

**A. Product Data:** Submit manufacturer's product data, including warranty, maintenance and installation instructions. Note: product must be installed by a Zeager certified installer.

**B. Manufacturer Qualifications:**

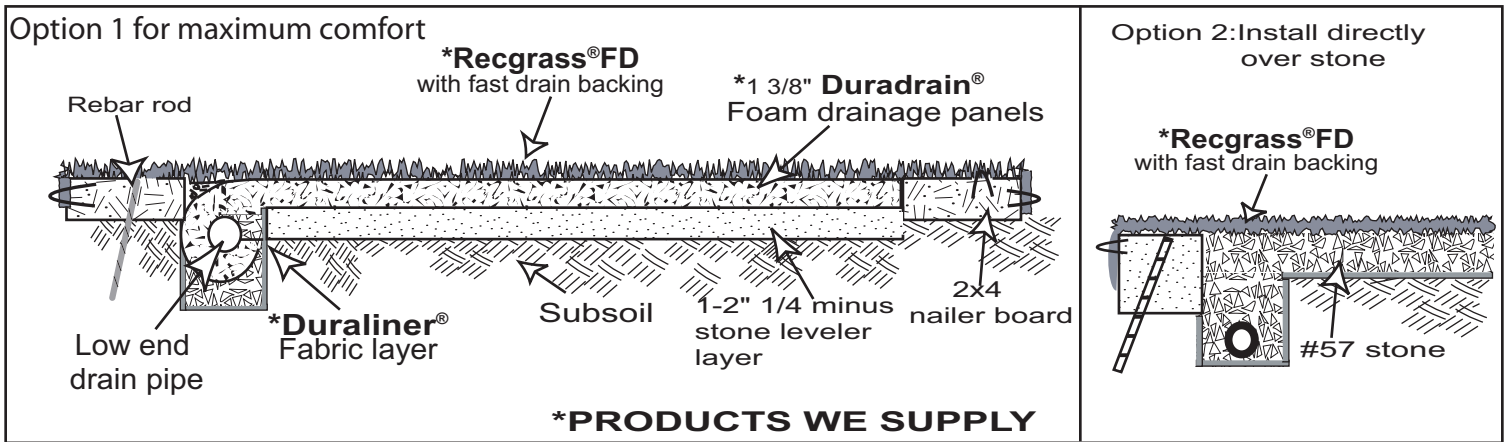
1. Member of International Play Equipment Manufacturer's Association (IPEMA).
2. Total Liability Insurance Coverage: \$11,000,000.
3. Sales Representatives attend National Playground Safety Institute (NPSI) training.

**C. Warranty covers playground surfacing for following periods:**

1. Turf : 10 year prorated warranty.

**D. Manufacturer:**

1. Zeager Bros., Inc., PA office: 4000 East Harrisburg Pike, Middletown, PA 17057. Toll Free (800) 346-8524.
2. Zeager Bros. Inc.- KY office: 340 Steele Road, Franklin, KY 42134. Toll Free (800) 296-9227.



**E. Application:** Outdoor recreational areas i.e dog parks, picnic areas where no fall height is required.

**F. Critical Height:** None

**G. Installation Instructions:**

1. Prepare the site in accordance with the project engineer's directions and project specifications. Ensure that site drainage is routed away from recreational area to prevent sand, soil, silt, or other foreign material from being deposited in the recreational area. Surface should have a minimum of 1-2% grade to allow water to drain away from area to a storm drain.
2. Install pressure treated 2x4's or 4x4's around the edge of the area to attach Recgrass layer. Use minimum 24" rebar. Countersink rebar to prevent the rebar from becoming exposed and causing a trip hazard. If installing option 2, skip steps 3-5 and install #57 stone level with surrounding border. Go to step 6.
3. Option 1: Use 1/4 minus stone layer to level out the subsoil layer before installing Duradrain®. Thickness may vary depending levelness of subsoil.
4. Line the drainage ditch with Duraliner® fabric and wrap pipe with fabric then fill with clean drainage stone.
5. Install Duradrain foam drainage base over crushed stone. Lay panels fabric side down. Use construction adhesive between panel seams. Leave minimum 1/2 inch gap between the Duradrain and the border to allow for expansion and contraction as foam will expand in heat. Run Duradrain down to the drainage ditch and wrap around pipe. Secure with nylon tie wraps.
6. Recgrass synthetic grass layer must be installed by a certified Zeager installer. Ask your Zeager representative for one near you.

**H. Product specifications:**

1. Resilient Foam Drainage: DURADRAIN® :

- A. Composition: Recycled closed-cell, cross-linked, polyethylene, foam nuggets permanently fused together.
- B. Top surface: each piece covered with one layer of geotextile fabric.
- C. Recycled Content: 98 percent pre-consumer recovered materials. E. Size: 48 inches by 72 inches. F. Weight: 89 oz./sq. yd.
- G. Thickness: 1.375 inches H. Density: 86 oz./cu. ft. I. Transmissivity, ASTM D4716: 3.65E-003 m<sup>2</sup> / sec.
- J. Flow Rate, ASTM D2434: 38 gallons/ minute per sq. ft.

2. Recgrass® FD fast drain :

- A. Primary yarn polymer : 100% Nylon B. Yarn cross section: Flat Diamond C. Secondary yarn polymer (Thatch Zone) : Nylon
- D. Standard color : Primary and secondary polymer : Verde Green E. UV Stabilized: Yes F. Fabric Construction: Knitted
- G. Face Primary Backing : Knit Polyester H. Coating Type : Acrylic I. Primary Yarn Denier : 4200/8 J. Thatch Denier : 4200/8
- K. Pile Height 1.0 Inches 25 mm D-5848 L. Face Weight 74 Oz/Yd<sup>2</sup> / 2,447 g/m<sup>2</sup>-D-5848 T M. Total Fabric Weight 86 Oz/Yd<sup>2</sup>-2,853 g/m<sup>2</sup>- D-5848
- N. Water Permeability : >50 Inches/hr 127 Cm/hr F-1551

3. Duraliner® fabric :

- A. Composition: Non woven UV treated spun bonded polyester B. 6'x250' roll C. 4. Weight, ASTM D3776: Min. 3.24 ounces per square yard
- C. 10. Permittivity, ASTM D4491: min. 2.09 sec-1. D. 11. Flow Rate, ASTM D4491: min. 300 gal/ft/min.