

Specifications for Installation
TODD VALLEY FARMS, Inc.
BELLA™ BLUEGRASS ACCELERATED GROWTH PLUGS

A. General: The installation contractor shall furnish all labor, material and equipment required to complete the work described herein, in strict accordance with the drawings and/or terms of the contract.

B. Ordering: Within 10 days of the issuance of the contract, the installation contractor shall contact Todd Valley Farms, Inc. at the address below or its local distributor to place an order for the total number of plugs needed to complete the contract.

Todd Valley Farms, Inc.
P.O. Box 202
Mead, NE 68041-0202
Phone: 402-624-6385
Fax: 402-624-2003
E-mail: info@toddvalleyfarms.com

To calculate the number of plugs needed, use the following formulas for the appropriate spacing:

Spacing in inches	multiply sq ft by
12	1.00
9	1.78
6	4.00

EXAMPLE: plugs placed at 9 inch centers in an area of 1,500 sq ft - $1,500 \times 1.78 = 2,670$ plugs

Recommended spacing is 6 to 9 inches.

Plugs may be received prior to installation. Immediately open upon arrival. Place trays in a single layer in an area protected by the wind. Water to moisten plugs. Keep plugs moist at all times and in their trays until planting.

Site preparation:

NEW LAWNS – All areas to be plugged shall be free of construction debris, stones, living vegetation, etc. All grades shall be established and maintained in accordance with the drawings and/or applicable specifications. Areas to be plugged shall be firmed by lightly rolling after final grade is established.

RENOVATED LAWNS – All areas to be plugged shall be sprayed with a non-selective glyphosate herbicide such as Round-up, following label instructions. After 3 days, mow area to 1 inch before commencing to plant.

Installation of plugs: Start next to a sidewalk, building, etc. Make a hole to accommodate a plug 1 ¼ inch square by 2 inches deep. Prune the roots by cutting off the bottom ¼ inch of the plug. Pruning will stimulate the rooting and establishment. Place a plug into the hole, being sure the plug is to the bottom of the hole. ***Failure to place plug firmly to the bottom of hole will create an air pocket under the plug, which will reduce the chance for survival.*** The top of the plug soil shall be slightly below ground surface. Measure for the next plug, using the specified spacing. Repeat installation procedure. Continue in a straight line to the end of the planting area. Move the specified spacing for the second row and continue planting. Stagger plugs as in figure 1.

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  X X X X X X X X
X X X X X X X X X
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(Figure 1).

NOTE: For large areas where hand planting is not practical, use a Holland Transplanter designed for these plugs. [Holland Transplanter Co., Holland MI. ph: 616-392-3579]

Starter fertilizer and initial watering: Immediately after the plug is installed, saturate the plug using a hose end sprayer with Miracle Gro 15-30-15 general-purpose plant food or equal.

Alternative method: apply a granular starter fertilizer [eg: 10-10-10, 12-12-12, 18-46-0] to the area before planting. Apply amount needed to achieve one pound of phosphorus (P) per 1000 sq ft. Immediately after planting saturate plugs with water.

Fertilizer: At time of installation, in addition to starter fertilizer, apply a high quality slow release lawn fertilizer at one pound of Nitrogen (N) per 1000 sq ft. Re-apply every 30 days during the growing season until complete grass coverage is achieved. Area must be irrigated to activate fertilizer if natural rainfall does not occur. After complete coverage is achieved, fertilize every 60-90 days during the growing season.

Weed control: After the initial watering, apply a pre-emergent herbicide for cool season grasses to control weeds during the "grow-in" period. Follow label instructions. After application, thoroughly water area. If broadleaf weeds develop, a **post emergent** herbicide such as Trimec may be applied. Post emergent control of annual grassy weeds and many broadleaf weeds can be controlled with Drive 75 DF herbicide from BASF Corporation or Tenacity Herbicide from Syngenta. **Always read and follow label instructions.**

Maintenance: Maintain area(s) by keeping moist until plugs have rooted to soil. Usually in 10 - 21 days. After this period, slowly reduce watering frequency. During the grow in period, the plugs require adequate moisture to allow the rhizomes to spread aggressively. Once complete coverage is achieved, water to prevent stress. Watering frequency and amounts will vary weather conditions and soil type. Clay soils require less frequent watering and sandy soils requiring more frequent watering. During drought conditions, an established Bella lawn will require about 1 inch of irrigation per week.

NOTE: Weekly watering and monthly fertilization will speed the coverage of the plugs.

**For more planting or maintenance information, refer to website:
www.toddvalleyfarms.com.**