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## *Specifications*

# DIEHARD™ PALLET PAK PLUS

### Part 1: Product Description

DIEHARD™ Pallet Pak Plus "naturalizes" the sod and ground with beneficial organisms that all grasses have evolved with but are dramatically reduced as roots are cut as the sod is lifted. The product is formulated as a transplant amendment to inoculate the turf roots when planted with live beneficial mycorrhizal fungi, which nursery plants do not have, and nearly one hundred other ingredients to "complete" the enable the sod and the ground for quick establishment and reduced establishment maintenance. It contains highly selected endo and ectomycorrhizal fungi that will quickly colonize the roots of sod to provide the best possible conditions for the roots to become as effective as possible during the establishment period and beyond. The endomycorrhizal inoculants are combined with humic acids, *Trichoderma*, stimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts, to promote rapid root development. . The formulation includes Horta-Sorb® water management gel is added to reduce transplant stress and watering maintenance, and to slow release all soluble components. The results are better survival and growth rates and less watering for all types of sod.

### Part 2: Product Specification

Endomycorrhizal	1.7 Propagules per cubic centimeter <i>Glomus mosseae</i> (0.33), <i>Glomus intraradices</i> (0.33), <i>Glomus fasciculatum</i> (0.33), <i>Glomus dussii</i> (0.17), <i>Glomus clarum</i> (0.17), <i>Glomus deserticola</i> (0.17), <i>Glomus microaggregatum</i> (0.17).
Nitrogen Fixing, Phosphate solubilizing, and Growth Promoting Bacteria.	400 Million per lb. to include <i>Genus Bacillus</i> (32 species.), <i>Genus Psuedomonas</i> (2 species.), <i>Genus Streptomyces</i> (2 species.).
<i>Trichoderma</i>	600 Million colony forming per lb. <i>Genus Trichoderma</i> (6 species), <i>Gliocladium virens</i> (2 strains), <i>Trichoderma harzianum</i> (2 strains) <i>Trichoderma Viride</i> (2 strains)
Soluble Humic Acid	3% derived from <i>Leonardite</i>
Soluble Sea Kelp Extract	3% <i>Ascophylum nodosum</i>
Soluble Yucca Plant Extract	1% <i>Yucca schidigera</i>
Root Promoting Vitamins	B, B2, B3, B6, B7, B12, C, K, Biotin, Fulvic Acid
Amino Acids (Protein)	Animal and Plant Proteins
Horta-Sorb® MD Water Gel	67%cross linked copolymer
Particle Size	1.0 mm to 2.0 mm, maximum 5 % < 1.0 mm
Percent Soluble	Less than 5 %
Absorption Rate	300 - 400 times in distilled water

\*Note - Bacteria are measured in colony forming unit's (CFU's)

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*Technology Based* \* *Service Lead* \* *Customer Driven*



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### **Part 3: Application**

Broadcast or spread at the rate of 3 pounds per 400 square feet. Lay sod, water and roll as usual.

### **Part 4: Execution**

Use in accordance with approved submittal for each type of planting required in strict accordance with supplier's instructions and recommendations.

### **Part 6: Manufacturer's Service**

At the request of specifier provide the services of a qualified technical representative to instruct the user in proper mixing and handling of the product.

### **Part 7: Verification of Use**

At the request of the specifier excavation of random plots of up to 1% of planted sod.. Specifier shall require alternative procedures if product has not been used.

## **END OF SECTION**

### **Free Of Charge Services Provided to Specifiers**

- We do a take off for you - fax your plant list to us and we will do a take off and fax back to you the amount of materials required for the job.
- We introduce your contractors to our products - give us a list of your contractors and we will introduce, educate and provide them with installation information and list of materials for the job.
- With toll-free phone and fax lines we are at your service at a moments notice.
- We can provide verification to you that the contractor has purchased products.