

# Bleacher Specifications

Non-Elevated Aluminum Angle Tip-N-Roll Frame

## SECTION 13125

### NON-ELEVATED ALUMINUM ANGLE TIP-N-ROLL FRAME BLEACHERS

#### PART 1 - GENERAL

##### 1.01 SECTION INCLUDES

- A. Design and fabrication of Non-Elevated angle frame bleachers

##### 1.02 QUALITY ASSURANCE

- A. Distributor: Basketball-Goals.com 67 Canterbury Laane Southington, CT 06489
- B. Manufacturer Qualifications: Manufacturer must have a minimum of ten years experience in the design and manufacture of bleachers.
- C. Welders must conform to AWS standards.
- D. Source Quality Control: Mill Test Certification.
- E. Codes and Standards: 2008 International Building Code.

##### 1.03 WARRANTY

- A. Warranty shall guarantee bleachers to be free from defect in materials and workmanship for a period of 1 year under normal use. Warranty period shall begin on date of completion for projects installed by manufacturer, or its subcontractors, **OR** warranty period shall begin on date of final delivery on projects installed by others.
- B. Anodized finish of plank extrusions shall be covered by a **5 year** warranty against loss of structural strength or finish deterioration due to exposure to weather conditions or UV rays. Discoloration of mill finish aluminum due to galvanic reaction not covered.

##### 1.04 PRODUCT LIABILITY INSURANCE

- A. Product liability insurance is carried for the life of the product in the amount of \$ 2,000,000.

##### 1.05 ENGINEERING

- A. Engineering certifications and calculations by a Registered Professional Engineer will be provided upon request, for a fee.

#### PART 2 – PRODUCTS

##### 2.01 ACCEPTABLE DISTRIBUTOR

- A. Basketball-Goals.com

##### 2.02 DESIGN

- A. Applicable Codes:
  - INTERNATIONAL BUILDING CODE (IBC), 2008 EDITION
  - Except aisle and handicapped requirements
- B. Design Loads:
  1. Live Loads: Uniform loading - Structure = 100 psf  
Uniform loading - Seat and Foot plank = 120 plf
  2. Sway Loads: Perpendicular to seats = 10 plf  
Parallel to seats = 24 plf
  3. Guardrail Loads: Uniform vertical load = 100 plf  
Uniform horizontal load = 50 plf  
Concentrated horizontal load = 200 pounds
  4. \*Wind Loads: Basic design wind speed = 150 mph (exposure "B")

**\*Note: Bleacher must be anchored to meet wind loads above**

##### 2.03 NON-ELEVATED ANGLE FRAME BLEACHERS

- A. Quantity and Size: Shall consist of 1 unit(s) 2 rows high x 7 long.  
Net seating capacity per unit 10 (excluding aisles, based on 18' per seat).
- B. Framework: Prefabricated aluminum angle spaced at 6' - 0' intervals joined by means of aluminum angle cross bracing.
- C. Shop connections: Welded to meet AWS standards and local code requirements

- D. Rise and Depth Dimensions: 6" vertical rise and 24" tread depth, Seat height is 16" above its respective tread.
- E. Seats: Nominal 2" x 10" anodized aluminum with anodized end caps.
- F. Treads: Nominal two (2) 2" x 10" mill finish aluminum with anodized end caps on all rows. Each unit will have high grade swivel casters with 5' non-marring wheels and non-marring foot pads.

## **2.04 MATERIALS / FINISHES**

- A. Framework:
  - 1. Aluminum: Structural fabrication with aluminum alloy 6061-T6 mill finish. Each frame shall be unit-welded, using metal inert gas method, under guidelines by the American Welding Society. After fabrication all steel is hot dipped galvanized to ASTM A-1 23 specifications. All crossbracing and horizontal bracing shall be aluminum angle 6061-T6 mill finish.
- B. Extruded Aluminum:
  - 1. Seat planks: Aluminum alloy 6063-T6, clear anodized 204R1, AA-M 1 0C22A31, Class II With a wall thickness nominally .078' for impact and deformation resistance.
  - 2. Tread and Riser Planks: Aluminum alloy 6063-T6, mill finish. With a wall thickness nominally .078" for impact and deformation resistance.
- C. Accessories:
  - 1. Channel End Caps: Aluminum alloy 6063-T6, clear anodized 204R1 ,AA-M 1 0C22A31 ,Class II.
  - 2. Hardware: Bolts and Nuts shall be hot dipped galvanized.
  - 3. Hold Down Clip Assembly: Aluminum alloy 6063-T6 mill finish.
  - 4. Joint Sleeve Assembly: Aluminum alloy 6061-T6, mill finish.

## **PART 3 – EXECUTION**

### **3.01 INSTALLATION**

- A. Install bleacher unit in accordance with manufacturer written instructions and shop drawings.

**Note: Building codes may vary from site to site. The customer is responsible for verification of local code requirements.**