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Case Study: Recreation

Singing Hills

Industry:
Recreation Center

Location:
Dallas, Texas

Architect:
City of Dallas

The City of Dallas Parks and Recreation chose PlybooSport for their Singing Hills Recreation center. The installation was so successful, they decided to install bamboo in their other six centers.

"PlybooSport has a consistent, appealing visual (brighter than maple), its formaldehyde free content pushes forward our mission to promote healthier lifestyles within the community, and the rapidly renewable properties of bamboo are well-aligned with the [city's] green initiatives." says Stefan Kesler, Project Manager, City of Dallas.

Three other centers are now complete with the remainder scheduled for completion in 2013.

Materials Used:

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

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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 filxed 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 ASTM E989: Sound Impact Insulation	54 (over 6" concrete) 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