**Part 1 – General**

**1. General description**

1. Supply and install operable partitions. Provide all labor, materials, tools equipment, and services to operate walls in accordance with provisions of contract documents.
2. Submit a complete set of shop drawings showing details of construction and installation before the start of the job. Drawings must be submitted within 60 days of receipt of the signed contract.

**2. Quality insurance**

1. Fire hazard classification: ASTM E84.
2. Sound transmission classification: ASTM E90.
3. Noise insulation classification: ASTM E336, ASTM E413.

**3. Product delivery, storage and handling**

1. Proper storage of partitions before installation and continued protection during and after installation will be the responsibility of the General Contractor.

4. **Related work by others**

1. Paint or otherwise finishing all trim and other materials adjoining and jamb of operable partitions.
2. All headers, blockings, support structures, jambs, track enclosures, surrounding insulation, and sound baffles as required in quality assurance
3. Pre-punching of support structure in accordance with approved shop drawings.
4. Preparation of opening will be by General Contractor. Any deviation of site conditions contrary to approved shop drawings must be called to the attention of the architect
5. Electrical and low voltage connections, conduits wirings and breakers.

**5. Warranty**

1. The folding partition shall be guaranteed for a period of no less than two (2) year against defects in materials and workmanship. This warranty shall be effective upon the date of signature of the certificate relative to the substantial completion of work.

**6. Ecological requirements**

1. The substrate is made of either recycled or synthetic gypsum or wood fiber particle board.
2. Recycled steel content must be at least 85%
3. The finish must be applied with VOC exempt glue.
4. The acoustic insulation must be fireproof and made of mineral wool derived from natural sources.

**PART 2 - PRODUCTS**

1. **Materials**
2. Motorized continuously hinged panels **SERIES** **5900** as manufactured by Corflex**.**
3. Panels will be nominally 92mm (3 5/8") thick in manufacturer's standard widths. Panel faces must be removable and replaceable on site. Channels made of 1.3mm (18 gauge) steel will be installed horizontally inside every panel and spaced at 610mm to 762mm (24" to 36") c/c. Channel dimensions will be 51mm X 51mm (2" X 2") and will insure a higher impact and torsional capacity. Panel faces must be removable and replaceable on site.
4. Frames shall fully enclose all edges of the surface material, in order to provide protection upon handling and stacking of the operable partition. The panel frames will be made of a minimum of 1.6mm (16 gauge) steel with a power coated finish

**Select a colour:**

Beige

Grey

Black

White

Trim less panels not providing finish and edge protection are not acceptable. All trims and seals shall match the color of the panel framing.

1. Vertical sound seals between panels will incorporate an alignment mounding made of aluminum. This moulding will be installed on the edge of each panels in order to ensure a good vertical sound seal and proper alignment when setting up the partition.
2. Top & bottom seals are made of a vinyl lining with a minimum of four (4) continuous contact points.
3. Hinges shall be of steel and project no more than ¼” (6mm) beyond panel faces. Panels to have a minimum of three hinges.

* **Select inset pass door:**

Inset pass door: Dimensions of inset pass door shall be 914 mm (3’0’’) by 2032 mm (6’8’’) high. They should be of identical construction and offer the same acoustical performance than the panels. Hinges should project no more than 6mm (1/4") beyond panel faces. In order to facilitate access to rolling material, no threshold shall be allowed.

**Choose for single inset pass door:**

The recessed handle will be a turn to open type.

The recessed handle will be a push and pull type and will meet requirements for people with disabilities.

**Select one option**

A two-sided door lock.

A recessed door closure.

Window with 38mm thermo tempered glass. (152mm x 508mm)

Each pass door must have on one side a photo luminescent international exit sign 385mm (15 1/4’’) X 235mm (9 1/4’’) surface mounted at the top of the inset pass door panel.

**Select if required:**

* A type III triple leaf pocket door

The pocket door shall have the same finish as the operable partition. Hinges shall not project more than 6mm (1/4") from the door frame. The door will operate with a turn-type handle. A spring-loaded mechanism will activate a 10mm (3/8'') diameter steel rod at the top and at the bottom of the door. A plate anchored to the ground receives the lower stem. As a safety precaution, switches to be mounted on the pocket doors will prevent the activation of the partition if pocket doors are closed.

1. **Suspension system**
2. Track shall be of clear anodized architectural grade extruded tempered aluminum alloy 6063-T6. Track shall be connected to the structural support by min. 10mm (3/8”) threaded steel hanger rods. Guide pins ensure perfect alignment of track joints. Track design shall provide precise alignment at the trolley running surfaces and provide integral support for adjoining ceiling, soffit or plenum sound barrier. A section of track should be removable in order to make it possible for a panel to be removed from the track for later maintenance. Guide rails and or track sweep seals shall not be required.
3. Each panel shall be supported by one 4-wheeled carrier in the track and one internal 4-wheeled carrier in the panel header. Wheels to be of hardened steel ball bearings encased with molded polymer tires. A report showing that a reliability test covering a distance of 160 kilometers was completed and must be available on request.
4. Factory assembled power unit shall be UL listed and include motor, torque limited and brake, one key control station wired in series with two activation push buttons, emergency release, and all necessary equipment for electric operation. The drive unit shall include a variable frequency system featuring a slow start and show stop operation in order to ended life span and minimize maintenance cost. Roller chain drive shall attach to carrier of lead panel.
5. **Panel Finish:**

**Choose:**

Factory applied reinforced vinyl fabric with woven backing weighting not less than 465 g/m (15 oz/ly). Colour shall be selected from manufacturer’s standard colour selector.

Standard fabrics (colour shall be selected from manufacturer’s standard colour selector). The fabric shall have an acrylic backing and a stain resistant coating.

Factory applied vertical ribbed acoustical carpet weighing not less than 744g/m (24 oz/ly). (Colour shall be selected from manufacture’s standard colour selector).

Factory applied high pressure laminate. (Colour shall be selected from manufacture’s standard colour selector).

Factory applied full height steel white board that can be used as a working surface.

Factory applied full-height porcelain (2 layers of glazed enamel applied to a 0.4mm thick sheet of steel and cooked at very high temperature) that can be used as a work surface.

Factory applied wood veneer. The wood finishing will be done by others.

Fabric covered 12mm (1/2’’) acoustical treatment with a 0.60 NRC, factory applied (for complete specifications, refer to series 5800 ‘‘Performance Plus”).

Customer supplied: (specify - Subject to manufacturer’s approval) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Other: Specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**X Accessories and options:**

**Select an option:**

Tackboard 4’ x 4’

Whiteboard for dry eraser marker and projection 4’ x 4’

Porcelain board for dry eraser marker 4’ x 4’

Chalkboard 4’ x 4’

Window with tempered glass (Consult manufacturer for sizes and thicknesses)

A recessed chalk/marker rail matching the panel trims must be installed at the bottom of each work surfaces.

A recessed chalk /marker box matching the panel trims must be installed on one side of the partition.

1. **Operation**
2. For increased safety, operable partitions are equipped with one key control station wired in series with two activation push buttons, located at each end of the partition ensuring supervised operation of the partition system in order to prevent injuries.
3. Motor drive shall automatically seal the partition in the opening.
4. Panels are retracted and stored by activating the key switch and two push button controls.

**2.5 ACOUTICAL PERFORMANCE**

1. Acoustical Performance

Supply a copy of an acoustical test report certifying that the partition was tested by an independent accredited laboratory. The partition tested must be fully functional, sized at 4267mm X 2743mm (14'0" X 9'0") and meet ASTM-E90 standard. The test results must be similar to or exceed the performance specified. The acoustical test report must show the weight and the panel construction as well as the acoustical seals tested.

**SOUND TRANSMISSION CLASS (STC)**

43 STC

47 STC

50 STC

Panels shall weight between 30 and 49 kg/m² (6,1 and 9,5 lbs/pi²) according to the STC.

**Part 3 – Execution**

1. Installation is to be completed by an authorized factory-trained installer.

X If concrete anchoring, remove 1.4.3

Concrete anchoring suspension and bracing must be done by the authorized factory-trained installer. Concrete anchors must meet seismic requirements.