

10 ROW ALUMINUM BLEACHER SPECIFICATIONS with CHAIN LINK FENCE HANDRAIL REQUIREMENTS

SCOPE

Design of the bleacher shall conform in all respects to the requirements as set forth in these specifications. The description of the bleacher is as follows:

Number of Rows: 10

Overall length: 27'0"

Seating Capacity: 143

32" elevation/54" wide front walkway

First seat 17" above walkway; 8" rise/24" tread depth

UNDERSTRUCTURE

The understructure of the bleacher shall consist of a series of welded aluminum angle frames spaced at intervals of no more than 6'0" and joined by means of aluminum sway braces, alloy 6061-T6, mill finish. Each frame shall consist of vertical members, adequate diagonal braces, and horizontal members welded to form an 8" rise and a 24" back to back spacing between seat rows. All welded connections shall be by certified aluminum welders and all mating parts shall be welded on all sides to assure adequate strength.

DESIGN

The bleacher shall be designed to support, in addition to its own weight, a uniformly distributed live load of not less than 100 pounds per square foot of gross horizontal projection of the bleacher. All seat and foot plank members shall be designed to support not less than 120 pounds per lineal foot. The bleacher shall be designed to resist, with or without live load, a horizontal wind load appropriate for local conditions. It shall also be designed to resist, in addition to the live load, sway forces applied to the seats in a direction parallel to the length of the seat planks 24 pounds per lineal foot; and in a direction perpendicular, stresses in aluminum members and connections shall not exceed those specified for Building Type Structures by the Aluminum Association.

Bleachers must be erected and secured to concrete footings, per manufacturer's specifications.

SEATS AND DECKING

Seats shall be 2"x10" nominal extruded (1.75"x9.5" actual) aluminum, alloy 6063-T6, wall thickness .078" (+/- .006" industry tolerance) with a raised fluted surface to provide a non-skid surface. Seats shall be anodized clear (204R1), conforming to the Aluminum Association Architectural Standard AA-C22A31. Seat planks shall have one internal support leg, and shall be designed to rest on a seat support with a minimum bearing surface of 8-1/2" to provide adequate resistance to torsion stress. Footboards shall consist of two 2"x10" nominal extruded (1.75"x9.5" actual) aluminum, alloy 6063T6, wall thickness .078" (+/- .006" industry tolerance) with raised fluted surface to provide a non-skid surface on all rows. Footboards shall be double 2x10 mill finish (all rows). 1x6 mill finish riser boards shall be provided under rows 1-9; 2x10 mill finish riser under row 10 only of mill finish aluminum extrusions, alloy 6063T6.

End caps shall be of a heavy duty clamping, channel design, and shall match in both color and finish the plank to which they will attach. End caps shall be fastened to the underside by means of two aluminum rivets.

Seats and footboards shall be connected to the supporting structure so as to transmit all live and sway loads to the understructure members, so placed to resist those loads specified in the design section. The connecting hardware (bolt clips) shall be of extruded aluminum, mill finish. Clips shall be so designed as to provide adjustability in four directions.

AISLE

There shall be one 60" wide vertical aisle with center handrail located within the bleacher. Aisle extension plank shall be provided to close the horizontal opening in the aisles.

GUARDRAIL

All railing shall consist of 1-1/4" schedule 40 aluminum pipe with an anodized clear finish and shall be a 2/line rail with chain link fence on the back and 3/line rail with chain link fence on the sides and front of the unit. All plugs and fittings shall be of cast aluminum. Rail pipe shall be secured to the aluminum channel supports by means of galvanized tension bands.

Means of egress shall be by stairs off each end of the front walkway.

HARDWARE

All structural hardware shall be 7/16" diameter, grade 5 machine bolts, complete with hex nuts and "spring type" lock washers. All hardware connecting plank to understructure shall be 5/16 diameter carriage bolts, complete with hex nuts and "spring type" lock washers. The finish of all hardware shall be either hot-dipped galvanized or stainless steel to prohibit deterioration from electrolysis. No other hardware finish will be considered as an alternate.

WARRANTY

All aluminum bleachers shall carry, after proper erection, and under normal use for this type of structure, a one (1) year warranty against all defects in materials and workmanship. Acts of vandalism or abuse shall render the conditions of this warranty null and void.

PRICE SEPERATLY

Solid, 4" (3000 psi) concrete pad covering the entire footprint of new bleachers. Pad must be level.