

January, 2006

SPECIFICATION

PREFERRED SEATING

CHAMPION SEAT BLEACHER MOUNT

SECTION 1: GENERAL SPECIFICATIONS

1.1 SCOPE OF WORK: Deliver and install specified bleacher or riser mounted stadium chairs with center and aisle standards, armrests, decorative end panels, with seat lifting to a full $\frac{3}{4}$ upright uniform position when not occupied. The bleacher mount can be retrofitted onto preexisting bleachers or mounted on top of cement risers.

1.2 ACCEPTANCE AND STUDY OF WORK ON SITE: A seating layout plan of the site is required. Defects on the risers or bleachers which may influence the satisfactory completion and performance of the seating work will be corrected prior to the beginning of seating work.

1.3 FIELD MEASURE TO VERIFY: Take field measurements to verify finished dimensions and make necessary adjustments to shop drawings to reflect the actual field conditions.

1.4 SEATING LAYOUT: The complete seating plan developed from the contract drawings shall show the location of all chairs, sizes, aisle locations and alignment, and installation details. Assume complete responsibility for accuracy of all chair measurements shown on the seating plan.

1.5 QUALITY REQUESTS: Fully operational for strength, comfort and design, ergonomically confluent seat contour for proper posture alignment.

BASE SPECIFICATION:

SPECIFIED

Preferred Seating

FIXED CHAIR

Champion Seat Bleacher Mount

1.6 APPROVALS

Any manufacturer that has prior approval must meet the specifications as written, no deviations.

1.7 BIDDERS RESPONSIBILITIES: The bidder shall provide the following with his bid:

Minimal requirement:

- a. A complete set of descriptive literature showing the model of chair proposed, including dimensional details.
- b. A complete set of specifications.
- c. Complete seating layout.

1.8 DELIVERY: Deliver the seating at jobsite for timely installation with the other trades in the project.

1.9 WORKMANSHIP AND MATERIALS:

- a. All new materials of colors and designs as specified.
- b. Sign off completed work to the owner in undamaged condition.
- c. Provide highest quality to the owners of workmanship in skilled labor and materials to complete job.

2.0 WARRANTY:

- a. Preferred Seating warrants the Champion Sport Seat for a period of five years from the date of shipment against manufacturing defects at the time of completion and signoff of job.
- b. Replacements or repairs of the Champion Sport Seat due to defects in manufacturing or materials are fully covered in this warranty. Normal deterioration of products due to weather, wear and tear, or other causes that do not affect functional use are not covered by Preferred Seating. Improper installation, assemblage, accidental incidents, abuse and vandalism are not covered in this warranty.
- c. All warrantee problems must be arranged through Preferred Seating and have a warrantee authorization number before Preferred Seating sends a crew out to replace/repair any problem that may occur.

SECTION 2: MATERIAL SPECIFICATIONS

2.1 PLASTIC COMPONENTS:

- a. High density injection molded plastic shall be one-piece, high impact, linear polyethylene with built-in ultra-violet light inhibitors to retard fading, and anti-static compounds to retard dirt attraction. Solid polypropylene is strong (no break, no tear) and resistant to fading.
- b. Plastic shall have a maximum burn rate of 1” per minute when tested in accordance with ASTM D635, or Department of Transportation Motor Vehicle Safety Standard No. 302.

The component materials for this chair meet the requirements specified in this table: Plastic has impact resistant automotive grade application.

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|-------------------------|---|
| 1. Tensile Strength: | 4600 psi on aisle standards
11,500 psi on protective hinge casing |
| 2. Flexural Strength: | no break IZOD factor of 15 on aisle standards
15,000 psi on protective hinge casing |
| 3. Melting Temperature: | 320 degrees F on aisle standards
550 degrees F on protective hinge casing |
| 4. Flammability Rating: | No flash point, no combustion on aisle standards
No flash point, no combustion on protective hinge casing. |

2.2 **HARDWARE:** All hardware used for assembling the seat will be rust resistant and stainless steel.

SECTION 3: CONSTRUCTION

3.1 CHAIR BACKS:

The chair back is built with solid injection molded polypropylene with maximum UV inhibitors. Seat is formed to fit the contour of the body when in the sitting position. Rear edge of the seat conforms to the curvature of the back. Seat has an overall back height of 21.5" high (545 mm). The textured grain is damage and scratch resistant. Seat back is available in solid or slat back.

The back is available in 23", 22", 21" or 20" (584 mm, 559 mm, 533mm, 508mm) center armrest to center armrest widths.

3.2 SELF-LIFTING SEAT:

a. The seat shall contain an automatic $\frac{3}{4}$ fold lift up system and mechanism providing a folding resistance system guided by heavy teflon coated 8 gauge torsion spring springs on steel axles independently extruded. The carriage shall be a lift system in which the seat rotates up on a stainless steel rod. Alignment shall be kept with a guided track. The spring system shall be totally enclosed with an outer enclosed automotive grade no break super tough nylon protective casing that never wears out and is self lubricating. This increases the life of the hinge and eliminates the need for external lubrication. The seat is available in 23", 22", 21" or 20" (584 mm, 559 mm, 533mm, 508mm) center armrest to center armrest widths. Seat pan width is 18" or 17" inches (457 mm or 432 mm). Seat will pass a 800 pound static test load at edge of seat. The seat has a 13" envelope, increasing seating capacity. The multiple curves give the spectator long time support. The waterfall at the front of the seat pan reduces pressure points.

The seat shall also be certified to pass seat cycle oscillation testing, ASTM Designation F851-87 Test Method for Self-Rising Seat Mechanism, and sand bag testing.

3.3 STANDARDS:

Standards shall be 2 $\frac{1}{2}$ " wide, "solid no break polypropylene". See chart for properties of no break polypropylene. They can be fixed to the floor with 2 bolts or 4 bolts. No break plastic is corrosion and chemical resistant. The flexural modulus shall be 80,000 per square inch. It has no break characteristics and will flex to adjust to site conditions. All end standards shall have an optional decorative end panel of no break plastic polypropylene.

3.4 ARMRESTS:

Armrests shall be constructed of high impact injection molded no break polypropylene to compliment the seat design. Cupholders optional, attached to back of seat or on armrests.

3.5 **NUMBER AND LETTER PLATES:** Number or letter plates, riveted, 2 $\frac{3}{4}$ " by 1 $\frac{3}{4}$ ", shall be provided as shown on the approved seating layout. Optional, adhesive backs. The number plates

shall be secured to the seat back by 4 rivets. Letter plates, 4" diameter, will be secured to the decorative end panel by two pins. Attaching hardware will match the plate finish. Optional, adhesive backs.

SECTION 4: EXECUTION

4.1 SCOPE OF WORK: Installation work to be performed by factory trained professional personnel engaged in installation of seating for minimum of 5 years under the direction of a capable installation superintendent, in a manner satisfactory to the Architect, and the job turned over to the owner with all chairs complete and ready to use.

4.2 METHOD OF INSTALLATION: The seating layout shall be reproduced on the bleachers or risers and all dimensions checked against the approved seating plan with necessary adjustments made in the layout for all discrepancies

Seats shall be attached to the bleacher by 2 or 3 ($\frac{3}{8}$ ") inch carriage bolts. Seats shall be attached to the cement risers by means of 2 or 3 approved lead shield $\frac{1}{4}$ " expansion bolts not less than 3" long.

4.3 SEATING LAYOUT: The seating layout shall be reproduced on the bleachers or risers and all dimensions checked against the approved seating plan with necessary adjustments made in the layout for all discrepancies.

4.4 CLEANING: Remove all debris caused by this work from the premises.