



Material Specifications

Horizontal/Vertical Natural and Carbonized Bamboo

Given Color Names:	Chamois (Natural), Caramel (Carbonized)
Material:	100% Mature Moso Bamboo Resin: Dynea (non-toxic and water resistant) <i>(Bambusoideae)</i>
Standard Sizes:	75-1/2" & 37-3/4" x 5/8" with micro beveled edges, tongue and groove
Finish:	Nine coats UV cured Acrylic Treffert System with a 25 year residential warranty and 5 year commercial warranty. The underside also contains one coat of finish.
Fire Rating:	ASTM E-648 Critical Radiant Flux, Class 1
Hardness:	ASTM D1037, Janka Ball Hardness Test 1,700 lbf
Dimensional Stability:	ASTM D1037 (90% relative humidity) Linear expansion - .06% Thickness swell 2.7%
Compressive Strength Testing:	ASTM D 3501 Compressive Strength 1,948 PSI – Ultimate Load 18,267 lb/pd
Moisture Content:	ASTM D 4442 7-9 %
Formaldehyde Emissions:	<.02 ppm as tested by an independent laboratory in the USA.
Installation:	Nail or Glue down installation is recommended.
Recommended Adhesives:	Bostik's Best® or Bostik's TKO® This adhesive meets the emission requirements of U.S. OSHA and European E0.

LEED® Credits:

Credit MR6 - Rapidly Renewable Materials: Bamboo flooring manufacturer's product data for each product used, indicating that product(s) are manufactured from a rapidly renewable resource.

Credit EQ 4.1 - Low-Emitting Materials, Adhesives and Sealants: Manufacturer's product data.

Credit EQ 4.4 - No added formaldehyde



Formaldehyde Emissions Test Data

Test No.: F-9647

LARGE CHAMBER FORMALDEHYDE EMISSIONS TEST FOR RESEARCH & DEVELOPMENT CARB (CALIFORNIA AIR RESOURCES BOARD) PRODUCT SCREENING

The testing followed the procedures described in the ASTM Standard E1333-96 (2002), "Standard Test Method for Determining Formaldehyde Concentrations in the Air and Emission Rates from Wood Products Using a Large Chamber." After conditioning at $77 \pm 5^\circ\text{F}$ and $50 \pm 5\%$ RH for 168 ± 3 hr, the samples were placed in a 810 cu. ft. chamber with positive air pressure and an air change rate of $0.5 \pm 0.05/\text{hr}$. Samples remained in the chamber for 16 to 20 hr; air sample measurements were then taken at a rate of 1.0 L/min. for 60 min. The formaldehyde air ratio was determined with a Bausch & Lomb Spectronic 20 Spectrophotometer. Final values, corrected to standard condition of 77°F temperature and 50% RH, are reported below as standard parts per million (ppm). The test results are compared to CARB Regulation 93120, Table 1, Phase 1 (eff. 1/1/2009), for the specific product type submitted.

PRODUCT DATA	
Manufacturer Green Choice Flooring International	Date Manufactured: n/a
Mill Number: n/a	P. O. Number: n/a
Substrate Thickness: n/a	Substrate material: bamboo
Overlay Thickness: n/a	Overlay Material: n/a
Specifics: 5/8" bamboo	
TEST DATA	
Test Date: 9/19/2008	
Conditioning Dates: 9/11/2008 – 9/18/2008	
Chamber Temperature: $77 \pm 2^\circ\text{F}$	
Chamber Relative Humidity: $47 \pm 4\%$	
Chamber Background Formaldehyde Level <0.02 ppm	
Make-up Air Formaldehyde Level: <0.01ppm	
Chamber Loading Ratio: $0.29 \text{ ft}^2/\text{ft}^3$	
Standard ppm for Port #1 <0.02	Limit (ppm): 0.05
Standard ppm for Port #2 <0.02	Status: Pass
Average: <0.02	