



### **UNIVERSAL SERIES – TIP-N-ROLL ALUMINUM ANGLE FRAME (4 ROW)**

**ITEM:** 4 row x 21' tip-n-roll bleacher having a seating capacity of 56 net seats, GT Grandstands Model No. LU-0421AD-TR

**MANUFACTURER:** GT Grandstands, Inc., 2810 Sydney Road, Plant City, FL 33566, Ph (866) 550-5511, Fax (813) 305-1419

**DESIGN:** The bleachers shall be designed to support, in addition to their own weight, a uniformly distributed live load of not less than 100 psf of gross horizontal projection of the bleachers. All seat and foot plank members shall be designed to accommodate 200 plf across a 6' span with a maximum deflection of 9/16". The bleachers shall be designed to resist, with or without a live load, a horizontal wind load of 30 psf of gross vertical projection. In addition to the live load, the bleachers shall be designed to resist the following sway forces: (1) 24 plf of seat plank in a direction parallel to the length of the seat, and (2) 10 plf of seat plank in a direction perpendicular to the length of the seat. Under these loads, stresses in aluminum members and connections shall not exceed those specified for Building Type Structures by the Aluminum Association.

**CONSTRUCTION:** The understructure, including crossbracing, shall be of a welded, aluminum angle (6061-T6 alloy, mill finish) construction. The understructure of each unit shall consist of frames spaced at 6' centers joined by crossbracing at adequate points to comply with the design loads.

**DIMENSIONS:** The rise per row shall be 6", front row seat height 12" above grade, and tread depth per row of 24". Overall depth of unit is 6'-11 5/8". Clear width of unit is 21'. Top row seat height is 2'-6".

**SEAT PLANKS:** Seat planks shall be 2"x12" nominal, extruded 6063-T6 aluminum alloy with a clear anodized finish and end cap.

**TREAD PLANKS:** Tread planks shall be of two 2"x10" nominal, extruded 6063-T6 aluminum alloy with a mill finish and end cap.

**ALUMINUM PLANK HARDWARE:** Tie-down assemblies consisting of a four-way adjustable aluminum clip, with galvanized bolt with nut and washer shall be provided for each connection point at each support.

**CASTORS:** Fabricated to each bleacher frame are two all rubber, non-marking 4" swivel castors that allow the bleacher to be rolled when tipped upright. Recessed rubber bumpers will be bolted to the bottom of each bleacher frame to prevent damage to a gym floor.

**WARRANTY:** GT Grandstands warrants to the Buyer that its bleachers shall be free from defects in material and workmanship under normal use for a period of five (5) years provided they are installed per GT Grandstands installation instructions and that component parts supplied by GT Grandstands are used. GT Grandstands' obligation under this warranty shall be limited to repair and exchange of any such item, which may prove defective under normal use (vandalism and premeditated damage excluded) during such period. GT Grandstands will release the warranty documents to the buyer only after the Buyer has paid GT Grandstands in full the final contracted amount.

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