



**NON-ELEVATED STEEL ANGLE FRAME BLEACHER  
SPECIFICATIONS**

**PART 1 GENERAL**

**1.0 Acceptable Manufacturer**

All Bleacher Seating Supplied and Installed by Global Sport Resources Ltd. 780-469-7980

**1.1 System Description**

- A. Provide labour, material, equipment and supervision necessary to complete installation of galvanized steel non-elevated angle frame bleachers, including the following:

Fixed System to be Free Standing, with gross seating capacity of \_\_\_\_\_ and net seating capacity of \_\_\_\_\_. \_\_\_\_\_ Rows by \_\_\_\_\_ in length. Row Spacing to be 24" with a row rise of 8"

**1.2 Quality Assurance**

- A. Acceptable Manufacturer
1. The manufacturer shall be experienced in the manufacturing of Outdoor Seating systems.
  2. The Outdoor Seating system manufacturer shall employ a registered, professional engineer to certify that equipment to be supplied meets and/or exceeds the design criteria of these specifications.
  3. The Outdoor Seating system manufacturer shall have all welding done in a CWB (Canadian Welding Bureau) certified shop.
  4. It will be the responsibility of the bidder to furnish with his bid a list clarifying any deviation from these specifications, written or implied.
  - 5.
- B. Acceptable Installer
1. Installers to be recognized and trained by the Outdoor Seating manufacturer.

### **1.3 Submittals**

- A. Submit six copies of each of the following:
  - 1. Manufacturer's shop drawings
  - 2. Manufacturer's standard 1 year warranty
- B. Submit seating and deck samples, as required.

### **1.4 Site Conditions**

- 1. Owner to verify site locations and make site accessible
- 2. Owner to locate all underground utilities when necessary and move if required
- 3. Owner to have site leveled when necessary to accommodate Bleacher seating

### **1.5 Warranty**

- A. Submit manufacturers standard warranty form for Outdoor Seating Systems.
  - 1. The manufacturer shall guarantee all work performed under these specifications to be free from defects for a period of one (1) year.
  - 2. Any exposed mill finished aluminum surface will become discoloured due to oxidation which is a natural phenomenon. Bleacher manufacturer will not be responsible for discoloration of oxidized mill finish aluminum.

## **PART 2 PRODUCT**

### **2.1 Manufacturer's Design Criteria**

- A. Manufacturer's Design Criteria
  - a. Seat assembly is designed to support, in addition to its own weight, a live load in excess of 120 lbs. per linear foot or 100 lbs. per square foot (whichever affect is greater), front to rear sway in excess of 10 lbs. per linear foot and a parallel sway load in excess of 24 lbs. per linear foot of row.
  - b. Guardrail Loads: A single 200 pound concentrated or 50 plf distributed load applied in any direction, at any location.

### **2.2 Product Description**

#### **A. Outdoor Seating Structure**

- 1. Free standing when installed and is fabricated from structural steel angles spaced at 6'-0" (1829) intervals and connected by cross bracing.
- 2. Structural shapes meet one of the following ASTM specifications; A36, A572, Gr50 or A992
- 3. Finish: Steel Hot-Dipped Galvanized after fabrication in accordance with ASTM A123

**B. Deck System**

1. Aluminum Planking is Extruded alloy 6063-T6
2. Aluminum Guardrails is Extruded alloy 6061-T6
3. Aluminum Guardrail Support Post is Extruded alloy 6061-T6
4. Provide Hold Down Clip Assembly; Aluminum alloy 6063-T6 complete with Carriage Bolt to fasten Footboards to steel understructure.

**C. Riser System**

Risers at rear of each tread will be extruded Aluminum alloy 6063-T6

**D. Seating System**

Aluminum Seating is Extruded alloy 6063-T6 Anodized Finish

**E. Aisles**

1. Aisle with seating on both sides to have 34" high handrail with intermediate rail at approximately 22" above the tread.
2. Anodized aluminum handrails with rounded ends are discontinuous to allow access to seating through a space 22" minimum to 36" maximum.
3. Aluminum tread nosing of contrasting colour on aisle steps

**F. Guardrail**

To be at all sides of bleacher, entry stairs, walkways, ramps, portals and landings where 30" or more above adjacent grade. Materials to be anodized aluminum pipe with end plugs at ends of straight runs or elbows at corners. Top rail shall be 42"

## **PART 3 EXECUTION**

### **3.1 General**

- A. Seating Contractor shall verify that all areas are free of impediments interfering with the installation and that substrates are acceptable to receive seating in accordance with the manufacturer's recommendations.

### **3.2 Installation**

- A. Seating shall be installed in accordance with the manufacturer's instructions and final shop drawings.
- B. Adjustment and Cleaning: Upon completion of installation, Seating Contractor shall adjust each seating assembly in compliance with manufacturer's recommendations. Seating Contractor shall clean installed seating on exposed or semi-exposed surfaces and touch-up all exposed finishes.
- C. The manufacturer reserves the right to incorporate design changes and material substitutions as it sees fit to improve the overall product.