S P E C I F I C A T I O N S

SECTION 02566

SYNTHETIC NOVABOCCE SURFACING

PART 1 – GENERAL

1.01 SUMMARY

A. This section includes, and is not limited to:

1. Installation of a bocce surface construction finish consisting of a network of densely looped and cut ultraviolet resistant fibers interlocked with select aggregates and synthetic polymers.

2. Underpad (Optional)

3. Sub-grade Preparation

B. Related Sections

1. Section {01300:Submittals}{01349:Shop Drawings, Product Data and Samples.}

1.02 QUALITY ASSURANCE

A. NovaBocce surfaces shall be installed by an approved dealer or distributor, certified by NGI Sports.
B. Each roll shall be clearly marked.
C. Material shall not be installed when rain is imminent or the temperature is below 50˚F.
    1. The installation of the NovaBocce system shall be done in dry weather.
    2. Neither surface nor aggregates can be moist or wet.
    3. Fabrication should be done in dry weather with the temperature above 50˚F.

1.02 WARRANTY

A. Materials shall have a five-year limited warranty supplied by the manufacturer.
B. Contractor to provide {Owner} {Architect} {Landscape Architect} {Engineer} written warranty at completion of project in accordance with Section {01700}{01740} of the Project Manual.

PART 2 – PRODUCTS

2.01 SURFACING SYSTEM FOR BOCCE

A. The NovaBocce system shall consist of merion green fibers with ultraviolet stabilization.

B. Granular fill material shall be granules applied at an approximate rate of 3.25-3.5 lbs per square foot. All aggregate shall be kept dry.

C. **Optional** green granular topdressing shall be applied at a minimum rate of 3 lbs/syd.

D. Seams: Weather-resistant tape and high strength urethane based adhesive to be utilized.

E. Porous shock pad (OPTIONAL).

2.02 BASE MATERIALS

A. Minimum 4” aggregate base with 1” to 2” layer of stone dust screenings or compactable sand for the leveling course and (geotextile layer) separation/stabilization pad constructed on a prepared subgrade per plans and specifications.

ROCK BASE MATERIALS

B. Minimum 4” crushed stone rock base shall be used.

1. Materials for crushed stone base may be a combination of crushed stone, crushed or uncrushed gravel, sand gravel, limestone gravel, or other locally qualified binder materials approved by the {Owner} {Architect} {Landscape Architect} {Engineer}.

2. These materials shall be thoroughly mixed to ensure the final product will have a uniform grading and plasticity.

3. The crushed stone or gravel shall conform to local specifications for rock base construction and the following:

a.	Retained on the 2” sieve	%
b.	Retained on the 1 ½” sieve	-5%
c.	Retained on the ¾” sieve	-30%
d.	Retained on the No. 4 sieve	35-60%
e.	Retained on the No. 8 sieve	45-70%
f.	Retained on the No. 40 sieve	60-84%
g.	Retained on the No. 200 sieve	80-92%

C. Crushed Aggregate Base Course Construction: If the required compacted depth of the base course exceeds 5”, the base shall be constructed in two or more layers of approximately equal thickness.

PART 3 - EXECUTION

3.01 SUBGRADE AND SURFACE PREPARATION

A. The area is to be cleared of all trees, stumps, vegetation and topsoil.

B. Prepare sub-grade by blading, rolling, and lightly scarifying a sound surface within 1/8" in 10' when measured in any direction, with 1 to 2% minimum slope. Small areas of 5 to 15% slope may be used to form undulation.

C. Contours of the subgrade shall conform to those of the proposed finish grade of +- ½".

D. Apply construction grade geotextile over subgrade.

E. Fill and Compaction

1. When fill is required, it shall be placed in 6" lifts, maximum, with approved material and each lift shall be thoroughly compacted to a density of 95% Proctor.

2. All unstable or otherwise objectionable material shall be removed from the subgrade and replaced with approved material.

3. All holes, ruts and depressions shall be filled, reshaped, and compacted as required to place the subgrade in acceptable condition to receive base material.

4. Prior to placing succeeding layers of material, the top of the underlayer shall be significantly moist to ensure uniform moisture between layers.

5. The edges and edge slopes of the subgrade shall be bladed and otherwise depressed to conform to the lines and dimensions of the finished surface.

ROCK BASE INSTALLATION

3.02 PLACING OF ROCK BASE

A. The maximum compacted thickness of any one layer shall not exceed 6".

B. Immediately after placing, the material shall be compacted at not less than 95% Proctor.

C. Prior to placing succeeding layers of material, the top of the underlayer shall be significantly moist to ensure uniform moisture between layers.

D. The surface of the compacted finish base course shall be uniform and smooth, conforming to a ¼ of 1% specified sloping requirements for croquet greens.

E. Crushed Stone Screenings Leveling Course: After the completion of the rock base, a 1” to 2” layer of stone dust screenings or compactable sand shall be applied to make sure the surface is level. The screenings shall be spread thoroughly and compacted. NOTE: It is recommended that 10 bags of stabilizer be mixed into the screenings prior to placement.

F. Finished surface of the leveling course shall not vary from the specified grade more than 1/8” in 10’ when measured in any direction.

THE FINISH SURFACES ARE LOOSE LAID OVER A STABLE SUBBASE.
THE WEIGHT OF THE AGGREGATE FILTERED INTO THE FIBERS PREVENTS MOVEMENT.

3.02 SURFACE PREPARATION

A. NovaBocce surfacing system shall be installed on a sound base surface within surface tolerance not exceeding 1/8” in 10’ when measured in any direction with a slope of ¼ to 1%.

B. The entire surface shall be checked for any depressions. Depressions of 1/16” or deeper shall be filled and leveled.

C. The entire surface shall be thoroughly cleaned to remove dust, dirt and foreign debris.

3.03 NOVABOCCE SURFACING SYSTEM

A. The surface course shall be installed according to manufacturer’s specifications.

B. Specifically engineered pad shall be placed over subbase (OPTIONAL) with NovaBocce turf loose laid on top.

C. All surface course materials are to be installed after the surface has been inspected and approved by the {Owner}{Architect}{Landscape Architect}{Engineer}.

D. All sections of surface mat are to be laid out so that the grass fibers are laying in the same direction.

E. All joints shall be attached with a single strength industrial adhesive and a high quality weather proof tape.

F. Aggregate Infill: Using a special mechanical mix device to filter the material into the fiber, the material infill shall be filtered into the surface mat in several light layers and shall be brushed in to allow the fibers to stand erect.

G. Do not allow petroleum products to be spilled on the NovaBocce surface.

3.04 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. Provide {Owner} {Architect} {Landscape Architect} {Engineer} with NovaBocce Maintenance Manual at 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.

2807 Walker Road. Chattanooga TN. 37421. 800.835.0033 F: 423.499.8882
info@ngisports.com / www.ngisports.com