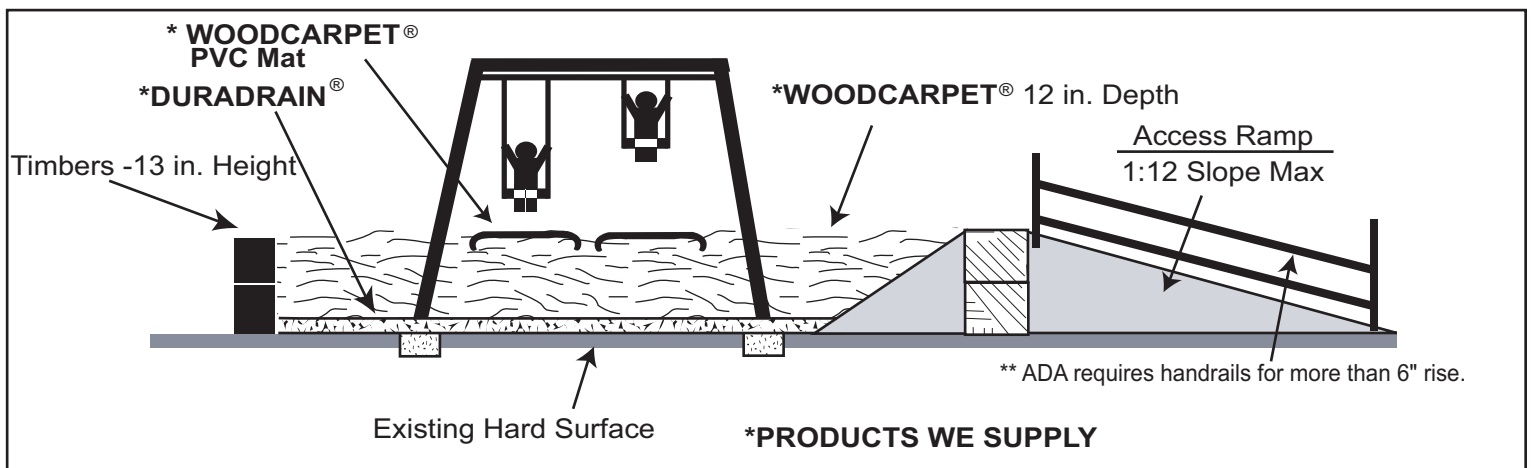


- A. Product Data:** Submit manufacturer's product data, including warranty, maintenance and installation instructions, ASTM F1292, F1951, and F2075 test results, IPEMA certificate of compliance, and samples. To obtain a certificate, visit [www.ipema.org](http://www.ipema.org), product # 12W.
- B. Manufacturer 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. Zeager Bros., Inc., 4000 East Harrisburg Pike, Middletown, Pennsylvania 17057. Toll Free (800) 346-8524.
  2. Zeager Hardwood Co., 340 Steele Road, Franklin, KY 42134. Toll Free (800) 296-9227.



- E. Application:** Outdoor playground area installed over an existing hard surface (asphalt, concrete, etc.) Note: Duradrain is available through Zeager's exclusive dealer network. Call for a dealer near you.

**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 DURADRAIN® panels on top of the existing hard surface. Be sure channels point toward low end of play area. 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 DURADRAIN® and drain materials if using heavy equipment.
7. Install a WOODCARPET PVC MAT® in each kick-out area. Zeager recommends installing wear mats on top of WOODCARPET® surface to keep surface accessible. First, position mat where desired and dig a channel around the mat edge down to the base of the WOODCARPET® and slope mat edges down into the channel. Refill ditch and compact WOODCARPET® around the mat edge to keep a smooth transition between mat and the surrounding surface. PVC mats are recommended because they are heavy and do not need anchoring like Zeager foam wear mats do. Anchoring may be difficult to achieve over hard surfaces like concrete and asphalt.
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 system 7.
3. Periodic maintenance should include removing debris, raking and topping off. See also WOODCARPET® maintenance recommendations.

**H. Products**

1. Engineered Wood Fiber Playground Surfacing: WOODCARPET®
  - a. Composition: Woodcarpet is 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: 8 inches meets criteria up to 8 foot fall height and 12 inches meets criteria up to 12 foot fall height.
  - g. Accessibility, ASTM F1951-08: Meets criteria.
  - h. Resistance to Flammability, 16 FR Part 1630 Standard for Surface. Flammability of Carpets and Rugs (FFI-70), Modified Procedurer. 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: To ASTM F1292-09/ 8 inch thickness rated to 8 feet and 12 inches rated to 12 feet.
  - h. IPEMA Certification: To ASTM F2075-09 / Sieve, Tramp metals, and Hazardous (Heavy) metals. - [www.ipema.org](http://www.ipema.org).

## 2. Resilient Foam Drain: DURADRAIN®

- 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" w/ channels.
- 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: 1" Alone meets criteria up to 2½ feet.

**H. Products- (cont.)**

3. Playground Surfacing Wear Mat: WOODCARPET MAT® PVC
  - a. Composition: Polyvinylchloride (PVC). Meets CPSIA Federal Act for Lead and Phthalate acceptable levels.
  - b. Recycled Content: 60 % Preconsumer recovered pvc.
  - c. Drain Holes: 3/8 inch diameter holes, one per 10 square inches.
  - d. Size: 42 in. x 42 in. [slide exit], 42 in. x 78 in. [swing], 78 in. x 78 in. [tire swing, vertical spinner], 78 in. x 90 in. [swing bay], 156 in. OD x 73.5 in. ID [merry go round, supernova], 67.5 in. OD [supernova].
  - e. Weight: 3.0 pounds per square foot.
  - f. Thickness: ¾ inches.
  - g. Impact, ASTM F1292: Over 11.25 inches of Woodcarpet, meets criteria up to 12 feet.
  - h. IPEMA Certification: Over 11.25 inches of Woodcarpet, rated to 12 feet.