



# GUIDELINE SPECIFICATIONS

SECTION 02542

## NOVATURF RF

### SYNTHETIC GRASS WITH BLENDED INFILL FOR FIELD SPORT SURFACING RESURFACING

#### PART 1 – GENERAL

##### 1.01 SCOPE OF WORK

A. This specification includes, and is not limited to the installation of a cushioned (sand and rubber) infilled field surface for and field sports. The basic construction of the NovaTurf system may utilize the SportLine construction.

B. Clean-up and inspection:

1. Remove all remaining sand, dust, and/or debris which may exist on the base surface using brooms and/or air blower.
2. Pressure wash asphalt or concrete surface for cleaning.
3. Inspect base carefully for any deficiencies which may exist. Stone dust bases should be checked for compaction and smoothness.
4. Low areas deeper than 1/16" will need to be patched with a latex patch or comparable product matching base.

##### 1.02 SUMMARY

A. This section includes and is not limited to:

1. Installation of a NovaTurf cushioned synthetic in-filled sports surface consisting of a grass-like network of tufted, ultraviolet resistant fibers interlocked with rubber and sand over an acceptable base course.
2. Clean-up

##### 1.03 QUALITY ASSURANCE

A. NovaTurf field surfaces shall be constructed by an approved NGI installer or under direction of an NGI Technician.

- B. Each roll shall be clearly marked.
- C. Materials shall not be installed when rain is imminent or temperature is below 40° F.

#### 1.04 WARRANTY

- A. Materials shall have a multi-year limited warranty supplied by the manufacturer.
- B. Contractor to provide {Architect} {Owner } {Landscape Architect} {Engineer} written warranty at completion of project in accordance with Section {01700} {01740} of the Project Manual.
- C. Equipment: Upon completion of project, Owner to be provided/left with maintenance equipment for maintenance of field surface to consist of one sweeper per field; one drag mat per field installed; two lutes per field installed.

### PART 2 – PRODUCTS

#### 2.01 CUSHIONED SYNTHETIC GRASS FIELD SURFACING SYSTEM

- A. The NovaTurf field surfacing system shall consist of synthetic polyethylene fibers with ultraviolet stabilization and shall meet the following criteria:

1. Elongation	17%
2. Breaking Strength	52
3. Melting Point	334° F (168° C)
4. Pill Test	Pass
5. Construction	Tufted
6. Grab Tear Strength	200 lbs (91 kg)
7. Seam Tensile Strength	55 lbs/inch, minimum
8. Warranty	12 months
9. Tuft Bind	6+ lbs

\*\*All testing methods match or exceed standards as set through ASTM D418, D1682, D789, and D2859\*\*

- B. The color shall be Merion Green for the turf and White for the lines. All fibers in each roll applied to the field surface shall be the same dye lot.
- C. SportLine system of lining the field to be utilized. SportLine encompasses the construction of field lines into the rolls (lines are tufted in during manufacturing).

- D. Granular fill material: Specially selected rubber and sand granules supplied and installed as recommended by turf manufacturer.
- E. Joint Adhesive: Single strength industrial adhesive as recommended by turf manufacturer.
- F. Joint Tape: High quality weatherproof fibrous tape as recommended by turf manufacturer.

## **PART 3 – EXECUTION**

### **3.01 SURFACE PREPARATION**

- A. NovaTurf surfacing system shall be installed on a sound base surface with surface tolerance not exceeding 1/8" in 10' when measured in any direction, with a minimum slope in one direction of 1" in 30'. Slope is to preferably run side-to-side, in one plane.
- B. Existing Asphalt and/or Concrete Bases.
  - 1. Once the surface has been thoroughly cleaned and is free of all loose material, dirt, dust and foreign debris, the area should be flooded with water and allowed to drain. Any area that holds water in a depth greater than 1/16" (thickness of a nickel) shall be outlined and patched.
  - 2. Surface Leveling: Birdbaths shall be primed using the following:
    - A. NGI Surface Patch: Five gallons of Resurfacer Patch, five gallons of silica sand, and one pint of Type I Portland Cement. Applied in layers up to 1/2" deep. Area to be patched shall be primed using five parts water to one part resurfacer mix. Primer to be brushed into place and allowed to dry prior to placement of the patch.
  - 3. Cracks shall be cleaned, primed and filled with dry silica sand up to the bottom of the pavement of top surface profile and then filled with hydraulic cement until level with surface. NGI seaming tape shall be laid into wet caulk on cracks .75" and larger to prevent reflection.
  - 4. Vegetation around edges of field area(s) shall be cleared.

### 3.02 NOVATURF SURFACING SYSTEM

- A. The surface course shall be repaired according to installation instructions of the manufacturer for that system.
- B. All surface course materials are to be installed after the surface has been inspected and approved by the {Owner} {Architect} {Landscape Architect} {Engineer}.
- C. SportLine field lining system to be utilized.
- D. All joints and lines shall be attached with one component adhesive and seaming tape. Heat seaming methods, urethane and nitrile based adhesives are not allowed.
- E. In-fill Layer: Using a special mechanical device to filter the sand and rubber into the fiber, the infill shall be placed into the NovaTurf material and brushed.
- F. Once level and filled, surface is to be mechanically treated to achieve proper compaction.
- G. Do not allow petroleum products to be spilled on the field surface.

### 3.03 CLEAN UP

- A. Upon completion of the work, the contractor shall remove all containers, surplus materials and debris and have the site in a clean and orderly condition acceptable to the {Owner} {Architect} {Landscape Architect} {Engineer}.
- B. Maintenance: Periodic brushing for routine maintenance. Refer to maintenance manual for detailed program.
- C. Provide {Owner} {Architect} {Landscape Architect} {Engineer} with Maintenance Manual upon completion of project in accordance with Section {01700} {01730} of the Project Manual.

### END OF SECTION

PLEASE NOTE THAT THIS SPECIFICATION IS TO BE USED AS A GUIDELINE.  
THIS INFORMATION MAY NOT BE PROPER UNDER ALL CONDITIONS.

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