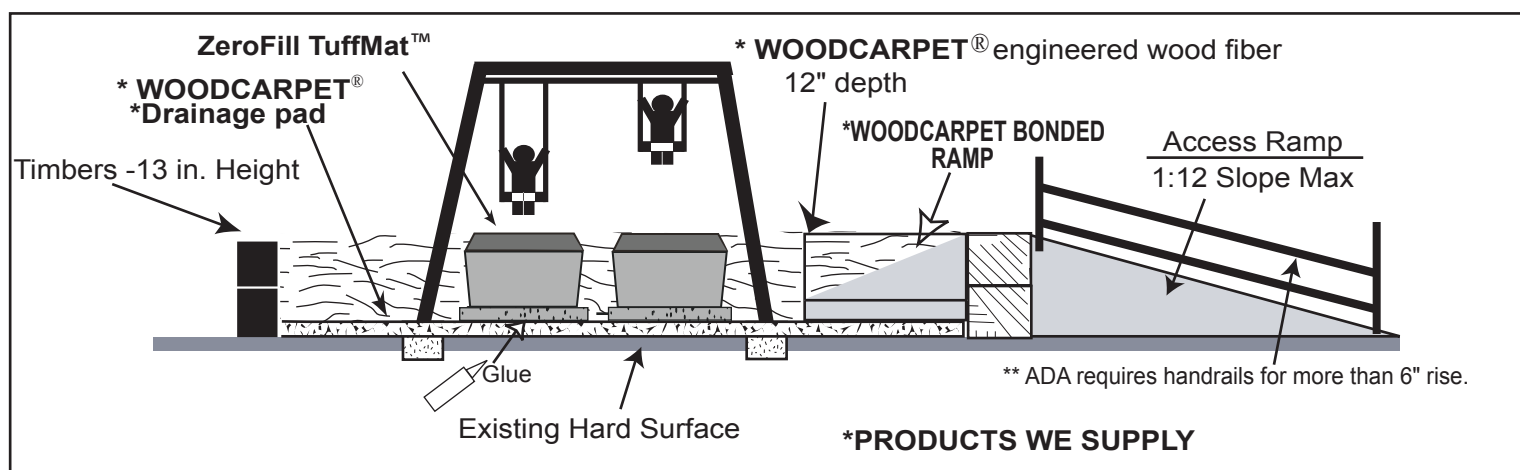


- A. Product Data:** Submit manufacturer's product data, including warranty, maintenance and installation instructions, ASTM F1292, F1951, and F2075 test results, IPEMA certificate of compliance, and samples. To obtain a certificate, visit [www.zeager.com](http://www.zeager.com).
- B. Manufacturer Qualifications:**
1. Member of International Play Equipment Manufacturer's Association (IPEMA).
  2. Total Liability Insurance Coverage: \$11,000,000.
  3. Sales Representatives attend National Playground Safety Institute (NPSI) training.
- C. Warranty Covers Playground Surfacing for Following Periods:**
1. Engineered Wood Fiber Playground Surfacing: 20 years- compliance to ASTM F1292.
  2. Playground Surfacing Wear Mat: 5 years
- D. Manufacturer:**
1. Main office: Zeager Bros., Inc., 4000 East Harrisburg Pike, Middletown, PA 17057. Toll Free (800) 346-8524
  2. KY office: 1-800-296-9227 . / WY office : 307-220-3972



**E. Application:** Outdoor playground area installed over an existing hard surface (asphalt, concrete, etc.)

**F. Installation Procedure:**

1. Review project plans and verify that playground equipment use zones, clearances, and reach ranges will comply with ASTM F1487 sections 8, 9, and 10, and with CAN/CSA-Z614 sections 14 and 15.
2. Prepare the site in accordance with the project engineer's directions and project specifications. Ensure that site drainage is routed away from or around the playground area to prevent sand, soil, silt, or other foreign material from contaminating the WOODCARPET®.
3. Install wood timbers to a height of 14 in. (36cm) or install an alternate containment system. Before installing the wood timbers along the lowest playground edge, cut 12 in. w x 1 1/2 in. h. (30cm x 4cm) notches every 6 ft.-8 ft. on the bottom of the wood timbers.
4. Install foam drainage panels on top of the existing hard surface fabric side up. Cut using a utility knife or circular saw.
5. If additional vandal resistance is desired, at seams use exterior grade construction adhesive to glue panels together.
6. Spread WOODCARPET® to a depth of 12 in. (23cm) after compaction. To make WOODCARPET® immediately accessible, install WOODCARPET® in 6 in. maximum layers. Rake level, wet, and mechanically compact each layer twice with a flat surface compactor. Change direction 90 degrees on second compaction. Exercise caution to prevent damaging the foam drainage panels if using heavy equipment.
7. Install a ZEROFILL TUFFMAT™ in each kick-out area. Simply position the mat under the high use area, make a mark on the drainage pad around the base of the mat, remove the mat and apply a few beads of construction adhesive within the area just marked on top of the foam drainage pad. Install the mat over the foam drainage pad. Press to get a good adhesion between the mat and the foam drainage pad. Fill wood fiber back in against the sides of the mat, compacting the wood fiber with your foot as you fill in around the mat. Fill until the sloped edges of the mat are covered to give a smooth transition from the mat to the surrounding surface for ADA compliance. Maintain this transition as needed.
8. Inspect the playground and verify that playground equipment use zones, clearances, and reach ranges comply with ASTM F1487 sections 8, 9, and 10, and with CAN/CSA-Z614 sections 14 and 15.

**G. Notes:**

1. Inadequate drainage voids the WOODCARPET® conditional limited warranty and hastens decomposition.
2. If not installing using a plate compactor and wetting procedure that is described in the previous installation information, the surface may not meet accessibility standards & will require as much as 15% less WOODCARPET®. For maximum accessibility -see specification -Woodcarpet Bonded 1.
3. Periodic maintenance should include removing debris, raking and topping off. See also WOODCARPET® maintenance recommendations.

## H. Notes:

1. Using drainage & wear mats as specified by Zeager is required for warranty coverage. Inadequate drainage may hasten decomposition & decrease impact absorption.
2. If not installing using a plate compactor and wetting procedure that is described in the previous installation information, the surface may not meet accessibility standards & will require as much as 15% less WOODCARPET®.
3. Periodic maintenance should include removing debris, raking and topping off by performing steps 9 and 11. Be sure to keep surfacing up to within 1/4" of the top of border where accessible entrance and around wear mat transitions are to meet ADA guidelines. See also WOODCARPET® maintenance recommendations available on our website at : [www.zeager.com](http://www.zeager.com).

## I. Products

1. Engineered Wood Fiber Playground Surfacing: WOODCARPET®

- a. Composition: Woodcarpet contains 100% pre-consumer re-covered 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: 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—12"/12ft. Fall protection. F1292.  
Tramp metals, Sieve analysis, Heavy Metals. F2075.

2. WOODCARPET® Resilient Foam Drain:

- a. Composition: Closed-cell, cross-linked, polyethylene foam.
- b. Recycled content: 100% pre-consumer recovered foam.
- c. Top surface: Covered with polyester spun bound fabric.
- d. Size: 48" x 72" in.
- e. Weight: 89 ounces per square yard.
- f. Thickness: 1.375"
- g. Density: 86 ounces per cubic foot.
- h. Transmissivity, ASTM D4716: 3.65E-003 m<sup>2</sup> / sec.
- i. Flow Rate, ASTM D2434: + 38 gallons/ minute per sq. ft.
- k. Impact, ASTM F1292: Alone meets criteria up to 2½ feet.
- l. Impact rating with 12" Woodcarpet: 12ft.

## I. Products-cont.

3. 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.
4. WOODCARPET® Bonded Ramp kit  
See Zeager Specification for details.