

ChloroStrand

ChloroStrand is an environmentally responsible sorghum panel for the design and building markets. It is a greener, more attractive panel compared to traditional oriented strand board.

ChloroStrand Market:

Furniture – Commercial, Retail

Construction – Cabinets, Door Cores, Modular Construction

ChloroStrand Test Data: Bend and Internal Bond testing

Product	MOE (psi)	MOR (psi)	Internal Bond (psi)
5-ply plywood*	920,000	5,000	
Oriented Strand Board*	840,000	5,000	50
ChloroStrand**	988,000	5,000	51

- Source – American Plywood Association

**Source – Washington State University

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ChloroStrand Technical Specifications:

	Imperial	Metric
Modules of Rupture	2,610-3.625 psi	18-25 N/mm ²
Modules of Elasticity	362,594 - 580,150 psi	2,500-4,000 N/mm ²
Internal Bond	greater than 72.5 psi	greater than 5.0 Bar
Screw holding Edge	134 pound-force	600 N
Flame Retardance	*	Class B1
Moisture Content	*	Less than 5%

Release of Formaldehyde	*	0.0 mg/L
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Loss of Sound	*	35 dB
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Freeze-Thaw	*	200 cycles, no damage
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Thermoconductivity	*	0.12
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Standard Thickness	3/8, 3/4, and 1-1/8 inch	10, 20, and 30mm
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Standard Length	4 ft x 8 ft	1.2 m x 2.4 m
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Category	Modules of Rupture	Modules of Elasticity	Internal Bond	Screw holding Edge	Formaldehyde
Untis	psi	psi	psi	lbs	ppm
Chloro Fill	2,600-3,625	362,594-580,150	72.5+	134	0
LD-1	435	79,800	15	NS	0.30
M-1	1,595	250,200	58	NS	0.30
H-1	2,393	348,100	130	298	0.30
H-3	3,408	398,900			