**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. Complete shop drawings are to be provided prior to fabrication indicating construction and installation details.
2. **Quality assurance**
	* + 1. Fire hazard classification: ASTM E84.
			2. Sound transmission classification: ASTM E90.
			3. Sound 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 trims and other materials adjoining head 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. **Warranty**
	* 1. The folding partition shall be guaranteed for a period of no less than two (2) years, and the track and trolley system for a period of no less than five (5) years against defects in materials and workmanship. This warranty covering material and labor shall be effective upon the date of signature of the certificate relative to the substantial completion of work.
6. **Ecological requirements**
7. The substrate is made gypsum or wood fiber particle board.
8. Recycled steel content must be at least 85%
9. The finish must be anchored.
10. The acoustic insulation in the panel must be fireproof and made of mineral wool derived from natural sources.

**Part 2 – PRODUCTS**

1. **Materials**
2. To be **Series 5800** as manufactured by Corflex.
3. Panels will be nominally 114mm (4 1/2") thick in manufacturer's standard widths. 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. The sound reverberation paneling must have a fiberglass underlay with a minimum density of 112kg / m3 (7lb/ft3) and shall be covered with a fabric finish selected by the architect. This paneling must be anchored in place with PVC rounded-edge moulding all around its perimeter. This reinforcement moulding is unseen, as it is tucked behind the covering fabric around all edges, on both sides of the partition’s panels. These moulding are designed to prevent the warping and compression of the under lying fiberglass panel. The fabric facing of each panel is devoid of apparent stitching or joints and composed of one unique piece. The fabric covering of these fiberglass panels must be easily replaceable and removable on site.
5. Frames shall fully enclose all edges of the surface material, in order to provide protection upon handling and stacking of the operable partition. The panels frames will be made of a minimum of 1.6mm (16 gauge) steel with a powder 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 moulding made of aluminum. This moulding will be installed on the edge of each panel in order to ensure a good vertical sound seal and proper alignment when setting up the partition.
2. Horizontal seals must not exceed the panel width, to prevent damage while handling. Retractable bottom seals are made from formed steel, incorporating 6mm (1/4") vinyl strips for proper acoustical seal upon activating.

**Select options:**

[ ]  Top seals shall be retractable and must be made from formed steel; incorporating 6 mm (1/4’’) vinyl strips for proper acoustical seal upon activating. They should be activating simultaneously with the bottom seals.

[ ]  Top seals shall be fixed continuous contact dual 4 fingers vinyl.

.6 **Select 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 as 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 (ADA compliant). The bottom seal operator located inside the Inset pass door legs will provide downward force to maintain stability during door operation.

**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 an option**

[ ]  A two-sided door lock.

[ ]  A narrow style surface mounted panic bar (recommended with the automatic door closure).

[ ]  A recessed door closure.

[ ]  Window with 38mm thermo tempered glass. (305mm 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 double inset pass door:**

Double Inset pass door must have two leaves of 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. The bottom seal operator located inside the Inset pass door legs will provide downward force to maintain stability during door operation. The push and pull type recessed handle located on the active leaf will meet requirements for people with disabilities (ADA compliant).

**Options for double inset pass door:**

[ ]  A recessed door closure on the active panel.

[ ]  A narrow style surface mounted panic bar on the active panel (recommended with the automatic door closure)

[ ]  Window with 38mm thermo tempered glass. (305mm x 508mm)

[ ]  Each active leaf or the double 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 Pocket door** Type I: Single 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.

1. **Suspension**
	* + 1. Suspension system shall consist of clear anodized thermally treated architectural grade extruded aluminum track (painted steel track not acceptable), connected to the structural support by pairs of threaded steel rods. Guide pins ensure perfect alignment of track joints. Friction disc puck type carrier and track systems are not allowed. Track design shall be clear anodized aluminium, provide precise alignment at the trolley running surfaces and provide integral support for adjoining ceiling, soffit, or plenum sound barrier. L or T intersections shall be factory assembled and welded. A section of track will be removable in order to make it possible for a panel to be removed from the track for later maintenance.
			2. Each panel shall be supported by two wheeled counter-rotating horizontal carriers. Wheels to be of precision ground steel ball bearings with heat treated and hardened races encased with molded polymer tires. A report showing that a reliability test covering a distance of 160 Kilometers (100 miles) was completed and must be available on request.
2. **Panel Finish:**
3. **Select:**

[ ]  Fabric covered 12mm (1/2’’) acoustical treatment with a 0.60 NRC on one side of the operable partition with fabric (without acoustical treatment) on other side, factory applied.

[ ]  Fabric covered 12mm (1/2’’) acoustical treatment with a 0.60 NRC on both sides of the operable partition, factory applied.

[ ]  Fabric covered 25mm (1’’) acoustical treatment with a 0.85 NRC on one side of the operable partition with fabric (without acoustical treatment) on other side, factory applied.

[ ]  Fabric covered 25mm (1’’) acoustical treatment with a 0.85 NRC on both sides of the operable partition, factory applied.

[ ]  Fabric in standard range.

[ ]  Fabric supplied by client (subject to manufacturer’s approval).

**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’

[ ]  Recessed chair rail (consult manufacturer for available finishes)

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

1. **Operation**

.1 Partitions shall be top supported, manually operated individual panels. Friction disc/puck type carrier and track systems are not allowed. Bottom horizontal seals will be operated by a removable handle located approximately 1066 mm (42") from the floor at panel edge. Operation of the seals requires no more than 180 degree turn of the handle. Horizontal bottom seals to provide 51mm (2") nominal operating clearance in order to make manipulation of the panels easier and to accommodate a deflection of the support beam or out of level floor. A stabilizing pressure shall be exerted when lowering seals. Automatic or foot pedal type activation of seals is not acceptable.

.2 Select an option for operable partition closure:

**Select an option:**

[ ]  An expandable closure panel will ensure the final acoustical seal. It will have to be the same color as the frames. A removable lever accessible from both sides of the partition will activate it. It shall compensate for out-of-plumb conditions or minor wall irregularities and provide a positive pressure seal to achieve maximum sound control. It will provide a minimum of 250 lbs. (113.4kg) seal force against the adjacent wall or pocket doors for optimal sound control. No permanently fixed, wall-mounted jambs are allowed.

[ ]  A full height hinged closure panel with a recessed handle accessible from both sides, will permit access between adjacent rooms. It will be of the same construction as basic panels but with continuous contact multi-ply vinyl top and bottom seals.

.3 Acoustical integrity of the first panel will be ensured by:

 **Select an option:**

[ ]  Dual bulb seals against the wall

[ ]  Permanently fixed wall jamb

1. **Acoustical performance**
	* 1. Supply a copy of an acoustical test report certifying that an independent accredited laboratory tested the partition. 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 54 STC**

Panels shall weight 61kg/m² (12.6 lbs. /ft²) according to the STC.

**Part 3 – Execution**

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