

Environmental Wall Systems, LTD.
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IrisWall
with feature strips,
continuous ceiling track,
floor track & base

MOVEABLE PARTITION SPECIFICATIONS

PART 1: GENERAL

1.01 WORK INCLUDED

- A. Furnish and install moveable partitions described in this specification and as shown on project drawings.
- B. Partition components include but are not limited to:
 - 1. Wall panels complete with ceiling and base trims.
 - 2. Door frames, complete with mortising for hinges and hardware as specified in section _____.
 - 3. Glass Panels, complete with glass, types as indicated on drawings and specified in section _____.
 - 4. Electrical outlets and switches, where indicated on drawings.
 - 5. Doors
 - 6. Hardware

1.02 RELATED WORK

- A. Section _____ - Hardware
- B. Section _____ - Electrical
- C. Section _____ - Glass and Glazing
- D. Section _____ - Wood Doors

1.03 QUALITY ASSURANCE

- A. Installers shall be approved by the manufacturer.
- B. When approved installers are not available, installation should be by manufacturer's trained personnel.
- C. Supplier shall conduct a full day training program, as required, for the User's maintenance personnel and shall furnish whatever special tools are required for the relocation of the partition.
- D. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication, where possible, to ensure proper fitting of the work.

1.04 REFERENCES

- A. ASTM: American Society for Testing and Materials.
 - 1. E90-85 "Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions."
 - 2. E84-86 "Standard Method of Test for Surface Characteristics of Building Materials."

1.05 SUBMITTALS

- A. The basis for all bids in this section shall be IrisWall, as designed and manufactured by Environmental Wall Systems LTD, Solon, Ohio. Other wall systems that meet this specification may be bid providing a complete submission of all applicable product details and certified independent laboratory tests. Reports must be submitted and approved by the architect at least 21 working days prior to bid. This Submission is to clearly outline areas of compliance and areas of failure to comply with function and performance specified. Indication of approval will be by addendum issued by the architect.
 - B. Submit detailed shop drawings, showing all elements of the system, including fabrication and installation details, fastenings, accessories, types of material and finishes.
 - C. Submit certified test data, from an independent testing laboratory, stating that the wall, when tested in accordance with ASTM E413-87, will yield an STC rating of 39.
 - D. Submit certified test data, from an independent testing laboratory, stating that the wall panels, when tested in accordance with ASTM E84-86, produce a flame spread index of not more than 10.
 - E. Submit certified test data, from an independent testing laboratory, stating that the wall panel, when tested in accordance with ANSI/BIFMA x 5.6-1986, will support a functional load of 3 pounds/inch on each of five shelves suspended from the panel.

1.06 DELIVERY, STORAGE and HANDLING

- A. Deliver prefabricated wall system components containerized or crated to provide protection during transit. Include with bid any necessary storage precautions required for the product being offered.
- B. Inspect wall system components upon delivery for damage. Minor damages may be repaired provided the finished items are equal in all respects to new work and acceptable to the architect. Remove and replace damaged items as described. Manufacturer shall submit recommendations with bid advising repair procedures.
- C. It shall be the responsibility of the manufacturer to properly package all components for storage and define storage program to be provided on site by General Contractor at no charge, to insure product performance.

1.07 WARRANTY

- A. The manufacturer shall provide a warranty on goods sold for a period of two years after delivery.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Environmental Wall Systems LTD, 31100 Solon Road
Solon, Ohio, 44139, U.S.A. Model: IrisWall

2.02 MATERIALS

- A. Panel Face shall be 3/8" recycled gypsum, 95% recycled content Certified by Scientific Certification Systems (SCF), perlite, and newsprint substrate, vinyl covered unless specified otherwise.
- B. Recycled Fabric Wall Covering (specify).

2.03 PARTITION REQUIREMENTS

- A. The partition shall be a vertical delineation reveal design between panels and be 2-1/4" thick. Floor to ceiling height as noted on drawings.
- B. Design must permit extension in two, three or four way conditions.
- C. The system shall provide a vertical adjustment (+/-1-3/4") in overall height to accommodate floor and ceiling irregularities.
- D. Panel units shall be no more than 4'0" nominal unit width. Panel Intersection shall have a dual-durometer feature strip connecting the panels. Flush to panel feature strip (specify).
- E. Each panel unit shall be constructed in such a manner as to contain an integral screw leveling mechanism that allows panel to be set at desired elevation without the use of multiples of shim stock. Each panel shall have a concealed wire way at each edge, without compromising sound reduction.
- F. The system shall have the ability to be installed on top of finished flooring, raised flooring or carpeted flooring without the use of floor fasteners.
- G. The system shall have the ability to be installed to the underside of most suspended ceilings without the use of destructive fasteners and have a one-piece continuous ceiling channel.

2.04 PARTITION COMPONENTS

- A. Solid wall panel units shall have 3/8" recycled underlayment attached to a recycled aluminum frame enclosing a sound absorbing insulation material. Internal vertical panel face reinforcement shall be recycled aluminum to retain panel rigidity and allow in field panel modification.
- B. Each wall panel shall have an integral screw leveling capability that eliminates shimming. The leveler mechanism shall be concealed behind a vinyl base.
- C. Each wall panel shall weigh no more than 4-3/4 pounds per square foot.

- D. Ceiling channel shall be one-piece continuous extruded aluminum with continuous resilient light and sound seal and shall be recessed (or overlapping) to the panel face.
- E. Bases shall be 4" or 5" high extruded PVC. Base covers shall be independently removable from each side of panel to facilitate electrical changes. Base covers and floor channel shall be continuous with continuous light and sound seal. Floor channel shall not utilize destructive fasteners when attaching to carpet or tile floors. Base shall be flush to panel face.
- F. Wall panel units shall be joined together by means of a vinyl delineation insert thereby eliminating the need for additional loose clips.
- G. Glazed wall panels shall be constructed with the same integral leveling ability as specified in section 2.04B. Glass and glazing under section _____.
- H. Hinged doorframes shall be formed steel and shall include continuous resilient sound seal at jambs. Frame shall be designed to provide vertical adjustment to compensate for floor and ceiling irregularities without cutting in field. Frames should be mortised and reinforced for hardware as specified in section _____.
- I. Pivot doorframes shall be aluminum and shall include resilient sound seal at jambs. Frames should be mortised and reinforced for hardware as specified in section _____.
- J. End filler partition to fixed walls and columns shall be similar in construction to solid wall panel units and fit into wall channel on the abutting wall. Wall channel containing a continuous light and sound seal shall not utilize destructive fasteners when attaching to fixed walls or columns.
- K. Doors shall be 1-3/4" thick. Wood particleboard core and medium density overlay faces. Doors shall be pre-finished and pre-mortised for hardware specified in section _____.
 - 1. Door finish shall be _____.

2.05 HARDWARE

- A. Hardware shall be furnished by the wall system contractor for their installation. It shall be the responsibility of the wall system contractor to coordinate ordering and provide shipping destination of all hardware items listed by the hardware vendor in separate section for wall systems.
- B. The following hardware is to be furnished and installed by the wall system contractor.
 - 1. Hinges shall be 1-1/2 pair of 4-1/2" x 4-1/2" ball bearing butts, for standard height hinged doors, 2 pair for full height hinged doors.
 - 2. Pivot hinges shall be wall system compatible.
- C. Hardware finish shall be specified in section _____.

2.06 GLASS AND GLAZING

- A. The glass and glazing for wall systems where shown on drawings shall be furnished under section _____.
- B. Where applicable, all glass shall comply with Federal Safety Standard for Architectural Glazing Materials (16 CFR, Part 1201). Unless otherwise noted on architectural drawings, all glazing is to comply with safety standards.
- C. Glass types
 - 1. Clear - (specify)
 - 2. Patterned - (specify)
 - 3. Door glass - (specify)

2.07 LIFE SAFETY

- A. Provide laboratory certification confirming wall panel construction flame spread of 10 or less when tested in accordance with the provisions of ASTM Designation E-84-86, (Standard Method of Test for Surface Burning Characteristics of Building Materials) except for methods of calculating flame spread rates equivalent to that specified in ANS No. 2.5, NFPA No. 225, U.L. No. 723 and UBC No. 42-1 and ASTM E 84-75.

2.08 ACOUSTICAL PERFORMANCE

- A. Wall panels shall have an STC of 39 per ASTM E413-87.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Partition shall be installed without permanent fastenings over finished floor tile, carpeting or raised floor to provide for complete flexibility of future changes without having to patch floor material.
- B. Partition shall be scribed and neatly fitted to existing building conditions all in accordance with details approved on shop drawings.
- C. Installation of partitions shall be under manufacturer's approved, direct supervision to insure wall performance compatibility with design and specification intent.
- D. Provide touch up of all nicks and scratches that may occur to the wall during handling and installation with touch up paint supplied by the manufacturer in matching color and gloss.
- E. Wash down of walls shall not be part of this contract, but be considered normal pre-occupancy cleaning responsibility of owner or occupant.

3.02 CLEAN UP

- A. Upon completion of work, this contractor shall remove all of their cartons, trash, crates, etc. and leave the premises broom clean.

END OF SECTION