

## **Part 1      General**

### **1.1          SUBMITTALS**

- .1      Provide Submittal submissions: in accordance with Section 01 33 00 - Submittal Procedures
- .2      Sustainable Submittals:
  - .1          Co-ordinate submittal requirements and provide submittals required by Section 01 47 15 - Sustainable Requirements: Construction.
- .3      LEED Submittals:
  - .1          Co-ordinate submittals requirements in accordance with Section 01 35 21 - LEED Requirements.
- .4      Provide shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
  - .1          Indicate size and description of products and finishes.
  - .2          Indicate construction, assembly and fabrication.
  - .3          Indicate materials, thicknesses, finishes and hardware.
  - .4          Indicate arrangement and assembly of components.
  - .5          Shop drawings that include structural considerations are to be approved by a Manitoba licensed Professional Structural Engineer.

### **1.2          MAINTENANCE DATA**

- .1      Upon completion of work of this section and prior to substantial performance, provide consultant with manufacturer's instruction covering care and maintenance of equipment.

### **1.3          DELIVERY, STORAGE AND HANDLING**

- .1      Deliver, handle, store and protect materials of this section in accordance with Section 01 61 00 - Common Product Requirements.

### **1.4          LEED REQUIREMENTS**

- .1      See Section 01 35 21 - LEED Requirements.
- .2      LEED Submittals: Submit LEED supporting documentation in accordance with Section 01 35 21 - LEED Requirements.
- .3      Waste Management and Disposal: Dispose of packaging and waste materials in appropriate on-site bins for recycling and disposal in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .4      Indoor Environmental Quality Credit EQ 4 – Low - Emitting Materials.
  - .1          LEED Indoor Environmental Quality Credit EQ 4.1 – Low-Emitting Materials: Adhesives and Sealants.

- .1 Low VOC complying with SCAQMD Rule #1168, Latest edition.
- .2 LEED Indoor Environmental Quality Credit EQ 4.2 – Low-Emitting Materials: Paints and Coatings.
  - .1 Architectural paints, coatings and primers applied to interior walls and ceilings to Green Seal Standard GS-11, latest edition.
  - .2 Anti-corrosive and anti-rust paints applied to interior ferrous metal substrates to Green Seal Standard GS-03, latest edition.
  - .3 Clear wood finishes, floor coatings, stains and shellacs applied to interior elements to SCAQMD Rule 1113, latest edition.

## Part 2 Products

### 2.1 BASKETBALL BACKSTOPS

- .1 Backstops shall feature adjustable frame to allow hand crank adjustment of hoop height from 2400 mm to 3000mm.
  - .1 Frames shall be made from 51mm square steel tubing, mounted to structural supports in wall using 6mm x 102mm steel plates, placed 889mm o.c.
  - .2 Stabilizing bars shall be made from 51mm steel tubing, from the front of the backstop frame to the wall at an angle of 30 degrees.
  - .3 Stabilizers shall be hinge mounted to permit minor adjustment, Cable bracing shall not be permitted.
  - .4 Backstops shall have a built-in, spring-loaded, locking bar. Release handle shall be supplied.
  - .5 Coordinate placement of wall blocking and reinforcement with general contractor.
  - .6 Backstops to be painted flat black.
    - .1 Acceptable Product: Royal Stewart RS119 HD Side Folding Basketball Backstop or approved equivalent.
- .2 All bolts and mounting hardware shall be included for installation
- .3 Fan shaped backstop to be supplied with tempered glass backboard with regulation painted lines by manufacturer.
- .4 990mm x 1372mm x 1/2" thick glass backboard with fired in target boarder.
- .5 Steel frame and goal mounting plate with baked on powder coat finish.
  - .1 Acceptable Product: Royal Stewart RS96 Glass Fan Backboard.
- .6 All hoops to be spring loaded to protect hoop and frame from bending. Each backstop to be supplied complete with net, and accessories necessary to adjust equipment.
  - .1 Acceptable Product: Royal Stewart RS2000 Breakaway Rim or approved equivalent in accordance with B6 Substitutes.

## 2.2 SPORTS POST FLOOR SOCKETS

- .1 Sockets shall be cast bronze, machined to 49mm ID and to be supplied complete with drop caps.
  - .1 Quantity: 6.
  - .2 Acceptable materials: RS 100 manufactured by Royal Stewart or approved equivalent in accordance with B6 Substitutes.
- .2 Provide steel sleeves to be installed in storage room for post storage.
- .3 Sockets shall consist of steel sleeves with 49mm ID to be installed in storage room.
  - .1 Quantity: 8.
  - .2 Acceptable materials: RS 108S manufactured by Royal Stewart or approved equivalent in accordance with B6 Substitutes.

## 2.3 VOLLEYBALL STANDARDS

- .1 One Pair Volleyball posts to be constructed of round tubing as recommended by the Canadian Volleyball Association.
- .2 Centre post shall be 48.26mm diameter tubing with two front braces and one full height back brace to prevent bending of pole. All bracing to be fabricated from 25mm OD tubing with 12 gauge wall thickness.
- .3 Bottom of post to be reinforced with 356mm insert.
- .4 Posts are to be equipped with 2 fully adjustable, nickel-plated fittings to accommodate heights: 1500mm, 2100mm, 2200mm, 2240mm, 2340mm, 2430mm.
- .5 Each post shall be supplied with 800lbs. capacity winch as well as rope leader to connect to net.
- .6 Two transport wheels to be provided on each post,; must be non-marking rubber. Back bracing shall be rubber clad to protect the floor.
- .7 Posts shall include padding and back brace.
- .8 Posts to be blue in colour.
- .9 Additional height 101mm extra for training and 1524mm height for badminton.
- .10 Compatible net shall be included, c/w steel cables.
  - .1 Acceptable product:
    - .1 RS105 Posts by Royal Stewart or approved equivalent in accordance with B6 Substitutes. To fit RS100 Floor Socket (synthetic flooring) and RS108S Storage Socket.
    - .2 RS105N Net by Royal Stewart or approved equivalent in accordance with B6 Substitutes.
    - .3 RS105PP Post Padding, by Royal Stewart Ltd.

## **2.4 BADMINTON STANDARDS**

- .1 Four posts to be constructed using 48.26mm tubing, c/w hooks both sides for use as centre or end posts.
- .2 Posts shall feature 48.26mm round washers to hold post at proper height for badminton.
- .3 Posts to be equipped with plastic top cap.
- .4 Posts to be blue in colour.
- .5 Posts to fit floor socket RS100 for synthetic flooring.
- .6 Three nets to be supplied.
  - .1 Acceptable products:
    - .1 RS 104 Badminton posts by Royal Stewart (4 required) or approved equivalent in accordance with B6 Substitutes.
    - .2 RS 104N Nets by Royal Stewart (3 required) or approved equivalent in accordance with B6 Substitutes.

## **2.5 WALL MOUNTED MATS**

- .1 Allow one section for each basketball backstop.
- .2 Each section will be 4877mm long x 1829mm high and consist of four 1219mm long x 1829mm high wall pads and 4877mm of aluminium gym mat hanger with Velcro insert.
- .3 Filler to be 1 1/4" 'Trocellen' covered with vinyl or nylon.
- .4 Colour to be selected by Contract Administrator from standard range.
- .5 Acceptable Products: RS Education Wall Padding as supplied by Royal Stewart Ltd.

## **Part 3 Execution**

### **3.1 Installation**

- .1 Locate and confirm floor sockets placement with Contract Administrator prior to construction of gym floor.
- .2 Co-ordinate the locations of required bracing for mounting basketball backstops.
- .3 Install gymnasium equipment in strict accordance with the manufacturer's instructions and recommendations.
- .4 Ensure satisfactory operation of all installed equipment.

**END OF SECTION**