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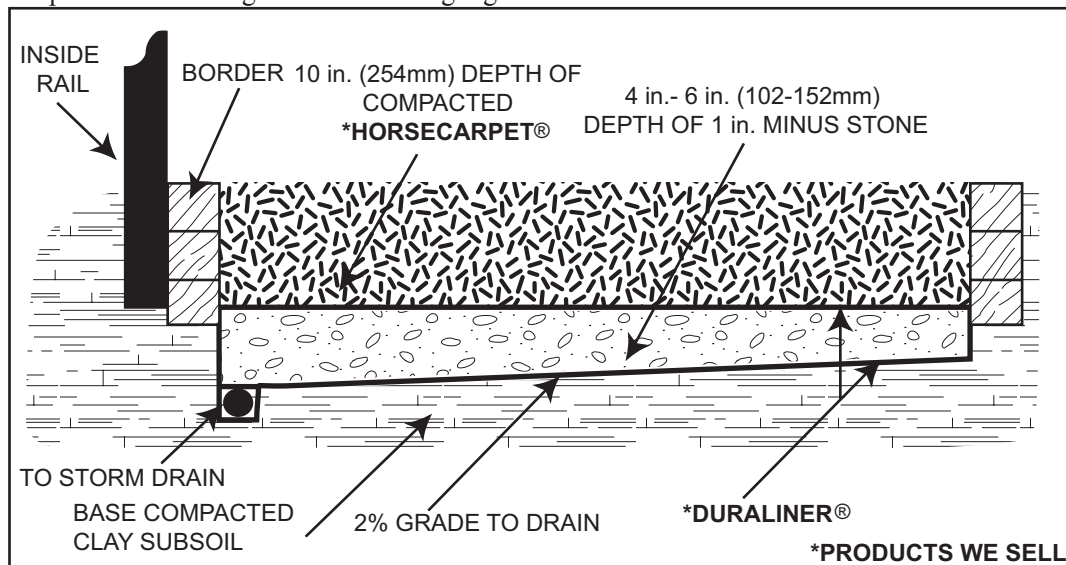
ZEAGER JOB SPEC 23

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.