

SECTION 12 66 23 - TELESCOPING PLATFORM SPECIFICATIONS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Telescoping Platform Seating includes, either manually or electrically operated systems of multiple-tiered seating rows comprising of seat, deck components, understructure that permits closing without requiring dismantling, into a nested configuration for storing or for moving purposes.
 - 1. Typical applications include the following:
 - a. Wall Attached Telescoping Platform Seats.
 - b. Recessed Telescoping Platform Seats.
 - c. Floor-Attached (Freestanding) Telescoping Platform Seats.
 - d. Portable Telescoping Platform Seats.
 - 2. Special applications include the following:
 - a. Tapered Section Telescopic Platforms.
 - b. Truncated Section Telescopic Platforms.
 - c. Demountable Decks
 - d. Spanner Decks
- B. Related Sections:
 - 1. Division 9 finishes sections for adequate floor & wall construction for operation of Telescoping Platform Seats. Flooring shall be level and rear wall plumb within 1/8" [3mm] in 8'-0" [2438mm]. Maximum Platform force on the floor, of a 20' [6096mm] section, shall be a static point load of less than 300 psi [2.07 Mpa]
 - 2. Division 16 Electrical sections for electrical wiring and connections for electrically operated Telescoping Platform Seats.
- C. Alternates: This section specifies alternates for Telescoping Platform Seat products. Refer to Part 2 products for alternate products, and to Division 1 Alternates sections and other bid documents, if any, for alternate requirements.

1.02 REFERENCES

- A. National Fire Protection Association 102-2011
- B. ICC 300-2012
- C. American Welding society (AWS):
 - 1. AWS D1.1 Structural Welding Code - Steel
 - 2. AWS D1.3 Structural Welding Code - Sheet Steel
- D. American Institute of Steel Construction (AISC):
 - 1. AISC - Design of Hot Rolled Steel Structural Members
- E. American National Standards Institute (ANSI).
- F. American Iron & Steel Institute (AISI):
 - 1. AISI - Design Cold Formed Steel Structural Members.

12 66 23-1

- G. Aluminum Association (AA):
 - 1. AA - Aluminum Structures, Construction Manual Series.
- H. American Society for Testing Materials (ASTM):
 - 1. ASTM - Standard Specification for Properties of Materials.
- I. National Forest Products Association (NFPA):
 - 1. NFOPA - National Design Specification for Wood Construction.
- J. Southern Pine Inspection Bureau (SPIB):
 - 1. SPIB - Standard Grading Rules for Southern Pine.
- K. National Bureau of Standards/Products Standard (NBS/PS):
 - 1. PS1 - Construction and Industrial Plywood.
- L. Americans with Disability Act (ADA)
 - 1. ADA - Standards for Accessible Design.

1.03 MANUFACTURER'S SYSTEM ENGINEERING DESCRIPTION

- A. Structural Performance: Engineer, fabricate and install telescopic Platform seating systems to the following structural loads without exceeding allowable design working stresses of materials involved, including anchors and connections. Apply each load to produce maximum stress in each respective component of each Platform seat unit.
 - 1. Design Loads: Comply with ICC 300 – 2012 .
- B. Manufacturer's System Design Criteria:
 - 1. Platform seat assembly; Design to support and resist, in addition to its own weight, the following forces:
 - a. Live load of 120 lbs per linear foot [1751 N/m] on seats and decking
 - b. Uniformly distributed live load of not less than 100 lbs per sq. ft. [4788 N/m²] of gross horizontal projection.
 - c. Parallel sway load of 24 lbs. per linear foot [350 N/m] of row.
 - d. Perpendicular sway load of 10 lbs. per linear foot [146 N/m] of row.
 - 2. Hand Railings, Posts and Supports: Engineered to withstand the following forces applied separately:
 - a. Concentrated load of 200 lbs. [890 N] applied at any point and in any direction.
 - b. Uniform load of 50 lbs. per foot [730 N/m] applied in any direction.
 - 3. Guard Railings, Post and Supports: Engineered to withstand the following forces applied separately:
 - a. Concentrated load of 200 lbs. [890 N] applied at any point and in any direction along top rail.
 - b. Uniform load of 50 lbs. per foot [730 N/m] applied horizontally at top rail and a simultaneous uniform load of 100 lbs. per foot [1460 N/m] applied vertically downward.
 - 4. Member Sizes and Connections: Design criteria (current edition) of the following shall be the basis for calculation of member sizes and connections:
 - a. AISC: Manual of Steel Construction

- b. AISI: Specification for Design of Cold Formed Steel Structural Members
- c. AA: Specification for Aluminum Structures
- e. NFOPA: National Design Guide for Wood Construction.

1.04 SUBMITTALS

- A. Section Cross-Reference: Required submittals in accordance with "Conditions of the Contract" and Division 1 General Requirements sections of this "Project Manual."
- B. Project Data: Manufacturer's product data for each system. Include the following:
 - 1. Project list: Ten (10) seating projects of similar size, complexity and in service for at least five (5) years.
 - 2. Deviations: List of deviations from these project specifications, if any.
- C. Shop Drawings: Indicate Telescoping Platform Seat assembly layout. Show seat heights, row spacing and rise, aisle widths and locations, assembly dimensions, anchorage to supporting structure, material types and finishes.
 - 1. Wiring Diagrams: Indicate electrical wiring and connections.
- D. Samples: Seat materials and color finish as selected by Architect from manufacturers offered color finishes.
- E. Manufacturer Qualifications: Certification of insurance coverage and manufacturing experience of manufacturer.
- F. Installer Qualifications: Installer qualifications indicating capability, experience, and manufacturer acceptance.
- G. Engineer Qualifications: Certification by a professional engineer registered in the state of manufacturer that the equipment to be supplied meets or exceeds the design criteria of this specification.
- H. Operating/Maintenance Manuals: Provide to Owner maintenance manuals. Demonstrate operating procedures, recommended maintenance and inspection program.
- I. Warranty: Manufacturers standard warranty documents.

1.05 QUALITY ASSURANCE

- A. Seating Layout: Comply with current ICC 300 Standard for Bleachers, Folding and Telescopic Seating, and Grandstands.
- B. Welding Standards & Qualification: Comply with AWS D1.1 Structural Welding Code - Steel and AWS D1.3 Structural Welding Code - Sheet Steel.
- C. Insurance Qualifications: Mandatory that each bidder submit with his bid an insurance certificate from the manufacturer evidencing the following insurance coverage:

12 66 23-3

1. Workers Compensation - including Employers Liability with the following limits:
 - \$500,000.00 (US) Each Accident
 - \$500,000.00 (US) Disease - Policy Limit
 - \$500,000.00 (US) Disease - Each Employee
 2. Commercial General Liability - including premises/ operations, independent contractors and products completed operations liability. Limits of liability shall not be less than \$5,000,000.00 (US).
- D. Manufacturer Qualifications: Manufacturer who has a minimum of twenty years of experience manufacturing telescoping Platform seats.
- E. Installer Qualifications: Engage experienced Installer who has specialized in installation of telescoping Platform seat types similar to types required for this project and who is acceptable to, or certified by, telescoping Platform seat manufacturer.
- F. Engineer Qualifications: Engage licensed professional engineer experienced in providing engineering services of the kind indicated that have resulted in the successful installation of telescoping Platforms similar in material, design, fabrication, and extent to those types indicated for this project.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver telescopic Platforms in manufacturers packaging clearly labeled with manufacturer name and content.
- B. Handle seating equipment in a manner to prevent damage.
- C. Deliver the seating at a scheduled time for installation that will not interfere with other trades operating in the building.

1.07 PROJECT CONDITIONS

- A. Field Measurements: Coordinate actual dimensions of construction affecting telescoping bleachers installation by accurate field measurements before fabrication. Show recorded measurements on final shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid delay of Work.

1.08 WARRANTY

- A. Manufacturer's Product Warranty: Submit manufacturer's standard warranty form for telescoping Platforms. This warranty is in addition to, and not a limitation of other rights Owner may have under Contract Documents.
 1. Warranty Period: Five years from Date of Acceptance.
 2. Beneficiary: Issue warranty in legal name of project Owner.
 3. Warranty Acceptance: Owner is sole authority that will determine acceptance of warranty documents.

1.09 MAINTENANCE AND OPERATION

- A. Instructions: Both operation and maintenance shall be transmitted to the Owner by the manufacturer of the seating or his representative.
- B. Service: Maintenance and operation of the seating system shall be the responsibility of the Owner or his duly authorized representative, and shall include the following:
 - 1. Operation of the Seating System shall be supervised by responsible personnel who will assure that the operation is in accordance with the manufacturer's instructions.
 - 2. Only attachments specifically approved by the manufacturer for the specific installation shall be attached to the seating.
 - 3. An annual inspection and required maintenance of each seating system shall be performed to assure safe conditions. At least biannually the inspection shall be performed by a professional engineer or factory qualified service personnel.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturer: Hussey Seating Company, U.S.A.
 - 1. Address: North Berwick, Maine, 03906
 - 2. Telephone: (207) 676-2271; Fax: (207) 676-9690
 - 3. Product: Hussey Telescopic Platform Seat System
 - a. **MXP** Series Telescopic Platform Seats, row spacing in either 32 inches [813mm], 33 inches [838mm], 34 inches [864mm], 35 inches [889mm], or 36 inches [914mm].
 - b. **MXP** Series Telescopic Platform Seats, Custom Rise 4" [102mm] min. – 24" [610mm] max. Row rise at any dimensional increments. Variable/ Combination Rise solutions also available upon request. Consult your Hussey Representative for engineering detail
 - c. Aisle Type: **SELECT:** foot level aisles, front steps, and intermediate aisle steps.
 - d. Rail Type: **SELECT:** Self Storing or removable end rails, front railings, rear rails, aisle hand rails
 - e. Operation: electrical power
 - 1. Electrical Power System: **SELECT:** Integral power with pendant control and limit switches, or steerable power with pendant control.
 - f. Transport System (Portable Sections Only): (**SELECT:** integral dollies, portable dollies, fork tubes, fork tubes with integral shelf dollies)
 - g. Platform Type: (**SELECT:** wall attached, portable, freestanding, recessed)
 - 4. Product Description/Criteria:
 - a. Bank Length: _____
 - b. Aisle Widths: _____
 - c. Number of Tiers: _____
 - d. Row Spacing(s): _____
 - e. Row Rise: _____
 - f. Open Dimension: _____
 - g. Closed Dimension: _____
 - h. Overall Unit Height: _____
 - i. Net Capacity: _____ per seat

5. Miscellaneous Product Accessories: **SELECT:** operating handles, front panels, end panels, rear panels, scorer's table, top seat filler, seat numbers, row letters, end curtains, manual aisle closure, rubber gap closures, hinged gap closures, program supports, floor pintles, aisle lights.
 6. Special Applications: **SELECT:** tapered sections, truncated units, cross aisles, portable access stairs, programming supports, extended rear deck filler, rear wall column cutouts.
 7. Handicap Seating Provisions: Provide first tier handicap cutouts per requirements of Americans with Disability Act (ADA) located as indicated.
- B. Other Acceptable Manufacturers: Will be considered if in compliance with these specifications. Deviations must be submitted with bid in order that a fair and proper evaluation be made. Those bidders not submitting a list of deviations will be presumed to have bid as specified.

2.02 ALTERNATES

- A. Base Bid:
 1. Base Bid Product:
 2. Base Bid Product Accessories:
- B. Alternate No. ____: In lieu of providing base bid product, provide the following:
 1. Alternate Product:
 2. Alternate Product Accessories:
- C. Alternate No. ____: In lieu of providing base bid product, provide the following:
 1. Alternate Product:
 2. Alternate Product Accessories:

2.03 MATERIALS

- A. Lumber: ANSI/Voluntary Product 20, B & B Southern Pine
- B. Plywood: ANSI/Voluntary Product PS1, Wood Species Group 1
- C. Structural Steel Shapes, Plates and Bars: ASTM A36.
- D. Uncoated Steel Strip (Non-Structural Components): ASTM A1011, Commercial Quality, Type B, Hot-Rolled Strip.
- E. Uncoated Steel Strip (Structural Components): ASTM A1011 Grade 33, 36, 40, 45, or 50, Structural Quality, Hot-Rolled Strip.
- F. Structural Tubing: ASTM A500 Grade B, cold-formed.
- G. Nylon Plastic: Polyamide 66, injection molded, heat stabilized; minimum strength in accordance with ASTM D638
- H. Fasteners: Vibration-proof, of size and material standard with manufacturer.
- I. Aluminum: AA 6063-T6, extruded.

12 66 23-6

2.04 UNDERSTRUCTURE FABRICATION

A. Frame System:

1. Wheels: not less than four 6" [152mm] diameter by 1 3/8" [35mm] with non-marring soft rubber face to protect wood and synthetic floor surfaces or hard rubber face for concrete and other hard floor surfaces. Wheels shall have molded-in sintered iron oil impregnated bushings to fit 3/8" [10mm] diameter axles secured with E-type snap rings.
2. Wheel Channel: High tensile steel internally stiffened between wheels.
3. Lower Track: 3/8" [10mm] track bearing welded to wheel channel interlocked with adjacent track bearing through a 1/2" [13mm] diameter pre-tensioned steel guide rod. Tier catches lock each tier in the open position and allow automatic unlocking when in the closed position.
4. Vertical Columns: High tensile steel, minimum 2" x 5" [51mm x 127mm] tubular shape, fully welded around Wheel Channel.
5. Compression Bracing: High tensile tubular steel members through-bolted to columns and brace attachments.
6. Secondary Bracing: High tensile tubular steel members through-bolted to front of columns and riser.
7. Brace Attachment: High tensile steel member through-bolted to nose and riser.
8. Deck Stabilizer: High tensile steel member through-bolted to nose and riser. Interlocks with adjacent stabilizer on upper tier using low-friction nylon guide to prevent separation and misalignment.
9. Adjustable Cantilever: High tensile steel member through-bolted to nose and frame. Jack screw allows for vertical adjustability.

B. Deck System:

1. MXP Low Rise (4" rise to 5.624" rise)
 - a. Riser: High tensile steel formed channel through-bolted to frames, deck stabilizers, and brace attachments.
 - b. Nose beam: Extruded 6063-T6 aluminum with 3 longitudinal channels for attachment of structure, chairs, rail sockets, and other accessories as required for current and future deck arrangements.
2. MXP Mid Rise (5.625" rise to 8.499" rise)
 - a. Riser: High tensile steel formed channel through-bolted to frames, deck stabilizers, and brace attachments.
 - b. Nose beam: Extruded 6063-T6 aluminum with 3 longitudinal channels for attachment of structure, chairs, rail sockets, and other accessories as required for current and future deck arrangements.

3. MXP High Rise (8.500" rise to 24.000" rise)
 - a. Riser: High tensile steel formed channel through-bolted to frames, deck stabilizers, and brace attachments.
 - b. Nose beam: Extruded 6063-T6 aluminum with 3 longitudinal channels for attachment of structure, chairs, rail sockets, and other accessories as required for current and future deck arrangements.
4. Extruded Aluminum Decking: 1.03" [26mm], 6063-T6 grade, clear anodized oriented from front of deck to rear of deck (nose beam to riser beam). Adjacent pieces shall be locked together with snap interlocking feature from front to rear of deck.
5. Poly Deck: Shall be a high-density polyethylene overlay panel fabricated with a skid-resistant textured top surface of 100% moisture barrier bonded to a plywood substrate with an exterior glue. Panel thickness shall be 1.03" [26mm] with top polyethylene surface colored weathered gray, black, or beige.
6. Carpeted Decks: Provide at decks and steps double tufted, anti-static, solid and crush resistant 100% polypropylene pile with high-density foam backing carpet. Mount to Classic Wood deck as substrate. Carpet color to be of manufacturer's standard selection.

2.06 SHOP FINISHES

- A. Understructure: For rust resistance, steel understructure shall be finished on all surfaces with black "Dura-Coat" enamel. Understructure finish shall contain a silicone additive to improve scratch resistance of finish.
- B. Wear Surfaces: Surface subject to normal wear by spectators shall have a finish that does not wear to show different color underneath:
 1. Steel risers shall have a finished surface with semi - gloss black.
 2. Aluminum decks and noses will be clear anodized in accordance with the Aluminum Association 0.7 mil Architectural class 1.
- C. Railings: Steel railings shall be finished with powder coated polyester, semi - gloss black.

2.07 FASTENINGS:

- A. Welds: Performed by welders certified by AWS standards for the process employed.
- B. Structural Connections: Secured by structural bolts with prevailing torque lock nuts or free-spinning nuts in combination with lock washers.

2.08 ELECTRICAL OPERATION

- A. Integral Power: Furnish and install Hussey PF(3/4), an integral automatic electro-mechanical powered frame propulsion system, to open and close telescopic seating.
1. Operation shall be with the following options:
 - i. Removable pendant control unit which plugs into seating bank for operator management of stop, start, forward, and reverse control of the power operation.
 - ii. (PF4 only) Removable pendant control unit which plugs into seating bank for operator management of forward, reverse, left, right, and individual motor selection.
 2. Each Powered Frame unit shall consist of output shaft gear reducer with 6" [152mm] diameter x 4" [102mm] wide wheels covered with non-marring 1/2" [13mm] thick composite rubber. Reducers shall be fitted with 3 phase induction motors which will provide an average operating speed of 26 ft/min [.13 m/s].
 3. Limit Switches: Furnish and install both open and closed limit switches for the integral power system. The limit switches will automatically stop integral power operation when seating has reached the fully extended or closed position.
 - A. Power operation shall utilize a combination of contactors and limit switches to insure the wiring is not energized except during operation. Straight wired electric system is not allowed.
 4. Electrical: Seating Manufacturer shall provide all wiring within seating bank including pendant control.
 - a. Each Powered frame unit for PF4, or each pair of Powered Frames for PF3, is operated by a 1/2 horsepower, 1725 R.P.M., 208 Volts, 50/60 Hz., three phase 1.25 service factor motor. This motor draws a full load current of 2.2 amperes. Power supply required shall be 208 volts three phase 5 wire plus ground service with 20 amps. Motors, housing, and wiring shall be installed and grounded in complete accord with the National Electrical Code.
 - b. The electrical contractor shall provide required power source with no greater than 4% voltage drop at the seating junction box. The electrical contractor shall perform all wiring connections in junction box that are attached to or a part of the building.

2.09 TRANSPORT SYSTEMS

- A. Shelf Dollies / Lift Beams: Each platform section shall be equipped with front and rear lift beams. Lift beams shall be designed and located so as to engage the platform understructure in closed position for relocation via owner tow vehicle. The dollies will be engaged when the telescopic platform section is lifted. The dollies shall be permanently contained beneath the rear row, and shall be equipped with full swivel wheels with bonded in place polyurethane treads.
- B. Portable Hydraulic Dollies: Provide one pair of portable hydraulic dollies suitable for transport of movable telescopic sections. Each dolly shall be fitted with sufficient quantity of 360 degree swiveling ball race casters to insure ease of movement. Wheel treads shall be molded polyurethane bonded to cast steel with roller bearing hubs. Dollies shall be inserted manually beneath the front of first telescoping row with seating completely closed. Dollies shall be designed to engage, at the front, each rolling carriage and at the rear, the structural steel lift beam.

- C. Integral Hydraulic Dollies: Provide one pair of integral hydraulic dollies suitable for transport of movable telescopic sections. Each dolly shall be fitted with sufficient quantity of 360 degree swiveling ball race casters to insure ease of movement. Wheel treads shall be molded polyurethane bonded to cast steel with roller bearing hubs. Dollies shall be permanently attached to the rear lift beam.

2.10 ACCESSORIES

- A. Front Steps: Provide at each vertical aisle location. Front steps shall engage with front row to prevent accidental separation or movement. Steps shall be fitted with non-skid rubber feet. Construction materials shall be coordinated with that of decking.
- B. Non-Slip Tread: Provide at front edge of each aisle locations an adhesive-backed abrasive non-slip tread surface.
- C. Strip Aisle Lights: To be (2) 6" [152mm] long x 5/16" [8mm] square strip aisle lights with housing mounted in each intermediate aisle step. Strip aisle lights will operate from 24 volts requiring a transformer system. Electrical components to be UL approved and should be installed by an electrician.
- D. Intermediate Aisle Steps: Intermediate aisle steps shall be of boxed fully enclosed type construction. Construction materials shall be coordinated with that of decking. Quantity and location as indicated on plans.
- E. Intermediate Aisle Handrails: Provide single pedestal mount handrails 34" [864mm] high with terminating mid rail. Handrails shall be attached to the socket and shall rotate 90° for easy storage in socket.
- F. Front Panel: Provide elevated seating equipment with full width front closure panels is required. Panels shall extend vertically from underside of front row to within 1/4" [38mm] of power frame. Paneling to be 5/8" [16mm] Polydeck attached to a steel framework.
- G. End Panel: Provide closure panels for stack position at each of the exposed bank ends. Panels shall be constructed of 5/8" [16mm] Polydeck suitably supported and stiffened.
- H. Rear Panel: Provide required seating units with full width rear closure panels. Panels shall extend vertically full height or up to 8'-0" [2438mm] high to within 1 1/2" [38mm] of floor. Paneling to be 5/8" [16mm] Polydeck attached to a steel framework. Rear panels cannot extend above 8'-0" [2438mm] on portable sections.
- I. Front Rail: Provide 26" [660 mm] high minimum demountable steel rails with tubular supports and intermediate members to fulfill design criteria. Rails to be located at all required seating locations. Finish shall be powder coat in semi gloss black.
- J. Self Storing End Rails: Provide steel self-storing 42" [1066mm] high end rail with tubular supports and intermediate members designed with 4" [102mm] sphere passage requirements. Rails to be located at all required seating locations. Finish shall be powder coat in semi-gloss black.
- K. Removable End Rails: Provide steel 42" [1066mm] high removable rear rails with tubular supports and intermediate members designed with 4" [102mm] sphere passage requirements.

12 66 23-10

Rails to be located at all required seating locations. Finish shall be powder coat in semi-gloss black.

- L. Rear Filler: Provide and install, between top row and wall, a properly supported, flush mounted, scribe fitted filler.
- M. Storage Carts: Heavy duty mobile handling carts for storage and transportation of all demountable rails and related accessories. Storage trucks to be minimum 3'-9" [1143mm] wide and 6'-6" [1981mm] long with adjustable support brackets as required to store rails single high and from two sides of truck. Fit trucks with a sufficient quantity of 360 degree swivel wheels to insure ease of manual movement and stability of truck. Wheel treads to be molded polyurethane bonded to metal hub. Coordinate number of trucks required with event configurations indicated.
- N. Programming Support/Front Rail: Provide a combination programming support and front rail as required to support the programmed seating row with the remaining lower rows stored beneath. Front rail to extend 26" [660 mm] minimum above the level of the first seating row deck and have intermediate members to fulfill applicable code and design criteria. Support/rail to be designed to sustain the live load of the first seating row being programmed.
- O. Full Section Permanent Truncation: Provide Full Section Permanent Truncation as indicated. Provide rigid 26" [660 mm] high minimum above truncated deck front rails with tubular supports attached to the front of the permanent truncation. Provide full height front closure panel from underside of truncated row to within 1/4" [6mm] of power frame.
- P. Full Section Recoverable Truncation: Provide a combination programming support and front rail as required to support full section recoverable truncation with remaining lower rows stored beneath. Support/front rail to extend 26" [660mm] minimum above deck and be designed to sustain live load of first seating row being programmed.
- Q. Transitional Top Steps: Provide at each vertical aisle location top transition steps (last row of telescopic platforms to balcony). Steps shall be of boxed fully enclosed type with construction materials and finish coordinated with that of decking.
- R. Rubber Gap Closures: Operating clearance gaps between sections shall be covered with removable thresholds. The thresholds shall be extruded rubber, retained by an oversize self-centering spine.
- S. Cross Aisle: Provide continuous top cross aisle per plan of seating. Construction material and finish to match telescopic seating.
- T. Portable Section Locks: Each portable telescopic section shall be equipped with interconnecting section locks. Locks shall be designed to connect both the upper and lower area of the rear deck structure to ensure proper operating clearance and section alignment.
- U. Spanner Decks: Provide required removable decks designed to span area between adjacent seating banks. Spanner decks shall match construction and finish of telescopic platforms.
- V. End Curtains: Furnish, deliver and install closure curtain panels at each exposed deck end in accordance with the drawings. **(See Personalization and Creativity under Accessories section)**

Personalization and Creativity--Accessory Options and Solutions

Full Bleed Graphic Vinyl End Closure Curtains

1. Provide closure curtains fabricated of vinyl-coated 14oz Polyester fabric on open ends of telescopic seating. Curtains to be permanently attached to wall or rear closure panel and secured to individual rows of seating. Curtain to open with seating unit into taught secure configuration and fold automatically as seating unit closes.
2. Curtain to have high resolution "full bleed" graphic logo or photograph located across entire visible surface area of the end curtain

Colored Safety Rail Systems

1. Choose from 15 Standard colors
2. Durable powder coated finish.
3. Color selections available on center aisle handrails, end rails, front rails, rear rails.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify area to receive telescoping Platform seats are free of impediments interfering with installation and condition of installation substrates are acceptable to receive telescoping Platform seats in accordance with telescoping Platform seats manufacturer's recommendations. Do not commence installation until conditions are satisfactory.

3.02 INSTALLATION

- A. Manufacturer's Recommendations: Comply with telescoping Platform seats manufacturer's recommendations for product installation requirements.
- B. General: Install telescoping Platform seats in accordance with manufacturer's installation instructions and final shop drawings. Provide accessories, anchors, fasteners, inserts and other items for installation of telescoping Platform seats and for permanent attachment to adjoining construction.

3.03 ADJUSTMENT AND CLEANING

- A. Adjustment: After installation completion, test and adjust each telescoping Platform seats assembly to operate in compliance with manufacturer's operations manual.
- B. Cleaning: Clean installed telescoping Platform seats on both exposed and semi-exposed surfaces. Touch-up finishes to restore damage or soiled surfaces.

3.04 PROTECTION

- A. General: Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer to ensure Telescoping Platform seats are without damage or deterioration at time of substantial completion.

END OF SECTION