

# FINGER JOINTED BOARDS

Genuine Apitong, Keruing



## ENGINEERED FOR SUPERIOR DURABILITY

Apitong is a durable, high-strength hardwood used in the construction of tractor trailer floors. Finger-jointed apitong is made by joining shorter pieces of wood with a structurally rated adhesive, that is rigorously tested to ensure that the material meets or exceeds the properties of solid Apitong.

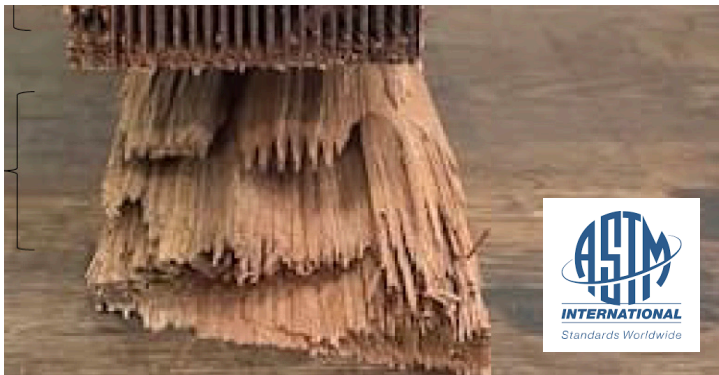
Nova's finger-jointed Apitong is no exception. All of our finger-jointed Apitong meets or exceeds ASTM-D5572, which subjects the material to an extreme combination of room temperature water soaking, hot water soaking, vacuum pressure soaking, submersion in boiling water, and convection air drying followed by destructive mechanical testing.

ASTM-D5572 states: Adhesives that meet the requirements of the various performance classes are considered capable of providing an adequate bond for use under the conditions described for the class. This specification is to be used to evaluate adhesives as well as the adhesive bonds in the finger joints.

Summary statistics from Nova's 3rd party tested finger-jointed Apitong can be found in the table below.

Sample	Dimension (cm)			Breaking load (kg)	Bending strength (kg/cm <sup>2</sup> )	Fiber pull (%)
	L	b	h			
A1	60.0	9.3	2.5	630	650.3	80
A2	60.0	9.3	2.5	910	939.4	80
A3	60.0	9.3	2.5	1000	1032.3	60
A4	60.0	9.3	2.5	960	991.0	85
A5	60.0	9.3	2.5	760	784.5	50
A6	60.0	9.3	2.5	800	825.8	95
Average					870.6	75
Standard PASS requirement					>138	-

**Conclusion: Nova's finger-jointed Apitong exceeds the bending strength required by ASTM-D5572**



Typical fiber pull observed in finger-jointed Apitong, which demonstrates excellent bond performance.

## BENEFITS OF FINGER-JOINTED APITONG

Finger-jointed apitong offers many advantages over solid wood, including increased stability, reduced warping, and the ability to utilize smaller pieces of wood efficiently, while maintaining strength and durability.

- **Durability & Strength:** Solid Apitong is durable, but it is more prone to splitting and warping due to fluctuations in moisture and temperature. The absence of joints can create weak points if defects are present.
- **Dimensionally Stable:** Highly resistant to warping due to the joining process which allows stress to be distributed uniformly.
- **Improved Flexibility:** Solid Apitong lacks this flexibility and can be more prone to cracking under pressure, especially in trailers that experience heavy impacts or rough conditions.
- **Length Structure:** Bonding shorter pieces together allows for longer length boards that are free of defects.



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