

SECTION 11 48 40

GYMNASIUM DIVIDERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes: [Electrically] operated fabric gymnasium divider.

B. Related sections:

1. Section 05 12 00: Structural steel framing to support gymnasium divider.
2. Section 26 05 11: Electrical supply, conduit, and wiring for motorized gymnasium divider.

1.2 SUBMITTALS

A. Submit in accordance with Section 01 33 23 - Submittal Procedures:

1. List of proposed products and product data.
2. Loads to be transmitted to building structural members and requirements for supplementary bracing and structural support members.
3. Shop drawings showing layout, elevations, dimensions, fabrication details, method of attachment and electrical wiring diagrams.
4. Manufacturer must provide calculations and reports for tests performed by an independent testing laboratory accredited by the American Association of Laboratory Accreditation (A2LA) that clearly demonstrate compliance with minimum safety factors included in product specifications.
5. Certificates for Divider Curtain Vinyl and Mesh to prove they meet the requirements of Greenguard Children & Schools
6. Samples of fabric [for selection by Architect].
7. Manufacturer's installation and maintenance instructions.

1.3 QUALITY ASSURANCE

- A. Source limitation: All components including curtain, suspension system, electric winches, and controls for divider shall be products of a single manufacturer.
- B. All welding to be performed by personnel having passed Welder Qualification testing in accordance with American Welding Society (AWS) code D1.1 or higher. Manufacturer to provide certification and test results upon request

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver divider until building is enclosed and other construction within gymnasium is substantially complete.

PARTS 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Draper, Inc., 411 South Pearl Street, Spiceland, Indiana 47385-0425; 765-987-7999 or equivalent.

2.2 GYMNASIUM DIVIDER

Refer to manufacture recommendations for installation and control unites.

ROLL-UP GYM DIVIDER,

- A. Type: Electrically operated, roll-up gymnasium divider including motor, belts, controls, clamps for attachment to building structure, threaded rod supports, and other components required for complete functional installation; Roll-Up Gym Divider
- B. Operation: Curtain rolled up and down by belts wound onto overhead rotating drive pipe operated by electrical motor.
- C. Configuration: Rectangular shape with straight bottom and extending across room as indicated on Drawings.
 - 1. Maximum dimension of stored divider: [2 feet] [610 mm] from bottom of structural support to bottom of rolled curtain.
 - 2. Minimum required clearance between vertical curtain edges and adjacent fixed objects: [6 inches] [152 mm].

3. Provide [36 inches] [1 m] space between curtain ends and walls or fixed objects to allow passage space around divider.
- D. Operating mechanism: Drive pipe winch powered with 1 HP, 110VAC, 60-cycle, single-phase, reversible capacitor, C-Face motor with thermal overload protection. Entire winch assembly to be UL listed and shall carry a five-year warranty. Provide with load holding worm gear reduction and integral limit switches to control curtain travel. Drive pipe shall rotate in pipe support assemblies spaced at approximately [9 feet] [2.7 m].
- E. Attachment: Attach to structural support with beam clamps, hanger brackets, and [1/2 inch] [13 mm] diameter threaded rods. Attachment clamps designed to be capable of supporting a minimum of 5,000 lbs each and provided in sufficient number to provide a combined minimum 45:1 attachment point safety factor.
- F. Hoist belts: [5 inches] [127 mm] wide white polyester webbing attached to drive pipe, passing under bottom batten, and terminating at top batten. Space belts at approximately [15 feet] [4.6 m].
- G. Bottom roller: [3-1/2 inches] [89 mm] diameter steel pipe with aluminum strip for attachment of curtain.

Any other divider system is acceptable, but must be submitted for govt. review and approval

2.5 CONTROLS

- A. Provide key lock, 3-position, momentary contact wall control switch to lower, raise, and stop gymnasium divider. Provide with switch box and plastic cover plate.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Coordinate support of gymnasium divider with roof structure to ensure proper distribution of loads and adequacy of attachment points. Ensure that building structure has been designed for loads of specific gymnasium divider to be provided. Provide additional structural framing members as required.
- B. Coordinate configuration, size, and installation of gymnasium divider with height, slope, and type of building structure and

lighting fixtures, mechanical equipment, ductwork, fire-suppression system, bleachers, athletic equipment, and other potential obstructions.

- C. Field verify dimensions prior to fabrication.
- D. Coordinate electrical requirements for motorized operating mechanism to ensure proper power source, conduit, wiring, and boxes for keyed switches. Prior to installation, verify type and location of power supply.
- E. For installations made after wood gymnasium flooring is installed, provide protection and exercise care not damage flooring.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's written instructions and shop drawings.
- B. Install even and level with curtain hanging [2 inches] [50 mm] floor in down position.
- C. Install control switch such that operator has view of complete gymnasium divider during lowering and raising.
- D. Adjust limit switches of electric winch to ensure accurate position in both stored and lowered positions.

3.3 TESTING AND DEMONSTRATION

- A. Operate divider curtains to ensure proper lifting and lowering. Adjust as required to ensure smooth operation and accurate positioning.
- B. Demonstrate to Owner's designated representatives complete operation and required maintenance.

END OF SECTION