

GUIDE SPECIFICATIONS FOR SERIES 400 MODEL 410MD (Multi-Directional) OPERABLE WALLS

PART 1 GENERAL

1.1 SCOPE

1.1.1 The requirements of the instructions to Bidders, General Conditions, Supplementary General Conditions and Section apply to all work hereinafter specified.

1.1.2 This section shall include the furnishing of all tools, equipment and labor necessary to complete all operable wall work shown on drawings and/or herein specified.

1.1.3 Manufacturer shall furnish operable walls complete with hardware, jambs and all necessary mechanisms to provide complete operation. The operable walls hereinafter specified shall be installed by qualified factory trained craftsmen skilled in this trade.

1.2 RELATED WORK SPECIFIED ELSEWHERE

1.2.1 Section 03300 Cast-in-Place Concrete

1.2.2 Section 04200 Unit Masonry

1.2.3 Section 05100 Structural Metal Framing

1.2.4 Section 06100 Rough Carpentry

1.2.5 Section 06200 Finish Carpentry

1.2.6 Section 07920 Sealant and Caulking

1.2.7 Section 09250 Gypsum Board

1.2.8 Section 09300 Finish Ceilings

1.2.9 Section 09500 Acoustical Treatment

1.2.10 Section 09650 Finish Flooring

1.2.11 Section 09680 Carpet

1.2.12 Section 09900 Painting

1.2.13 Section 09950 Wall Coverings

1.3 REFERENCES

1.3.1 American Society for Testing and Materials (ASTM) E90-90 Laboratory Measurement of Airborne-Sound Transmission Loss of Building Partitions.

1.3.2 American Society for Testing and Materials (ASTM) E557-93 Recommended Practice for the application and installation of operable walls.

1.4 SUBMITTALS

1.4.1 One sample of each color material to be used on the project.

1.4.2 Copies of properly identified manufacturer's literature with proposed catalog numbers identified. Complete shop drawings showing elevations of units, locations in the buildings, conditions at openings with wall thickness and materials, typical and special details of construction, location and installation requirements for hardware and operators, shape and thickness of materials, joints and connections and material finishes.

1.5 PRODUCT DELIVERY, STORAGE AND HANDLING

1.5.1 Deliver materials to job site and protect unsealed materials from abrasions.

1.5.2 Identify each container with material name and identification number.

1.5.3 Store materials under cover, protected from weather and construction activities. Safe storage of materials prior to installation is to be the responsibility of the general contractor.

PART 2 PRODUCTS

2.1 OPERABLE WALLS shall be manufactured by All Noise Control, Inc., WPB, Florida, U.S.A. and installed

by an authorized representative of the manufacturer in openings prepared by others to Moduflex® Series 400 requirements.

2.2 OPERATION shall consist of a series of manually operated flat panels, top supported. Top and bottom seals shall be as specified in paragraph 2.9.

2.3 PANEL CONFIGURATION shall be as follows for areas indicated on the plans:

2.3.1 MODEL 410 shall be comprised of a series of multi-directional individual panels, side or remote stacking (located in room(s)).

2.3.2 Final closure shall be effected by (specify: Jamb-Hinged single or bi-fold Panels; Expandable Panels; or Jamb-Hinged Communicating Panels).

2.4 PANELS shall be 3" (76) thick and nominally 49" (1245) wide. Panel faces shall be laminated to metal frames. Panels shall have appropriate internal insulation to achieve specified STC. The tops of the panels shall be reinforced to support suspension components.

The vertical edges of the panels shall not require trim thus minimizing the appearance of the vertical joining of the Sheer-Look® panels.

2.5 PANELS shall be factory surfaced with one of the following (colors to be selected from manufacturer's standards):

2.5.1 Manufacturer's standard vinyl, Class A flame spread (specify Type I; or Type II).

2.5.2 Manufacturer's standard Ribtex® Basic, vertical-rib wall carpeting, Class A.

2.5.3 Manufacturer's Woventex® panel fabric, Class A, acrylic latex backed.

2.5.4 Maharam Tekwall panel fabric, Class A, acrylic backed.

2.5.5 Genuine unfinished wood veneer shall be (specify: White Ash, Red Oak, Natural Birch, American Walnut or other species as specified).

2.5.6 High pressure laminate, vertical grade.

2.5.7 Customer's Own Material to be factory applied (subject to approval by the manufacturer for suitability to standard manufacturing processes and equipment).

2.5.8 Unsurfaced panel skins for field finishing by others.

2.6 HANGING WEIGHT of panels shall not exceed 8 lbs./ft² (39 kg/m²).

2.7 ACOUSTICAL RATING as tested by an independent acoustical laboratory in accordance with ASTM E90-81 test procedures in a full scale 14'0" (4267) by 9'3" (2819) opening shall be (specify: STC 47, STC 44, STC 42 or STC 38).

2.8 ECHOSORB™ ACOUSTICAL WALL PANELS shall be provided where shown on the plans. Acoustical panels shall have obtained an NRC .75 rating per ASTM 423. Panels shall be provided with quick mounting and dis-mounting hardware requiring no tools. Acoustical transparent fabric to be selected from manufacturer's standards.

2.9 Vertical seals between panels shall consist of deep nesting, universal interlocking ESP bronze steel astragals incorporating continuous, vinyl acoustical seals. Vertical astragal vinyl seals shall be installed on the outboard edges of the panel skins in a double row with an acoustical labyrinth. 2.9.2 Horizontal TOP seals shall be (specify: continuous contact extruded vinyl shapes; or clearance type, automatically

actuated; or clearance type, manually actuated). 2.9.3 Horizontal BOTTOM seals shall be 1 1/2" (38) clearance-type manually actuated at waist height on panel edges). Downward pressure of all clearance-type seal mechanisms shall assure an acoustical seal and resist panel movement.

2.10 SUSPENSION SYSTEM shall be heavy duty aluminum multi-directional (specify: type 1, or type 9) track. Track shall be supported by (specify: adjustable steel hanger rods; or direct mount). Each panel shall be supported by two carrier assemblies of (specify: glide discs, or dual horizontal rotating ball bearing wheels). Carrier assemblies shall be attached to the panels with adjustable steel pendant bolts with locks to prevent panel misalignment.

2.11 PANELS that are hinged together shall be hinged with manufacturer's standard butt-type hinges.

2.12 POCKET DOORS where indicated on the plans shall be manufactured of the same materials as the panels. Hinges shall be standard butt-type.

PART 3 EXECUTION

3.1 EXECUTION

Before installation is commenced, inspect the opening. Surfaces shall be clean and dry. Concrete surfaces shall be free of excess mortar and lumps. Wood surfaces shall be well nailed and/or glued, nailed heads driven flush, and wood free of voids. Metal surfaces shall be free of grease, oil, dirt, rust, corrosion and welding slag, without sharp edges.

3.3.1 Verify that rough opening is correct and has been prepared by others to conform to ASTM E557-93 Standard.

3.2 PREPARATION

Open containers and verify that all required parts are available and undamaged before disposing of containers. Arrange materials in proper sequence to conform to manufacturer's information and installation instructions.

3.3 INSTALLATION

3.3.1 Installer shall conform to the manufacturer's installation instruction sheets.

3.3.2 Apply perimeter caulking and trim as required.

3.3.3 Adjust locking hardware for accurate fit.

3.4 CLEANING

3.4.1 Clean all wood, vinyl, wall carpet, panel fabric and plastic laminate surfaces to remove soil without using abrasive cleaners or solutions containing corrosive solvents.

3.4.2 Remove debris from worksite.

3.5 DEMONSTRATION

3.5.1 After all adjustments, lubrications and clean up, the installer shall demonstrate and instruct the proper operation, function and maintenance procedures for the walls.

3.5.2 Deliver all keys, operation and maintenance manuals to the owner.