

SHERIDAN GYMNASIUM EQUIPMENT LIMITED

THEATER PLATFORM SEATING SPECIFICATIONS

PART 1 GENERAL

1.1 Description

A. Scope

1. Telescopic platform systems comprised of multi-tiered rows of seats, deck components and risers on interconnected, retractable, supporting structure. Telescopic platform operation shall be by means of manual or electric operation. Telescopic platform system shall be wall attached (typically), recessed, telescoping or portable. System shall be floor attached where reverse folding.

B. Manufacturer's Design Criteria

1. Seat assembly is designed to support, in addition to its own weight, a live load in excess of 120 lbs. per linear foot or 100 lbs. per square foot (whichever affect is greater), front to rear sway in excess of 10 lbs. per linear foot and a parallel sway load in excess of 24 lbs. per linear foot of row.
2. Guard railings are engineered to withstand a load of 200 lbs. per foot at top rail and an intermediate load of 150 lbs. per foot.
3. Steel structure must be free standing when installed and include 4 steel columns per row, per section. Those manufacturers which only include 2 columns per row, per section are not acceptable.
4. Steel columns must be fabricated from structural high tensile steel tubing; minimum size of tubing will be 1 ½" x 3" x .125 wall. Those manufacturers providing formed steel or angle iron columns in place of structural tubing are not acceptable.
5. Two row locks per row, per platform section manufactured from ¼" hot rolled steel to prevent racking of platforms as they are retracting are required.
6. Footboards shall be produced from ¾" plywood with top facing. Voids or boat patching on top facing is not acceptable. Top facing shall receive 3 coats of colored, opaque, catalyzed epoxy coating. Aluminum trim shall be installed on all exposed edges. Extruded aluminum joiners shall be placed between adjacent footboards. The manufacturer can also provide a number of alternative floor surfaces to meet clients needs (carpet, aluminum, linoleum, hardwood, etc.).

7. No less than 4" diameter x 1 ¼" soft faced, non marking rubber wheels to support understructure system shall be provided with sintered metal bearings and clips for easy replacement.
8. Nose beam shall be formed from 14 ga. minimum galvanized steel. Steel shall have G90 galvanized coating or better. These will encapsulate ¾" plywood decks.
9. Rear riser shall be formed from 14 ga. minimum galvanized steel. Steel shall have G90 galvanized coating or better.
10. Handicap seating provisions: Provide handicap cutouts as required by ADA, including required guardrails. Shop drawings will reflect locations.

1.2 Quality Assurance

- A. Acceptable Manufacturer
 1. The manufacturer shall be a firm experienced in the manufacturing of telescoping seating systems.
 2. The telescopic seating system specified herein shall comply with the International Code 2000 Edition, Standard for Assembly Seating, Tents and Membrane Structures; and specifically with Chapter 5, Folding and Telescopic Seating, except where additional requirements are indicated or imposed by authorities having such jurisdiction.
 3. The telescopic seating system manufacturer shall employ a registered, professional engineer to certify that equipment to be supplied meets and/or exceeds the design criteria of these specifications.
 4. The telescopic seating system manufacturer shall have all welding done in a CWB/AWB certified shop.
 5. It will be the responsibility of the bidder to furnish with his bid a list clarifying any deviation from these specifications, written or implied.
- B. Acceptable Installer
 1. Installers to be recognized, trained and certified by the telescoping platform seating manufacturer.

1.3 Submittals

- A. Submit six copies of each of the following:
 1. Manufacturer's shop drawings
 2. Manufacturer's standard 1 year warranty and limited 20 year warranty
 3. Manufacturer's Operation and Maintenance instructions
- B. Submit seating and deck samples, as required.

1.4 Warranty

- A. Submit manufacturers standard warranty form for Telescopic seating systems.
 - 1. The manufacturer shall guarantee all work performed under these specifications to be free from defects for a period of one (1) year.
 - 2. Replacement structural steel components, nuts, bolts, axles, and wheels as necessary to maintain the integrity of the original installation, will be provided at no charge for a period of twenty (20) years.
 - 3. The guarantee shall be limited to the fair use of the Telescopic Seating System and shall not include acts of vandalism, fire, flood or other situations that do not fall into the general use requirements of the bleachers.
 - 4. A yearly inspection and required maintenance must be performed to maintain the extended 20 year warranty.

PART 2 PRODUCT

2.1 Manufacturers

- A. The basis of design for the theatre platform seating shown on the plans and detailed in these specifications is by Sheridan Gymnasium Equipment Limited.
 - 1. Model: T300 Telescopic Platform with the customers desired type of chair.
 - 2. Aisle Type: Foot level Aisles with center aisle railings with curved top rail terminations.
 - 3. End rails: Typically self-storing ready rails.
 - 4. Operation: Integrally powered friction electric operation or manual operation.
 - 5. Product Requirements:
 - a. System to be wall attached. System shall be floor attached where reverse folding.
 - b. Row rise: 8", 10", 11 5/8", or custom to special requirements
 - c. Row spacing: custom to customer requirements

2.2 Fabrication

- A. Understructure System
1. Structural high-tensile steel columns fabricated from minimum size 1 ½" x 3" x .125 wall structural tubing.
 2. Bracing: 1 ½" square, structural tubing.
 3. Row Locks: Provide two per each row, per bleacher section made of ¼" plate, hot rolled steel.
 4. Wheels shall be 4" diameter x 1 ¼" width. In many cases, *Sheridan* provides a 6" wheel.
 5. Finish: Provide manufacturers black, semi-gloss, machinery enamel.
- B. Deck System
1. Footboards shall be ¾" plywood with top facing. All surfaces shall be thoroughly sealed. Top facing shall receive three coats of colored, opaque, catalyzed epoxy coating. Aluminum trim shall be installed on exposed edges. Adjacent foot boards shall be joined by means of extruded aluminum joiner beam sized for ¾" footboards.
 2. The telescopic platform manufacturer can also supply aluminum, carpet, linoleum, panalam or any other product that the customer may desire.
 3. Provide thru-bolt fastening through galvanized steel riser beams at locations of splices in rear riser. Front deck connection shall be provided using front steel nose beams.
- C. Decking and Riser Supports
1. Decking and riser supports shall form rigid closed deck structure. Tapered deck stiffeners shall be bolted through the front and back.
- D. Electrical System
- Tractor Drive System: A series of electric drives are located under the first row in sufficient quantities necessary to move the system in and out effortlessly. Each tractor drive consists of two 12" wide x 6" diameter cylinder wheels covered with a specially formulate white 60 durometer soft-faced rubber grooved for positive grip and low wear while reducing stress on floor.
- The tractor is operated by a minimum ¼" HP gear reduction motor built into a height adjustable steel framework and containing additional weight plates for added traction where necessary. These drives operate from one central control box and a single plug-in, hand-held, low-voltage remote pendant controller which has, in addition to an in-and-out button, a left and a right jog button used to always allow for straight and true steering (as required).
- The standard system operates with 3 phase, 208 volt, 60 Hz power. Optional power source can be supplied as required.

PART 3 EXECUTION

3.1 General

- A. A Manufacturer representative or the platform installer shall demonstrate the proper method of operation of the platform system to the Owner and Architect upon completion of the work.
- B. Telescopic Seating Subcontractor shall verify that all areas are free of impediments interfering with the installation and that substrates are acceptable to receive seating in accordance with the manufacturer's recommendations.
- C. Electrical wiring within the building as required for power operation of the platforms shall be provided by others.

3.2 Installation

- A. Seating shall be installed in accordance with the manufacturer's instructions and final shop drawings. Telescopic Seating Subcontractor will install all accessories, anchors, inserts and other items for installation of seating and for permanent attachment to adjoining construction.
- B. Adjustment and Cleaning: Upon completion of installation, Telescopic Seating Subcontractor shall adjust each seating assembly to operate in compliance with manufacturer's recommendations. Telescopic Seating Subcontractor shall clean installed seating on exposed or semi-exposed surfaces and touch-up all exposed finishes.
- C. The manufacturer reserves the right to incorporate design changes and material substitutions as it sees fit to improve the overall product.