



## DINO FLEX Group Limited Partnership

### TECHNICAL SPECIFICATIONS

### THE EVOLUTION OF RUBBER TILE

#### 1. PRODUCT NAME

- The Evolution of Rubber Tile - Commercial Flooring

#### 2. MANUFACTURER

DINO FLEX Group Limited Partnership  
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[www.dinoflex.com](http://www.dinoflex.com)

#### 3. PRODUCT DESCRIPTION

##### Composition & Materials

DINO FLEX Commercial 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.

##### Special Considerations:

- High color products not recommended for sport applications.
- In areas with heavy rolling loads, a minimum of 6mm glue down product is recommended.
- Not suitable in areas where pallet jacks are used.
- Taski Vision sealer recommended for use in difficult to clean areas.
- Not suitable for use in food preparation zones.

##### Product Information:

<p><b><u>Square cut (glue down installation)</u></b>            38" x 38" = 10.02 ft<sup>2</sup>            96.5 cm x 96.5 cm = 0.93 m<sup>2</sup></p> <p><b>THICKNESS</b></p> <table border="1"> <tbody> <tr> <td>4 mm</td> <td>5/32"</td> </tr> <tr> <td>6 mm</td> <td>1/4"</td> </tr> <tr> <td>8 mm</td> <td>5/16"</td> </tr> <tr> <td>10 mm</td> <td>3/8"</td> </tr> <tr> <td>12 mm</td> <td>1/2 "</td> </tr> </tbody> </table>	4 mm	5/32"	6 mm	1/4"	8 mm	5/16"	10 mm	3/8"	12 mm	1/2 "	<p><b><u>Interlock (no glue required)</u></b>            37" x 37" = 9.5 ft<sup>2</sup>            94 cm x 94 cm = 0.88 m<sup>2</sup></p> <p><b>THICKNESS</b></p> <table border="1"> <tbody> <tr> <td>6 mm</td> <td>1/4"</td> </tr> <tr> <td>8 mm</td> <td>5/16"</td> </tr> <tr> <td>10 mm</td> <td>3/8"</td> </tr> <tr> <td>12 mm</td> <td>1/2 "</td> </tr> </tbody> </table>	6 mm	1/4"	8 mm	5/16"	10 mm	3/8"	12 mm	1/2 "
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##### NOTE:

- All measurements are subject to nominal variation.
- Thickness tolerance of  $\pm 0.5$  mm.

**Colors:**

See brochure for **THE EVOLUTION** OF RUBBER TILE color collection.

- 24 standard colors
- custom colors available, minimum quantities apply

**4. DESIGN & BASIC USE**

DINOFLEX Commercial Flooring is designed for use in retail and commercial applications. Excellent impact and sound absorbing qualities make it ideal for corporate offices, libraries, and retail establishments. The extreme durability of this product results in flooring that will outlast the alternatives making it the product of choice for high use commercial facilities.

*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**

- Square style** - fully adhered, use DINOFLEX recommended adhesives. See adhesive manufacturers' recommendation for moisture tolerance.
- Interlock style** – loose lay, no adhesive required. For indoor use, no moisture present, no rolling loads.

Refer to **THE EVOLUTION** OF RUBBER TILE **Installation & Maintenance Guidelines** for information relating to sub-surfaces listed:

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

**NOTE: DINOFLEX Commercial 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 by: 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.

**Physical / Chemical Properties****A) THE EVOLUTION OF RUBBER TILE: Up to 50% Color**

<b><u>TEST PROCEDURE</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ACHIEVED VALUES</u></b> (Subject to nominal variation)
AATCC 134-06 ASTM C501 ASTM D2047	Electrostatic Propensity Taber Abrasion (H-22) Static Coefficient of Friction (James Machine method)	POS 1.6 KV 0.8% wt. Loss Dry 1.04, Wet 1.05
ASTM D2240 ASTM D3676 ASTM D395B ASTM D412 ASTM D5116 ASTM E648-97 (New York Test Procedure) ASTM F137-03 ASTM F150 (NFPA 99)	Hardness Shore A Durometer Density Foam Test Summary Compression Set Under Force Tensile Strength Material Emissions – VOC Critical Radiant Flux Flexibility Electrical Resistance – Burroughs - Surface to Surface - Surface to Ground	64 Indentation hardness 66 lbs/cu. ft. 96% recovered 290 lbs/sq. in. Pass Class II 6mm Mandrel PASSES 10 <sup>10</sup> ohms average 10 <sup>10</sup> ohms average
ASTM F1914-98 ASTM F1914-98 ASTM F970-87	Short Term Indentation Residual Indentation Static Load	.025 inch (6.0%) Loss .007 inch (1.7%) Loss .000 inch (0.0%) residual compression
ASTM F925-97	<b><u>Chemical Resistance</u></b> • 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	No change No change No change No change No change No change No change No change Slight No change No change No change
ASTM G21 <b><u>Other Tests:</u></b>	Mold Growth on Surface Phillips Roll Chair Test	No Mildew after 14 days Structure – no change

**B) THE EVOLUTION OF RUBBER TILE: Over 50% Color**

<b><u>TEST PROCEDURE</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ACHIEVED VALUES</u></b> (Subject to nominal variation)
ASTM C501 ASTM D2047	Taber Abrasion (H-22) Static Coefficient of Friction (James Machine method)	4% wt. Loss Dry .85, Wet 1.01
ASTM D2240 ASTM D3676 ASTM D395B ASTM D412 ASTM E648-97 (New York Test Procedure) ASTM F137-03 ASTM F150 (NFPA 99)	Hardness Shore A Durometer Density Foam Test Summary Compression Set Under Force Tensile Strength Critical Radiant Flux Flexibility Electrical Resistance – Burroughs - Surface to Surface - Surface to Ground	59 Indentation hardness 78 lbs/cu. ft. 95% recovered 186 lbs/sq. in. Class I 6mm Mandrel PASSES 10 <sup>11</sup> ohms average 10 <sup>11</sup> ohms average
ASTM F970-87	Static Load	.042 inch (10.6%) residual compression
ASTM F925-97	<b><u>Chemical Resistance</u></b> • 5% acetic acid • 70% isopropyl alcohol • Mineral oil	No change No change 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	No change
• Sulphuric acid	No change
• Olive Oil	No change
ASTM G21 Mold Growth on Surface	No Mildew after 28 days

### CA 01350 COMPLIANT

Standardized Environment	Room Volume (m3)	Air Change Rate (1/h)	Ventilated Volume Fraction	Flooring Area (m2)	Summary of Results
Classroom	231	0.9	0.9	89.2	Product meets VOC emission criteria
Office	30.6	0.75	0.9	11.1	Product meets VOC emission criteria

*Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, Including Addendum 2004-01.*

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 LP **THE EVOLUTION** OF RUBBER TILE Installation & Maintenance Guidelines”.

- Toll Free Tel: 877-713-1899
- Direct Line: 250-832-7780
- Fax: 250-832-7788
- [www.dinoflex.com](http://www.dinoflex.com)

## 8. AVAILABILITY & COST

### Availability

Please, contact the dealer, distributor, or DINO FLEX Group LP for information on availability.

### Cost

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

## 9. WARRANTY

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

## 10. TECHNICAL SERVICES

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

## 11. FILING SYSTEMS

- **THE EVOLUTION** OF RUBBER TILE Architect Binder (Division 9)
- [www.dinoflex.com](http://www.dinoflex.com)