



DINOFLEX Manufacturing LTD.



TECHNICAL SPECIFICATIONS

THE **EVOLUTION** OF RUBBER TILE

1. PRODUCT NAME

- The Evolution of Rubber Tile - Commercial Flooring

2. MANUFACTURER

DINOFLEX Manufacturing LTD.

P.O. Box 3309

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www.dinoflex.com

3. PRODUCT DESCRIPTION

Composition & Materials

DINOFLEX 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
- Taski Vision sealer recommended for use in difficult to clean areas.
- Not suitable for food preparation areas or hospitals.
- In areas with heavy rolling loads, glue down installation is recommended.

Product Information:

<p>Square cut $38'' \times 38'' = 10.02 \text{ ft}^2$ $96.5 \text{ cm} \times 96.5 \text{ cm} = 0.93 \text{ m}^2$</p> <p>THICKNESS</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> <p>* Glue down installation recommended.</p>	* 4 mm	5/32"	* 6 mm	1/4"	8 mm	5/16"	10 mm	3/8"	12 mm	1/2 "	<p>Interlock $37'' \times 37'' = 9.5 \text{ ft}^2$ $94 \text{ cm} \times 94 \text{ cm} = 0.88 \text{ m}^2$</p> <p>THICKNESS</p> <table border="1"> <tbody> <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>	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 $\pm 0.5 \text{ mm}$.

4. DESIGN & BASIC USE

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

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

5. 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, meeting rooms, and retail establishments. The additional benefits of superior anti-fatigue properties make it the product of choice for many 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.

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

- 1) Concrete sub-surface
- 2) Asphalt sub-surface
- 3) 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.

7. TECHNICAL DATA

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

- **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 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.
- Phillips Roll Chair Test Method for Numeric Rating of Surface Structure.

Physical / Chemical Properties

A) **THE EVOLUTION** OF RUBBER TILE: 10% - 50% Color

<u>TEST PROCEDURE</u>	<u>DESCRIPTION</u>	<u>ACHIEVED VALUES</u> (Subject to nominal variation)
ASTM C501 ASTM D2047	Taber Abrasion (H-22) Static Coefficient of Friction (James Machine method)	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 F150 (NFPA 99)	Hardness Shore A Durometer Density Foam Test Summary Compression Set Under Force Tensile Strength Material Emissions – VOC Critical Radiant Flux 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 10 ¹⁰ ohms average 10 ¹⁰ 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	<u>Chemical Resistance</u> <ul style="list-style-type: none"> • 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
<u>Other Tests:</u>	Phillips Roll Chair Test	Structure – no change

B) **THE EVOLUTION** OF RUBBER TILE: 60% - 100% Color

<u>TEST PROCEDURE</u>	<u>DESCRIPTION</u>	<u>ACHIEVED VALUES</u> (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 F150 (NFPA 99)	Hardness Shore A Durometer Density Foam Test Summary Compression Set Under Force Tensile Strength Critical Radiant Flux Electrical Resistance – Burroughs - Surface to Surface - Surface to Ground	59 Indentation hardness 78 lbs/cu. ft. 95% recovered 186 lbs/sq. in. Class I 10 ¹¹ ohms average 10 ¹¹ ohms average
ASTM F970-87	Static Load	.042 inch (10.6%) residual 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	No change
• Sulphuric acid	No change
• Olive Oil	No change

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

8. INSTALLATION & MAINTENANCE PROCEDURES

Use a qualified or certified installer with experience installing similar recycled rubber flooring products.

Refer to DINO FLEX Manufacturing LTD. **THE EVOLUTION** OF RUBBER TILE Installation & Maintenance Guidelines".

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9. AVAILABILITY & COST

Availability

Please, contact the dealer, distributor, or DINO FLEX Manufacturing LTD. for information on availability.

Cost

Pricing information may be obtained from dealer, distributor, or DINO FLEX Manufacturing LTD.

10. WARRANTY

The standard warranty period is 5 years from date of shipment. Please, see DINO FLEX's limited warranty for particulars of coverage.

11. TECHNICAL SERVICES

Contact DINO FLEX Manufacturing LTD. for more information, where a staff of trained customer service personnel offers design assistance and technical support.

12. FILING SYSTEMS

- **THE EVOLUTION** OF RUBBER TILE Architect Binder (Division 9)
- www.dinoflex.com