

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, product # WM11W.

B. Manufacturer Qualifications:

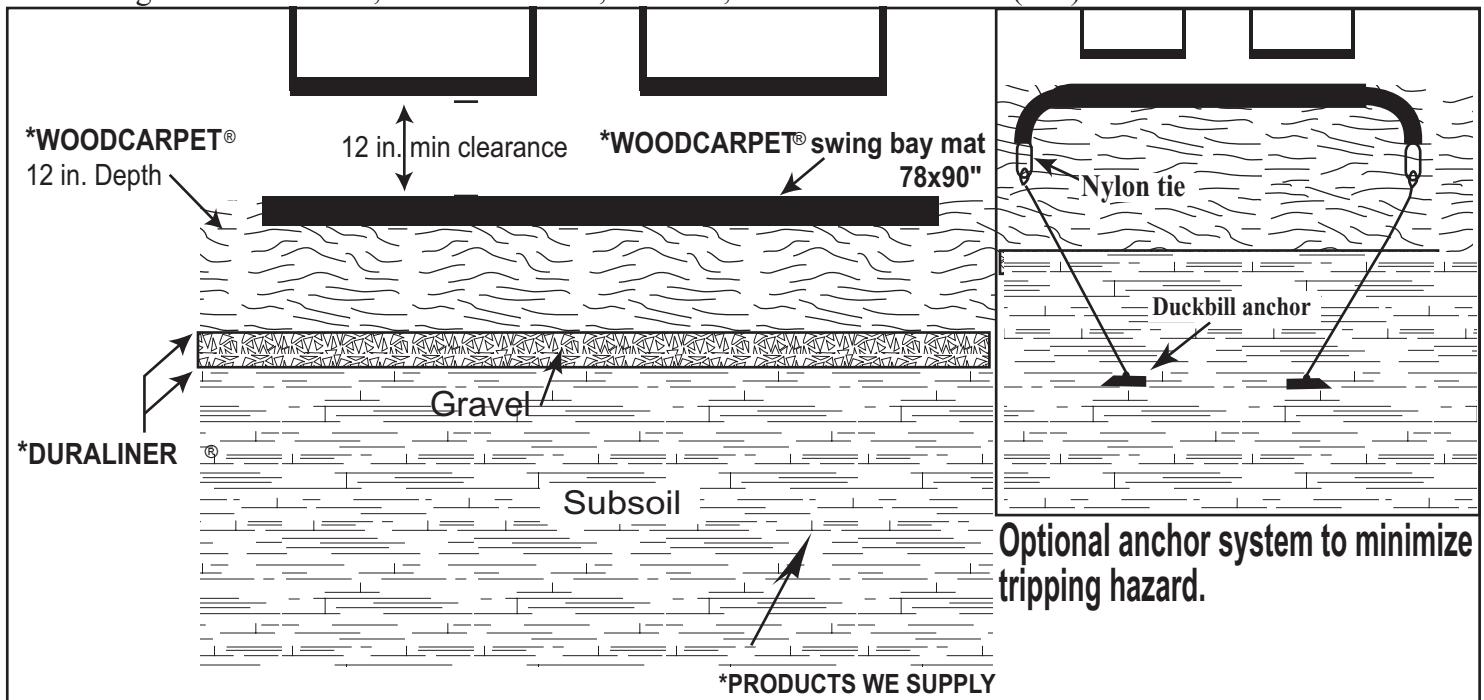
1. Member of International Play Equipment Manufacturer's Association (IPEMA).
2. Total Liability Insurance Coverage: \$11,000,000.
3. Sales Representatives certified by National Playground Safety Institute (NPSI).

C. Warranty Covers Playground Surfacing for Following Periods:

1. Playground Surfacing Wear Mat: 5 years

D. Manufacturer:

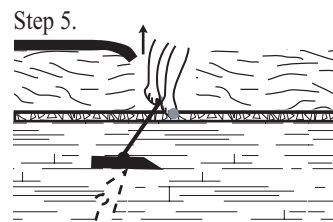
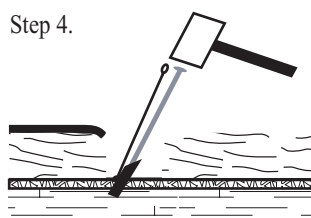
1. Zeager Bros., Inc., 4000 East Harrisburg Pike, Middletown, Pennsylvania 17057. Toll Free (800) 346-8524.
2. Zeager Hardwood Co., 340 Steele Road, Franklin, KY 42134. Toll Free (800) 296-9227.



E. Application: Wear mat for swing bay and tire swings for an established play area.

F. Installation Procedure:

1. In the kick-out area ensure that there is a minimum of 8 in. (200mm) of WOODCARPET® that is level and compacted. For better accessibility, install the mat on top of the WOODCARPET®.
2. Lay out the mat (smooth side up) to cover the equipment's kick out area.
3. Under the edge of the mat, dig out a channel in the WOODCARPET® to allow approximately 6 in. (160mm) of the mat edges to drop down into the channel. It may be necessary to round the edge of the WOODCARPET® under the mat to allow the edges to hang down into the channel. If not using the optional duck bill anchors, go to step 7.
4. Place anchors adjacent to the anchor points on the WOODCARPET® PVC Mat. Using the steel drive rod, drive the duckbill anchor into the subsoil until the loop on the end of the cable is the only thing showing above the drain system surface. Twist and pull the drive rod back out.
5. Insert the steel drive rod through the cable loop and pull upward about 3 in. (75mm). The upward pull on the cable rotates the anchor into a horizontal locking position.
6. Loop the tie wrap (included with the anchor kit) through a hole on the mat edge and through the loop on the end of the anchor cable. Tighten the tie wraps to provide tension, causing the edges of the mat to drop into the channel.
7. Refill and compact the channel around the edge of the mat with WOODCARPET®.
8. Ensure that the vertical distance between the underside of swing seats, when occupied, and the WOODCARPET® PVC MAT or WOODCARPET® is a minimum of 12 in. (300mm), as per ASTM F1487 section 8 and as per CAN/CSA-Z614 section 15.



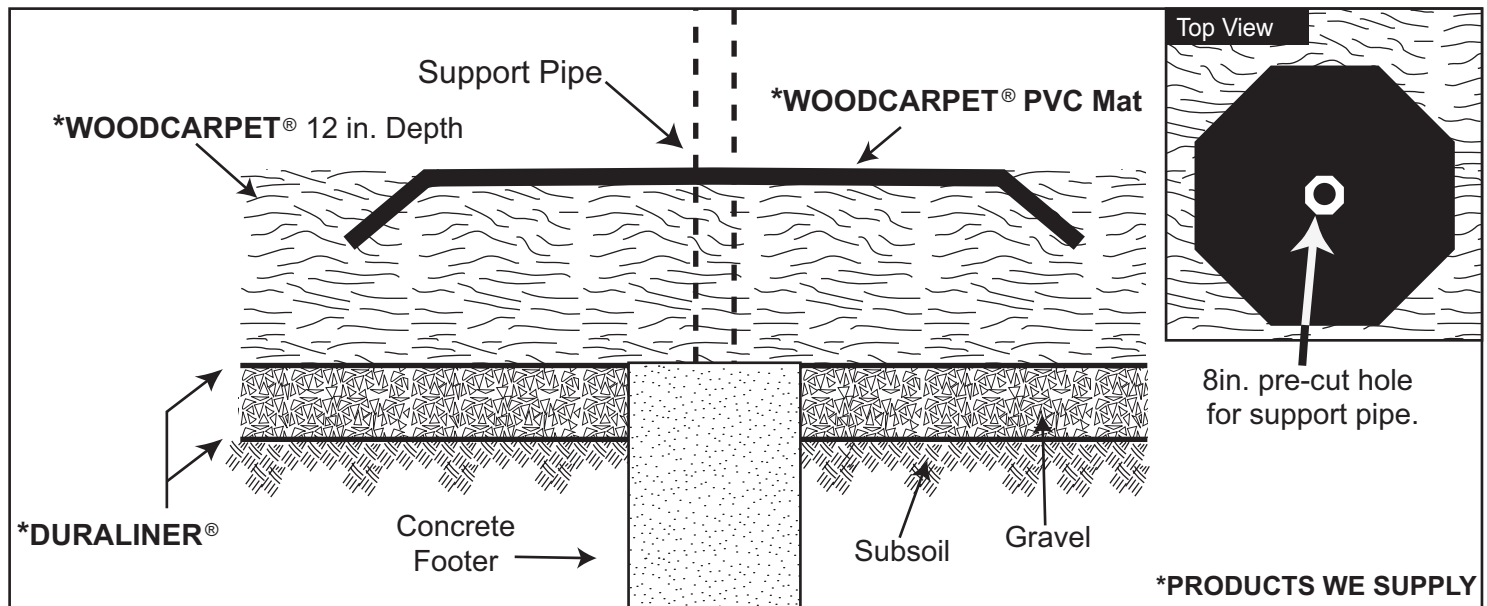
H. Products

1. Engineered Wood Fiber Playground Surfacing: WOODCARPET®
 - a. Composition:
 - (1) Premium Woodcarpet contains 100% pre-consumer recovered wood.
 - (2) Recycled Woodcarpet may contain up to 100% post-consumer recovered wood.
 - b. Dimensions: Randomly sized wood fibers.
 - c. Sieve Analysis, ASTM F2075-04: Meets criteria.
 - d. Hazardous metal, ASTM F2075-04: Meets criteria.
 - e. Tramp metal, ASTM F2075-04: Meets criteria.
 - f. Impact, ASTM F1292-04: 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: 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. F1292-04 Tramp metals, Sieve analysis, Heavy Metals. F2075-04

2. Geotextile Fabric: DURALINER®
 - a. Composition: Non-woven, needle-punched, UV-treated, polypropylene or polyester fabric.
 - b. Recycled content: 0%.
 - c. Size: 5 to 6 feet wide x 250 feet long.
 - d. Weight, ASTM D3776: Min. 3.69 ounces per square yard.
 - e. Thickness, ASTM D5199: min.55 mils.
 - f. Grab Tensile Strength, ASTM D4632: min. 90 pounds.
 - g. Mullen Burst Strength, ASTM D3786: min. 132 pounds.
 - h. Puncture Resistance, ASTM D4833: min. 60 pounds.
 - i. Trapezoid Tearing Strength, ASTM D4533: min. 40 pounds.
 - j. Permittivity, ASTM D4491: min. 1.9 sec-1.
 - k. Flow Rate, ASTM D4491: min. 145 gallons per minute per sq.ft
 - l. Permeability, ASTM D4491: min. 0.24 centimeters per second.

3. Playground Surfacing Wear Mat: WOODCARPET® PVC MAT
 - A. Composition: Recycled high grade PVC, 60 percent; and virgin PVC, 40 percent.
 - B. Size: 78 in. x 78 in. [tire swings]- 130lbs
78 in. x 90 in. [swing bay]- 150lbs.
 - C. Thickness: 3/4-1" in..
 - D. Drainage Holes: 3/8 in. diameter holes on 2-3 in. centers both directions.
 - E. Impact, ASTM F 1292: Maximum 340 HIC and 70 G over 11.25 in. of WOODCARPET® from 12 ft. fall height at 23° C.
 - F. IPEMA Certified: WOODCARPET® PVC mat over 11.25 in. of WOODCARPET® rated to 12 ft.
 - G. Durometer, Shore A: 20 plus or minus 3.
 - H. Tensile Strength: 592 psi.
 - I. Elongation: 475 percent.
 - J. Tear Strength: 84 pounds per i

- A. Product Data:** Submit manufacturer's product data, including warranty, maintenance and installation instructions, F1292 test results, IPEMA certificate of compliance, and samples. To obtain a certificate, visit www.ipema.org, product # WM11W.
- B. Manufacturer Qualifications:**
1. Member of International Play Equipment Manufacturer's Association (IPEMA).
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- 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 Hardwood Co., 340 Steele Road, Franklin, KY 42134. Toll Free (800) 296-9227.



E. Application: Kick-out area around base of upright vertical spinning play equipment on outdoor playground surfaces.

F. Installation Procedure:

1. Install play equipment support pipe.
2. Ensure that there is a minimum of 12 in. (305mm) of WOODCARPET® that is level and compacted.
3. Lay out the WOODCARPET® PVC Mat (mat edges and corners sloped down) to cover the kick-out area. The support pipe should fit through the hole in the center of the mat.
4. Under the outside edge of the mat, dig out a channel in the WOODCARPET® to allow about 6 in. (16cm) of the mat edges to drop down into the channel. 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°.
5. Refill and compact the channel around the edge of the mat with WOODCARPET®.
6. Finish installing the equipment.

H. Products

1. Engineered Wood Fiber Playground Surfacing: WOODCARPET®
 - a. Composition:
 - (1) Premium Woodcarpet contains 100% pre-consumer recovered wood.
 - (2) Recycled Woodcarpet may contain up to 100% post-consumer recovered wood.
 - b. Dimensions: Randomly sized wood fibers.
 - c. Sieve Analysis, ASTM F2075-04: Meets criteria.
 - d. Hazardous metal, ASTM F2075-04: Meets criteria.
 - e. Tramp metal, ASTM F2075-04: Meets criteria.
 - f. Impact, ASTM F1292-04: 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: 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. F1292-04 Tramp metals, Sieve analysis, Heavy Metals. F2075-04

2. Geotextile Fabric: DURALINER®
 - a. Composition: Non-woven, needle-punched, UV-treated, polypropylene or polyester fabric.
 - b. Recycled content: 0%.
 - c. Size: 5 to 6 feet wide x 250 feet long.
 - d. Weight, ASTM D3776: Min. 3.69 ounces per square yard.
 - e. Thickness, ASTM D5199: min. 55 mils.
 - f. Grab Tensile Strength, ASTM D4632: min. 90 pounds.
 - g. Mullen Burst Strength, ASTM D3786: min. 132 pounds.
 - h. Puncture Resistance, ASTM D4833: min. 60 pounds.
 - i. Trapezoid Tearing Strength, ASTM D4533: min. 40 pounds.
 - j. Permittivity, ASTM D4491: min. 1.9 sec-1.
 - k. Flow Rate, ASTM D4491: min. 145 gallons per minute per sq.ft
 - l. Permeability, ASTM D4491: min. 0.24 centimeters per second.

3. Playground Surfacing Wear Mat: WOODCARPET® PVC Mat
 - A. Composition: Recycled high grade PVC, 60 percent; and virgin PVC, 40 percent.
 - B. Size: 42 in. x 42 in. [slide exits]
 42 in. x 78 in. [swings]
 78 in. x 78 in. [tire swings]
 78 in. x 78 in. w/ 8in. center hole [upright vertical spinners]
 78 in. x 90 in. [swing bay]
 - C. Thickness: 3/4 in..
 - D. Drainage Holes: 3/8 in. diameter holes on 2-3 in. centers both directions.
 - E. Impact, ASTM F 1292: Maximum 340 HIC and 70 G over 11.25 in. of WOODCARPET® from 12 ft. fall height at 23° C.
 - F. IPEMA Certified: WOODCARPET® PVC Mat over 11.25 in. of WOODCARPET® rated to 12 ft.
 - G. Durometer, Shore A: 20 plus or minus 3.
 - H. Tensile Strength: 592 psi.
 - I. Elongation: 475 percent.
 - J. Tear Strength: 84 pounds per in.

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B. Manufacturer Qualifications:

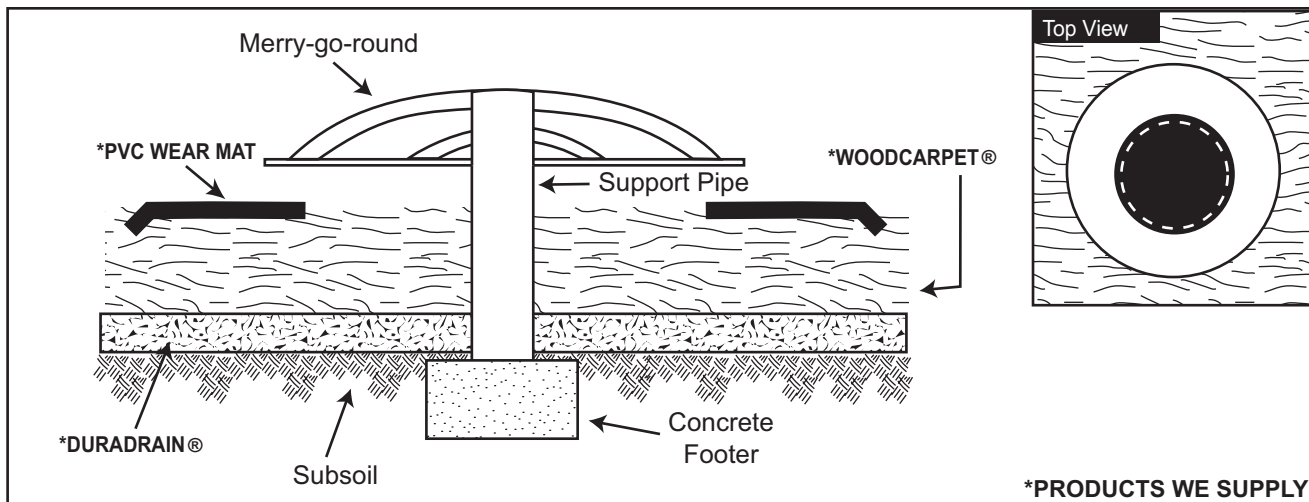
1. Member of International Play Equipment Manufacturer's Association (IPEMA).
2. Total Liability Insurance Coverage: \$11,000,000.
3. Sales Representatives certified by National Playground Safety Institute (NPSI).

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 Hardwood Co., 340 Steele Road, Franklin, KY 42134. Toll Free (800) 296-9227.



E. Application: Kick-out area around merry-go-round on outdoor playground surfaces.

F. Installation Procedure:

1. Install concrete footer and support pipe.
2. Install DURADRAIN® and WOODCARPET®. Make sure that the WOODCARPET® has been leveled and compacted around and under the merry-go-round.
3. Layout the mat, smooth side up, to cover the expected kickout area around the merry-go-round.
4. Under the outside edge of the mat, dig out a channel in the WOODCARPET® to allow approximately 6 in. (160mm) of the mat edge to drop down into the channel. It may be necessary to round the edge of the WOODCARPET® under the mat to allow the edge to hang down into the channel.
5. Refill and compact the channel around the edge of the mat with WOODCARPET®.
6. Finish installing the merry-go-round.
7. Ensure that the height of the merry-go-round above the mat and WOODCARPET® meet the requirements of ASTM F1487 section 8 or CAN/CSA-Z614 section 15.

G. Installation procedure for merry-go-rounds already installed:

1. Make sure the WOODCARPET® has been leveled and compacted around and under the merry-go-round.
2. Measure the widest diameter of the merry-go-round.
3. If possible, slip the mat over the merry-go-round, and proceed to step 8. If this is not possible, proceed to step 4.
4. Cut the PVC wear mat with a sharp utility knife at 4 quarters from the inner diameter of the mat to the diameter that equals the widest diameter of the merry-go-round. If cut correctly all cuts will be hidden under the merry-go-round.
5. Fit the cut mat over the merry-go-round. The smooth side of the mat should be up and the beveled edge should point down.
6. Glue the cuts in the mat with Bond Tech super glue (www.bondtechglue.com Tel# 941-627-9334). Be sure to keep the seams clean and flat.
7. Hold the glued surfaces in place for two minutes. Let the mat set undisturbed for at least 15 minutes.
8. Under the outside edge of the mat, dig out a channel in the WOODCARPET® to allow approximately 6 in. (160mm) of the mat edge to drop down into the channel. It may be necessary to round the edge of the WOODCARPET® under the mat to allow the edge to hang down into the channel.
9. Refill and compact the channel around the edge of the mat with WOODCARPET®.
10. Ensure that the height of the merry-go-round above the mat and WOODCARPET® meet the requirements of ASTM F1487 section 8 or CAN/CSA-Z614 section 15.

H. Notes

1. Impact attenuation is provided by the WOODCARPET® under the mat, not by the mat itself.

I. Products**1. Engineered Wood Fiber Playground Surfacing: WOODCARPET®****a. Composition:**

(1) Premium Woodcarpet contains 100% pre-consumer recovered wood.

(2) Recycled Woodcarpet may contain up to 100% post-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: 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 to F1292: 8 inch thickness rated to 8ft. and 12 inches rated to 12 ft. 9" over 1" Duradrain rated to 12ft.

k. IPEMA Certification to F2075: Tramp metal, sieve analysis & heavy metals.

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 non-woven geotextile fabric.

d. Size: 40 in. x 88 in.

e. Weight: 89 ounces per square yard.

f. Thickness: 1 inch - (25mm).

g. Density: 86 ounces per cubic foot.

h. Transmissivity, ASTM D4716: 2.9 x 10⁽⁻⁴⁾ square yards per second.

i. Permeability, ASTM D2434: 4.5 x 10⁽⁻²⁾ centimeters per second.

j. Flow Rate, ASTM D2434: .381 gallons per minute per square foot.

k. Impact, ASTM F1292: 1" Alone meets criteria up to 2½ feet.

l. IPEMA Certified: Under 9 inches of Woodcarpet, rated to 12ft.

4. Playground Surfacing Wear Mat: WOODCARPET MAT®

A. Composition: Recycled high grade PVC, 60 percent; and virgin PVC, 40 percent.

B. Size: 42 in. x 42 in. [slide exits]

42 in. x 78 in. [swings]

78 in. x 78 in. [tire swings]

78 in. x 90 in. [swing bay]

78 in. x 78 in. [Spica or Vega]

156 in. O.D. x 73.5 in. I.D. [ring piece for Supernova & merry-go-rounds]

67.5 in. O.D. [center piece for Supernova]

C. Thickness: 3/4 in..

D. Drainage Holes: 3/8 in. diameter holes on 2-3 in. centers both directions.

E. Impact, ASTM F 1292: Maximum 340 HIC and 70 G over 11.25 in. of WOODCARPET® from 12 ft. fall height at 23° C.

F. IPEMA Certified: WOODCARPET MAT® over 11.25 in. of WOODCARPET® rated to 12 ft.

G. Durometer, Shore A: 20 plus or minus 3.

H. Tensile Strength: 592 psi.

I. Elongation: 475 percent.

J. Tear Strength: 84 pounds per in.