative treatment. All of our timber is FSC certified meaning that all trees are managed in an environmentally sustainable fashion.

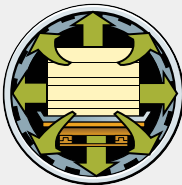


## DURAPine TREATMENT PROCESS & CLASSIFICATION

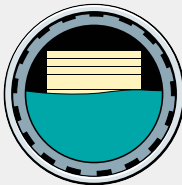
In order to obtain the Class 4 certification under European Construction Standard CTB-B+, the timber has to go through a pressure treatment process, also known as Autoclave, as demonstrated below. The result is a very strong and durable material ideal for our tropical conditions.



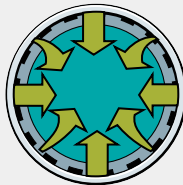
The timber is transferred into the treatment vessel.



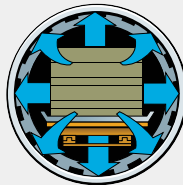
A vacuum pulls the air out of the vessel.



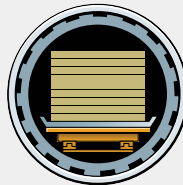
Celcure preservative fills the vessel.



The vessel is pressurised forcing the preservative into the timber.



The preservative is removed and final vacuum is applied removing excess.



The timber has now been preserved with Celcure preservative.

## CLASS 4 HAZARD / USE OF WOOD EXPOSURE

1	2	3.1	3.2	4
Interior, entirely protected from the weather, not exposed to wetting	Interior or under cover protected from the weather, occasional, not continuous wetting (condensation)	No contact with the ground, subjected to frequent wetting over short periods. Completely dries out between two periods of wetting	No contact with the ground, subjected to frequent wetting over long periods, but not continuous. Completely dries out between two periods of wetting	Exterior in contact with the ground or a surface subjected to recurrent wetting or immersion in fresh water, design conducive to significant water retention, leading to very significant wetting



### CERTIFICATION

CTB-B+ treated timber ensures the structure is resistant to wood-boring insects and wood-rotting fungi. CTB-B+ is the guarantee for the implementation of quality treatment validated by FCBA and a controlled impregnation process.

## OUR DURAPine IS CELCURE-C4

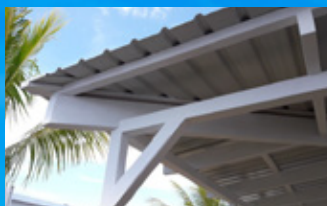
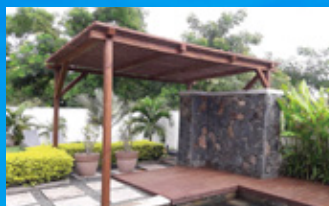
### The Durable Choice for Timber Projects

Celcurised Timber is the industry recognised term for timber that has been preserved with Koppers Performance Chemicals Celcure® brand preservative system, based on an effective combination of copper and organic co-biocides. With more than 25 years of empirical evidence in locations throughout Europe, North America, Australia and the Caribbean, Celcure® preservatives have a proven track record of performance.

Pressure treated to force the preservative deep into the wood structure, it provides protection where it matters. Timber treated using this system is suitable for Use Classes UC1, UC2, UC3 and UC4, including fencing, timber decking, landscaping timbers and construction timbers.



Performance Chemicals





# AVAILABLE SECTIONS

Other sections available on demand



DURAPine S4S  
Pressure Treated CTBB+  
(Class 4)

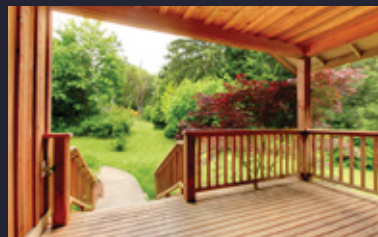
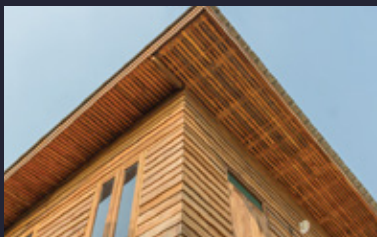
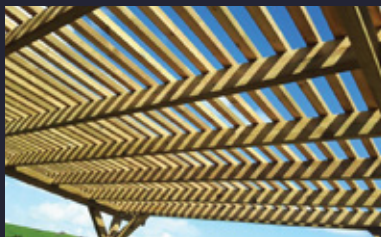
SECTIONS (mm)	LENGTH (mm)
	
38 x 38	From 3,000 to 5,950
45 x 45	
45 x 145	
45 x 220	
70 x 70	
70 x 220	
95 x 95	
95 x 195	
28 x 95	From 3,000 to 5,950
21 x 145	From 3,000 to 5,950

## DURAPine • (Class 4) CTBB+



Wood Class C24	Strength Properties (in N/mm²)					
	Bending	Tension Parallel	Tension Perpendicular	Compression Parallel	Compression Perpendicular	Shear
	$f_{m,k}$	$f_{t,0,k}$	$f_{t,90,k}$	$f_{c,0,k}$	$f_{c,90,k}$	$f_{v,k}$
	24	14	0.4	21	2.5	4

Wood Class C24	Strength Properties (in KN/mm²)				Density (in kg/m³)	Density (in kg/m³)
	Mean modulus of elasticity parallel	5% modulus of elasticity parallel	Mean modulus of elasticity perpendicular	Mean shear modulus	$\rho_k$	$\rho_{mean}$
	$E_{0,mean}$	$E_{0,05}$	$E_{90,mean}$	$G_{mean}$		
	11	7.4	0.37	0.69	350	420



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