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 plyboo.com/downloads.

**ASTM E84: Surface Burning**  
Class C

**ASTM D1037: Dimensional Stability**  
- Linear Expansion (3-ply): Parallel -0.09% / Perpendicular -0.07%  
- Thickness Swell (3-ply): -0.3%

  Screw Hold (3-ply) (face/back/edge)  
  - 1009lbs / 681 lbs / 516 lbs average

**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/ft³

**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