

**Gymnasium Electrafold Divider Curtain:**

**PART 1 – GENERAL**

**1. SECTION INCLUDES**

1. Gymnasium Electrafold Divider Curtain

**2. RELATED SECTIONS**

1. Division I – General Requirements, is part of this section and shall apply as if repeated here.
2. Unit Masonry Section
3. Structural Steel Framing section
4. Electrical – Division 16

**3. CODES & BYLAWS**

1. Comply with all national and local building Bylaws and Regulations, and all fire marshal requirements applicable to this section. A label confirming the firebreak homologation tests shall be fixed permanently to the curtain.

**4. PROTECTION**

1. Protect the work of this section and that of the other trades from damage due to these operations. The contractor shall make good any such damage at his own expense and to the approval of the consultant.

**5. SUBMITTALS**

1. Shop Drawings
  1. A complete set of shop drawings shall be submitted for approval prior to fabrication indicating construction and installation details.
2. Colour Samples
  1. Colour samples shall be submitted with the drawings for selection by the Architect.

**6. WORK BY OTHERS**

1. Electric conduits, wiring, disconnect and boxes to connect to power supply and key switches at hand height. Permanent connections from disconnect to control box.

7. WARRANTY

1. Gymnasium Divider Curtain shall be warranted free of defects in material and workmanship for a period of five (5) years.
2. Installation shall be guaranteed for a period of one (1) year against all defects of material and workmanship.

**PART 2 - PRODUCTS**

1. GYM DIVIDER CURTAIN

1. Supply and install one electrically operated vertical folding divider curtain as manufactured by QUED or an approved equal to be complete in all respects with operating motor and controls.
2. Other suppliers or manufacturers wishing bid products other than product specified herein shall submit to the Architect 7 days prior to the bidding a list of 3 past installations similar to the proposal, complete catalogue data along with deviations from the product specified. The manufacturer guarantees the proposed substitute product to comply with the product specified and as detailed on the drawings unless the deviations are so noted in the submittal for approval.

2. MATERIAL AND FABRICATION

1. Curtain shall be formed of one (1) panel of horizontal strips overlap welded 32 mm and oversewn at reachable height. Panel is to be ( ) of correct size to cover the entire opening except if designated otherwise.
2. Curtain to have top and bottom pocket to accommodate 38 mm (1 ½") support pipe and bottom ballast pipe. There are to be #4 or larger spur grommets on 3048 mm (10ft.) centres spaced not greater than 600 mm (24") apart to allow routing of lifting cables.

3. DESIGN CRITERIA

1. The Vinyl shall have the following characteristics:

<u>Lower Portion</u>	<u>Upper Portion</u>
Weight	Same as lower portion
Grab Tensile	Weight
Tear Strength	Flexmesh 5 mm apertures
Adhesion	Sports Net 32 mm apertures
Finish	<i>Colour to be selected by Architect</i>

#### 4. RAISING AND LOWERING MECHANISM

1. The centrally located motor drive unit (1 HP-220V-1 phase) or (2 HP-208V-3 phase) shall be equipped with magnetic contactors and overload that can stop, start and reverse from any position, and electric brake and travel limit switches.
2. The drive shafts (2) are connected to the direct drive reduction box via flexible couplings. Drive shafts shall measure 44.5 mm (1 3/4") equipped with 101 mm (4") wide grooved drums mounted directly over the pull up lines. Each drum is 30 times the cable diameter and will have not less than 3 empty turns in the up position. Not acceptable is a single drive shaft, belt drive or a chain drive that does not have electric monitoring.
3. The drive shafts shall run in captive bearings on 3048 mm (10ft.) centres along the entire length of the curtain.
4. Operating control shall be spring loaded type key switch flush mounted.
5. Safety brakes direct drive, reel to reel is the safest most preferred safety mechanism. Hydraulic emergency governing device is acceptable if it has an electric monitoring device.
6. All exposed hardware is to be zinc plated or painted to colour match as required by the Architect.

### PART 3 - EXECUTION

#### 1. EXAMINATION AND MEASUREMENT

1. When the job is sufficiently advanced to permit the installation of the gymnasium divider curtain, visit the site and check the actual conditions where the partition is to be installed, to ascertain whether or not the preparation work by the preceding trades is acceptable.
2. Check and record all dimensions that affect the manufacture and installation of the units. Incorporate these dimensions into the Shop Drawings.
3. Delivery to the job site shall be co-ordinated by Contractor. Proper storage of the curtain before installation and continued protection during and after installation shall be the responsibility of the Contractor.

#### 2. INSTALLATION

1. Install gymnasium divider curtain straight and level and adjust movable parts for smooth operation.
2. Clean soiled surfaces with cleaners compatible with finished surfaces.
3. A local QUED factory trained installer shall carry out this installation.
4. Electrical Contractor will provide electrical connections and power.



### 3. OPERATION

1. The gymnasium divider curtain shall be capable of being stacked at the top of the opening between joists or under joist as required.
2. A single person shall easily operate the gymnasium curtain.