



# Misura



## Case Study: Retail

### Misura, Men's Apparel

**Industry:**  
Retail

**Location:**  
Las Vegas, Nevada

**Architect:**  
Marshall Retail Group

This wonderful retail space was a celebration of the various looks in strand bamboo products. Havana strand bamboo plywood was used on the exterior cladding as well as to the face of decorative support columns of this apparel retailer.

Once inside the store, display areas, shelving and built-in cabinetry were fabricated with Plyboo Neopolitan strand plywood. Neopolitan strand flooring was also used to create a monolith tonal effect in the space. The design was then finished off with custom end grain bamboo veneer covered lighting.

**Possible LEED Credits:**

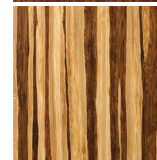
Low emitting materials and certified wood  
Floorscore certified



**Materials Used:**



Havana Strand  
Bamboo Plywood  
BP-4872PD-NAUF /FSC



Neopolitan Strand  
Bamboo Plywood  
BP-4872NEO-NAUF /FSC



Neopolitan Strand  
Bamboo Flooring  
FL-P3836NEO-NAUF /FSC

### Physical / Mechanical Properties - Strand Bamboo Plywood

Dimensions:	3/4" x 48" x 96" 19mm x 1219mm x 2438mm (*mm tolerance +/- .5mm thickness)
Construction:	Three-ply, cross core construction.
Working with Plyboo:	A worksheet is provided with each panel containing useful tips and information and is also available on our website at <a href="http://plyboo.com/downloads">plyboo.com/downloads</a> .
ASTM E84: Surface Burning	Class C
ASTM D1037: Dimensional Stability	<ul style="list-style-type: none"> <li>•Linear Expansion (3-ply): Parallel -0.09% / Perpendicular -0.07%</li> <li>•Thickness Swell (3-ply): -0.3%</li> </ul> Screw Hold (3-ply) (face/back/edge) <ul style="list-style-type: none"> <li>• 1009lbs/ 681 lbs/ 516 lbs average</li> </ul>
ASTM D4442: Moisture Content	6-9% average
ASTM D 6007-02: Formaldehyde Concentration in Air from Wood Products, small chamber test	Plyboo = 0.004 ppm (surpasses CARB II standards, 0.05ppm & ULEF standards of 0.04ppm)

### Physical / Mechanical Properties - Stiletto Strand Bamboo Flooring

Dimensions:	9/16" x 5" x 72" - 14mm x 125mm x 1830mm
Installation:	Click-lock over pad
ASTM E648:Critical Radiant Flux:	Class 1
ASTM D1037: Dimensional Stability	Linear Expansion: Parallel -0.02%, Perpendicular -0.23%, Thickness Swell -0.25%, Hardness (Janka Ball Test): 3500 lbf average
ASTM D2394: Coefficient of Friction	Static Coefficient/Dynamic (Sliding) Coefficient: 0.562/ 0.497
ASTM 4442: Moisture Content	6-9% average
ASTM D5116: Organic Emission (CA Section 01350)	Classroom scenario/Office scenario: Pass/Pass

### Physical / Mechanical Properties - PlybooQuiet System

Dimensions	3mm x 36" x 33' 1/2" (100 sqft per roll)
ASTM E989: Sound Impact Insulation	IIC 72 (over 6" concrete/6" fiberglass)
ASTM D3676: Density Pounds/cubic foot	18.9 lbs/ft <sup>3</sup>
Compression Resistance, PSI	Compression Resistance: @25% - 23.3 psi @30% - 37.0 psi @50% - 219.6 psi
ASTM D5116: Organic Emission (CA Section 01350)	Classroom scenario/Office scenario: Pass/Pass
DOC-FF 170: Flammability	Passed