



## TECHNICAL SPECIFICATIONS PlayTiles

### 1. PRODUCT NAME

- PlayTiles

### 2. MANUFACTURER

Dinoflex Rubber Reimagined  
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 5590 - 46<sup>th</sup> Ave. S.E.  
 Salmon Arm, B.C. Canada V1E 4S1  
 Tel: 250-832-7780  
 Toll Free: 877-713-1899  
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 E-mail: [sales@dinoflex.com](mailto:sales@dinoflex.com)  
[www.dinoflex.com](http://www.dinoflex.com)

### 3. PRODUCT DESCRIPTION

#### **Composition & Materials**

Dinoflex PlayTile are made from a combination of 100% post-consumer recycled SBR (styrene butadiene rubber), Pigment or EPDM (ethylene propylene diene monomer) rubber, and polyurethane binder. Colored toppings are made from either EPDM granules or SBR granules mixed with pigment. All colored toppings are approximately ½" (12 mm) thick, the SBR granules making up the remainder of the tile.

#### **Dinoflex PlayTiles and accessories:**

- A. PlayTiles come in two sizes and three thicknesses to meet your specific requirements.

<b>Tile Size:</b>	<b>Thickness:</b>	<b>Fall Height:</b>
<b>24" x 24" = 4 ft<sup>2</sup></b> <i>61 cm x 61 cm = 0.37 m<sup>2</sup></i> (2' x 2' square tile)	<ul style="list-style-type: none"> <li>• 1½" / 38 mm</li> <li>• 2¼" / 57 mm</li> </ul>	<ul style="list-style-type: none"> <li>• up to 4 ft.</li> <li>• up to 6 ft.</li> </ul>

**NOTE: All measurements are subject to nominal variation.**

- B. **Wedges** are used around the perimeter of an area to create a transition. They can be adhered to the edge of the tile and/or glued to the sub-surface. Different colored wedges can be used to create a "warning strip".

**Dimensions:**

<b>1½" / 38mm transition wedge:</b>	19½" long x 6" wide = .81 sq. ft. 49.5 cm long x 15.2 cm wide = 0.075 m <sup>2</sup>
<b>2¼" / 57mm transition wedge:</b>	19½" long x 6" wide = .81 sq. ft. 49.5 cm long x 15.2 cm wide = 0.075 m <sup>2</sup>

C. **Corners** designed for use on all 90° angles.

**Dimensions:** (available in outside and inside format)

<b>1½" / 38mm outside corner:</b>	9¾" long (inside edge) x 6" wide = .41 sq. ft. 24.8 cm long x 15.2 cm wide = 0.038 m <sup>2</sup>
<b>1½" / 38mm inside corner:</b>	9¾" long (outside edge) x 6" wide = .41 sq. ft. 24.8 cm long x 15.2 cm wide = 0.038 m <sup>2</sup>
<b>2¼" / 57mm outside corner:</b>	9¾" long (inside edge) x 6" wide = .41 sq. ft. 24.8 cm long x 15.2 cm wide = 0.038 m <sup>2</sup>
<b>2¼" / 57mm inside corner:</b>	9¾" long (outside edge) x 6" wide = .41 sq. ft. 24.8 cm long x 15.2 cm wide = 0.038 m <sup>2</sup>

D. **Wheelchair Ramps** are designed to meet ADA requirements for ramp standards.

**Dimensions:**

<b>2¼" / 57mm wheelchair ramp:</b>	24" long x 39" wide 61 cm long x 99 cm wide
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E. **Half Tiles** are designed so that the area can be installed in a staggered layout.

F. **Finishing Kits** are furnished to fill in cuts around posts and play structure mounts at the end of a project to give a clean finished look.

G. **Interlocking Pins** are 4" long and 5/8" in diameter. These are included with every order, four per tile, there is a nominal charge for the pins.

**COLORS:**

• 100% Black		
<b>Pigment Colors:</b>	• Terra Cotta Red	• Forest Green
	• Stone Beige Pigment	• Teak Brown Pigment
	• Blue Ember	

**Note: Nominal variation in color occurs in all pigmented products. Pigmented tiles are not recommended for high traffic areas because of potential pigment loss.**

<b>Standard Colors:</b>				
<b>25% Speckled EPDM</b>		<b>50% Speckled EPDM</b>		<b>75% Speckled EPDM</b>
• Green	• Red	• Beige	• Orange	
• Blue	• Brown			

**Interlocking Pins:**

The Playground Tiles are supplied with interlocking pins. These are included with every order, four per tile.

**4. DESIGN & BASIC USE**

- a) Dinoflex PlayTile are used outdoors as surfacing around and underneath play structures. Dinoflex PlayTile have been tested for fall height and head impact criteria according to ASTM guidelines and follow the guidelines set up by ADA and CPSC.
- b) Dinoflex PlayTile “interlocking system” which provides an easy, self-aligning installation feature that does not require adhesive.
- c) Dinoflex PlayTiles can be installed over sub-surfaces which include concrete, asphalt, wood, and well compacted granular bases. Other sub-surfaces shall be approved by Dinoflex.
- d) The sub-surface must be evaluated and approved by the installer prior to installation. Specifically, but not exclusively referring to gradient and drainage.

**5. INSTALLATION METHODS**

Refer to Dinoflex PlayTile Installation & Maintenance Guidelines for information relating to sub-surfaces listed:

- 1) Concrete sub-surface
- 2) Asphalt sub-surface
- 3) Wooden sub-surface
- 4) Compacted granular base
  - a) Perimeter containment
  - b) Perimeter gluing or spot gluing
  - c) Total glue down on hard surface or filter cloth
  - d) Compacted granular base

Use adhesives recommended by Dinoflex. Refer to Dinoflex PlayTile Installation & Maintenance Guidelines for more information.

**6. INSTALLATION CONDITIONS**

- a) Lay out all the tiles to be installed the next day on or near the sub-surface. Allow tiles to equalize to average ambient temperature for about 12 hours
- b) Materials shall be protected from weather extreme temperatures, solvents, and sources of damage prior to and during installation.

**7. TECHNICAL DATA****Test Standards for: American Society for Testing and Materials (ASTM)**

- **ASTM C1028** Standard Test Method for Determining the Static Coefficient of Friction by the Horizontal Dynamometer Pull-Meter Method.
- **ASTM F1292-99** Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
- **ASTM E648** Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.

**Physical / Chemical Properties**

<b>Description</b>	<b>Test Method</b>	<b>Results</b>
Freeze / Thaw	ASTM C67	No Obvious Effects
Static Coefficient of Friction	ASTM C1028-96	1.5" - Dry 0.73; Wet 0.81
Static Coefficient of Friction	ASTM C1028-84	2.25 - Dry 0.67; Wet 0.64
Aging Weathering	ASTM D573	No Obvious Effects
Surface Friction	ASTM E303	Wet 0.56
Critical Radiant Flux	ASTM E648-03	0.10 W/sq. cm - 2.25" without Fire Retardant
Critical Radiant Flux	ASTM E648-03	0.93 W/sq. cm 2.25" with 50% Fire Retardant
Critical Radiant Flux	ASTM E648-03	0.95 W/sq. cm - 2.25" with 100% Fire Retardant
Critical Radiant Flux (15 min burn)	ASTM E648-03 NY	0.94 W/sq. cm - 2.25" with 50% Fire Retardant
Critical Radiant Flux (15 min burn)	ASTM E648-03 NY	0.97 W/sq. cm - 2.25 with 100% Fire Retardant
Indoor Field Impact Insulation Class	ASTM E1007	1.5" - FIIC 61
Indoor Field Impact Insulation Class	ASTM E1007	2.25" - FIIC 65
Fall Height	ASTM F1292-09	4 ft - 1.5" tile
Fall Height	ASTM F1292-09	6 ft - 2.25" tile
Fall Height	ASTM F1292-04	7.5 ft - 1.5" tile with 1.25" DinoFall system
Fall Height	ASTM F1292-04	11.5 ft - 1.5" tile with 2.25" DinoFall system
Fall Height	ASTM F1292-04	9 ft - 2.25" tile with 1.25" DinoFall system
Fall Height	ASTM F1292-04	12 ft - 2.25" tile with 2.25" DinoFall system
Mildew Resistance	ASTM G21	21 days - rating of 2 - light growth 28 days - rating of 3 - moderate growth
Wind Uplift	UL 1897	Product shows wind resistance properties
Tiles Under Sunlight		Stone Beige and Teak Brown were coolest

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 surfacing products. Refer to Dinoflex Rubber Reimagined PlayTile 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)

## **9. 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

## **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 Dinoflex for more information, where a staff of trained customer service personnel offers design assistance and technical support.

## **12. FILING SYSTEMS**

- Architectural Product Information Binder (Division 9)
- [www.dinoflex.com](http://www.dinoflex.com)