MANUFACTURER
RAYDOOR ®
134 West 29th Street, #909
New York, NY 10001
Phone: 212/421-0641
FAX: 646/349-1856

NOTES TO THE SPECIFIER:

Our patented TWINFRAME™ panel design makes Raydoor unique. It is constructed by "sandwiching" or permanently bonding two real wood veneer or laminate frames, each 1" thick, with a pre- engineered MDF substrate) to a 1/4" thick insert, typically acrylic or other resin. This technique adds strength while allowing exposure of the insert layer on all edges of the panel, creating a desirable architectural detail we call the "Ray Edge". The materials used allow for the panel to be light in weight, easy to operate, offering many finish options and adding to an unmatched design sensibility.

System configuration represents our family of dividing solutions, which include Sliding, Stacking, Folding, Pivoting, and Fixed walls and doors. Choosing a system configuration is THE primary design consideration when planning how to use your interior space.

With the many configurations in our RAYDOOR product line, your interior dividing possibilities are endless.

Additional notes to the specifier appear within this document in blue text. Please review and edit selections as appropriate for your individual project.

SECTION 08 32 10

CUSTOM WOOD FRAME WITH ACRYLIC PANEL DOORS

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes:

1. Manually operated telescoping sliding pocket walls.

B. Related Sections

1. Division 06 Sections for wood framing and supports, and all blocking at head and jambs as required

2. Division 09 Sections for wall and ceiling framing at head and jambs

1.2 COORDINATION

A. Coordinate with any supporting materials including but not limited to existing structure, framing, ceilings, other supports and finishes which interface with the RAYDOOR system.

1.3 PREINSTALLATION MEETING

A. Pre-installation Conference: Conduct conference at Project Site. Contractor shall be familiar with the Raydoor system and confirm all door openings and mounting conditions prior to ordering material.

1.4 QUALITY ASSURANCE

A. Manufacturer's Qualifications –Engaged in manufacturing of doors of similar type to those specified with over 20 years successful experience

B. Installer's Qualifications

1. Installer shall have a minimum of 2 years of experience installing Raydoor systems.

2. Installer shall have a minimum of 4 years of similar experience installing interior doors or sliding partitions.

1.5 SUBMITTALS

A. Product Data: Submit manufacturer's product data including description of materials, components, hardware, and finishes.

B. Shop Drawings: Indicate location, size, elevation, details of construction, and factory preparation requirements for each door type on vendor supplied shop drawings.

1.6 WARRANTY

RAYDOOR products are warranted for interior use only.

A. Factory Finished Door Warranty: Provide manufacturer's standard 3-year warranty.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer:

RAYDOOR, Inc., New York, New York, USA

Telephone: (212) 421-0641

Website: www.raydoor.com

Email: info@raydoor.com

B. Product:

Raydoor® Sliding Walls and Doors

NOTES TO THE SPECIFIER:

Raydoor allows for Acrylics, PETG resin or Glass Materials for the central layer of the door. PETG has been tested and meets a number of flame spread and smoke density standards noted below. Acrylic has not been tested and does not meet the same standards.

2.1 PERFORMANCE REQUIREMENTS

A. PETG Resin Materials

1. Non embossed material ¼" thick
2. Meets or exceeds requirements of ASTM D 2843 Smoke Density
3. Meets or exceeds requirements of ASTM D 635 Flame Spread

B. Acrylic Materials

1. Non embossed material ¼" thick

C. Glass material

1. Clear float glass, tempered.

2.2 OPERATION

A. Raydoor Sliding Pocket Wall: series of doors that are mechanically linked to one another, to be manually operated and top supported. Pulling lead door across opening to bring following doors in succession. When fully extended, door stiles should overlap.

2.3 PANEL CONSTRUCTION (select all that apply)

A. All panels to be constructed of MDF substrate frame with central glazing layer of acrylic or PETG. Panels are fully adhered and pneumatically pressed for permanent bond. Panels to show no mechanical fasteners or molding of any kind.

B. Panel to be 2-1/4" thick and made from laminating 3 structural layers together in a high pressure, patented TWINFRAME™ process. The 2 outer layers are made from 1" thick veneer, low-pressure laminate, or vinyl-wrapped MDF, the central insert layer to be made of a 1/4" thick machine-able, semi structural layer of either acrylic, PETG resin, or veneered MDF (as specified by architect). The insert layer and the outer frame layers are to be constructed such that the nominal width will be no more than +/-1/16". Assembly should be such that if translucent materials have been selected for the insert layer, they are to permit light to emanate from the edge of the door.

C. Optional muntins (lattice pattern) to be made of same materials as selected frame and fastened through either side of glazing layer using dowels.

D. Pre-fit and pre-machine doors at factory.

1. Installer to obtain accurate field measurements and verify dimensions before manufacturer proceeds with machining in factory. Panels may not be undercut in the field.

2. Manufacturer to machine doors for hardware requiring cutting of doors. For low-profile option, top of panels to receive two mortises.

3. Comply with accepted hardware schedules, door frame shop drawings and with hardware templates to ensure proper fit of doors and hardware.

2.4 SLIDING HARDWARE

A. Each panel to receive two nylon wheeled carriers with one or both sides containing soft-closing mechanisms, anodized aluminum track, and carrier to door connections that allow for height adjustment. May have at least one doorstop to limit travel that is placed within track and can be set with two set screw. Also, 1 pair of plastic end caps for each row of track.

B. Telescoping hardware system, linking all panels to one another, maintaining spacing between the faces of the panels and allowing user to extend system by pulling just leading door panel. Hardware will allow user to stack panels flush using only the lead door. Guiding mechanism to maintain precise 3" stile overlap for all doors in the system, ensuring uniform appearance in both open and closed positions. Guiding system components machined from steel and pre-drilled with countersunk holes for mounting screws. Components to be surface mounted to the bottom and/face of each panel in the appropriate sequence as determined by final operating configuration (see project drawings).

C. Pocket hardware consists of the following: a continuous aluminum floor-mounted pocket guide that keeps panel aligned within the pocket and tracks the door into the pocket without rubbing or swaying. A pre-drilled panel of primed MDF mounted on-site to the back of the trailing door will conceal the pocket when wall is extended (pocket concealment panel) and a guide rider that tracks the door on the guide and allows for full extension from pocket. Also, an edge-mounted pull to extract door from pocket.

D. Optional hardware: bracket door mounting system that utilizes surface-mounted steel door connector.

NOTES TO THE SPECIFIER:

Raydoor uses natural veneers for all wood veneers. Samples and images are to be considered representative of the color and grain patterns available. Natural variations occur in the density and graining and may result in variations in the appearance in tone or pattern. Exact match is not implied nor guaranteed.

In some cases Custom Veneers may be used. Contact Raydoor for additional information on the use of custom veneers on this product.

2.5 PANEL FINISHES

A. Panel finish: Finish shall be (select one):

1. Low-pressure laminate or vinyl wrapped on face, sides and back of MDF board with 1/8" radius edges and mitered corners without reveals. Standard with NAUF MDF.

2. Wood Veneer on face, sides and back of MDF board, hand sanded, clear coated with pre-catalyzed satin lacquer or stained and then clear-coated or painted.

Frames are butt-joined. Standard with CARB II compliant MDF, available with NAUF MDF.

B. Glazing finish

1. 1/4" acrylic (recyclable post-consumer use, available with 100% *recycled content*).

2. 1/4" PETG (recyclable post-consumer use, available with up to 50% *recycled content).*

3. ¼" thick resin or acrylic provided by others. (subject to review and approval by Raydoor)

4. ¼" thick glass – float glass, tempered.

2.6 SYSTEM CONFIGURATIONS

A. OPTIONAL SYSTEM CONFIGURATION (select at least one):

1. Sliding Pocket Wall, 2 panel (SPW2)

2. Sliding Pocket Wall, 3 panel (SPW3)

3. Sliding Pocket Wall, 4 panel (SPW4)

4. Sliding Pocket Wall, 4 panel symmetrical (SPW4S)

5. Sliding Pocket Wall, 5 panel (SPW5)

7. Sliding Pocket Wall, 6 panel symmetrical (SPW6S)

NOTES TO THE SPECIFIER:

Raydoor offers a variety of standard hardware options for locks, pulls, and other related hardware. Custom hardware options are available. Contact Raydoor directly for additional information.

2.7 OPTIONS

A. Track Hardware

1. Flush bolt, 10"h x 3/4"w x 9/16"d with 13/32" diameter bolt and 1-1/2" throw, brushed metal or satin black finish
2. Dust-proof strikes, spring loaded in brushed metal finish
3. Flush pull, rectangular, 3-7/16" x 1-1/2" in brushed metal or satin black finish
4. Flush pull, oblong, 150mm x 40mm x 10mm in brushed metal or satin black
5. Flush pull, round, 60mm x 10mm in brushed metal or satin black

6. Privacy lock, medium duty, available euro-cylinder thumb/emergency release or euro-cylinder key/thumb turn with 40mm backset. In brushed metal or satin black
7. Privacy lock, medium duty with flush thumb-turn one side, keyed thumb-turn other side. In brushed metal or satin black steel
8. ADA lock, medium duty, with large projecting turn/lever one side, emergency release other side, 40mm backset. In brushed metal.
9. ADA Bar Pull, 16", 13-25/32", or 12" tall, in brushed metal or satin black steel.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Prior to ordering confirm all opening sizes. Coordinate final door sizes with manufacturer based upon confirmed openings.

B. Before installation, verify that frames are proper size and type for door and are installed as required for proper installation of doors.

C. Notification: Notify General Contractor of unsatisfactory conditions in writing with copy to Architect.

D. Acceptance: Beginning of work means acceptance of existing conditions by installer.

3.2 PREPARATION

A. Conditioning: Condition doors to average humidity in installation area prior to hanging. Keep doors in packaging until ready to install.

3.3 DELIVERY, STORAGE AND HANDLING

A. General: Material shall be stored in a clean dry location in original packaging until ready for installation. Once installed doors shall be protected in place until occupancy.

B. Delivery: Do not deliver doors to building until it is entirely enclosed, drywall, plaster and concrete work is completed and dry, humidity in the building is below 60% and temperature is between 45° and 90° Fahrenheit.

C. Storage: Stack doors vertically at an angle of 10 degrees (or less) to the wall, on a level floor surface in a dry, well-ventilated area. Keep doors in packaging while allowing air circulation. Do not stack or lean other objects against doors.

D. Handling: Do not drag doors across one another. Do not drop or rest doors on corners or edges. Doors should be carried sideways and upright (not flat like a tabletop)

E. Protection: Do not subject doors to abnormal heat (above 90°F or below 45°F, dryness, humidity (above 60% or below 20% humidity), or drastic changes in these conditions. Allow sufficient time for doors to acclimate before installation. Keep doors in original packaging until ready to be installed.

3.4 INSTALLATION

A. General: Install doors in accordance with manufacturer's recommendations.

1. Installation: By skilled finish carpenters or factory authorized installers.

2. Installer: Thoroughly familiar with the requirements of the manufacturer's door warranty as currently in effect and assure compliance with all provisions.

B. Hanging:

1. Fit for hardware as scheduled.

2. Hang doors to be free of binding with hardware functioning properly. No greasing of hardware necessary.

3.5 ADJUSTING, CLEANING AND PROTECTION

A. Adjustment: At completion of job, adjust doors and hardware as required and leave in proper operating condition (operating smoothly, easily and quietly throughout operational range).

B. Clean partition surfaces upon completing installation to remove dust and other foreign materials according to manufacturer’s written instructions

C. Protection: Advise General Contractor of proper procedures required to protect installed wood doors from damages or deterioration until acceptance of entire project

END OF SECTION 083210