
SPORTS FIELD BLEACHERS

PART 1 GENERAL**1.1 Description of Work**

- .1 Supply and install bleachers as specified in the Contract Documents.
- .2 Bleachers generally will be 5 tiers tall x 3.66 metres minimum to 4.24 metres maximum in length. **THE MAXIMUM BLEACHER SEAT HEIGHT SHALL NOT EXCEED 1.19 METRES.** Bleachers may be supplied with the following types of floor boards and seats:
 - .1 Bleachers supplied with wood floorboards and seats.
 - .2 Bleachers supplied with anodized extruded aluminum floor boards and seats.
 - .3 "Plastisol" coated steel frame and mesh floorboards and seats.
 - .4 Each bleacher must accommodate a minimum of 40 adults.

1.2 Standards

- .1 Provide all products and services in accordance with the following codes and standards:
 - .1 OBC Ontario Building Code
 - .2 CWB Canadian Welding Bureau
 - .3 CSA Canadian Standard Association

1.3 Shop Drawings and Certification

- .1 The Contractor shall provide shop drawings stamped approved by a Professional Engineer licensed in the province of Ontario for Consultant review prior to commencement of fabrication. The successful bidder will be responsible to have the Engineer review the installations upon completion and provide written certification that the construction and installation complies with all applicable codes and regulations.
- .2 A copy of their current Canadian Welding Bureau Letter of Validation stating that they are certified to CSA Standard **W47.1** must be submitted.

SPORTS FIELD BLEACHERS

PART 2 PRODUCTS**2.1 Materials**

- .1 Frames and backing shall be constructed of structural hollow steel sections and angle iron and shall have welded joints.
- .2 Galvanizing: Hot dipped galvanizing with zinc coating: to C.S.A. 6164 - M1981.
- .3 Welding Materials to CWB W47.1 and W59 - 1984.
- .4 Boards—
 1. Type 1- Pressure treated Jack Pine 30 mm x 254 mm. Treat all cuts with preservative.
 2. Type 2 - 6061-T6 aluminum anodized seamless 50 mm x 254 x 33 mm min. wall extrusions with end caps anodized finish for seats. Mill finish for floorboards.
 3. Type 3 - Metal boards shall be a #9 x 19 mm expanded steel mesh grating with 4.8 mm x 50 mm angle steel side supports. Entire board shall have a vinyl Plastisol coated finish to a thickness of 150 to 180 mil. Provide Plastisol colour samples to the Consultant for selection.
- .5 Fasteners - Primary structural fasteners shall be grade 5 button headed socketed and pinned cap screws with locknuts. All fasteners shall be formed from carbon steel and finished with zinc nickel plating with an iridescent chromate finish. Manufacturer to provide special tools for pinned hex fasteners.
- .6 Ground Sills - Bleacher shall be provided with 50mm x 150mm pressure treated ground sill boards (skids) on each frame section. The boards shall be continuous and end cuts shall be treated with preservative. Securely fasten the boards to the frame with the appropriate size and quantity of bolts washers, and nuts

2.2 Fabrication

- .1 Fabricate frames with welded connections where possible, otherwise bolt connections.
- .2 Accurately form connections with flush, tight, mitered joints.

SPORTS FIELD BLEACHERS

- .3 Grind or file exposed welds smooth.
- .4 Ship fabricated bleachers in sections as large and complete as practicable.
- .5 Finish all frames, braces and supports with hot dipped galvanizing.

PART 3 EXECUTION**3.1 Installation**

- .1 The Contractor is to confirm layout with the Consultant prior to installation. Grade level the area as required;
- .2 Provide labour, equipment and tools, as required to place and erect the bleachers;
- .3 Restore the site and access points to pre-installation condition to the satisfaction of the Consultant. Remove all debris and excess materials of site;
- .4 Arrange for the inspection of each site by the Consultant at the completion of installation;
- .5 Provide a copy of the Engineers inspection report of the completed installation.

3.2 Warranty

- .1 The Contractor shall warrant the materials and workmanship for Twenty-four (24) months standard warranty to apply from Substantial Performance Certification. Refer to Section [01700](#) – **Contract Closeout, Takeover & Warranties** for submittal requirements.

END OF SECTION - 02866