

# **Playground Safety Tiles**

## **Architectural Specifications**

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#### **I. General**

- . Recycled ***PlayFALL*** rubber safety surfacing tiles are manufactured using SBR rubber granules and buffings with either color pigments or EPDM color granules. Colors to be selected from *Centaur Floor Systems* standard colors. Custom colors are available on request.
- . Installation must follow manufacturer's standard Installation Procedures.

- 1. **PlayFALL** safety tiles are covered by a limited 5 year manufacturer's warranty.
- 2. **PlayFALL** safety tiles are manufactured to comply with ASTM-1292-04 attenuation standards and exceed ADA requirements.

## II. Materials

- 1. **PlayFALL** rubber safety tiles are made from recycled SBR "truck" tire rubber buffings and granules. (Truck tires are used rather than car tires because of the superior grade of rubber.) The tiles are made in a dual layer format with the upper finish layer having a higher density for stability, and the lower layer including stanchions at a reduced density for optimum impact attenuation. Standard Colors are produced by using a pigment additive mixed with the non-toxic polyurethane binder. EPDM color rubber granule finishes are also available for top layer.
- 2. **PlayFALL** rubber safety tiles are 24" x 24" and are available in five thicknesses: 45mm (1.75"), 65mm (2.5") , 75mm (3") , & 85mm (3.25"), 107mm (4.25")
- 3. Interlock pins for placing into preset holes for surface security and integrity:  
PVC dowels 15mm (5/8") round x 75mm (3") long
- 4. Accessories available:
  - a. Beveled Edge Ramps for transition from top of tile to grade,

## 0. Technical Data

Test:	Description:	Tile:	Result:	
ASTM-1292-04	Impact Attenuation		<b>Basic</b>	<b>EPDM</b>
		45mm	4' fall ht.	3' fall ht.
		65mm	6' fall ht.	5' fall ht.
		75mm	8' fall ht.	6' fall ht.
		85mm	9' fall ht.	8' fall ht.
		107mm	10' fall ht.	9' fall ht.

### III. Inspection Requirements

- . A thorough inspection of **PlayFALL** safety tiles and all accessories must be done on site upon delivery, to ensure proper quantity and integrity of materials.
- . A thorough review of site conditions must be performed to ensure structural integrity and proper completion of any and all site preparation.
- . Refer to complete **PlayFALL** Installation Manual specifications and procedures, as prepared by *Centaur Floor Systems*, for preparation and installation details.

### IV. Installation Requirements

Proper Installation methods and procedures must be followed as outlined in the **PlayFALL** Installation Manual prepared by *Centaur Floor Systems*.

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## 5 Year Limited Warranty

Subject to the following terms and conditions, Centaur Floor Systems hereby warrants to the Original Purchaser that the PlayFALL Safety Surface Tiles will be free from manufacturing defects for a period of 5 years.

## ***Warranty Coverage***

- Centaur Floor Systems warrants that the PlayFALL Safety Surfacing Tiles have been tested and comply with ASTM F1292-04 Fall Height Performance Specifications.
- Centaur Floor Systems warrants that the PlayFALL Safety Surfacing Tiles will maintain their fall height performance for a period of five years from date of purchase.
- Top layer finish surface will not wear greater than 1/4" per year when used under normal conditions.

## ***Warranty Duration***

- This Warranty will commence at the date the product has been delivered to the job site.
- The Warranty will continue for 5 years from the date of delivery to the job site, as documented by an invoice or bill of lading with the Original Purchaser

## ***Warranty Remedies***

- Centaur Floor Systems warrants each tile to be free from defects in material or workmanship and agrees to replace tiles (product only) which disclose such defects when used under normal conditions.
- Centaur Floor Systems will not accept responsibility under the warranty for anything more than replacement of the product, FOB Abbotsford, BC., Canada. In the event of a Warranty Claim, contact your dealer.
- This remedy is the sole and exclusive remedy available to the Original Purchaser for breach of express or implied representations or warranties with respect to the product.

## ***Warranty Exclusions***

- This warranty is in lieu of all other representations, warranties, guarantees, obligations or liability, expressed or implied, including any warranty of merchantability or fitness for a particular purpose other than playground covering.
- The product will not be covered under warranty if/when:
  - A natural disaster occurs, including, but not limited to, flooding, earthquakes, tornadoes, hurricanes, etc.
  - An act of negligence, abuse, accident, misuse, including but not limited to, vandalism, civil disobedience, act of crime, act of war and the like occurs.
  - Acids, caustic materials or petroleum chemicals and the like, direct or airborne, are or have been in contact with the product.
  - Improper installation or maintenance of the product, including, but not limited to, the product being found to have been installed on top of foreign material such as loose sand, bark, dust, etc.
  - Repairs, alterations or modifications are made to the surfaces without prior consultation, consent or authorization from Centaur Floor Systems
  - The Original Purchaser fails to comply with all terms and conditions stated herein.
  - The Original Purchaser denies Centaur Floor Systems and/or its representative access to the installed product and/or fails to cooperate in providing permission for this access.
  - Payment for the product has not been made in full.
  - In no event will Centaur Floor Systems be liable to the Original Purchaser

or any third party for any damages, including any lost profits, lost savings or other consequential or incidental damages arising out of the use or inability to use the product even if Centaur Floor Systems and/or its representatives have been advised of the possibility of these damages. The liability of Centaur Floor Systems for damages resulting from the use or misuse of the product shall in no event exceed the replacement cost of the product, FOB Abbotsford, BC, Canada.

In the event of a Warranty Claim, Proof of Purchase from Centaur Floor Systems or a qualified dealer is necessary for the Warranty to be valid. Some jurisdictions do not allow the limitation of liability for incidental or consequential damages so the above limitation or exclusion may not apply.

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# **Playground Safety Tiles**

## **Installation Manual**

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## I. Delivery & Storage of Materials

- *PlayFALL* Tiles and accessories must be stored clean and dry at a minimum 40°F.
- **Do not take tiles directly from pallet and install immediately.** Rubber *PlayFALL* tiles will expand and contract with changes in temperature, humidity, and from compression while loaded on delivery pallets. To allow tiles to equalize in temperature and pressure prior to final placement, remove all *PlayFALL* tiles from pallets and spread over prepared installation site.

## II. Installation Materials

- *PlayFALL* Safety Tiles (& Edge Ramps if required)
- Tools:
  - band saw (if available) for all cuts
  - sharp utility knife and extra blades
  - carpenters square - for straight edge cuts
  - chalk line - for site layout
  - jig saw with proper blade to cut rubber - for post cuts and curved patterns
  - rubber mallet
  - measuring tape
  - markers - paint and/or felt to indicate cuts
  - rubber gloves
  - safety glasses
  - caulking gun for edge to edge adhesive
  - 1/8" notched trowel for base adhesive
- Adhesive:
  - ***PlayFALL Adhesive 825 ml Tube***
  - ***PlayFALL/SportFLOOR Adhesive 2 part for wet conditions***

- Interlocking Pins: - 5/8" diameter round x 3" long PVC dowels to insert into preset holes at tile edges for alignment and to secure tiles firmly in place
- Geotextile Landscape Fabric: - for use over granular sub-base materials to provide solid clean base for *PlayFALL* tiles and provide a surface for base adhesive.

### **III. Site Preparation**

*PlayFALL* tiles may be installed over both hard surface sub-base such as concrete or asphalt, or over well compacted granule sub-base. *PlayFALL* tiles are water permeable and liquids will drain through them to sub-base. In all cases adequate drainage must be provided to ensure that ground and rain water is discharged away from the site, either by mechanical means or positive slope of sub-base (min 2%).

#### **a) Hard Surface Sub-Base**

- All surfaces must be clean and dry and free of all loose materials, oils, or previous floor finishes that would prevent a secure bond to adhesive.
- All bumps, protrusions, cracks or uneven surfaces must be leveled before installation of tiles.
- New concrete floors must be thoroughly cured, and not subject to hydro-
- Static water pressure, prior to tile installation (min. 28 days cure time).

## b) Compacted Granular Sub-base:

- Grass, ground cover, soils, and organic fills must be removed to a minimum 4" below bottom of tiles at finished elevation
- Place, level, and compact clean and free draining granular material, to a 95% proctor standard. **Do not** use only sand as the play activity will push legs (stanchions) of *PlayFALL* tiles into sub-base surface.
- Place Geotextile Landscape Fabric over entire site, overlapping min. 12" and tape joints to secure.

## IV. Site Layout

- Ensure entire site has been prepared, sub-base completed, and site and materials are clean and dry
- All play structure installation should be completed prior to placing of *PlayFALL* tiles
- Remove *PlayFALL* tiles from pallets and loosely spread them over the entire installation site to allow them to conform and acclimatize to conditions. If installation is to take more than one day, spread out only as many tiles as are required for that day, repeat procedure on the following work day(s)
- Ensure interlocking pins, adhesives, and installation tools are at hand

## V. Adhesive Application

### 1) Base Adhesive:

- Choose full spread or perimeter only application method
- Ensure sub-base is clean, dry and free of all loose materials and dust
- With notched trowel, spread PlayFALL/SportFLoor base adhesive along selected starting line
- Ensure that adhesive is applied evenly under tiles to avoid elevation differences

### 2) Edge Adhesive:

- Use a caulking gun and *PlayFALL Adhesive*, apply a bead of adhesive along leading edge face of tile so that subsequent adjoining tiles are securely adhered (and pinned) together

## **VI. Installing PlayFALL Tiles**

- Select a straight edge of the site or provide a chalk line as a starting point along one of the perimeters
- Ensure that all tiles have been pre-placed on site to conform to conditions
- Apply base adhesive along starting line (min one tile width) and place a straight row of tiles onto base adhesive.
- Interlocking pin holes should face top and bottom to align with subsequent tile rows. Apply edge adhesive to leading tile edge face and place adjoining tile tight beside it.

- Insert interlocking pins into installed tiles and, **begin the 2<sup>nd</sup> row with a half tile.**
- Align pins with holes in tile, apply edge adhesive and slide new tile tight to first row.
- Note: for additional tile security, interlocking pins can also be drilled and inserted to outside perimeter material and connected to first row of tiles.
- Continue to use this staggered offset tile pattern to ensure a proper secure installation.
- As each adjoining row of tiles is installed, ensure that joints are kept tight and install all full tiles first. Any tiles requiring cutting should be set aside, marked and cut to suit after all full tiles have been installed.
- If tiles are sunk in below adjoining surfaces to create a flush finish elevation, the last row of tiles should be cut 1” oversize and wedged into opening so that all tiles are tightened up across the site.

## **VII. Cutting PlayFALL Tiles**

- A band saw is the best tool to cut tiles, ensuring a true clean cut line.
- After full tiles are installed, mark – cut – and install custom fit and infill tiles. Then install tiles at play structure posts.
- Measure from edges or post face(s) to adjoining tiles and

transfer dimensions to infill tile. Cut with a jig-saw or sharp utility knife.

- Measurement tolerances should be kept tight to ensure a clean fit.
- Small gaps (up to 1/4") can be filled using a polyurethane caulking material.

## **VIII. Cleaning and Maintenance**

- All excess adhesive should be cleaned off tiles immediately using a damp cloth.
- If adhesive has dried onto tile surface, scrape off with utility knife and rub with cloth containing mineral spirits.
- A regular routine maintenance program will enhance the appearance and performance of *PlayFALL* tiles.
- Tile surfaces can be swept, vacuumed, machine scrubbed, hosed-off or power sprayed to ensure a clean and long lasting safety surface.
- Please note that *PlayFALL* tiles will allow liquids to pass through them, so site drainage is mandatory for tile performance. In indoor installations, odor and bacteria may develop if liquids seep into tiles. All spills and excess liquids should be removed/extracted immediately to ensure a clean and sanitary site.

## **IX. Disclaimer**

- This manual has been prepared to assist purchasers of

*PlayFALL* Safety Tiles in the recommended installation procedure. It is a guideline which may be used to produce an effective finished installation and should be reviewed in the context of the installation site(s).

- *Centaur Floor Systems*, does not warrant any installation work not directly performed by *Centaur Floor Systems*, and specifically disclaims liability for any direct or indirect personal injury, property damage or other costs or losses resulting from installations or applications by third parties. Please see the *Centaur Floor Systems*, Limited Warranty for the particulars of warranty coverage relating to *Centaur Floor Systems*, products.
- *PlayFALL* is not to be used for any purpose other than playground covering.
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