




# HORSECARPET<sup>®</sup>



RESILIENT WOOD SURFACING

## SPECIFICATION PACKET

Less strain while  
you train!

-  Easy to maintain
-  Reduces the potential for leg strain injuries
-  Ideal footing for traction, even in bad weather conditions



1-800-296-9227



1-800-346-8524

[horsecarpet.com](http://horsecarpet.com)



PA Office 1-800-346-8524  
FAX 717-944-7681

KY Office 1-800-296-9227  
FAX 270-586-4493

**horsecarpet.com**

## CONDITIONAL LIMITED WARRANTY

HORSECARPET® and DURALINER®

Zeager warrants its products to be free from defect in materials and workmanship, and to meet our published specifications when received by Zeager's customer.

This warranty is valid only if the product has not been subjected to vandalism, misuse, neglect, or accident; has not been subjected to addition or substitution of material; and has not been modified or altered, by persons other than Zeager or its designees, in any respect which, in the judgment of Zeager, affects the condition or performance of the product. This warranty does not cover fading, weathering, discoloring, biological degradation or normal wear and tear.

Should any failure to conform to this express warranty occur, Zeager shall, upon receipt of written notification of the defect, correct such nonconformity, either by supplying replacement product or by refunding the purchase price by issuing a credit to the customer's account, at Zeager's election and within 60 days of the written notification. This shall be the purchaser's sole remedy and Zeager will not be responsible for any consequential damage attributed to the defective product. To the extent permitted by law, Zeager shall not be liable for any direct, indirect, special, incidental, or consequential damages which are expressly excluded from this warranty. If Zeager elects to supply replacement product, Zeager shall deliver the replacement product to the site free of charge, but will not be responsible for providing labor or the cost of removal of the defective product and the installation of any replacement product.

This warranty is exclusive and is in lieu of all other warranties, whether express or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose. Further, no representation, oral or written, of any Zeager representative may be substituted for the aforementioned exclusive limited warranty.

There are no warranties that extend beyond this warranty.

To make claims under the terms of this warranty, the Buyer's written statement of claim, along with a copy of the invoice, and supporting photographs and samples, must be sent to Zeager Bros., Inc., 4000 E. Harrisburg Pike, Middletown, PA 17057-4697 USA. Supporting documentation must be provided to Zeager within ten (10) days of receipt of product.



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## **DARK LIQUID COMING FROM UNDERNEATH HORSECARPET®**

Please do not be alarmed about the dark liquid coming from the HORSECARPET®. A sample was taken of a similar dark liquid from another playground, and we found it to be tannins washing off the wood fiber material. The liquid was tested and found to have a pH in the normal range of drinking water. The stain associated with this liquid will bleach out in a period of time when sunlight is present, or will cease to exist after several rain storms. The dark liquid is externally harmless to humans.

If you have any future problems, please call us at 1-800-346-8524.

THANK YOU!

Ernie Miller  
Fiber Products Manager



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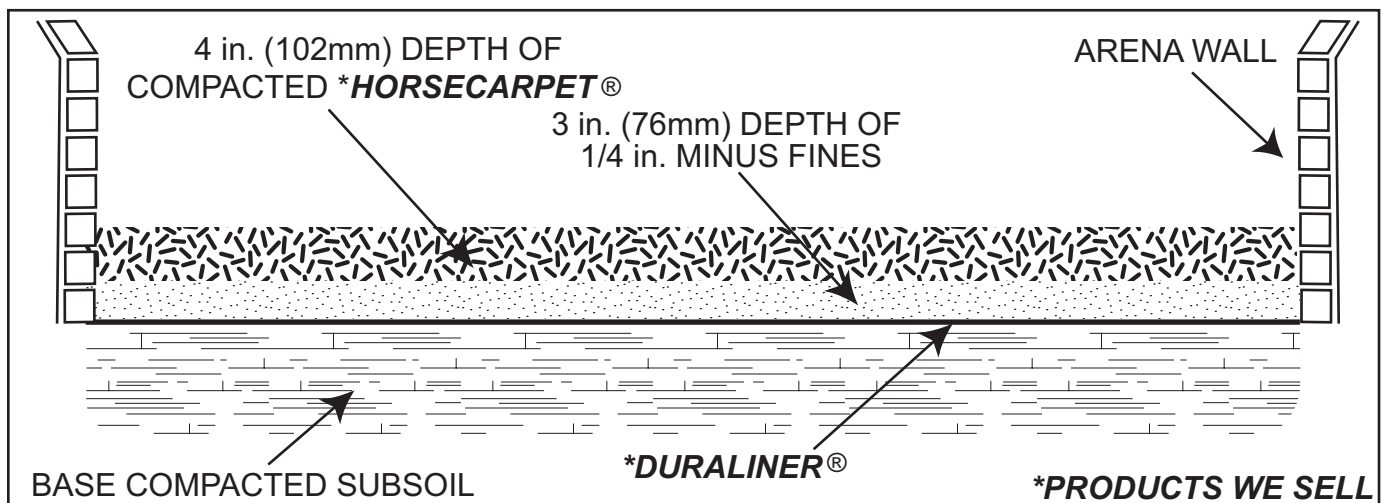
## ZEAGER JOB SPEC 21

APPLICATION: INDOOR ARENA- Indoor arenas normally range from 60 x 120 to 120 x 240 ft.

### PRODUCT FUNCTIONS:

**HORSECARPET®:** Loose fill engineered wood footing that when installed and maintained properly, provides a consistent, resilient and stable surface.

**DURALINER®:** 2 types: Non-woven polypropylene fabric, needle punched, UV-Treated or Thermal bond Polyester UV treated. Used as a barrier to keep the subsoil and gravel from mixing together.



### RECOMMENDED INSTALLATION PROCEDURE:

1. Excavate as necessary and compact the subsoil.
2. Install a layer of DURALINER®, overlap seam 10 in.
3. Spread 1/4 in. minus fines to a depth of 3 in.
4. Level this out, wet down and pack (using a roller or tamper).
5. Spread HORSECARPET® over the fines to a depth of 4 in. compacted.
6. Drag, soak and roll the HORSECARPET® to increase compaction and firmness.

### MISCELLANEOUS INFORMATION

1. A constant balance of moisture is important. Drainage is necessary to remove excess moisture. The proper amount of moisture will cause HORSECARPET® to knit together and compact. If HORSECARPET® becomes too dry, wet it down, drag it and roll it.
2. HORSECARPET® can become too tight for gymkhana sports (e.g. barrel racing, reining, pole bending, jumping, etc.). Personal experience will determine your preference for conditioning the surface to the type of riding in which you are involved.

# SPECIFICATION 21

## Products

### 1. Engineered Wood Fiber Equine Footing: HORSECARPET®

#### A. Composition:

1. Recently harvested and debarked North American hard woods, including oak, maple, ash, poplar, hickory, beech, birch, eucalyptus, and locust.
2. No cherry, walnut or yew is used.
3. In certain locations, recently harvested and debarked North American coniferous woods.
4. Free of soil, leaves, twigs, and other contaminants which hasten decomposition.
5. Free of chemical treatments and additives.
6. Free of waste wood and recycled wood from pallets.

#### B. Dimensions:

1. Randomly sized.
2. Approximately 10 times longer than wide.
3. 98 Percent of Dimensions: Maximum of 5.00 cm long, 2.5 cm wide, and 1.5 cm deep.
4. Gradation, Sieve Analysis, ASTM C 136, Cumulative Passing By Weight:
  - A.) 3/4 Inch Sieve: 95-100 percent.
  - B.) 3/8 Inch Sieve: 75-95 percent.
  - C.) No. 16 Sieve: 0-10 percent.

#### C. Properties:

1. Coefficient of Permeability, ASTM D 2434: Greater than 0.6 cm/s.
2. Moisture Absorption: Maximum of 150 percent by weight.
3. Moisture Content: 25 to 60 percent by weight.
4. Density: 15 to 24 pounds per cubic foot.
5. Resistant to Flammability, 16 FR Part 1630 Standard for Surface Flammability of Carpets and Rugs (FF1-70), Modified Procedure, Not Oven Dried: Meets criteria.
6. Flammable, 16 CFR 1500.44, Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids: Did not ignite.

### 2. Geotextile Fabric: DURALINER®

- a. Composition: Non-woven, needle-punched, UV-treated, polypropylene or thermal bonded 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.

## HORSECARPET® MAINTENANCE RECOMMENDATIONS

### Daily

- Remove debris, litter, and foreign material such as stones, branches, etc.

### Weekly/Monthly

- Periodic leveling may be necessary. For training tracks and large areas, a piece of chain link fence with little or no weight on it can be pulled behind a tractor to quickly level the surface. Smaller areas may require raking.
- It may be necessary to periodically compact the HORSECARPET® by watering and using a roller after leveling.
- Applying water will help the HORSECARPET® compact, knit together, and remain in place along with reducing dust.

### Seasonally

- During a dry season it will be necessary to wet the surface of the HORSECARPET® more frequently to keep it pliable and resilient.
- During a rainy season, check the functioning of the drainage system by checking the water flow from an effluent pipe immediately after rain. You may also check for standing water by digging through the HORSECARPET® to the DURALINER®. The water level should be below the fabric within 30 minutes after the rain ceases. A properly functioning drainage system will enhance the life and use of the HORSECARPET®.
- During freezing conditions, HORSECARPET® may lose some resiliency. Adjust use of the surfacing accordingly.

### Notes

- HORSECARPET® is subject to normal wear and tear and will require "topping off" occasionally, depending on the type of installation and amount of use.
- The above recommendations are based on average climate and use. In a dry or wet climate, or during heavy use, more frequent maintenance may be necessary.
- For more information, contact a Zeager representative.



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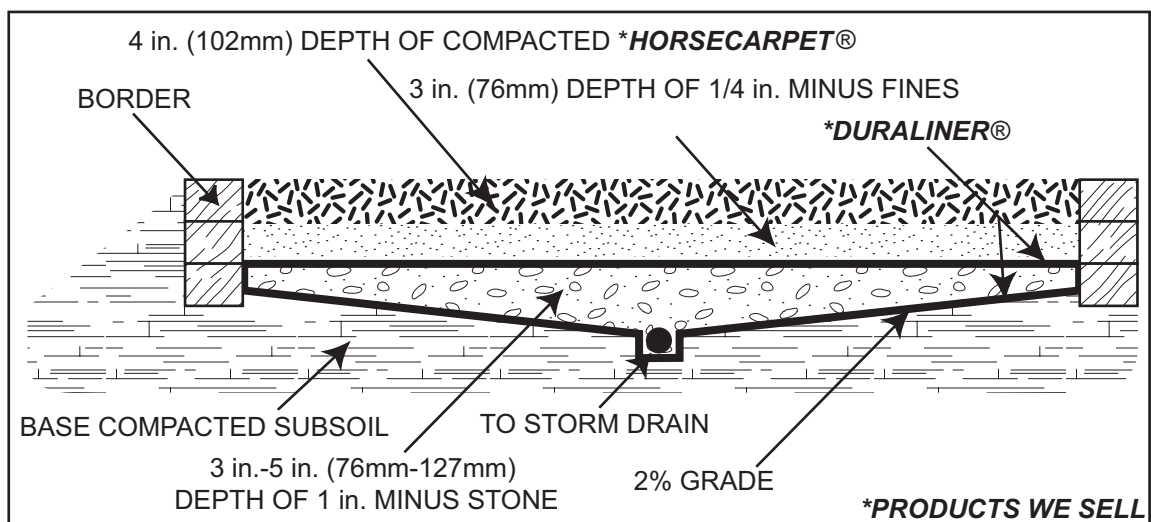
## ZEAGER JOB SPEC 22

APPLICATION: OUTDOOR ARENAS - Drainage is the key to a long-lasting outdoor arena.

### PRODUCT FUNCTIONS:

**HORSECARPET®:** Loose fill engineered wood footing that when installed and maintained properly, provides a consistent, resilient and stable surface.

**DURALINER®:** 2 types: Non-woven polypropylene fabric, needle punched, UV-Treated or Thermal bond Polyester UV treated. Used as a barrier to keep the subsoil and gravel from mixing together.



### RECOMMENDED INSTALLATION PROCEDURE:

1. Grade the subsoil toward the center at a 2% grade so that it will drain.
2. Thoroughly compact subsoil.
3. Install a layer of DURALINER® on the subsoil, overlap seam 10 in.
4. Install 6 in. drainage pipe covered with DURALINER® in the low point of the subsoil trench lined with stone (to take runoff to a storm drain or catch basin).
5. Spread 1 in. minus stone over the DURALINER® to a depth of 3-5 in.
6. Install a second layer of DURALINER® over the 1 in. minus stone, overlap seam 10 in.
7. Spread 1/4 in. minus fines over the DURALINER® to a depth of 3 in. Wet and compact.
8. Spread HORSECARPET® to a depth of 4 in. compacted.

### MISCELLANEOUS INFORMATION

1. A consistent balance of moisture is important. Drainage is necessary to remove excess moisture. The proper amount of moisture will cause HORSECARPET® to knit together and compact. If HORSECARPET® becomes too dry, wet it down, drag it and roll it.
2. HORSECARPET® can become too tight for gymkhana sports (e.g. barrel racing, reining, pole bending, jumping, etc.). Personal experience will determine your preference for conditioning the surface to the type of riding in which you are involved.

## SPECIFICATION 22

### Products

#### 1. Engineered Wood Fiber Equine Footing: HORSECARPET®

##### A. Composition:

1. Recently harvested and debarked North American hard woods, including oak, maple, ash, poplar, hickory, beech, birch, eucalyptus, and locust.
2. No cherry or walnut is used.
3. In certain locations, recently harvested and debarked North American coniferous woods.
4. No yew is used.
5. Free of soil, leaves, twigs, and other contaminants which hasten decomposition.
6. Free of chemical treatments and additives.
7. Free of waste wood and recycled wood from pallets.

##### B. Dimensions:

1. Randomly sized.
2. Approximately 10 times longer than wide.
3. 98 Percent of Dimensions: Maximum of 5.00 cm long, 2.5 cm wide, and 1.5 cm deep.
4. Gradation, Sieve Analysis, ASTM C 136, Cumulative Passing By Weight:
  - A.) 3/4 Inch Sieve: 95-100 percent.
  - B.) 3/8 Inch Sieve: 75-95 percent.
  - C.) No. 16 Sieve: 0-10 percent.

##### C. Properties:

1. Coefficient of Permeability, ASTM D 2434: Greater than 0.6 cm/s.
2. Moisture Absorption: Maximum of 150 percent by weight.
3. Moisture Content: 25 to 60 percent by weight.
4. Density: 15 to 24 pounds per cubic foot.
5. Resistant to Flammability, 16 FR Part 1630 Standard for Surface Flammability of Carpets and Rugs (FF1-70), Modified Procedure, Not Oven Dried: Meets criteria.
6. Flammable, 16 CFR 1500.44, Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids: Did not ignite.

#### 2. Geotextile Fabric: DURALINER®

- a. Composition: Non-woven, needle-punched, UV-treated, polypropylene or thermal bond 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.

## HORSECARPET® MAINTENANCE RECOMMENDATIONS

### Daily

- Remove debris, litter, and foreign material such as stones, branches, etc.

### Weekly/Monthly

- Periodic leveling may be necessary. For training tracks and large areas, a piece of chain link fence with little or no weight on it can be pulled behind a tractor to quickly level the surface. Smaller areas may require raking.
- It may be necessary to periodically compact the HORSECARPET® by watering and using a roller after leveling.
- Applying water will help the HORSECARPET® compact, knit together, and remain in place along with reducing dust.

### Seasonally

- During a dry season it will be necessary to wet the surface of the HORSECARPET® more frequently to keep it pliable and resilient.
- During a rainy season, check the functioning of the drainage system by checking the water flow from an effluent pipe immediately after rain. You may also check for standing water by digging through the HORSECARPET® to the DURALINER®. The water level should be below the fabric within 30 minutes after the rain ceases. A properly functioning drainage system will enhance the life and use of the HORSECARPET®.
- During freezing conditions, HORSECARPET® may lose some resiliency. Adjust use of the surfacing accordingly.

### Notes

- HORSECARPET® is subject to normal wear and tear and will require "topping off" occasionally, depending on the type of installation and amount of use.
- The above recommendations are based on average climate and use. In a dry or wet climate, or during heavy use, more frequent maintenance may be necessary.
- For more information, contact a Zeager representative.

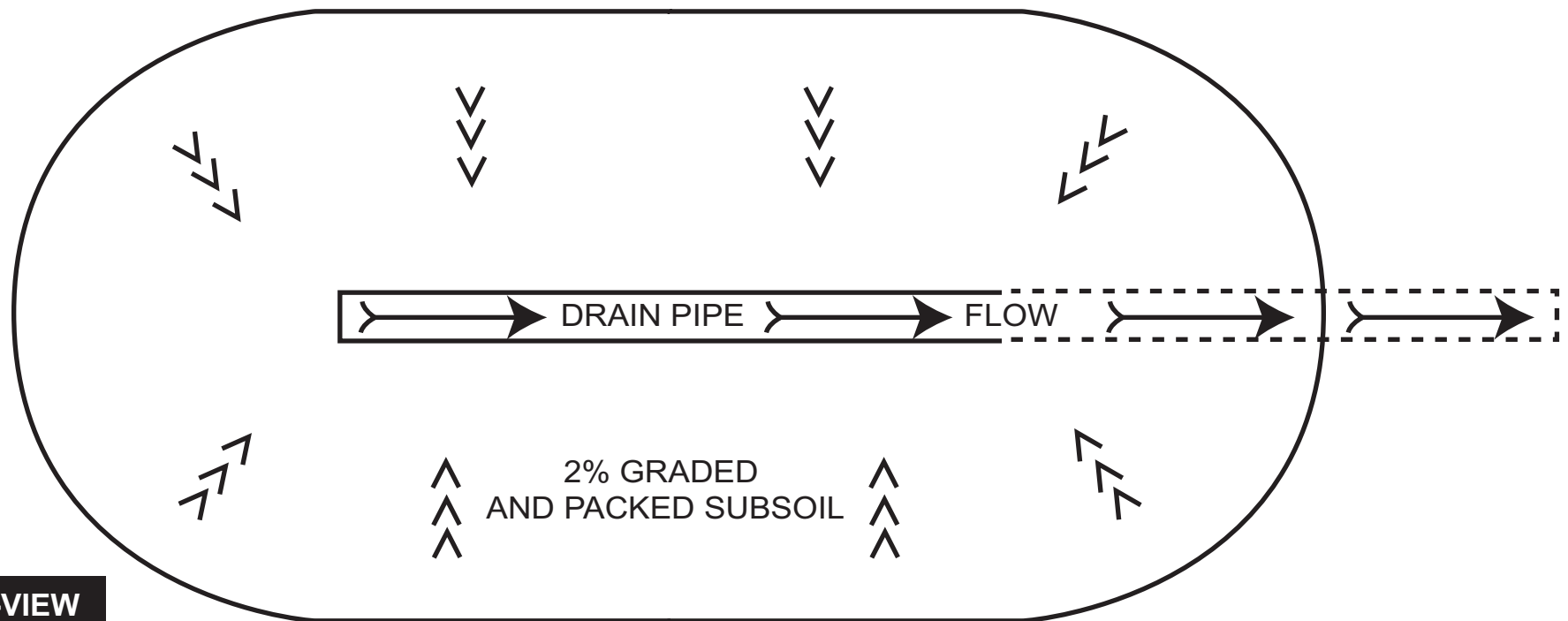


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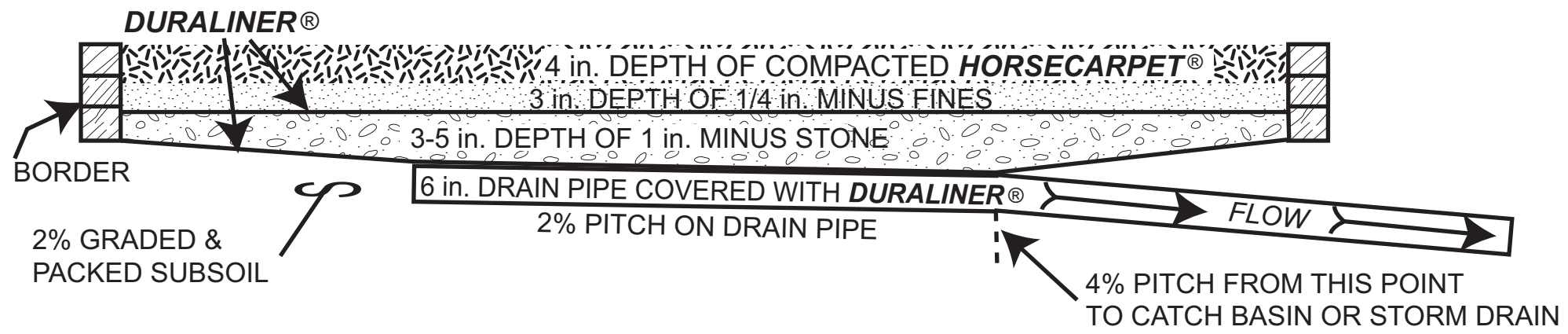
**OUTDOOR ARENA DRAIN FIELD**

**TO BE USED WITH ZEAGER JOB SPEC 22**

**TOP-VIEW**



**SIDE-VIEW**







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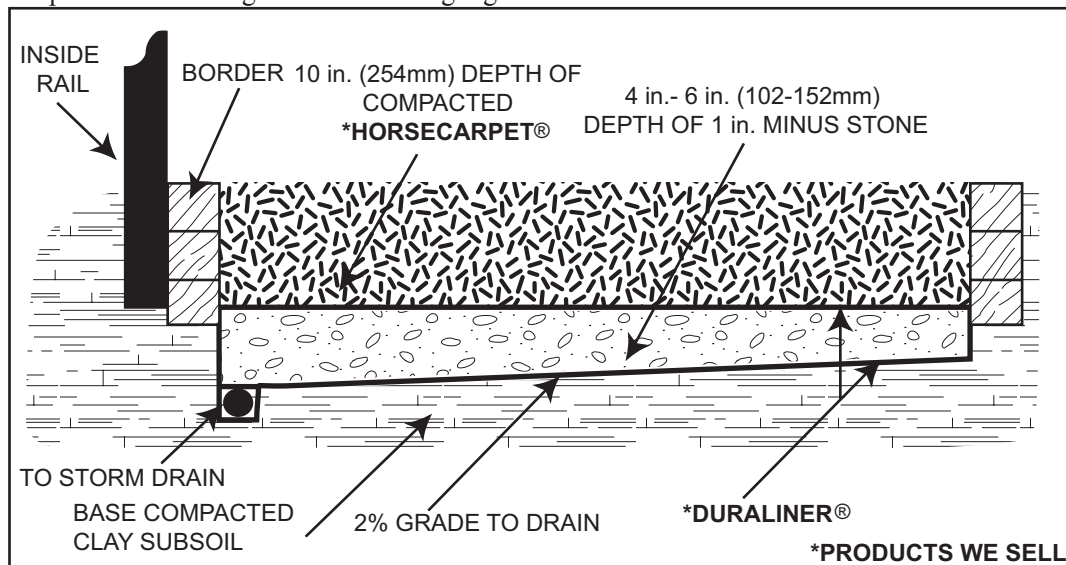
## ZEAGER JOB SPEC 23

APPLICATION: TRAINING TRACK. A well drained base is the key to a functional training track.

### PRODUCT FUNCTIONS:

**HORSECARPET®:** Loose fill engineered wood footing that when installed and maintained properly, provides a consistent, resilient and stable surface.

**DURALINER®:** 2 types: Non-woven polypropylene fabric, needle punched, UV-Treated or Thermal bond Polyester UV treated. Used as a barrier to keep the subsoil and gravel from mixing together.



### RECOMMENDED INSTALLATION PROCEDURE:

\*It is recommended that a soil or highway/road engineer design the layout and the drainage of your HORSECARPET® training track.

1. Grade the subsoil toward the inside rail at a 2% grade so that it will drain. A clay base is best since it will prevent the absorption of too much water that would lead to a collapse on the elevated portion of the track.
2. Thoroughly compact the subsoil.
3. Lateral drainage ditches should be installed according to the engineer's recommendations. (see attachment)
4. Install a layer of DURALINER®, overlap seams 10 in.
5. Install drainage pipes where indicated and cover with DURALINER®. Pipes should ultimately lead runoff to a storm drain or catch basin.
6. Spread and compact 1 in. minus stone to a depth of 6 in.
7. Install a second layer of DURALINER®, overlap seams 10 in.
8. Spread HORSECARPET® to a depth of ten inches compacted. For a consistent surface, spread HORSECARPET® in two lifts, leveling, wetting, and compacting each lift.

HORSECARPET® takes two to four weeks to "break-in", depending upon moisture content and usage. Consistent moisture will aid the break-in process. For a firmer surface, drag with chain link fence to level, wet down and compact with a roller.

### MISCELLANEOUS INFORMATION

1. A consistent balance of moisture is important. Drainage is necessary to remove excess moisture. The proper amount of moisture will cause HORSECARPET® to knit together and compact. If HORSECARPET® becomes too dry, wet it down, drag it and roll it.

# SPECIFICATION 23

## Products

### 1. Engineered Wood Fiber Equine Footing: HORSECARPET®

#### A. Composition:

1. Recently harvested and debarked North American hard woods, including oak, maple, ash, poplar, hickory, beech, birch, eucalyptus, and locust.
2. No cherry or walnut is used.
3. In certain locations, recently harvested and debarked North American coniferous woods.
4. No yew is used.
5. Free of soil, leaves, twigs, and other contaminants which hasten decomposition.
6. Free of chemical treatments and additives.
7. Free of waste wood and recycled wood from pallets.

#### B. Dimensions:

1. Randomly sized.
2. Approximately 10 times longer than wide.
3. 98 Percent of Dimensions: Maximum of 5.00 cm long, 2.5 cm wide, and 1.5 cm deep.
4. Gradation, Sieve Analysis, ASTM C 136, Cumulative Passing By Weight:
  - A.) 3/4 Inch Sieve: 95-100 percent.
  - B.) 3/8 Inch Sieve: 75-95 percent.
  - C.) No. 16 Sieve: 0-10 percent.

#### C. Properties:

1. Coefficient of Permeability, ASTM D 2434: Greater than 0.6 cm/s.
2. Moisture Absorption: Maximum of 150 percent by weight.
3. Moisture Content: 25 to 60 percent by weight.
4. Density: 15 to 24 pounds per cubic foot.
5. Resistant to Flammability, 16 FR Part 1630 Standard for Surface Flammability of Carpets and Rugs (FF1-70), Modified Procedure, Not Oven Dried: Meets criteria.
6. Flammable, 16 CFR 1500.44, Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids: Did not ignite.

### 2. Geotextile Fabric: DURALINER®

- a. Composition: Non-woven, needle-punched, UV-treated, polypropylene or thermal bond 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.

## HORSECARPET® MAINTENANCE RECOMMENDATIONS

### Daily

- Remove debris, litter, and foreign material such as stones, branches, etc.

### Weekly/Monthly

- Periodic leveling may be necessary. For training tracks and large areas, a piece of chain link fence with little or no weight on it can be pulled behind a tractor to quickly level the surface. Smaller areas may require raking.
- It may be necessary to periodically compact the HORSECARPET® by watering and using a roller after leveling.
- Applying water will help the HORSECARPET® compact, knit together, and remain in place along with reducing dust.

### Seasonally

- During a dry season it will be necessary to wet the surface of the HORSECARPET® more frequently to keep it pliable and resilient.
- During a rainy season, check the functioning of the drainage system by checking the water flow from an effluent pipe immediately after rain. You may also check for standing water by digging through the HORSECARPET® to the DURALINER®. The water level should be below the fabric within 30 minutes after the rain ceases. A properly functioning drainage system will enhance the life and use of the HORSECARPET®.
- During freezing conditions, HORSECARPET® may lose some resiliency. Adjust use of the surfacing accordingly.

### Notes

- HORSECARPET® is subject to normal wear and tear and will require "topping off" occasionally, depending on the type of installation and amount of use.
- The above recommendations are based on average climate and use. In a dry or wet climate, or during heavy use, more frequent maintenance may be necessary.
- For more information, contact a Zeager representative.



# TRAINING TRACK DRAIN FIELD TO BE USED WITH ZEAGER JOB SPEC 23

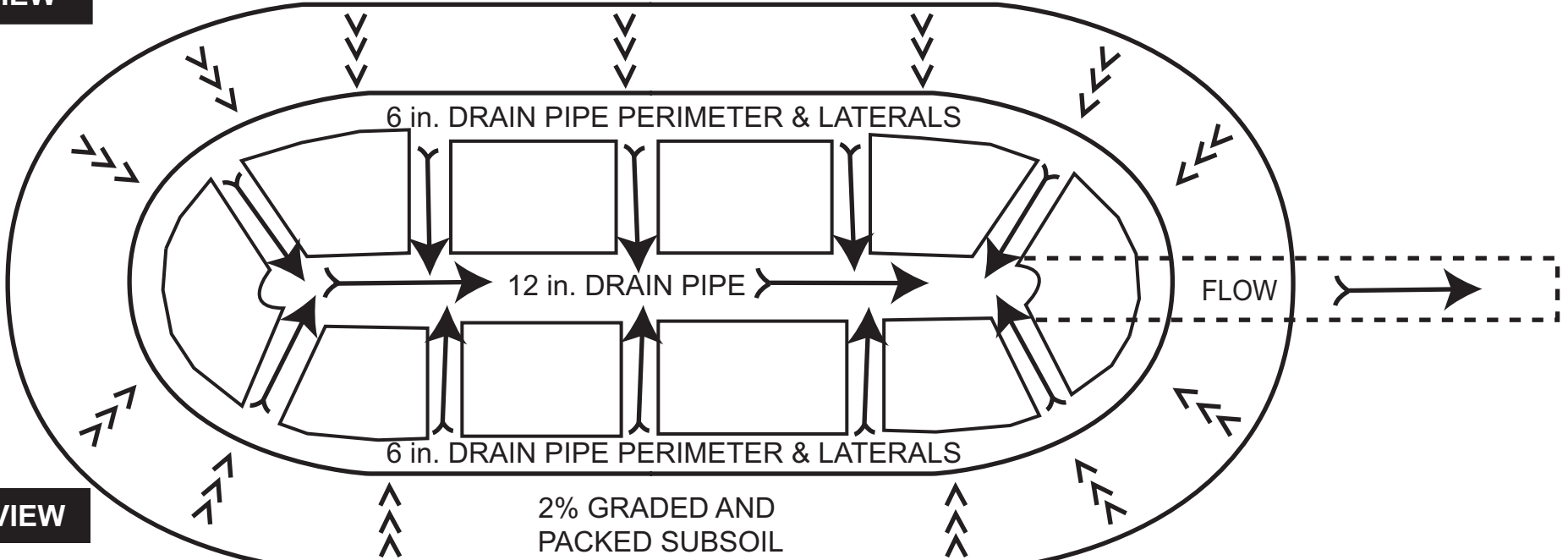
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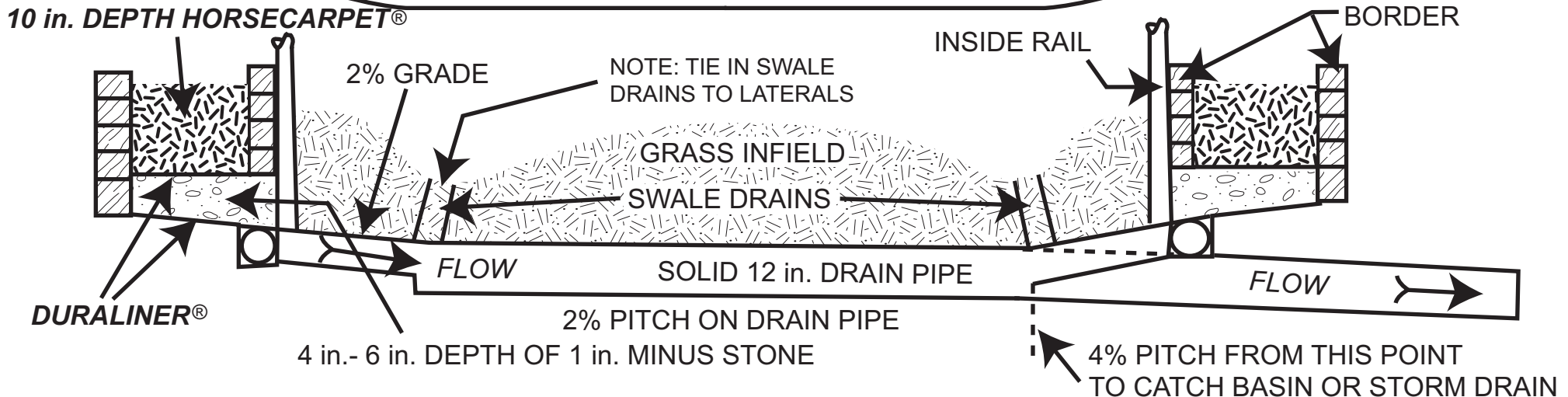
[horsecarpet.com](http://horsecarpet.com)

IT IS RECOMMENDED THAT A SOIL OR HIGHWAY/ROAD ENGINEER DESIGN THE LAYOUT AND THE DRAINAGE OF YOUR HORSECARPET® TRAINING TRACK.

## TOP-VIEW



## SIDE-VIEW





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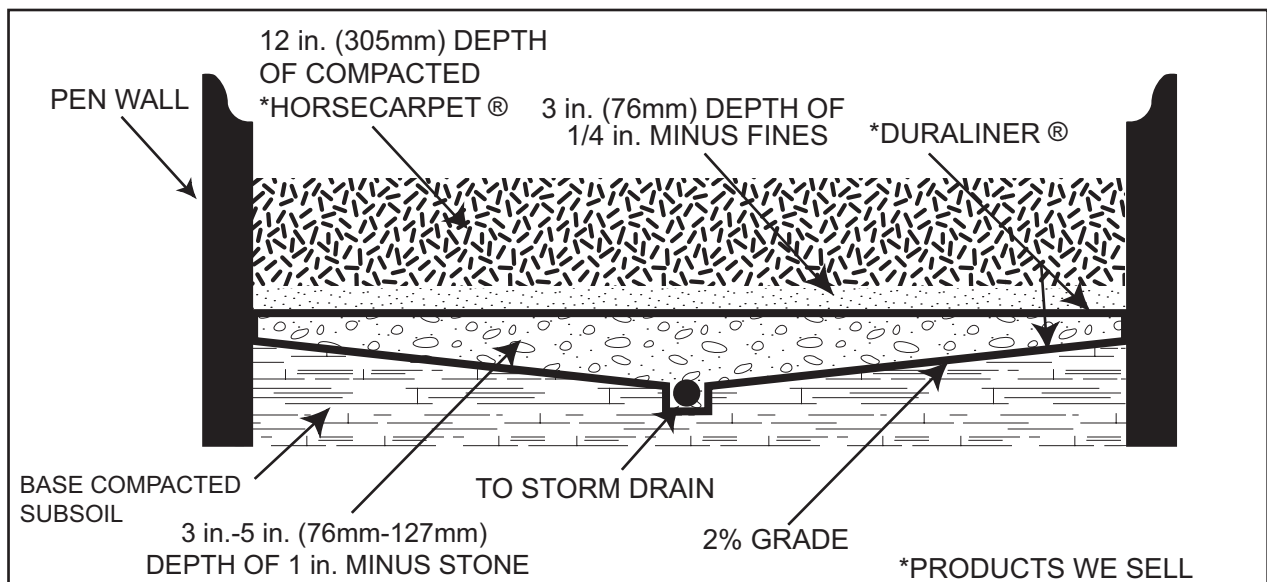
## ZEAGER JOB SPEC 24

APPLICATION: ROUND PEN OR LUNGING PEN - used for exercising the horse.

### PRODUCT FUNCTIONS:

**HORSECARPET®:** Loose fill engineered wood surfacing that when installed and maintained properly, provides a consistent, resilient and stable surface.

**DURALINER®:** 2 types: Non-woven polypropylene fabric, needle punched, UV-Treated or Thermal bond Polyester UV treated. Used as a barrier to keep the subsoil and gravel from mixing together.



### RECOMMENDED INSTALLATION PROCEDURE:

1. Grade the subsoil towards the center at a 2% grade so that it will drain.
2. Thoroughly compact the subsoil.
3. Install a layer of DURALINER®, overlap seam 10 in.
4. Install a 6 in. solid drainage pipe in the low point of the subsoil trench lined with stone. From the center of the pen, open an 18 in. section of the pipe and cover with DURALINER® to create a collection box.
5. Spread 1 in. minus stone over the DURALINER® to a depth of 3 in. - 5 in.
6. Install a second layer of DURALINER® over the drainage stone, overlap seam 10 in.
7. Spread 1/4 in. minus fines to a depth of 3 in., wet down and pack using a roller or tamper.
8. Spread HORSECARPET® to a depth of twelve inches compacted.

### MISCELLANEOUS INFORMATION

1. A consistent balance of moisture is important. Drainage is necessary to remove excess moisture. The proper amount of moisture will cause HORSECARPET® to knit together and compact. If HORSECARPET® becomes too dry, wet it down, drag it and roll it.
2. Periodic dragging or raking will be necessary to level the HORSECARPET®.

# SPECIFICATION 24

## Products

### 1. Engineered Wood Fiber Equine Footing: HORSECARPET®

#### A. Composition:

1. Recently harvested and debarked North American hard woods, including oak, maple, ash, poplar, hickory, beech, birch, eucalyptus, and locust.
2. No cherry or walnut is used.
3. In certain locations, recently harvested and debarked North American coniferous woods.
4. No yew is used.
5. Free of soil, leaves, twigs, and other contaminants which hasten decomposition.
6. Free of chemical treatments and additives.
7. Free of waste wood and recycled wood from pallets.

#### B. Dimensions:

1. Randomly sized.
2. Approximately 10 times longer than wide.
3. 98 Percent of Dimensions: Maximum of 5.00 cm long, 2.5 cm wide, and 1.5 cm deep.
4. Gradation, Sieve Analysis, ASTM C 136, Cumulative Passing By Weight:
  - A.) 3/4 Inch Sieve: 95-100 percent.
  - B.) 3/8 Inch Sieve: 75-95 percent.
  - C.) No. 16 Sieve: 0-10 percent.

#### C. Properties:

1. Coefficient of Permeability, ASTM D 2434: Greater than 0.6 cm/s.
2. Moisture Absorption: Maximum of 150 percent by weight.
3. Moisture Content: 25 to 60 percent by weight.
4. Density: 15 to 24 pounds per cubic foot.
5. Resistant to Flammability, 16 FR Part 1630 Standard for Surface Flammability of Carpets and Rugs (FF1-70), Modified Procedure, Not Oven Dried: Meets criteria.
6. Flammable, 16 CFR 1500.44, Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids: Did not ignite.

### 2. Geotextile Fabric: DURALINER®

- a. Composition: Non-woven, needle-punched, UV-treated, polypropylene or thermal bond 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.

## HORSECARPET® MAINTENANCE RECOMMENDATIONS

### Daily

- Remove debris, litter, and foreign material such as stones, branches, etc.

### Weekly/Monthly

- Periodic leveling may be necessary. For training tracks and large areas, a piece of chain link fence with little or no weight on it can be pulled behind a tractor to quickly level the surface. Smaller areas may require raking.
- It may be necessary to periodically compact the HORSECARPET® by watering and using a roller after leveling.
- Applying water will help the HORSECARPET® compact, knit together, and remain in place along with reducing dust.

### Seasonally

- During a dry season it will be necessary to wet the surface of the HORSECARPET® more frequently to keep it pliable and resilient.
- During a rainy season, check the functioning of the drainage system by checking the water flow from an effluent pipe immediately after rain. You may also check for standing water by digging through the HORSECARPET® to the DURALINER®. The water level should be below the fabric within 30 minutes after the rain ceases. A properly functioning drainage system will enhance the life and use of the HORSECARPET®.
- During freezing conditions, HORSECARPET® may lose some resiliency. Adjust use of the surfacing accordingly.

### Notes

- HORSECARPET® is subject to normal wear and tear and will require "topping off" occasionally, depending on the type of installation and amount of use.
- The above recommendations are based on average climate and use. In a dry or wet climate, or during heavy use, more frequent maintenance may be necessary.
- For more information, contact a Zeager representative.



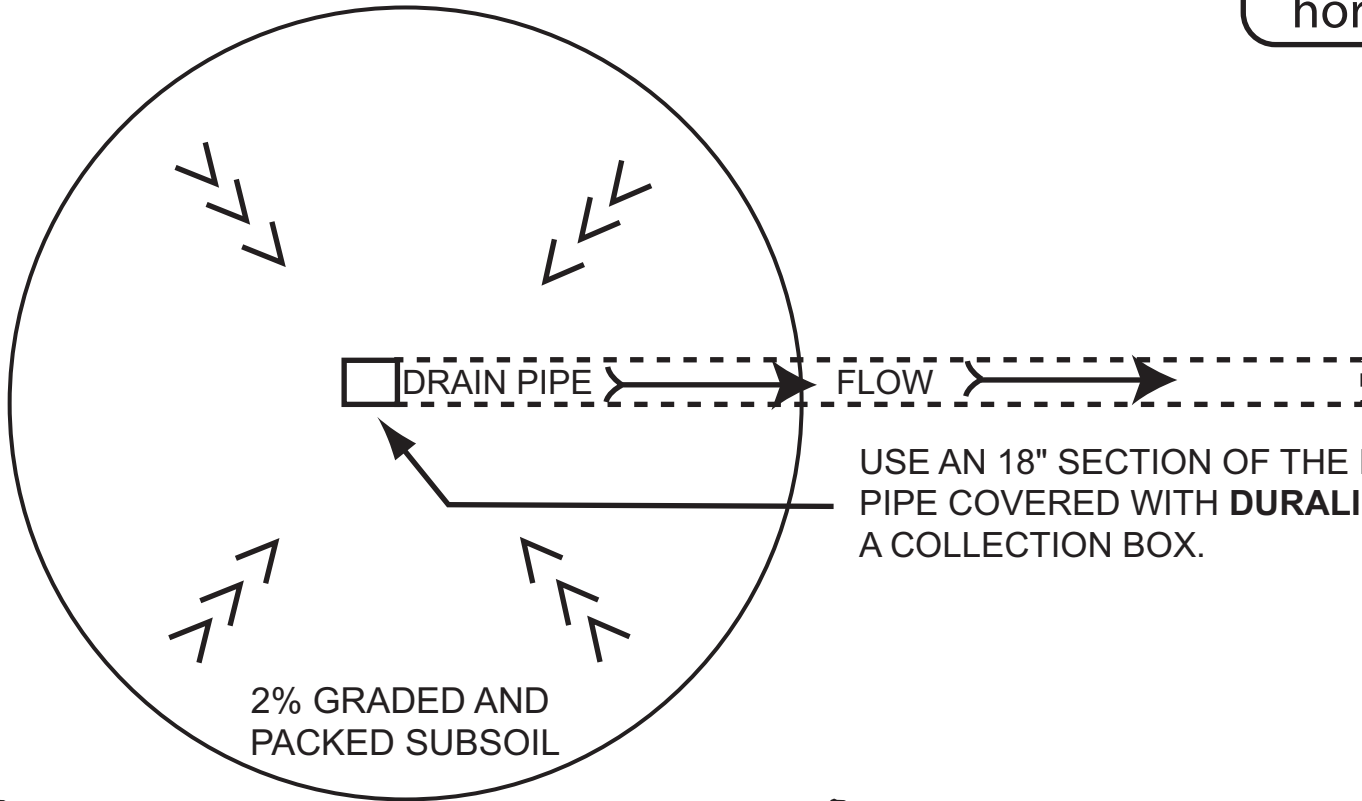
**ROUND PEN OR  
LOUNGING RING DRAIN FIELD  
TO BE USED WITH ZEAGER JOB SPEC 24**

PA Office 1-800-346-8524  
FAX 717-944-9514

KY Office 1-800-296-9227  
FAX 270-586-4493

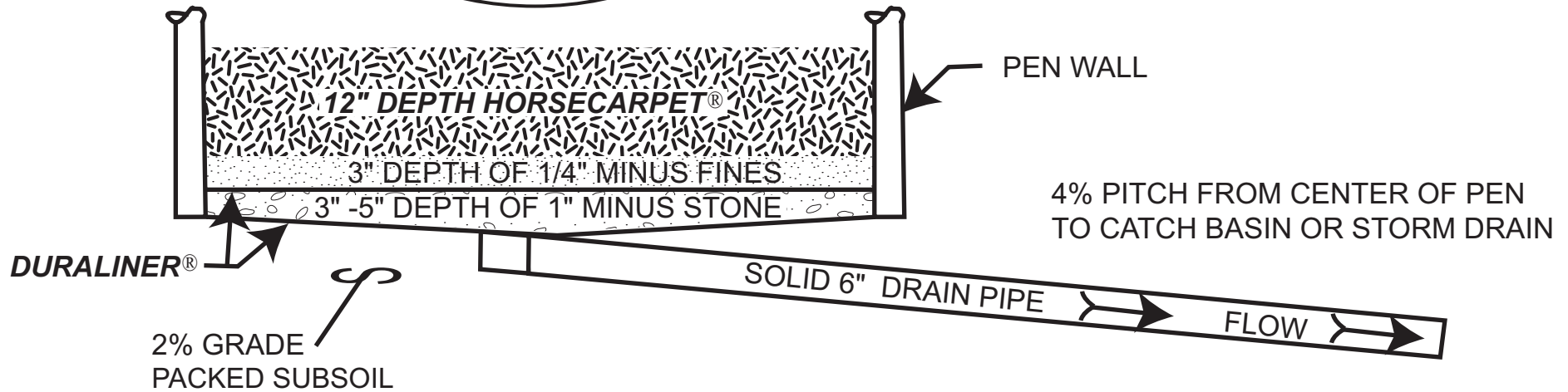
[horsecarpet.com](http://horsecarpet.com)

**TOP-VIEW**



USE AN 18" SECTION OF THE DRAIN PIPE COVERED WITH **DURALINER®** AS A COLLECTION BOX.

**SIDE-VIEW**





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FAX 717-944-9514

KY Office 1-800-296-9227  
FAX 270-586-4493

[horsecarpet.com](http://horsecarpet.com)

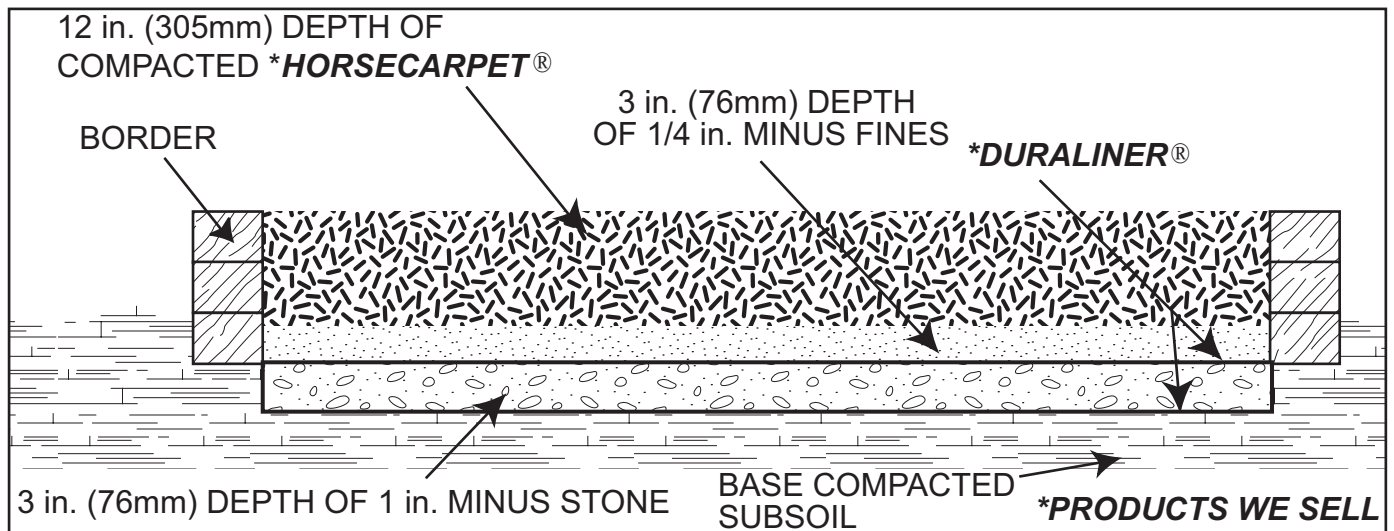
## ZEAGER JOB SPEC 25

APPLICATION: EXERCISER - used for regulated exercise of the horse.

### PRODUCT FUNCTIONS:

**HORSECARPET®:** Loose fill engineered wood footing that when installed and maintained properly, provides a consistent, resilient and stable surface.

**DURALINER®:** 2 types: Non-woven polypropylene fabric, needle punched, UV-Treated or Thermal bond Polyester UV treated. Used as a barrier to keep the subsoil and gravel from mixing together.



### RECOMMENDED INSTALLATION PROCEDURE:

1. Excavate as necessary. Compact the subsoil.
2. Install a layer of DURALINER®, overlap seam 10 in.
3. Spread 1 in. minus stone over the DURALINER® to a depth of 3 in.
4. Install a second layer of DURALINER® over the drainage stone, overlap seam 10 in.
5. Spread 1/4 in. minus fines to a depth of 3 in., wet down and pack using a roller or tamper.
6. Spread HORSECARPET® to a depth of 12 in. compacted.

### MISCELLANEOUS INFORMATION

1. A consistent balance of moisture is important. Drainage is necessary to remove excess moisture. The proper amount of moisture will cause HORSECARPET® to knit together and compact. If HORSECARPET® becomes too dry, wet it down, drag it and roll it.
2. Periodic raking or dragging will be necessary to level the HORSECARPET®.



# SPECIFICATION 25

## Products

### 1. Engineered Wood Fiber Equine Footing: HORSECARPET®

#### A. Composition:

1. Recently harvested and debarked North American hard woods, including oak, maple, ash, poplar, hickory, beech, birch, eucalyptus, and locust.
2. No cherry or walnut is used.
3. In certain locations, recently harvested and debarked North American coniferous woods.
4. No yew is used.
5. Free of soil, leaves, twigs, and other contaminants which hasten decomposition.
6. Free of chemical treatments and additives.
7. Free of waste wood and recycled wood from pallets.

#### B. Dimensions:

1. Randomly sized.
2. Approximately 10 times longer than wide.
3. 98 Percent of Dimensions: Maximum of 5.00 cm long, 2.5 cm wide, and 1.5 cm deep.
4. Gradation, Sieve Analysis, ASTM C 136, Cumulative Passing By Weight:
  - A.) 3/4 Inch Sieve: 95-100 percent.
  - B.) 3/8 Inch Sieve: 75-95 percent.
  - C.) No. 16 Sieve: 0-10 percent.

#### C. Properties:

1. Coefficient of Permeability, ASTM D 2434: Greater than 0.6 cm/s.
2. Moisture Absorption: Maximum of 150 percent by weight.
3. Moisture Content: 25 to 60 percent by weight.
4. Density: 15 to 24 pounds per cubic foot.
5. Resistant to Flammability, 16 FR Part 1630 Standard for Surface Flammability of Carpets and Rugs (FF1-70), Modified Procedure, Not Oven Dried: Meets criteria.
6. Flammable, 16 CFR 1500.44, Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids: Did not ignite.

### 2. Geotextile Fabric: DURALINER®

- a. Composition: Non-woven, needle-punched, UV-treated, polypropylene or thermal bond 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.

## HORSECARPET® MAINTENANCE RECOMMENDATIONS

### Daily

- Remove debris, litter, and foreign material such as stones, branches, etc.

### Weekly/Monthly

- Periodic leveling may be necessary. For training tracks and large areas, a piece of chain link fence with little or no weight on it can be pulled behind a tractor to quickly level the surface. Smaller areas may require raking.
- It may be necessary to periodically compact the HORSECARPET® by watering and using a roller after leveling.
- Applying water will help the HORSECARPET® compact, knit together, and remain in place along with reducing dust.

### Seasonally

- During a dry season it will be necessary to wet the surface of the HORSECARPET® more frequently to keep it pliable and resilient.
- During a rainy season, check the functioning of the drainage system by checking the water flow from an effluent pipe immediately after rain. You may also check for standing water by digging through the HORSECARPET® to the DURALINER®. The water level should be below the fabric within 30 minutes after the rain ceases. A properly functioning drainage system will enhance the life and use of the HORSECARPET®.
- During freezing conditions, HORSECARPET® may lose some resiliency. Adjust use of the surfacing accordingly.

### Notes

- HORSECARPET® is subject to normal wear and tear and will require "topping off" occasionally, depending on the type of installation and amount of use.
- The above recommendations are based on average climate and use. In a dry or wet climate, or during heavy use, more frequent maintenance may be necessary.
- For more information, contact a Zeager representative.





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FAX 717-944-9514

KY Office 1-800-296-9227  
FAX 270-586-4493

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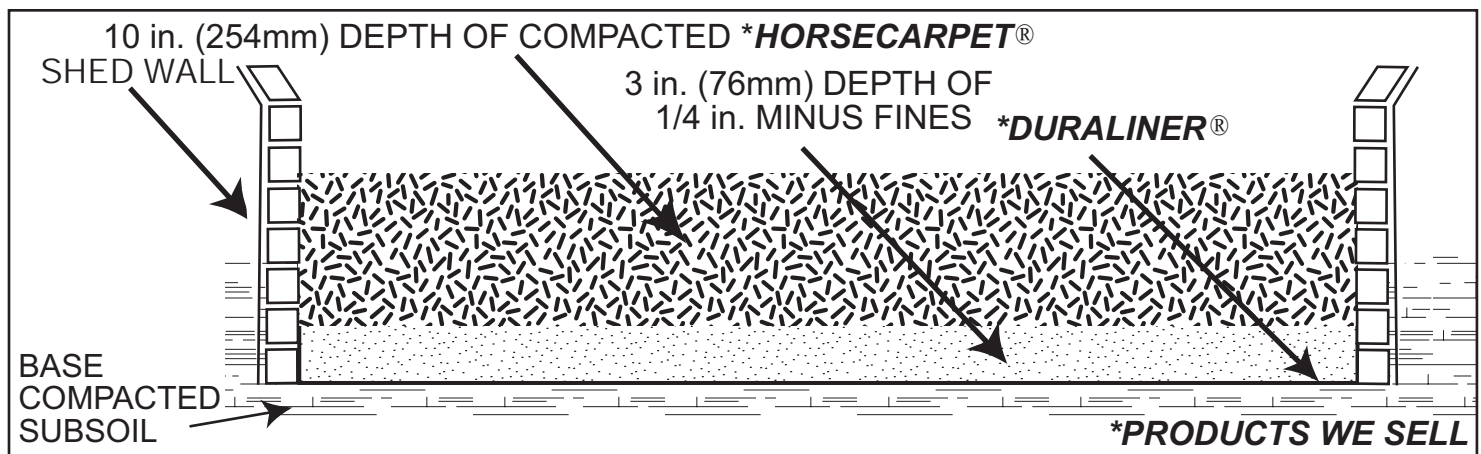
## ZEAGER JOB SPEC 26

APPLICATION: BREEDING SHED - to provide a controlled environment and safety surfacing for the purpose of breeding.

### PRODUCT FUNCTIONS:

**HORSECARPET®:** Loose fill engineered wood footing that when installed and maintained properly, provides a consistent, resilient and stable surface.

**DURALINER®:** 2 types: Non-woven polypropylene fabric, needle punched, UV-Treated or Thermal bond Polyester UV treated. Used as a barrier to keep the subsoil and gravel from mixing together.



### RECOMMENDED INSTALLATION PROCEDURE:

1. Excavate as necessary. Compact the subsoil.
2. Install a layer of DURALINER®, overlap seam 10 in.
3. Spread 1/4 in. minus fines to a depth of 3 in., wet down and pack using a roller or tamper.
4. Spread HORSECARPET® to a depth of 10 in. compacted.

Note: Installation of the 1/4 in. minus fines (#3) is optional. If used, it will provide a firmer base and minimal drainage.

### MISCELLANEOUS INFORMATION

1. A consistent balance of moisture is important. Drainage is necessary to remove excess moisture. The proper amount of moisture will cause HORSECARPET® to knit together and compact. If HORSECARPET® becomes too dry, wet it down, drag it and roll it.

# SPECIFICATION 26

## Products

### 1. Engineered Wood Fiber Equine Footing: HORSECARPET®

#### A. Composition:

1. Recently harvested and debarked North American hard woods, including oak, maple, ash, poplar, hickory, beech, birch, eucalyptus, and locust.
2. No cherry or walnut is used.
3. In certain locations, recently harvested and debarked North American coniferous woods.
4. No yew is used.
5. Free of soil, leaves, twigs, and other contaminants which hasten decomposition.
6. Free of chemical treatments and additives.
7. Free of waste wood and recycled wood from pallets.

#### B. Dimensions:

1. Randomly sized.
2. Approximately 10 times longer than wide.
3. 98 Percent of Dimensions: Maximum of 5.00 cm long, 2.5 cm wide, and 1.5 cm deep.
4. Gradation, Sieve Analysis, ASTM C 136, Cumulative Passing By Weight:
  - A.) 3/4 Inch Sieve: 95-100 percent.
  - B.) 3/8 Inch Sieve: 75-95 percent.
  - C.) No. 16 Sieve: 0-10 percent.

#### C. Properties:

1. Coefficient of Permeability, ASTM D 2434: Greater than 0.6 cm/s.
2. Moisture Absorption: Maximum of 150 percent by weight.
3. Moisture Content: 25 to 60 percent by weight.
4. Density: 15 to 24 pounds per cubic foot.
5. Resistant to Flammability, 16 FR Part 1630 Standard for Surface Flammability of Carpets and Rugs (FF1-70), Modified Procedure, Not Oven Dried: Meets criteria.
6. Flammable, 16 CFR 1500.44, Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids: Did not ignite.

### 2. Geotextile Fabric: DURALINER®

- a. Composition: Non-woven, needle-punched, UV-treated, polypropylene or thermal bond 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.

## HORSECARPET® MAINTENANCE RECOMMENDATIONS

### Daily

- Remove debris, litter, and foreign material such as stones, branches, etc.

### Weekly/Monthly

- Periodic leveling may be necessary. For training tracks and large areas, a piece of chain link fence with little or no weight on it can be pulled behind a tractor to quickly level the surface. Smaller areas may require raking.
- It may be necessary to periodically compact the HORSECARPET® by watering and using a roller after leveling.
- Applying water will help the HORSECARPET® compact, knit together, and remain in place along with reducing dust.

### Seasonally

- During a dry season it will be necessary to wet the surface of the HORSECARPET® more frequently to keep it pliable and resilient.
- During a rainy season, check the functioning of the drainage system by checking the water flow from an effluent pipe immediately after rain. You may also check for standing water by digging through the HORSECARPET® to the DURALINER®. The water level should be below the fabric within 30 minutes after the rain ceases. A properly functioning drainage system will enhance the life and use of the HORSECARPET®.
- During freezing conditions, HORSECARPET® may lose some resiliency. Adjust use of the surfacing accordingly.

### Notes

- HORSECARPET® is subject to normal wear and tear and will require "topping off" occasionally, depending on the type of installation and amount of use.
- The above recommendations are based on average climate and use. In a dry or wet climate, or during heavy use, more frequent maintenance may be necessary.
- For more information, contact a Zeager representative.



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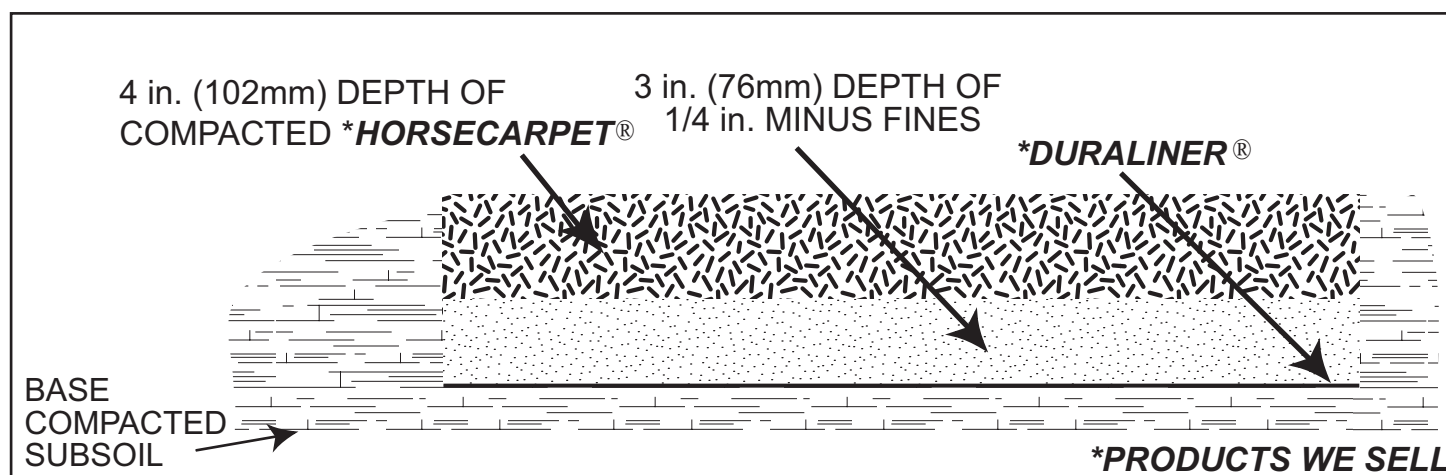
## ZEAGER JOB SPEC 27

APPLICATION: WALKWAYS AND PATHWAYS - used to provide a clean and resilient trail.

### PRODUCT FUNCTIONS:

**HORSECARPET®:** Loose fill engineered wood footing that when installed and maintained properly, provides a consistent, resilient and stable surface.

**DURALINER®:** 2 types: Non-woven polypropylene fabric, needle punched, UV-Treated or Thermal bond Polyester UV treated. Used as a barrier to keep the subsoil and gravel from mixing together.



### RECOMMENDED INSTALLATION PROCEDURE:

1. Excavate as necessary. Compact the subsoil.
2. Install a layer of DURALINER®, overlap seam 10 in.
3. Spread 1/4 in. minus fines to a depth of 3 in., wet down and pack using a roller or tamper.
4. Spread HORSECARPET® to a depth of 4 in. compacted.

### MISCELLANEOUS INFORMATION

1. A consistent balance of moisture is important. Drainage is necessary to remove excess moisture. The proper amount of moisture will cause HORSECARPET® to knit together and compact. If HORSECARPET® becomes too dry, wet it down, drag it and roll it.

# SPECIFICATION 27

## Products

### 1. Engineered Wood Fiber Equine Footing: HORSECARPET®

#### A. Composition:

1. Recently harvested and debarked North American hard woods, including oak, maple, ash, poplar, hickory, beech, birch, eucalyptus, and locust.
2. No cherry or walnut is used.
3. In certain locations, recently harvested and debarked North American coniferous woods.
4. No yew is used.
5. Free of soil, leaves, twigs, and other contaminants which hasten decomposition.
6. Free of chemical treatments and additives.
7. Free of waste wood and recycled wood from pallets.

#### B. Dimensions:

1. Randomly sized.
2. Approximately 10 times longer than wide.
3. 98 Percent of Dimensions: Maximum of 5.00 cm long, 2.5 cm wide, and 1.5 cm deep.
4. Gradation, Sieve Analysis, ASTM C 136, Cumulative Passing By Weight:
  - A.) 3/4 Inch Sieve: 95-100 percent.
  - B.) 3/8 Inch Sieve: 75-95 percent.
  - C.) No. 16 Sieve: 0-10 percent.

#### C. Properties:

1. Coefficient of Permeability, ASTM D 2434: Greater than 0.6 cm/s.
2. Moisture Absorption: Maximum of 150 percent by weight.
3. Moisture Content: 25 to 60 percent by weight.
4. Density: 15 to 24 pounds per cubic foot.
5. Resistant to Flammability, 16 FR Part 1630 Standard for Surface Flammability of Carpets and Rugs (FF1-70), Modified Procedure, Not Oven Dried: Meets criteria.
6. Flammable, 16 CFR 1500.44, Federal Hazardous Substances Act Title 16, Chapter II, Subchapter C for Rigid and Pliable Solids: Did not ignite.

### 2. Geotextile Fabric: DURALINER®

- a. Composition: Non-woven, needle-punched, UV-treated, polypropylene or thermal bond 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.

## HORSECARPET® MAINTENANCE RECOMMENDATIONS

### Daily

- Remove debris, litter, and foreign material such as stones, branches, etc.

### Weekly/Monthly

- Periodic leveling may be necessary. For training tracks and large areas, a piece of chain link fence with little or no weight on it can be pulled behind a tractor to quickly level the surface. Smaller areas may require raking.
- It may be necessary to periodically compact the HORSECARPET® by watering and using a roller after leveling.
- Applying water will help the HORSECARPET® compact, knit together, and remain in place along with reducing dust.

### Seasonally

- During a dry season it will be necessary to wet the surface of the HORSECARPET® more frequently to keep it pliable and resilient.
- During a rainy season, check the functioning of the drainage system by checking the water flow from an effluent pipe immediately after rain. You may also check for standing water by digging through the HORSECARPET® to the DURALINER®. The water level should be below the fabric within 30 minutes after the rain ceases. A properly functioning drainage system will enhance the life and use of the HORSECARPET®.
- During freezing conditions, HORSECARPET® may lose some resiliency. Adjust use of the surfacing accordingly.

### Notes

- HORSECARPET® is subject to normal wear and tear and will require "topping off" occasionally, depending on the type of installation and amount of use.
- The above recommendations are based on average climate and use. In a dry or wet climate, or during heavy use, more frequent maintenance may be necessary.
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