

Section 11 6623 - INDOOR PERIMETER CONTAINMENT SYSTEM

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Indoor Sports Field **GSS IP300** Indoor Perimeter Containment System
- B. Containment system supports, anchors, mesh panels, and accessories

1.2 RELATED REQUIREMENTS

- A. Section 055000 - Metal Fabrications: Secondary structural members supporting gymnasium equipment.

1.3 REFERENCE STANDARDS

- A. ASTM A36/A36M - Standard Specification for Carbon Structural Steel
- B. ASTM A53/A53M – Standard Specification for Pipe, Steel, Black and Hot Dipped, Zinc-Coated, Welded and Seamless.
- C. ASTM A500/A500M – Standard Specifications for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
- D. NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Large Components: Ensure the large components can be moved into final position without damage to other construction.
- B. Anchor Points: Coordinate supplied loading to ensure that the materials supporting the anchor locations are designed appropriately.

1.5 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's data showing configuration, sizes, materials, finishes, hardware, and accessories; include:
 - 1. Fire rating certifications.
 - 2. Manufacturer's installation instructions.
- C. Shop Drawings: For custom fabricated equipment indicate, in large scale detail, construction methods; method of attachment or installation; type and gage of metal, hardware, and fittings; plan front elevation; elevations and dimensions; minimum one cross section; utility requirements as to types, sizes, and locations.
- D. Erection Drawings: Detailed dimensional requirements for proper location of equipment.
- E. Samples: Submit samples of materials in the manufacturer's available range of colors.

- F. Operating and maintenance data, for each operating equipment item.
- G. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified with minimum two years of experience.

1.7 WORK BY OTHERS

- A. Ground work to finish grade, artificial turf, flooring. All subgrade, finish grade, turf, artificial turf and flooring and associated work by others, coordinate any anchor installation and order of installation with Grand Slam Safety, LLC.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to the project site in manufacturer's original packaging with factory original labels attached.
- B. Store products indoors and elevated above the floor; prevent warping, twisting, or sagging.
- C. Store products in accordance with manufacturer's instructions; protect from extremes of weather, temperature, moisture, and other damage.

1.7 WARRANTY

- A. Indoor Perimeter Containment System mesh panels and components shall be warranted free of defects in material and workmanship for a period of two (2) years.
- B. Indoor Perimeter Containment System steel components and cables shall be warranted for a period of five (5) years against all defects of material and workmanship.
- C. Indoor Perimeter Containment System PVC and PEX components shall be warranted for a period of two (2) years.
- D. This warranty does not cover: Cost of removing or reinstalling defective parts; fading or discoloration to padding or vinyl-coated mesh parts caused by exposure to light; vandalism, misuse or acts of God (such as but not limited to hurricanes, lightning strikes, tornados, hailstorms); product malfunction resulting from improper product installation/manipulation by customer, and; damage caused by metal cleats.

PART 2 - PRODUCTS

2.1 INDOOR PERIMETER CONTAINMENT SYSTEM

- A. Supply and install an Indoor Perimeter Containment System as manufactured by ***Grand Slam Safety, LLC.*** to be complete in all respects with mesh panels, supports, mounting hardware and purchased accessories.
- A. Other suppliers or manufacturers wishing to bid products other than product specified herein shall submit to the Architect 7 days prior to the bidding a list of 3 past installations similar to the proposal, complete catalogue data along with deviations from the product specified. The manufacturer guarantees the proposed substitute product to comply with the product specified and as detailed on the drawings unless the deviations are so noted in the submittal for approval.

2.2 MATERIAL AND FABRICATION

A. Panels

- i. 8ft high panelized construction shall be connected by 2” wide vertical hook and loop seams with reinforcing 12” horizontal 2” wide hook and loop tabs at the top and bottom. Panel width to be customized per layout.
- ii. Each panel shall have a top and bottom pocket to accommodate the horizontal support cables. Bottom pocket shall be vinyl covered.
- iii. Panel edges to have 2” wide triple stitched hems with min #69 thread.
- iv. 2” hook shall be attached on the field side at 7’-6” height to attach optional upper netting.
- v. Integrated 6” square ½” closed cell foam pad protecting bottom anchor location.

B. Anchor

- i. Bottom anchor shall be 5/8” captive pin shackle secured to structure on a per design basis.
- ii. Bottom structure anchor options
 - 1. Ground Screw
 - 2. Concrete Pier
 - 3. Mechanical anchor to concrete
 - 4. Adhesive anchor to concrete
 - 5. Pole (ASTM A53), either sleeved or flanged (ASTM A36) into concrete pier or slab
- iii. Top structure anchor options
 - 1. Direct to truss or purlins
 - 2. Cantilever mounted 15’ AFF
 - 3. Pole, either sleeved or flanged into concrete pier or slab
- iv. Horizontal Anchor Points Options
 - 1. ASTM A500 2” HSS steel tubing spanning wall girts
 - 2. I-beam column clamps
 - 3. Padded 4” Sch 40 corner pole
 - 4. Other options available based on available structure. Contact manufacturer.

C. Horizontal Support Cables

- i. Panels shall be supported by horizontal top and bottom cables. Cables to be 3/16 GAC 7x7 construction MBS 3700 pounds enclosed in 1/2" OD HDPE tube.
 - ii. Horizontal support cables shall be terminated to horizontal anchor points.
- D. Vertical Support Cables
- i. Vertical supporting cables shall be positioned at panel seams and shall be via 7/16" snap link with 3/8" turnbuckle and 1/8 GAC 7x7 or 7x19 construction MBS 1700 pounds.
 - ii. Vertical support cables shall be terminated to the top structure anchor.

2.3 DESIGN CRITERIA

A. Panel Construction

- i. The panel materials shall have the following characteristics:
 1. Class A rated, self-extinguishing vinyl coated polyester mesh meeting NFPA 701. Mesh shall also be 6.5 oz/sq.yd. 1/8" apertures, 1000 denier, vinyl coated polyester, color to be selected by Architect
 2. Hook/Loop, 2" wide
 3. Vinyl, 18 oz/sq.yd - NFPA 701

B. Access and Egress Points

- i. Access and egress points shall be 42" wide by 6'-8" high openings with 6" wide low profile weighted threshold. The access and egress point shall be covered on the field side with 5'-6" wide mesh secured to the top of the panel via hook and loop with sufficient height to allow approximately 6" to rest of floor to prevent balls from rolling thru the opening and still allowing ease of egress thru the opening. A sign with "ENTER" and "EXIT" shall be furnished with 10" stencilled letters attachable via hook and loop to the front and back of the opening for ease of visibility from the field. Access and egress points will be located to coincide with facility egress points and as specified by customer, consult manufacturer.

C. Equipment Access Points

- i. Equipment access points shall be 2" hook and loop reinforced and triple sewn pull open flaps in individual panels. The size and location of the openings shall be specified after consultation with the manufacturer.

D. All exposed hardware is to be zinc plated, powder coated, or painted to color match as required by the Architect.

E. Fence panels must allow safe impact from athletes.

2.4 FINISHES

- A. Components (Other Than Fabric): Powder coated, color as selected, polyester
- B. Fabric – vinyl coated polyester mesh, color as selected.
- C. Vinyl Components: color as selected.

D. Hardware: Hot-dip galvanized or Zinc coated

2.5 MANUFACTURERS:

- A. Grand Slam Safety, LLC: www.grandslamsafety.com; Tel: 315-301-4039; Fax: 315-301-4031

PART 3 - EXECUTION

3.2 EXAMINATION AND MEASUREMENT

- A. When the job is sufficiently advanced to permit the installation of the indoor perimeter containment system, visit the site and check the actual conditions where the partition is to be installed, to ascertain whether the preparation work by the preceding trades is acceptable.
- B. Check and record all dimensions that affect the manufacture and installation of the units. Incorporate these dimensions into the Shop Drawings.
- C. Delivery to the job site shall be co-coordinated by the Contractor. Proper storage of the indoor containment system before installation and continued protection during and after installation shall be the responsibility of the Contractor.

3.3 INSTALLATION

- A. Install indoor perimeter containment system in accordance to the manufacturer supplied installation manual.
- B. Clean soiled surfaces with cleaners compatible with finished surfaces.
- C. A **Grand Slam Safety, LLC**. factory trained installer shall carry out this installation.

3.3 OPERATION

- A. The removable outfield safety fence shall be capable of being impactable by athletes and shall prevent athletes from contacting the building structure.
- B. Fence tensions should be checked periodically by examining the tensioning straps. Tension shall be adjusted according to the provided installation instructions.