

TECHNICAL SPECIFICATIONS SPORT MAT FLOORING

1. PRODUCT NAME

Sport Mat Flooring

2. MANUFACTURER

Dinoflex Group Limited Partnership P.O. Box 3309 5590 – 46th Ave. S.E. Salmon Arm, B.C. Canada V1E 4S1

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3. PRODUCT DESCRIPTION

Composition & Materials

DINOFLEX Sport Mat Flooring is formulated from a combination of 100% post-consumer recycled black SBR (styrene butadiene rubber), and/or EPDM (ethylene propylene diene monomer) rubber, and polyurethane binder.

DINOFLEX Recycled Rubber Tiles are FloorScore^(R) certified under the criteria developed by the Resilient Floor Covering Institute (RFCI) and certified by Scientific Certification Systems (SCS), Inc. Registration # SCS-FS-02144.

Special Considerations:

- Fitness Centers: recommend minimum 8mm thickness interlocking Sport Mat Flooring, no adhesive required.
- Ice Arena Applications: recommend minimum 10mm thickness square cut, fully adhered, Sport Mat Flooring
 for all areas excluding players boxes and walk off areas. DINOMAT recommended for these areas.

 Stone Line and Elite Line are not recommended for ice arena applications.
- Golf Course Applications: recommend minimum 8mm thickness, Sport Mat Flooring for all areas excluding high pivot zones. DINOMAT product recommended for these areas.
- **Ski Resort Applications**: recommend minimum 8mm thickness rubber square cut, fully adhered, Sport Mat Flooring for all indoor areas. DINOMAT product recommended for outdoor areas.
- Elite Line: not suitable for heavy use areas.

Product Information:

Square cut (glued down installation) $38" \times 38" = 10.02 \text{ ft}^2$ $96.5 \text{ cm} \times 96.5 \text{ cm} = 0.93 \text{ m}^2$			Interlock (no adhesive required) 37" x 37" = 9.5 ft ² 94 cm x 94 cm = 0.88 m ²			
THICKNESS			-	THICKNESS		
*4 mm	5/32"			8 mm	5/16"	
*6 mm	1/4"			10 mm	3/8"	
8 mm	5/16"			12 mm	1/2 "	
10 mm	3/8"		-			-
12 mm	1/2 "					
* Glue down installation recommended.						

NOTE:

- 1. All measurements are subject to nominal variation.
- 2. Thickness tolerance of ± 0.5 mm.

Colors - EPDM color granules may be added to the black SBR to provide color and design ("speckled").

STANDARD COLORS 10%, 30%, 50% SPECKLING INTENSITY	Two Color Combinations	GRANITE FLEX LINE	STONE LINE	ELITE LINE	DÉCOR COLLECTION
 RED GREEN BLUE GREY BEIGE PURPLE TURQUOISE BROWN 	10% BLUE/GREY 10% BLUE/GREEN 10% BEIGE/GREY 10% TURQUOISE/GREY 10% RED/GREY 10% TURQUOISE/PURPLE	 RED RED/GREY RED/BEIGE GREEN GREEN/BEIGE GREEN/BEIGE GREY/GREY GREY/BEIGE 	SEA STONE/BLUE SEA STONE/GREEN SEA STONE/TURQUOISE EARTH STONE/BEIGE EARTH STONE/ORANGE EARTH STONE/RED	TUSCANY GREY GILBRALTAR GREY SAHARA BEIGE SUNSET RED TROPICAL GREEN MEDITERRANEAN BLUE	AZTEK EMPIRE DEEP SEA INDEPENDENCE MAYAN SANDS NIGHT SKY LUNAR SHOWERS

4. DESIGN & BASIC USE

Sport Mat Flooring is designed for use in sport and commercial facilities. Excellent impact and sound absorbing qualities make it ideal for use in fitness and ski facilities. It is resistant to skate and spike traffic, thus performs well in ice arenas, locker rooms and golf courses. The extreme durability of this product results in flooring that will outlast the alternatives making it the product of choice for high use facilities.

Uses are not limited to the above.

Please contact DINOFLEX for information on custom designed logos.

Limitations

The following chemicals may cause damage to the surface and should be avoided: kerosene, solvents, grease, auto oil, vegetable oil/fat, and highly concentrated acids and bases.

This product is not suitable for service environments that have heavy vehicular traffic, rolling or sliding machinery, or similar uses unless fully adhered.

5. INSTALLATION METHODS

a) Square style - fully adhered, use DINOFLEX recommended adhesives. See adhesive manufacturers' recommendation for moisture tolerance.

b) Interlock style - loose lay, no adhesive required. For indoor use, no moisture present, no rolling loads.

Refer to DINOFLEX **Sport Mat Flooring Installation & Maintenance Guidelines** for information relating to sub-surfaces listed:

- Concrete sub-surface
- 2) Wooden sub-surface

NOTE: SPORT MAT FLOORING, SQUARE CUT OR INTERLOCK, SHOULD NOT BE LAID ON TOP OF CARPET AS THE FLOOR WILL SHIFT AND MOVE.

6. TECHNICAL DATA

Test Standards for: American Society for Testing and Materials (ASTM)

- AATCC 134-06 Electrostatic Propensity of Flooring Material
- ASTM C501 Standard Test Method for Relative Resistance to Wear of Rubber Tile by the Taber Abraser.
- **ASTM D2047** Standard Test Method for Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.
- ASTM D2240 Standard Test Method for Rubber Property-Durometer Hardness.
- ASTM D3676 Standard Specification for Density Rubber Cellular Cushion Used for Carpet or Rug Underlay.
- ASTM D395B Standard Test Methods for Rubber Property-Compression Set.
- ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
- **ASTM D5116** Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products. (V.O.C.)
- ASTM E648-97 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
- ASTM F137-03 Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus
- ASTM F150 Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring.
- ASTM F1914-98 Standard Test Method for Short-Term Indentation and Residual Indentation of Resilient Floor Covering
- ASTM F925-97 Standard Test Method for Resistance to Chemicals of Resilient Flooring.
- ASTM F970-87 Standard Test Method for Static Load Limit.
- ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- Phillips Roll Chair Test Method for Numeric Rating of Surface Structure.
- California Specification 01350 (CHPS Compliant for VOC Emissions) -Emission tests are performed following
 California Dept. of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using
 Small-Scale Environmental Chambers, CA/DHS/EHLRB/R-174, 07/15/04 (http://www.caliaq.org/VOC/Section01350_7_15_2004_FINAL_PLUS_ADDENDUM-2004-01.pdf).

Physical / Chemical Properties

A) <u>STANDARD COLORS</u>: 100% black, 10%, 30%, 50% EPDM speckle, 2-color combinations, Granite Flex Line, & Décor Collection.

TEST PROCEDURE	DESCRIPTION	ACHIEVED VALUES (Subject to nominal variation)
AATCC 134-06 ASTM C501	Electrostatic Propensity Taber Abrasion (H-22)	POS 1.6 KV 0.8% wt. Loss
ASTM D2047	Static Coefficient of Friction (James Machine method)	Dry 1.04, Wet 1.05
ASTM D2240	Hardness Shore A Durometer	64 Indentation hardness
ASTM D3676	Density Foam Test Summary	66.0 lbs/cu. ft.
ASTM D395B	Compression Set Under Force	96.3% recovered
ASTM D412	Tensile Strength	290.2 lbs/sq. in.
ASTM D5116	Material Emissions – VOC	Pass
ASTM E648	Critical Radiant Flux	Call Dinoflex for results
ASTM F137	Flexibility	6mm Mandrel PASSES

Electrical Resistance - Burroughs ASTM F150 (NFPA 99) 10¹⁰ ohms average 10¹⁰ ohms average Surface to Surface Surface to Ground Short Term Indentation .025 inch (6.0%) Loss ASTM F1914-98 ASTM F1914-98 Residual Indentation .007 inch (1.7%) Loss ASTM F970-87 .000 inch (0.0%) residual Static Load compression ASTM F925-97 **Chemical Resistance** 5% acetic acid No change 70% isopropyl alcohol No change Mineral oil No change 5% sodium hydroxide No change 5% hydrochloric acid No change 5% ammonia No change Bleach No change 5% phenol No change Gasoline No change Kerosene Slight Sulphuric acid No change Olive Oil No change No Mildew after 14 days ASTM G21 Mold Growth on Surface **Other Tests:** Phillips Roll Chair Test Structure - no change VOC Emissions - Section 01350 CA 01350 **Pass**

B) STONE LINE: Earth Stone and Sea Stone

TEST PROCEDURE	DESCRIPTION	ACHIEVED VALUES (Subject to nominal variation)
ASTM D2047 ASTM D2240 ASTM D3676 ASTM D395B ASTM D412 ASTM D5116 ASTM F137 ASTM E648 ASTM F150 (NFPA 99)	Static Coefficient of Friction (James Machine method) Hardness Shore A Durometer Density Foam Test Summary Compression Set Under Force Tensile Strength Material Emissions – VOC Flexibility Critical Radiant Flux Electrical Resistance – Burroughs	Dry .81, Wet .90 62 Indentation hardness 77.7 lbs/cu. ft. 95.3% recovered 292.2 lbs/sq. in. Pass 6mm Mandrel PASSES Call Dinoflex for results
ASTM F970-87	Surface to SurfaceSurface to GroundStatic Load	10 ¹¹ ohms average 10 ¹¹ ohms average .030 inch (7.3%) residual compression
ASTM F925-97 ASTM G21	Chemical Resistance 5% acetic acid 70% isopropyl alcohol Mineral oil 5% sodium hydroxide 5% hydrochloric acid 5% ammonia Bleach 5% phenol Gasoline Kerosene Sulphuric acid Olive Oil Mold Growth on Surface	No change
CA 01350	VOC Emissions – Section 01350	No Mildew after 28 days Pass

C) ELITE LINE: Sunset Red, Mediterranean Blue, Gibraltar Grey, Tropical Green, Sahara Beige, Tuscany Grey.

TEST PROCEDURE	<u>DESCRIPTION</u>	ACHIEVED VALUES (Subject to nominal variation)
ASTM C501	Taber Abrasion (H-22)	4.0% wt. Loss
ASTM D2047	Static Coefficient of Friction (James Machine method)	Dry .85, Wet 1.01
ASTM D2240	Hardness Shore A Durometer	59 Indentation hardness
ASTM D3676	Density Foam Test Summary	78.3 lbs/cu. ft.
ASTM D395B	Compression Set Under Force	94.7% recovered
ASTM D412	Tensile Strength	186.1 lbs/sq. in.
ASTM E648	Critical Radiant Flux	Call Dinoflex for results
ASTM F137	Flexibility	6mm Mandrel PASSES
ASTM F150 (NFPA 99)	Electrical Resistance – Burroughs	
	 Surface to Surface 	10 ¹¹ ohms average
	 Surface to Ground 	10 ¹¹ ohms average
ASTM F970-87	Static Load	.042 inch (10.6%) residual
		Compression
ASTM G21	Mold Growth on Surface	No Mildew after 28 days
CA 01350	VOC Emissions – Section 01350	Pass

Copies of test reports and additional product information are available upon request.

7. INSTALLATION & MAINTENANCE PROCEDURES

Use a qualified or certified installer with experience installing similar recycled rubber flooring products. Refer to Dinoflex Group Limited Partnership "Sport Mat Flooring Installation & Maintenance Guidelines".

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8. AVAILABILITY & COST

Availability

Please, contact the dealer, distributor, or Dinoflex for information on availability.

Cost

Pricing information may be obtained from dealer, distributor, or Dinoflex

9. WARRANTY

The standard warranty period is 10 years from date of shipment. Please, see DINOFLEX's limited warranty for particulars of coverage.

10. TECHNICAL SERVICES

Contact Dinoflex for more information, where our trained customer service personnel offer design assistance and technical support.

11. FILING SYSTEMS

- SPORT MAT FLOORING Architect Binder (Division 9)
- www.dinoflex.com