

Continuous Angle Frame Bleachers

The ultimate seating for portability, strength, crowd appeal, and economical installation and maintenance.

When economy counts, Sturdisteel Bleachers provide the top quality features you want at a cost that will fit your budget. Standardized construction gives you the flexibility of adding seats as your facility grows.

The low initial expense, coupled with low maintenance costs, adds up to long-term investment dividends.



3 ROW X 15' • MODEL T315



5 ROW X 21' • NON-ELEVATED • MODEL BC521



10 ROW X 69' • NON-ELEVATED • MODEL BC2CL



10 ROW X 51' • MODEL BCE2CL



CONTINUOUS ANGLE FRAME BLEACHERS SPECIFICATIONS

SECTION 13125

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Design and fabrication of angle frame bleachers.

1.02 REFERENCES

- A. ASTM A36 - Specification for Structural Steel.
- B. ASTM A123 - Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- C. ASTM A307 - Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile.

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with Section 01300 - Submittals.
- B. Shop Drawings: Submit shop drawings sealed by a registered professional engineer indicating location, size, details, and quantity of all steel, aluminum, and wood components.

1.04 QUALITY ASSURANCE

- A. Codes and Standards: Design, fabrication, and installation shall be in accordance with Uniform Building Code, 1997 Edition. Owner will verify local code requirements.
- B. Manufacturer Qualifications: Minimum 10 years experience in the design and manufacture of bleachers.
- C. Manufacturer Installed Qualifications: Employ persons trained and experienced in the installation of bleachers.
- D. Welders: AWS certified.

1.05 WARRANTY

- A. Guarantee bleachers to be satisfactory as to design, workmanship, and materials for 1 year

beginning after completion of project.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Sturdisteel Company, PO Box 2655, Waco, Texas 76702-2655. Tel (800) 433-3116. Fax (254) 666-4472.

2.02 ANGLE FRAME BLEACHERS

- A. Size: _____ feet long by _____ rows. (Refer to Seating Capacity Chart for angle frame bleachers.)
- B. Design: Design shall be in accordance with American Institute of Steel Construction and Specifications for Aluminum Structures.
- C. Design Loads:
 1. Live Load: 100 psf gross horizontal projection.
 2. Perpendicular Sway Load: 10 plf of seat plank.
 3. Lateral Sway Load: 24 plf of seat plank.
 4. Wind Load: 30 psf vertical projection.
 5. Live Load for Seat and Tread Planks: 120 plf.
 6. Guardrail Loads:
 - a. Vertical: 100 plf.
 - b. Horizontal: 50 plf.
- D. Shop Connections: Welded.
- E. Welding: AWS standards.
- F. Framework: Space prefabricated angle bleacher frames at 6 foot intervals and connect by crossbraces.
- G. Rise and Depth Dimensions:
 1. Vertical Rise and Horizontal Depth per Row: 8 inches by 24 inches; 7 inches by 24 inches for 3 row units
 2. Seat Above its Respective Tread: 17 inches.

H. Riser:

1. Nominal 1 by 8 or 1 by 10 clear anodized aluminum plank at all rows for 10, 15, 20 row non-elevated units and all elevated units.
 2. Nominal 1 by 8 at row 4 and 1 by 10 at row 5 of 5 row non-elevated units.
 3. Risers not required for 3 row units.
- I. Seats: Nominal 2 by 10 anodized aluminum plank, with 2 by 10 end caps.
 - J. Treads: Nominal two 2 by 10 mill aluminum plank with 2 by 10 end caps for all elevated units or 10, 15, and 20 row non-elevated units. Nominal one 2 by 10 mill aluminum plank for rows 1 through 3 and two 2 by 10 for rows 4 and 5 on 5 row non-elevated units. Nominal one 2 by 10 mill finish aluminum plank for 3 row units.
 - K. Guardrail: Each line with end plugs at ends of straight runs and elbows at corners. Secure to angle rail risers by fasteners. Guardrails in accordance with UBC 1997.
 1. Back and Side Top Rails: 42 inches above its adjacent seat.
 2. Front Walkway Top Rails: 42 inches above plank decking.
 3. Chain Link Fence Enclosure: In accordance with UBC 1997.
 4. Multi-Line Guardrail: In accordance with UBC 1997. (optional)
 - L. Front Walkway on Elevated Angle Frame Bleachers: 60 inches wide, elevated 30 inches high. Walkway deck with 2 by 10 mill aluminum plank, match footboards.