

DIEHARD™ Palm Transplant Usage Calculator* And Specification

Fill in the following information to create your specification for DIEHARD™ Palm Transplant.

Worksheet Date
Landscape Architect
Project I.D.
Location of Project
Projected Date of Installation

DIEHARD™ Palm Transplant Required As Follows:

Number of Palms to Plant On Job	Rate in Ounces	Amount Required For Job
Total Pounds		

***When printing the specification you need not print this page as entered information shall automatically transfer to the specification.**

Why use this calculator? Because by specifying the exact amount of materials need for a project you can rest assured your client will see the results that you had in mind. If instead the specification is worded "According to the manufacturers recommended rates, etc.", then the interpretation of application rates is left to the contractor bidding on the job. Ten contractors will likely figure this 10 different ways. Not anymore... Now amounts to use are not left to manipulation. The calculator is a terrific "Internal Auditor" to insure the correct amount DIEHARD™ ingredients are used on a project.



DIEHARD™ Palm Transplant Specification For

Worksheet Date

Landscape Architect

Project I.D.

Projected Date of Installation

DIEHARD™ Palm Transplant required in pounds

Specifications are as follows:

Product Specification Sheet

DIEHARD™ PALM TRANSPLANT

PART I: PRODUCT DESCRIPTION

All palm transplants shall be treated when planting with an inoculum of live beneficial mycorrhizal fungi to promote new feeder root and mycorrhizal development on newly planted palms. The inoculum shall contain highly selected endomycorrhizal fungi that will quickly colonize the roots of palms to provide the best possible conditions for the roots to grow and extract from the root zone water and nutrients. The mycorrhizal fungi shall be combined with humic acids, biostimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts, fulvic acid, nitrogen, phosphorous, potassium, and chelated magnesium, manganese, iron and zinc, to promote rapid root development.

PART II: PRODUCT SPECIFICATION

GUARANTEED NUTRIENT ANALYSIS 3-1-3

Total Nitrogen (N)	3%
1.3% Other Water Soluble Nitrogen and /or Urea Nitrogen	
2.1% Water Soluble Nitrogen	
2.6% Water Insoluble Nitrogen	
Available Phosphate (P2O5)	1%
Soluble Potash (K2O)	3%
Total Magnesium (Mg)	2%
2.5% Water Soluble Magnesium (Mg)	
Total Manganese (Mn)	4%
4.0% Water Soluble Manganese (Mn)	
Total Zinc (Zn)	1.5%
1.5% Soluble Zinc (Zn)	
Total Iron (Fe)	1%
2.5% Soluble Iron as (Fe)	

Derived from Kelp (Ascophyllum Nodosum), Manganese Sulfate, Zinc Sulfate, Iron Sulfate, Magnesium Sulfate, Superphosphate, Urea, And Potassium Sulfate.

NONPLANT FOOD INGREDIENTS

Endomycorrhizal	9.6 Propagules per cubic centimeter <i>Glomus mosseae</i> (1.9), <i>Glomus intraradices</i> (1.9), <i>Glomus fasciculatum</i> (1.9), <i>Glomus dussii</i> (0.975), <i>Glomus clarum</i> (0.975), <i>Glomus deserticola</i> (0.975), <i>Glomus microaggregatum</i> (0.975).
Nitrogen Fixing, Phosphate Solubilizing and Growth Promoting Bacteria.	780,000 CFU's per cc to include GENUS BACILLUS: (32 SPECIES) <i>Bacillus azotofixans</i> (2 strains) <i>Bacillus azotoformans</i> (3 strains) <i>Bacillus polymyza</i> (5 strains) <i>Bacillus thuringiensis</i> (2 strains) <i>Bacillus licheniformis</i> (6 strains) <i>Bacillus pumulis</i> (2 strains) <i>Bacillus subtilla</i> (10 strains) <i>Bacillus megaterium</i> (2 strains) GENUS PSUEDOMONAS: (2 SPECIES) <i>Psuedomonas aureofaceans</i> (2 strains) GENUS STREPTOMYCES (2 SPECIES) <i>Streptomyces lydicus</i> (2 strains)
Trichoderma	1,170,000 CFU's <i>Genus Trichoderma</i> (6 species), <i>Trichoderma gliocladium virens</i> (2 strains), (2 strains), <i>Trichoderma viride</i> (2 strains). <i>Trichoderma harzianum</i>
Root Promoting Vitamin	Biotin, Folic Acid, B, B2, B3, B6, B7, B12, C and K
Amino Acids (Protein)	Animal and Plant Proteins
Root Promoting Vitamins	Biotin, Folic Acid, B, B2, B3, B6, B7, B12, C and K
	8% Humic Acid Derived from Leonardite
	4% Sea Kelp Extract (<i>Ascophyllum nodosum</i>)
	1% Yucca Plant Extract (<i>Yucca schidigera</i>)
	25% Co-polymer (Crossed linked acrylamide and potassium acrylate)

Alternative produces must contain these ingredients to be approved by the Landscape Architect.

PART III: PRODUCT APPLICATION

Apply 1 - 8 oz. bag per palm incorporated as a soil amendment into the top 8 to 10 inches of the planting pit adjacent to the root ball of the tree.

PART IV: EXECUTION

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

PART V: 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 VI: VERIFICATION OF USE

The contractor will verify use of product by submitting receipts for products purchased equaled to the amount of product as specified by the Landscape Architect. Include project name and ID, and key contract directing the use of product along with receipts.

PART VI: ALTERNATIVE PROCEDURES

If it has been determined that product has not been used contractor shall immediately apply both a vertimulch application with product and a deep soil injection with an appropriate injection product containing endomycorrhizae and yucca extracts.

END OF SECTION

Free Of Charge Services Provided to Specifiers

- w 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.
- w 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.
- w With toll-free phone and fax lines we are at your service at a moments notice.
- w We can provide verification to you that the contractor has purchased products