



## Case Study: Commercial

### Mt. Vernon School

**Industry:**  
Athletic Court

**Location:**  
Atlanta, Georgia

**Architect:**  
Mt. Vernon School

Who wouldn't get in shape on this beautiful installation of a PlybooSport floating floor sport court. It is rated for high sport performance, has a beautiful continuous color-much more so than maple or birch and is easy to maintain.

"The players love the cushion it gives when running and jumping. We haven't lost many games on our home court! Maybe it's because of the floor and not my coaching!"

**- Coach Berry**  
*Former Basketball Pro - Chicago Bulls*



#### Materials Used:



PlybooSport Natural  
Edge Grain Bamboo  
Flooring  
FL-V34 72SFN-NAUF / FSC



## Specifications

### Possible LEED Credits:

Low emitting materials and certified wood  
 Floorscore Certified



### Physical / Mechanical Properties - PlybooSport Flooring

Dimensions:	3/4" x 2 1/4" x 72" - 19mm x 55mm x 1830mm
Installation:	Floating kresilient, resilient sleeper or fixed resilient
ASTM E648:Critical Radiant Flux:	Class 1
ASTM D1037: Dimensional Stability	Linear Expansion: Parallel -0.04%, Perpendicular -0.10%, Thickness Swell -0.13%, Hardness (Janka Ball Test): 1750 lbf average
ASTM 4442: Moisture Content	6-9% average
ASTM D5116: Organic Emission (CA Section 01350)	Classroom scenario/Office scenario: mnb v
EN 14904 BS-EN 14904 DIN 18032-2 (Order of results: Average)	i. Multi-Use W • Ball Rebound: 96% average • Force Reduction: 54% average • Vertical Deflection: 2.8mm average • Area Indentation: 15% average • Rolling Load (1500N; 337 lbf): Pass ii. Pro B • Ball Rebound 97% average • Force Reduction: 46% average • Vertical Deformation: 2.1mm average • Rolling Load (1500N, 337 lbf): Pass iii. Soft Touch Y • Ball Rebound: 90% average • Force Reduction: 62% average • Vertical Deformation: 3.5mm average • Rolling Load (1500N; 337 lbf): Pass

### Physical / Mechanical Properties - PlybooSport Underlayment System

Dimensions	1/4" x 4' x 50' - 1 lb/sqft
ASTM E492: Sound Impact Insulation	54 (over 6" concrete)
ASTM E989: Sound Impact Insulation	58 (over 6" concrete/6" fiberglass)
ASTM D3676: Density Pounds/cubic foot	45lbs/ft <sup>3</sup>
ASTM D2240: Durometer	45 +/- 2 Shore A Hardness
ASTM D5116: VOC's Closed Chamber 1.0m +/- .05 m/3	SCQQMD
DOC-FF 170: Flammability	Passed