

**NOTE TO THE SPECIFYING ARCHITECT REGARDING SECTION 11064
STAGE EQUIPMENT (TWO PROSCENIUMS)**

Use this specification for platform stages with a proscenium that opens to the cafeteria and another proscenium that faces the gymnasium.

The lining for each front curtain is a rear curtain for the other proscenium.

A mid-curtain is also a rear curtain for many functions from either perspective.

Borders are used to mask lighting fixtures and duct work.

Phone 800 548 8982 for clarification or explanation; no charge, of course.

SECTION 11064
THEATRE RIGGING AND EQUIPMENT (TWO PROSCENIUMS)

PART 1 GENERAL

1.01 STIPULATIONS

- A. The specification sections "General Conditions", "Special Requirements", and "General Requirements" form a part of this section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.02 SCOPE

- A. This section of specifications includes all labor, supervision, equipment, tools, materials and all other means of construction necessary to perform the stage equipment work as shown on the drawings, described in this specification, or as necessary to complete the work in a first class manner.
- B. This contractor must make a complete field check of the site conditions and shall take accurate measurements before fabrication. Miscellaneous items necessary for a proper installation of the stage curtains and equipment shall be supplied and correctly installed by the Contractor. The Contractor shall be held responsible for the quality of materials and labor furnished to insure the proper installation of the specified materials.
- C. The front stage setting shall consist of two front stage curtains, and the associated tracks and pipe battens. The concert setting shall consist of four pairs of pivoting wing curtains, and pivoting fixtures; and 3 double faced ceiling borders. The front stage curtains shall be lined with the same fabric used for the pivoting wing curtains and the double faced borders.
- D. All stage equipment items shall be supported from a system of parallel pipe battens, and stage curtain tracks. All stage curtain tracks shall be fastened to the pipe battens by means of pipe clamps or trim chains.

1.03 RELATED WORK IN OTHER SECTIONS OR CONTRACTS

- A. Duct locations in HVAC Contract
- B. Electrical equipment locations in Electrical Contract
- C. Sprinkler pipe locations

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data, product specifications, installation instructions, and other pertinent information as applicable for each product or material specified.
- B. Test Reports: Submit certified laboratory test reports as necessary to show compliance with specified requirements.
- C. Shop Drawings: Shop drawings shall meet requirements of applicable portions of General and Supplemental Conditions. Shop drawings shall show gages, profiles, sections of materials, details of construction, hardware, methods of attachment and/or anchoring, all as applicable for specified materials.
 - 1. Furnish layouts for inserts, clips or other supports required to be installed by other trades for support of tracks and battens.
 - 2. The stage equipment supplier shall provide a layout for approval by the architect and/or owner. The equipment shall be properly spaced to avoid all conflict with equipment furnished by other trades. Approval of the drawings is to facilitate cooperation among trades, but full responsibility for a properly functioning installation remains the obligation of the stage equipment contractor.
- D. Submit samples as required for color selections.

PART 2 PRODUCTS

- 2.01 A. Velour fabric shall be manufactured by K-M Fabrics, J.L. DeBall, or Frankel Associates, or approved equal.
- B. Track shall be manufactured by Automatic Devices Co., H and H Specialities or Janson Industries (800 548 8982), or approved equal.

2.02 MATERIAL AND WORKMANSHIP

- A. Furnish and install all necessary structural metal or equipment as required for proper installation and further as required to meet the requirements and standards of cognizant authorities.
- B. The front stage setting shall be manufactured from 54 inch cotton velour, weighing 25 ounces per running yard. The concert setting and mid-stage curtain shall be manufactured from 54 inch cotton velour, weighing 21 ounces per running yard.

2.03 QUALITY

- A. All materials hereinafter specified shall be first quality. All curtains shall be fabricated of standard width in full length. No horizontal splicing will be allowed or accepted. Horizontal dimensions of finished curtains shall be determined by reference to the scale plan drawing. Width of finished curtain sections measured horizontally at the bound tops shall be equal in horizontal dimension to the lengths of track and battens indicated in plan plus additional width as required for laps, which shall be 36 inches at centerline of platform opening and 20 inches elsewhere. Finished vertical dimensions of all curtains including masking borders and valances or teasers shall be the vertical dimension indicated in the section drawing of platform equipment.

2.04 FLAMEPROOFING

- A. All fabrics shall be either inherently flame resistant or shall be flameproofed by vat immersion process in accordance with standard industry practice and the requirements of the fire codes and regulations of both state and local jurisdictions. All fabrics shall comply with the standards established in Bulletin 701, National Bureau of Fire Underwriters. Notarized certificates of flameproofing shall be furnished by this contractor attesting that the fabrics used in manufacturing comply with the regulations. The flame retardant chemical which produces a Flame Spread Rating of 10, a Smoke Density of 15 and Fuel Contributed Factor of 0 when tested in accordance with ASTM E-84 (Tunnel Test) shall be used.

2.05 FABRICATION

- A. The tops of all fabric items shall be bound with 3-1/2" jute webbing. Fullness shall be added by box pleating to the webbing, with pleats of equal size, located on each vertical seam and at intervals between the seams not to exceed 12". Brass grommets, number 2, shall be centered on each box pleat. Provide 75% added fullness for all front stage setting velour drapery and 60 percent fullness for the mid-stage curtain and the concert setting. Hem all curtain sections to accord with standard industry practice, using six inch bottom hems for items that normally extend to the floor. Furnish a chain pocket within the bottom hem of full length curtains, inserting number eight jack chain wherever required. Provide two inch vertical side hems on all curtain sections except front platform curtain which shall be provided with half strip turnbacks at both leading edges and trailing edges of all curtain sections.
- B. All full length curtains on the stage shall extend from track carriers to one inch above the platform floor. Masking elements shall be of sufficient size to adequately mask the stage walls and ceiling structure from the first row seats.

2.06 BIPARTING TRACKS

A. All stage curtain tracks for traveler curtains shall be heavy duty, ball bearing type, Janson number J9000, Clancy 281, or ADC 281, complete with all necessary accessories. Straight traveler tracks shall be furnished with continuous operating lines, end pulleys and ball bearing floor pulleys. Curtain carriers shall have metal bodies and incorporate two wheels and each wheel shall have a race of ball bearings with plastic or neoprene tires. Carriers shall have a swivel and bumper feature to eliminate binding of successive wheels. Track shall be roped for bi-parting operation with center overlaps of 3 ft. All tracks shall be connected to pipe battens by means of pipe clamps on centers not to exceed 5 feet. Operating line shall be 3/8 braided cotton or synthetic fiber with reinforced center.

2.07 A. Furnish and install walkalong tracks conforming to the scale drawings. Walkalong tracks shall be I-beam type, Janson 880, ADC140 or Clancy 140. No rope and pulley system shall be provided. Tracks with pivotal fixtures and pivoting leg curtains shall be walkalong type without center overlap. All walkalong tracks shall be reinforced with pipe clamps on centers not to exceed 5 feet. Walkalong tracks for leg curtains shall extend completely across the stage (width of stage opening plus 10 ft).

2.08 PIPE BATTENS

- A. All stage equipment items shall be supported from a system of parallel pipe battens, and a single pipe batten shall correspond to each item, including drapery items that are tied directly to pipe battens, as well as track items. All hardware shall be fastened to the pipe battens by means of pipe clamps or trim chains.
- B. Pipe battens shall be 1½ inch, schedule 40, steel pipe, or 2 inch o.d. aluminum tubing, with precision internal splices not less than 24 inches in length with not less than (2) ¼ inch, grade 5 bolts and lock-nuts securing the pipe to the internal splice.

SCHEDULE OF EQUIPMENT

ITEM	HARDWARE	FABRIC
2 Valances	Pipe	25 oz. velour
2 Front Curtains	Track	25 oz. velour
3 Borders	Pipe	21 oz. velour
4 Pairs of legs	Track and pivots	21 oz. velour
Mid-stage curtain	Track	21 oz. velour

Length of pipe battens and tracks shall be 8 ft. greater than the width of the widest proscenium. Vertical dimensions of draperies that extend to the floor shall be equal to the height of the proscenium with the greatest vertical dimension. Valance and borders shall provide adequate masking from front row seats.

2.09 HANGERS

- A. All supporting hangers shall be 2/0 welded chain (proof coil) with a rust preventive finish. Top of hangers shall be secured to structural steel by means of beam clamps and 5/16 inch grade 5 bolts with lock-nuts, or shall be secured by encircling the structural steel and bolting as indicated earlier. At the batten ends of the chain hangers the pipes shall be completely wrapped with sufficient additional chain for adjusting the elevation of the battens. Hangers shall be located on centers not to exceed 10 ft.

2.10 STRUCTURAL SUPPORTS

- A. All loads shall be directly supported from the structural steel or from auxiliary miscellaneous metal furnished and installed by the stage equipment contractor. Anchoring devices and miscellaneous metal required for proper installation shall be erected during the process of the general construction at the appropriate time to coordinate with the work of other trades. 3" x 2" x 1/4" angles or 1 1/2" schedule 40 pipe, or the equivalent, may be used for auxiliary support.

2.11 PIVOTAL DRAPERY FIXTURES

- A. Furnish and install pivotal drape fixtures as required incorporating (2) ball bearing carriers for each fixture. Pivoting shall be accomplished from the floor and drapery shall be tied to a 1 1/2 inch aluminum pipe batten securely fastened to the pivot fixtures. Pivotal fixtures shall be Janson #4028 or ADC #28 or Clancy 28, or approved equal. Pivotal fixtures shall be supplied with integral brakes.

3.01 COORDINATION

- A. The stage equipment installer shall coordinate with other trades to assure that location of equipment avoids conflict.
- B. Installation shall be made in two operations. Hardware shall be installed when subfloor is in place and building is otherwise ready for hardware. Drapery shall be installed after floor has been finished and building has been cleaned.

3.02 FINISH:

- A. All items provided under this section shall have the manufacturer's standard finish and color, except as noted. All turnbuckles, clips, tracks, chains and other items of incidental hardware shall be furnished plated or painted.
- B. Draperies shall be leveled, trimmed, and left ready for use.

END OF SECTION

11064-5

11/02/04

