



Case Study: Athletic

YMCA

Industry:
Athletic Court

Location:
San Francisco, CA

Architect:
YMCA

Materials Used:



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

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. PlybooSport was also utilized in the fitness room with a PlybooFit™ sports underlayment system. PlybooFit helps alleviate friction stress that can prematurely tire active legs.



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 ³
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