

BLEACHERS INTERNATIONAL

SPECIFICATIONS FOR FRAME TYPE BLEACHER – ELEVATED

Section 13125 – Exterior Bleachers

PART I GENERAL

1.01 SYSTEM DESCRIPTION

- A. Design and fabrication of Frame Type Bleacher

1.02 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer must have ten years of experience in the manufacturer of bleachers and grandstands; welders must have AWS certified.
- B. Source Quality Control: Mill Test Certification.

1.03 BUILDING CODES

- A. Owner to confirm the national code and the version which applies to project for inclusion in specifications.

1.04 WARRANTY

Bleachers International warrants its frame type bleacher to be free from defects in material and workmanship in the course of manufacturing for a period of five year beginning at day of substantial completion for projects installed by Bleachers International and beginning at Date of Initial Delivery of Product for Projects installed by others. This warranty excludes defects resulting from abnormal use, accidental or intentional damage, or any occurrences beyond Bleachers International control. Any exposed mill finish aluminum surface will become discolored due to oxidation which is a natural phenomenon. Bleacher manufacturer will not be responsible for discoloration of oxidized mill finish aluminum.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. Bleachers International, P.O. Box 718, Strasburg, Colorado 80136 U.S.A., (303) 622-9506 Fax: (303) 622-9524
- B. Other manufacturer seeking to be approved must submit product literature on frame-type design to the Owner for review and receive approval from Owner via addendum ten days prior to bid date.

2.02 ANGLE FRAME BLEACHERS

- A. Product Descriptions
 - 1. Elevated Bleachers:
 - a. Rise and Depth Dimensions: Standard Vertical rise and Standard horizontal depth per row: 8 inches x 24 inches. Optional: Vertical

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rise and horizontal depth per row can be also customized: 12 or 16 inches rise x 30 and 36 inches depth, respectively.

- b. Seat is 17 inches above its respective tread.
 - c. Framework: Prefabricate angle frames are space at maximum of 6-foot intervals and connected by cross braces.
 - d. Seats: Nominal 2 x 10 anodized aluminum plank with 2 x 10 anodized end caps.
 - e. Footboards: Two nominal 2 x 10 mill aluminum planks with 2 x 10 anodized end caps.
 - f. Risers: nominal 1 x 6-1/2 anodized (Optional: mill finished) aluminum riser planks beginning at Row 3; two 1 x 6-1/2 aluminum riser plank on top row.
 - g. Guardrailing: Two lines of aluminum rail with chain link fence 42 inches above seat on both sides of bleacher and across back of the bleacher. Front rail, 3 line with chain fence link 42 inches above front walk.
 - h. Entry Steps: Frames with 2 x 12 mill aluminum plank with step riser, contrasting aluminum stair nose and 2 line rail 36 inches above nose of step. Handrails shall extend in the direction of the exit steps 12 inches beyond the end of the steps. Ends shall terminate in newel posts.
 - i. Front Walkway: 30-inch elevation and 57-inch clear width.
 - j. Aisle (if required): aisle to be provided with 34" high handrail and intermediate rail at approximately 22" above tread. Handrails with rounded ends are discontinuous to allow access to sitting through a 24" wide space. Aluminum tread nosing of contrasting color on aisle steps.
2. Wheelchair Area:
 - a. Wheelchair area are to be 5'6" wide from two wheelchairs (33" each) and 36" for single.
 - b. Ramp:
 - (1) Slope space 1 in 12.
 - (2) Guardrailing: Two line aluminum rail 36 inches above ramp tread with intermediate rail at approximately 20 inches. Railing shall be continuous the full length of the ramp, and shall extend in the direction of the ramp 12 inches beyond the end of the ramp, returning to end at a newel post.
 3. Landing: Optional: 74" Return Landing: 74" Landing to have 3-line 36" chain link with rail at 42" above front walk plank.

B. Materials/Finishes

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1. Framework - Aluminum: Structural fabrication with aluminum alloy 6061-T6, mill finish.
 - a. Vertical members shall be 2" x 2" X 3/16" structural angle.
 - b. Horizontal members, diagonal and Cross braces shall be 1½" x 1 ½" x 3/16" structural angle.
 - c. Hand rail support shall be 3" x 1" channel
 - d. The whole structure is designed to be repaired with easily replaceable parts, using common hand tools.
2. Extruded Aluminum:
 - a. Seat Planks, Raiser Planks, Step Risers: Extruded aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class II, and a wall thickness of .078".
 - b. Tread Planks: Extruded Aluminum alloy 6063-T6, mill finish and wall thickness of .078".
3. Accessories:
 - a. Channel End Caps: Aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class II.
 - b. Hardware:
 - (1) Bolts, Nuts: Hot-dipped Galvanized
 - (2) Hold-Down Clip Assembly: Aluminum alloy 6063 - T6 (3) Structural Hardware: Hot-dipped galvanized, ASTM-A305.
 - c. Guard railing: Anodized Aluminum Pipe:1.66" O.D. 9-gauge chain link fencing or vertical bars guard rails.
 - d. Handrails: Anodized aluminum rail 1 .66" O.D.
 - e. Cross braces: Extruded aluminum angle alloy 6061-T6, mill finish.
 - f. Aisle Nose and Stair Nose: Aluminum alloy, 6063-T6. Optional: black powder coat finish.

C Manufactured Units:

2 Line Chain link on sides from Row 1 to Top, (2) 2 x 11 Tread Planks on All Rows. 1 x 6 – ½ Riser Beginning @ Row 1, (2) 1 X 6 -1/2 Raiser on Top Row,
Aisle (s) as Required,
57" Width Front Walkway,
One Ramp and One Stair,
Wheelchair Seating Area(s) as Noted.

D. Fabrication:

- 1) Design Load:
 - a. Live Load: 100 psf gross horizontal projection
 - b. Lateral Sway Load: 24 plf seat plank
 - c. Perpendicular Sway Load: 10 plf seat plank.
 - d. Wind load:: Per local building code requirements.
 - e. Live load of Seat and Tread Plank: 120 plf

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- f. Guardrail: 100 plf vertical and 50 plf horizontal.
- 2. All connections made in shop to be shop welded.
 - a. Manufactured by certified welders conforming to AWS Standards.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Install bleacher unit in accordance with manufacturer's installation procedures.
- B. IT IS HIGHLY RECOMMENDED that the bleacher unit be securely anchored to a flat, level concrete slab.

(all specifications are subject to change without notice.)

(01/03/07)