

SPECIFICATIONS

Sport Flooring

SPORT FLOORING SPECIFICATIONS:

We are basing specifications on *Ecore Athletic Performance* Rolls. The two rolls based in the specifications for this project are the *Ecore Performance Rally* Roll, and the *Ecore Monster* Roll. These rolls have ASTM testing and results. All bids must meet the minimum test methods, shown below. Equivalentents will be considered, as long as they meet minimum testing methods and results:

1. Multi-Use Flooring (Rally Roll)

Project square footage: 7,560 sq-ft

12mm – 4735 Underlayment / 2.5 mm Surface Wear Layer

30% color fleck options

Performance Criteria	Test Method	Result
-Tensile Strength	ASTM D 412	>200 PSI
-Flexibility ¼" mandrel	ASTM F 137	Pass
-Thermal Conductivity	ASTM C 518	>0.4"
-Static Load Limit	ASTM F 970 @ 250PSI	0.009" Typical
-Coefficient of Friction	ASTM D 2047	> 0.9
-V.O.C. Compliant	ASTM D 5116	Yes
-Color Stability	ASTM F-1515	Good
-Chemical Resistance	ASTM F-925	Good
-Abrasion Resistance	ASTM D 3389 / EN 649	<1g, 100 cycle
-Resistance to Heat	ASTM F 1514	Δ E <8.0
-Pill Test	ASTM D 2859	Pass
-Vertical Deflection / Deformation	ASTM F 2772	2.66 mm
-Surface Effect Slip Resistance	ASTM F 2772	Pass
-Ball Rebound	ASTM F 2772	98.8%
-Force Reduction	ASTM F 2772	35.7%
-Sheet Dimension	Manufacturer	4' width by custom length. Minimum Length 25LF
-Standard Tolerance Width	Manufacturer	+ ¾" – 0"
-Standard Tolerance Length	Manufacturer	+ 1% - 0"
-Standard Tolerance Thickness	Manufacturer	+ .6 mm
-Standard Sheet Weight	Manufacturer	2.34 lbs/sf

2. Weight Room/Free Weight Flooring (Monster Roll)

Project square footage: 1,080 sq-ft

8mm 8032 underlayment / 2.5 mm EPDM surface wear layer,
field-united to a 12mm 4735 Base Layer

Total system thickness 22.5mm

30% color fleck options

Performance Criteria	Test Method	Result
Tensile Strength	ASTM D 412	200 psi min
Flexibility ¼" mandrel	ASTM F 137	Pass
Thermal Conductivity	ASTM C 518	1.3 Btu-in/h-ft-F
Static Load Limit	ASTM F 970 @ 250PSI	0.025"
Coefficient of Friction	ASTM D 2047	>0.8
V.O.C. Compliant	ASTM D 5116	Yes
Color Stability	ASTM F-1515	Δ E <8.0
Chemical Resistance	ASTM F-925	Pass
Abrasion Resistance	ASTM D 3389 / EN649	<1g, 100 cycle
Resistance to Heat	ASTM F 1514	Δ E <8.0
Pill Test	ASTM D 2859	Pass
Vertical Deflection / Deformation	ASTM F 2772	1.6 mm Pass
Surface Effect Slip Resistance	ASTM F 2772	Pass
Ball Rebound	ASTM F 2772	100 %
Force Reduction	ASTM F 2772	40%
Sheet Dimension	Manufacturer	4' wide by custom length. Minimum length 25LF
Standard Tolerance Width	Manufacturer	+3/4" -0"
Standard Tolerance Length	Manufacturer	+1% -0"
Standard Tolerance Thickness	Manufacturer	+ .6 mm
Monster Roll with 8mm	Manufacturer	2.4 lbs/sf
Wear Layer Weight		
12mm Underlayment Weight	Manufacturer	1.7 lbs/sf
Total Sheet Weight	Manufacturer	4.1 lbs/sf

3. Polyurethane Adhesive

Project Square Footage: 9,000 sq-ft coverage

One-component urethane moisture cured, non-sag permanently elastic adhesive that has excellent adhesion to elastomers, concrete, and wood and is engineered for indoor and outdoor applications.

ASTM Guidelines

1. ASTM D412: Test method used to evaluate the tensile (tension) properties of rubber.
2. ASTM F137: Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus.
3. ASTM C518: Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
4. ASTM D2047: Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as measured by the James Machine.
5. ASTM D2859: Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials.
6. ASTM D5116: Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products.
7. ASTM D3389: Standard Test Method for Coated Fabrics Abrasion Resistance.
8. ASTM F970: Standard Test Method for Static Load Limit.
9. ASTM F1514: Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color Change.
10. ASTM F1515: Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change

11. ASTM F925: Standard Test Method for Resistance to Chemicals of Resilient Flooring
12. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
13. ASTM F2753: Standard Practice to Evaluate the Effect of Dynamic Rolling Load over Resilient Floor Covering System.
14. ASTM F710: Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
15. ASTM F2772: Standard Specification for Athletic Performance Properties of Indoor Sports Floors.

END OF SECTION