



SECTION 321823 – SHOCK ABSORBING TURF UNDERLAYMENT

1.0 GENERAL REQUIREMENTS

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this section.

1.2 SCOPE OF WORK

Furnish all labor, materials, tools and equipment necessary to install, in place, a shock absorbing underlayment for the synthetic turf field. The installation of all new materials shall be performed in strict accordance with the manufacturer's written installation instructions, and in accordance with all approved shop drawings.

- A. Prior to order of materials, the Turf Contractor shall submit the following:
 - 1. Product Data including Independent Test Lab Results
 - 2. Installation Details
- B. Prior to the beginning of installation, the Turf Contractor/manufacturer of the synthetic turf shall inspect the subbase and supply a Certificate of Subbase Acceptance for the purpose of obtaining manufacturer's warranty for the finished synthetic turf playing surface.
- C. Prior to Final Acceptance, the Turf Contractor shall submit to the Owner three (3) copies of Maintenance Manuals, which will include necessary instructions for the proper care and preventative maintenance of the synthetic turf system, including painting and striping.

1.3 SCHEDULE

- A. Turf Contractor shall complete all work on the synthetic turf system in accordance with the published project schedule.
- B. The Turf Contractor will require unencumbered use of an area within thirty (30) feet of the synthetic turf area(s) being installed in order to complete its work. Turf Contractor shall also be afforded unencumbered access through the construction site to reach the turf field area being installed.

1.4 SURFACE AREA

- A. The Turf Contractor is to verify all measurements.

1.5 UTILITIES

- A. Owner/Prime Contractor will supply necessary water, adequate lighting and electricity for installation. Owner/Prime Contractor shall permit the use of toilet and wash up facilities.

2.0 PRODUCTS

2.1 MATERIALS

- A. The Turf Contractor shall install a 10mm GMAX Drain System™ pad over the laser-graded stone foundation of the turf field.
- B. The Turf Contractor shall install a 10mm high density injection molded recycled polypropylene pad over the laser-graded stone foundation of the turf field. The pad shall have the following technical characteristics:
- Injection molded flooring in tiles 47.24" x 31.5"
 - 100% Recycled Polypropylene
 - Shock Absorption 44% (+/- 2%)
 - Vertical Deformation 2 mm (+/- 1 mm)
 - Water drainage 17 oz. / per minute
 - Fully Recyclable
- C. All components and their installation method shall be designed and manufactured for use on outdoor and indoor athletic fields. The materials, as hereinafter specified, should be able to withstand full climatic exposure in all climates, be resistant to insect infestation, rot, fungus and mildew; to ultra-violet light and heat degradation, and shall have the basic characteristic of flow through-drainage allowing free movement of surface run-off.

3.0 EXECUTION

3.1 GENERAL

- A. The installation shall be performed in full compliance with approved shop drawings.
- B. Only factory-trained technicians, skilled in the installation of athletic caliber synthetic turf systems working under the direct supervision of the synthetic turf manufacturer's installation supervisors shall undertake the placement of the system.
- C. The surface to receive the synthetic turf shall be inspected and certified by the turf manufacturer as ready for the installation of the synthetic turf system and must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.

3.2 INSTALLATION

- A. The subbase and curbs shall be inspected by the Engineer or Sitework Contractor by means of a laser level and plotted on a 10-foot grid. Based upon the Turf Contractor's inspection of the topological survey, the Sitework Contractor shall fine grade the subbase suitably - including properly rolling and compacting the base to achieve a surface planarity within ¼" in 10 feet (+0, - 1/4"0). OWNER, ENGINEER OR PRIME CONTRACTOR SHALL NOT APPROVE THE SUBBASE FOR TOLERANCE TO GRADE WITHOUT OBTAINING THE TOPOLOGICAL SURVEY.
- B. The Turf Project Superintendent shall thoroughly inspect all materials delivered to the site both for quality and quantity to assure that the entire installation shall have sufficient materials to maintain the schedule and proper mixing ratios.
- C. Synthetic turf pad shall be loose laid across the field and shall utilize a Dupont SF32 Geotextile liner between the drainage base and the Gmax Drain pad.

- D. Pad panels shall be mechanically fastened.

- E. Weather/climatic conditions may be a factor in delay of installation but shall not warrant the accrual of additional liquidated damages. Should the ambient outdoor temperature fall below 45 degrees Fahrenheit, the Turf Contractor and Owner will discuss available options and/or stoppage of work. However, the final decision shall be at the Turf Contractor's discretion.

3.3 CLEAN UP

- A. Turf Contractor shall provide the labor, supplies and equipment as necessary for final cleaning of surfaces and installed items.

- B. All usable remnants of new material shall become the property of the Owner.

- C. The Turf Contractor shall keep the area clean throughout the project and clear of debris.

- D. Surfaces, recesses, enclosures, etc., shall be cleaned as necessary to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the Owner.