

Gymnasium & Health Equipment Ltd.

GC-1

Centre Roll Gymnasium Divider Curtain

BID SPECIFICATIONS

PART 1 - GENERAL

1. SECTION INCLUDES
 1. Gymnasium Centre Roll 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 firemarshal 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 **roll up** divider curtain as manufactured by QUED and distributed by Gymnasium & Health Equipment in Canada; protected by patents) to be complete in all respects with operating motor and controls.

2. Acceptable alternative suppliers are ().
3. Other suppliers or manufacturers wishing bid products other than 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 FABRICATATION

1. Curtain shall consist of two (2) panels separated at mid height by a 76.2 mm (3") diameter exposed continuous anodized aluminum extrusion. Panels are horizontally welded with 32 mm (1 1/4") overlapped joints that are double sewn on the lower portion. Top and bottom panels are independent from one another and can be of different materials as required.
2. Curtain to have top and bottom pocket to accommodate 38 mm (1 1/2") support pipe and 32 mm (1 1/4") bottom ballast pipe.

3. DESIGN CRITERIA

1. The Vinyl shall be continuous the entire length (width) of the curtain have the following characteristics:

Lower Portion

Vinyl

Weight 0.85kg/sq.m (25oz/sq.yd)

Embossed both sides

Finish *Colour to be selected by Architect*

Upper Portion

Flexmesh

0.24kg/sq.m (7oz/sq.yd)

5mm(1/4") apertures

Lower panel to extend wall to wall less the manufacturers recommended clearances.

4. RAISING AND LOWERING MECHANISM

1. The tubular motor(s) mounted in the end of the mid height aluminum extrusion is 1/2 hp, 110 V, 1-phase thermally protected complete with planetary reduction, electric disc brake, and travelling limit switches. The motor torque is transmitted to a travelhg car mounted on the wall at end(s) of curtain. Torque can also be transmitted to a ridged arm and belt mounted to overhead. Type of reactor is decided by curtain contractor and clearly shown
2. A safety brake(s) is attached directly to the torque mechanism (arm or car system).
3. Operating control shall be spring loaded type key switch flush mounted: provide two key activated switches, wired in series; locate switches where indicated by Consultant. Provide up, down, and stop controls.

4. 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 effect 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 GYM & HEALTH factory trained installer(s) 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.

Alternative Design Specifications of Top Portion of Curtains

The following materials may be substituted:

Flexmesh: The Lower 3048 mm (10 ft.) of curtain shall be .61 kg./sq.m. (18 oz./sq. yd.) or .85 kg./sq. m. (25 oz./sq. yd.) vinyl. The upper portion is vinyl coated polyester mesh weighing .24 kg./sq. m. (7 oz./sq. yd.) and shall have a colour to match the base colour of the curtain. Mesh shall be treated for fire resistance and UV degradation.

NOTE: Not suitable for dusty environments.

Textiles Properties	.61 kg./sq.m. (18 oz./sq.yd.)	.85 kg./sq.m. (25 oz./sq.yd.)
Base Fabric	10 X 10 1000 denier	18 X 18 1000 denier
Tensile Strength (tongue) Warp Fill	.98kN (220 lbs.) .85kN (190 lbs.)	1.83kN (411 lbs.) 1.98kN (445 lbs.)
Tear Strength (tongue) Warp Fill	.27kN (60 lbs.) .40kN (90 lbs.)	.45kN (102 lbs.) .59kN (133 lbs.)
Flame Resistance Small scale ULCS109 NFPA701	PASS PASS	PASS PASS
Large Scale & Folded Test Flame Spread Fuel Contributed	10 0	30 0
Smoke developed E84 S102.2	525	215

