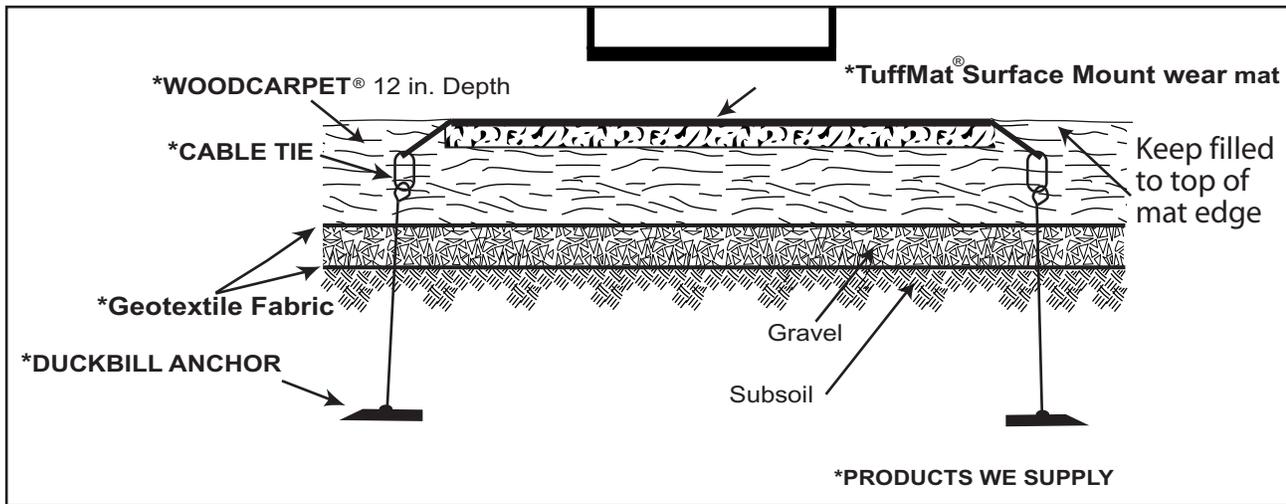


- A. Product Data:** Submit manufacturer's product data, including warranty, maintenance and installation instructions, ASTM F 1292 test results, IPEMA certificate of compliance, and samples. To obtain a certificate, visit [www.ipema.org](http://www.ipema.org), product # WMFL11W.
- B. Manufacturer Qualifications:**
  1. Member of International Play Equipment Manufacturer's Association (IPEMA).
  2. Total Liability Insurance Coverage: \$11,000,000.
  3. Sales Representatives certified by National Playground Safety Institute (NPSI).
- C. Warranty Covers Playground Surfacing for Following Periods:**
  1. Playground Surfacing Wear Mat: 5 years
- D. Manufacturer:**
  1. Zeager Bros. Inc., 4000 East Harrisburg Pike, Middletown, Pennsylvania 17057. Toll Free (800) 346-8524.
  2. Zeager Bros. Inc.-KY-, 340 Steele Road, Franklin, KY 42134. Toll Free (800) 296-9227.



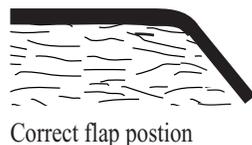
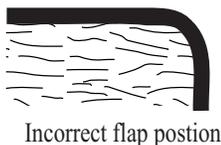
**E. Application:** Kick-out areas on outdoor playground surfaces (ie. swings, spinner toys, and slide exits)

**F. Installation procedure for anchoring the TuffMat on top of the WOODCARPET®:**

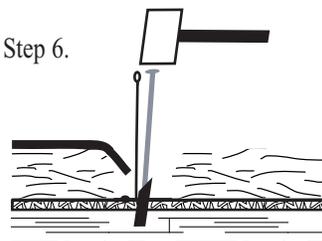
Note: Zeager recommends installing wear mats above the surface to meet ADA standards for accessibility design.

1. In the kick-out area ensure that there is a minimum of 11 in. of Woodcarpet® that is level and compacted. TuffMAT® foam mat is certified to 12ft with 11" of Woodcarpet® underneath it.
2. Lay out the mat (vinyl side up) to cover the equipment's kick out area.
3. Under the edge of the mat flap, dig out a channel in the WOODCARPET® to allow the mat edges to drop down into the channel.
4. Remove the top 1 in. of WOODCARPET® from under the foam portion of the mat so that the mat does not protrude above the WOODCARPET® surface. This helps to meet change in level requirements according to ADA standards.
5. It may be necessary to taper the edge of the WOODCARPET® under the mat to allow the mat edges to slope down into the channel at approximately 45°.
6. At the anchor points remove Woodcarpet® down to the drainage layer. Insert the drive rod into the duckbill anchor and drive the duckbill anchor into the subsoil straight down until the loop on the end of the cable is the only thing showing above the surface. Twist and pull the drive rod back out. For hard or stony soils, drill a hole into the subsoil with a masonry bit before driving the duckbill anchor into the subsoil.
7. Insert the steel drive rod through the cable loop and pull upward about 2 in. The upward pull on the cable rotates the anchor into a horizontal locking position.
8. There are anchor holes located around the edge of each mat, including two at each corner. At each corner, bend the mat edges down so that the two anchor holes line up with each other. Loop a cable tie (included with the anchor kit) through the two anchor holes and then through the loop on the end of the duckbill anchor cable. After attaching all cable ties, tighten the cable ties to provide tension, causing the edges of the mat to drop into the channel.
9. Refill and compact the channel around the edge of the mat with WOODCARPET®.
10. Ensure that the vertical distance between the underside of swing seats, when occupied, and the TUFFMAT® is a minimum of 12 in. (300mm), as per ASTM F1487 section 8 and as per CAN/CSA-Z614 section 15.
11. Ensure that the height of slide exit regions above the TUFFMAT® are no greater than 11 in. (275mm) for slides with an elevation no greater than 48in. (1220mm) and between 7 in. and 15 in. (180mm and 380mm) for slides with an elevation greater than 48 in. (1200mm) as per ASTM F 1487 section 8 and as per CAN/CSA-Z614 section 15.

Step 3.



Step 6.



Step 7.



**H. Notes**

Engineered Wood Fiber Playground Surfacing: Wood Carpet®

- a. Composition: WoodCarpet contains 100% pre-consumer recovered wood.
  - b. Dimensions: Randomly sized wood fibers.
  - c. Sieve Analysis, ASTM F2075: Meets criteria.
  - d. Hazardous metal, ASTM F2075: Meets criteria.
  - e. Tramp metal, ASTM F2075: Meets criteria.
  - f. Impact, ASTM F1292-13: 8 inches meets criteria up to 8 ft. fall height and 12 inches meets criteria up to 12 ft. fall height.
  - g. Accessibility, ASTM F1951-14: Meets criteria.
  - h. Resistance to Flammability, 16 FR Part 1630 Standard for Surface. Flammability of Carpets and Rugs (FFI-70), Modified Procedure. Not Oven Dried: Meets Criteria.
  - i. Flammability, 16 CFR 1500.44, Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids: Did not ignite.
  - j. IPEMA Certification: 8"/8ft., 12"/12ft. Fall protection. F1292. Tramp metals, Sieve analysis, Heavy Metals. Per F2075.
2. Fabric: WoodCarpet® Geotextile Fabric
- a. Composition: nonwoven filter fabric of staple fibers that is formed into a random network, needle punched and heat-set for dimensional stability.
  - b. Recycled content: N/A
  - c. Size: 5 feet wide x 300 feet long. / 1.5 m wide x 91.4 m Long.
  - d. Weight, ASTM D5261 Min. 3.5 ounces per square yard
  - e. Grab Tensile Strength: ASTM D4632 0.45 kN / 57 lbs
  - f. Grab Tensile Elongation " " 50%
  - g. CBR Puncture: ASTM D6241 .064kN/ 145 lbs
  - h. UV Resistance: ASTM D4355 70% @500 hrs
  - i. Trapezoidal Tear : ASTM D4533 0.13kN / 29 lbs
  - j. Permittivity ASTM D4491 2.20 sec
  - k. Water Flow Rate: " " 6112 lpm/m 150 gpm/ft
  - l. Apparent Opening size ASTM D4751-0300 mm/50 US Std. Sieve .
3. TuffMat® Top-Mount Wear Mat:
    - a. Composition: Base- Closed-cell, cross-linked, polyethylene foam.
    - b. Recycled content: 100% pre-consumer recovered foam.
    - c. Top surface: Covered with layer of heavy duty vinyl.
    - d. Finished sizes: 32in.x32in. [slide exit], 32inx62in. [swing] 36"x48"-universal mat [any clear floor space] 72"x72" [Tire Swing/Spinner], 88"x72" [swing bay], 88"x88"[Large Spinner toys], Custom sizes available.
    - e. Weight: 1.13 inches thick= 1.1 pounds per square foot.
    - f. Thickness: 1.25 inch.
    - g. IPEMA Certification: 1" thick mat over 11" of Woodcarpet rated to 12ft. fall protection.
  4. TuffMat® Zero-Fill Wear Mats (sub-surface mount)
    - a. Composition: Combination of PE, PP and EPS foam.
    - b. Coating: Polyurea
      - Hardness ASTM D2240/Shore A—65
      - Hardness ASTM D2240/Shore D—5
      - Elongation, 25°C ASTM D-412/ 500
    - c. Size : 42"x60"x11"H / finished surface: 30"x48". (Meets ADA guidelines: Sec. 305— clear floor or ground space.)
    - d. Weight: 35lbs / 14.6 Kg
    - e. Fall height testing; 8 foot fall protection.