

**GENERAL SPECIFICATIONS
GLASS OPERABLE PARTITIONS SERIES G-501
OMNIDIRECTIONAL PANELS
SECTION 10 22 26**

PART 1 – GENERAL

1.1 General description

- .1 Supply and install operable glass partitions. Provide all labor, materials, tools, equipment and services for glass operable partitions in accordance with provisions of contract documents.
- .2 Complete shop drawings are to be provided prior to fabrication indicating construction and installation details.

1.2 Quality assurance

- .1 Glass shall be tempered as per ASTM C1048-92 or laminated as per ASTM C1172.
- .2 Sound transmission coefficient: ASTM E90

1.3 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.

1.4 Related work by others

- .1 Paint or otherwise finishing of all trims and other materials adjoining head and jamb of the partitions.
- .2 All headers, blockings, support structures, jambs, track enclosures, surrounding insulation, and sound baffles meeting quality assurance requirements.
- .3 Pre-punching of support structure in accordance with approved shop drawings.
- .4 Preparation of openings will be by General Contractor. Any deviation of site conditions contrary to approved shop drawings must be called to the attention of the architect.

1.5 Warranty

- .1 The operable partitions and installation shall be guaranteed for a period of no less than one (1) year 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.

PART 2 – PRODUCTS

2.1 Materials

- .1 Omnidirectional glass panels, manually operated, **SERIES G-501** as manufactured by Corflex.
 - .1 Panels shall be nominally 52mm (2") thick, full perimeter extruded aluminum frame 54mm (2 1/8") maximum width interlocking construction reinforced by means of concealed steel corner brackets.
 - .2 The glass will be:
Choose:
 - Single tempered glass 6mm (1/4") thick
 - Single tempered glass 12mm (1/2") thick
 - Laminated glass 12mm (1/2") thick (38 STC)
 - Laminated glass 25mm (1") thick
 - .3 The leading vertical edge of each panel shall incorporate a tongue with two vinyl gaskets to nest into the vertical recess in the edge of the adjoining panel creating a positive, interlocking joint that provides panel stability & ease of panel alignment. Horizontal seals must not exceed the panel width to prevent damage while handling. Top and bottom seals shall be continuous contact flexible PVC sweeps. The top sweeps maintain contact with the track and the bottom sweeps maintain contact with the floor or other surface along the path of the movable panels. No floor track will be permitted. If 6 mm glass is used, flexible PVC sweep seals may be replaced by brush sweeps.

2.2 Suspension system

- .1 Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6. Track design shall provide integral support for adjoining ceiling, soffit, or plenum sound barrier. Track shall be connected to the structural support by pairs of 10 mm (3/8") diameter threaded steel hanger rods. L or T intersections shall be factory assembled and welded. Built-in ceiling trim shall be of anodized aluminum finish providing enclosure of plenum sound barrier on both sides of track for

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maximum sound control. 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. Each panel shall be supported by two dual horizontal wheel type trolley assemblies. Only the last or second to last panel will have a visible locking device installed in the bottom rail.

- .2 Each panel shall be supported by two-wheel counter-rotating horizontal carriers. Wheels to be of precision ground steel ball bearing with heat treated and hardened races encased with molded polymer tires. A report showing that a reliability test covering a distance of 160 kilometers was completed must be available on request.

2.3 Finishes

- .1 All aluminum panel components will have:
Choose:
- Clear anodized finish
 - Other color anodized finish
 - Powder coated finish from RAL selector
- .2 All vinyl and PJC trim will be:
Choose:
- Black
 - Grey
 - Beige

2.4 Operation

- .1 The panels must be top supported and manually moved:
Choose partition closure type;
- Hinged closure panel:
Final partition closure to be by a full height hinged closure access panel at one end of the opening that hinges from a fixed two-piece adjustable aluminum wall jamb. The hinged panel shall be fitted with a lever type latch set or lockset. A foot bolt will have to be activated at the bottom of the panel next to the hinged closure panel. In order to facilitate access to rolling material, no threshold shall be allowed (ADA compliant).
 - Intermediate pass door:
The empty space left with the opening of the intermediate pass door will be utilized as room to move both extremities of the partition to a fixed two-piece adjustable aluminum wall jamb. The intermediate pass door must have a maximum width of 914mm (3'0") full height of the partition and have the same construction as the adjacent panels. They must be hinged to a 1219mm (48") wide panel. In order to facilitate access to rolling material, no threshold shall be allowed (ADA compliant). The handle will be an architectural grade lever type latch set with a keylock on one side.
- X **Select if required:**
- Panic bar option:
A panic bar will be installed on the opposite side of the locking mechanism. This panic bar will be full door width and override the keylock function.

2.5 Acoustical performance

- .1 Panels will have an acoustical performance of:
Select:
- 38 STC
 - N/A (If N/A remove 2.5.2)
- .2 Supply a copy of an acoustical test report certifying that the partition was tested with a performance of 38 STC 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.
- .3 The panels shall weigh between 17.1 and 30.3 kg/m² (3.5 and 6.2 lbs/ft²) according to glass thickness.

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PART 3 – EXECUTION AND INSTALLATION

3.1 Installation

- .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.