



# Plybam™

## Bamboo Plywood



Horizontal grain: Carbonized (amber)



Horizontal grain: Natural (blond)

## PLYBAM

A Greenmaker Industries exclusive, Plybam is a plywood made from 100% bamboo, a rapidly renewable resource. Bamboo is a type of grass that can be harvested every 5 to 6 years. Greenmaker Industries uses only the highest quality Moso bamboo in making Plybam.

## WHY USE PLYBAM?

Bamboo is naturally stronger and more dimensionally stable than wood, making it perfect for use in countertops, shelving, cabinetry, and cutting boards in residential and commercial applications. Bamboo (natural) is rated 1380 on the Janka Hardness scale, making it harder than Red Oak (1290) and White Oak (1360).

## HANDLING

Bamboo plywood looks and feels unlike any other wood; it can be sawn, sanded, routed, and stained just like standard plywood.

## STYLES

Plybam comes in several styles (all unfinished):

- Vertical grain: Natural (blond)
- Vertical grain: Carbonized (amber)
- Horizontal grain: Natural (blond)
- Strand woven: Natural (blond)
- Strand woven: Carbonized (amber)
- Strand woven: Tiger (mixture)
- Horizontal grain: Carbonized (amber)

## SIZES

Vertical & Horizontal grain:

Natural (blond) & Carbonized (amber)

4' x 8' (1/2", 3/4", 1 3/5")

Strand woven:

Natural (blond), Carbonized (amber),

Tiger (amber)

3' x 6' (1/4", 1/2", 3/4")

## ADHESIVE / BINDER

Plybam is laminated into a 3-ply board using low emitting adhesives which meet E1 standards. Call to inquire about special-order plywood made to E0 standards (8-12 week lead time).

## STORAGE

- Store at 32 - 95°F (0 - 35°C) in a DRY room or warehouse.

## TECHNICAL SPECIFICATIONS

### ASTM D 3043 Method D Flexural Strength (MOE/MOR):

*3/4" thick 3-ply Edge Grain:*

179 MOE / 11,371 MOR

*3/4" thick 3-ply Cross Core:*

148 MOE / 9,109 MOR

### ASTM D 1037 Screw Hold:

*3/4" thick 3-ply Edge Grain:*

Face: 261 lbs

Back: 233 lbs

Edge 1: 513 lbs

Edge 2: 636 lbs

*3/4" thick 3-ply Cross Core:*

Face: 1009 lbs

Back: 681 lbs

Edge 1: 361 lbs

Edge 2: 670 lbs

### ASTM D 4442 Method A Moisture Content:

*3/4" thick 3-ply Edge Grain:* 7.8%

*3/4" thick 3-ply Cross Core:* 8.9%

## LEED® ELIGIBILITY

Plybam may contribute points in these categories:

LEED® MR Credit 6 - Rapidly Renewable Materials

LEED® EQ Credit 4 - Low-emitting Materials

### ASTM D 1037 Tensile Strength Parallel:

*3/4" thick 3-ply Edge Grain:*

Load 1700 lbs / Strength 7535 psi

*3/4" thick 3-ply Cross Core:*

Load 892 lbs / Strength 3547 psi

### ASTM D 3500 Tensile Strength Perpendicular:

*3/4" thick 3-ply Edge Grain:*

Load 642 lbs / Strength 428 psi

*3/4" thick 3-ply Cross Core:*

Load 1536 lbs / Strength 1024 psi

### ASTM D 1037 Dimensional Stability at 20% RH:

*3/4" thick 3-ply Edge Grain:*

Linear Expansion:

Parallel -0.04% / Perpendicular -0.10%

Thickness Swell: 0.13%

*3/4" thick 3-ply Cross Core:*

Linear Expansion:

Parallel -0.09% / Perpendicular -0.07%

Thickness Swell: -0.39%

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