

Revised - August, 2016 by JM

Product Guide Specification 32 18 16.13

Protective Playground Surfacing

Specifier Notes: This section covers the following recreational surfacing materials from Zeager:

WOODCARPET® engineered wood fiber surfacing containing 100 percent pre-consumer recovered wood.

It is designed to reduce injuries on playgrounds and provide a stable resilient surface for trails. Tested according to ASTM methods to ensure compliance with ADA, ASTM, CPSC, and CSA standards for playground surfacing.

DURALINER® fabric is placed both below and above aggregate drainage material to create a weed barrier and to prevent the aggregate from mixing with the subsurface and the engineered wood fiber. This in combination with aggregate will help to extend the life of your WoodCarpet® surfacing. (See system 1 spec.)

DURADRAIN® resilient drain panel made from recycled foam in a thermal process that does not use chemicals. A layer of geotextile fabric is bonded to the top surface to ensure that the fabric will not get pulled up. Provides excellent vertical and horizontal drainage. Is a lightweight complete drainage system and is used as an alternative to an aggregate drainage system.

A. Engineered Wood Fiber Playground Surfacing: WOODCARPET®

1. Composition: Engineered wood fiber. No chemical treatments or additives.
2. Compliance: Meet or exceed CPSC guidelines for impact attenuation.
3. Recycled Content: 100 percent pre-consumer recovered materials.
4. Dimensions: Per sieve analysis, ASTM F2075 / 4.4: Meets Criteria.
5. Hazardous Metal, ASTM F 2075 / 4.5: Meets Criteria.
6. Tramp Metal, ASTM F 2075 / 4.6: Meets Criteria.
7. Coefficient of Permeability, ASTM D 2434: Greater than 0.6 cm/s.
8. When bonded: Permeability per falling head test, EM1110-2-1906-VII-13: 191.19 gal/min/sq.ft.
9. Moisture Absorption: Maximum of 150 percent by weight.
10. Moisture Content: 25 to 60 percent by weight.
11. Density: 15 to 24 pounds per cubic foot.
12. Impact Attenuation: ASTM F 1292. Meets criteria.
13. IPEMA Certification: 8 inch thickness rated to 8 feet and 12 inch thickness to 12 feet.

Specifier Notes: In the interest of public playground safety, IPEMA provides an independent laboratory which validates a manufacturer's certification of conformance to ASTM F1292 & F2075. A list of current validated products, their thickness and critical height may be viewed at <a href="http://www.ipema.org">www.ipema.org</a> .
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14. Accessibility, ASTM F 1951: Meets criteria.
15. Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials- D2859: Meets criteria.
16. Flammable, 16 CFR 1500.44, Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids: Did not ignite.

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A. Drainage Fabric: DURALINER®

1. Composition: nonwoven filter fabric of staple fibers that is formed into a random network, needle punched and heat-set for dimensional stability.
2. Recycled content: N/A
3. Size: 5 feet wide x 300 feet long. / 1.5 m wide x 91.4 m Long
4. Weight, ASTM D5261 Min. 3.5 ounces per square yard
5. Grab Tensile Strength: ASTM D4632 0.45 kN / 57 lbs
6. Grab Tensile Elongation “ “ 50%
7. CBR Puncture: ASTM D6241 .064kN/ 145 lbs
8. UV Resistance: ASTM D4355 70% @500 hrs
9. Trapezoidal Tear : ASTM D45330.13kN / 29 lbs
10. Permittivity ASTM D4491 2.20 sec
11. Water Flow Rate: “ “ 6112 lpm/m 150 gpm/ft
12. Apparent Opening size ASTM D4751-0300 mm/50 US Std Sieve.

B. Resilient Foam Drainage: DURADRAIN®.

1. Composition: Recycled closed-cell, cross-linked, polyethylene, foam nuggets permanently fused together.
2. Top surface: each piece covered with one layer of geotextile fabric.
3. Recycled Content: 98 percent pre-consumer recovered materials.
4. Size: 48 inches by 72 inches.
5. Weight: 89 oz./sq. yd.
6. Thickness: 1.375 inches.
7. Density: 86 oz./cu. ft.
8. Transmissivity, ASTM D4716: 3.65E-003 m<sup>2</sup> / sec.
9. Flow Rate, ASTM D2434: 38 gallons/ minute per sq. ft.
10. Impact Attenuation: ASTM F 1292. Meets criteria.
11. IPEMA Certification: 1 inch DURADRAIN® under 9 inches of WOODCARPET® rated to 12 feet.

PART 2 - Specifier Notes: When installing over a hard surface such as asphalt or concrete, use the DuraDrain® system, WoodCarpet® Mats at all high wear areas, and a minimum 12 inches of WoodCarpet®.