

SECTION 08351
ACCORDION FOLDING DOORS

PART GENERAL

SECTION INCLUDES

Accordion Folding Doors.
Accordion Folding Vision/Security Doors.
Accordion Folding Utility Doors.
Accordion Folding Room Dividers.
Acoustical Rated Accordion Folding Doors.

RELATED SECTIONS

Section 06100 - Rough Carpentry.
Section 06200 - Finish Carpentry.

REFERENCES

ADA - Americans with Disabilities Act.
ASTM E 336 - Standard Method of Measurement of Airborne Sound Insulation in Buildings.

SYSTEM DESCRIPTION

Performance Requirements: Class 1 fire retardant door panel core material.

SUBMITTALS

Submit under provisions of Section 01300.
Product Data: Manufacturer's descriptive literature for door opening assemblies; include specified and required components.
Shop Drawings: Indicate door and opening sizes, and head and jamb conditions.

Selection Samples: Two sets of manufacturer's standard-size color chips, or color chart, representing manufacturer's full range of available finishes.

Verification Samples: Two samples, minimum size 4 inches square, representing actual color and finish of installed door panel.

Quality Assurance Submittals: Printed installation instructions for door assemblies, including each component.

QUALITY ASSURANCE

Regulatory Requirements: Door opening assemblies ADA compliant for opening load force.

DELIVERY, STORAGE, AND HANDLING

Storage and Protection:

Store products of this section in manufacturer's unopened packaging until installation.

Maintain dry, heated storage area for products of this section until installation.

PART PRODUCTS

MANUFACTURERS

Acceptable Manufacturer: Woodfold-Marco Mfg., Inc.; P.O. Box 346, Forest Grove OR 97116; Voice 503-357-7181, FAX 503-357-7185.

Requests for substitutions will be considered in accordance with provisions of Section 01600.

Substitutions: Not permitted.

ACCORDION FOLDING DOORS

Acceptable Product: Woodfold Series 240 door.

Components:

Track: 1-1/8 inch by 1 inch aluminum, pre-punched for screw fasteners for surface mounting.

Track: 1-1/8 inch by 1 inch aluminum, pre-punched for screw fasteners, with aluminum hat channel for recess mounting.

Track: 1/2 inch by 1-1/8 inch aluminum, I-beam profile, with ceiling clips; capable of being formed to 12-inch radius curve.

Roller assembly: Nylon wheels with Lexan axles for doors 15 feet wide by 8 feet high and smaller, nylon wheels on ball-bearing steel axles for larger door assemblies; rivet-attached to hinge, dual trolley at lead post, single trolley at alternate panels, type for specified track.

Hinge assembly: 18 gage steel, continuous pin, rivet-attached to top and bottom of door panel, with automatic stop at full extension.

Panel core material: 1/4 inch thick medium-density fiberboard (MDF), with rabbeted edge for panel connector.

Panel connector: Continuous non-rigid vinyl, inserted and glued into panel rabbet.

Lead post: Extruded aluminum, 3/4 inch by 2-3/4 inch cross-section.

Intersecting jamb molding: Types for indicated configurations.

Handle: Rigid molded polyvinyl chloride (PVC).

Latching: Magnetic catch.

Latching: Thumbturn one side with deadlatch.

Latching: Thumbturn both sides with springlatch.

Latching: Thumbturn one side, pull with keylock one side, with deadlatch.

Latching: Pull with keylock both sides, with deadlatch.

Finishes:

Panels: Vinyl laminate, _____ pattern.

Panels: Hardwood veneer, _____ species, with sealer and clear lacquer topcoats.

Aluminum surfaces: Manufacturer's standard finish, in color complementing panel finish.

Sizes: Indicated on drawings.

ACCORDION FOLDING VISION DOORS

Acceptable Product: Woodfold Series 440 Visifold door.

Components:

Track: 1-1/8 inch by 1 inch aluminum, pre-punched for screw fasteners for surface mounting.

Track: 1-1/8 inch by 1 inch aluminum, pre-punched for screw fasteners, with aluminum hat channel for recess mounting.

Track: 1/2 inch by 1-1/8 inch aluminum, I-beam profile, with ceiling clips; capable of being formed to 12-inch radius curve.

Roller assembly: Nylon wheels on ball-bearing steel axles;

rivet-attached to hinge, dual trolley at lead post, single trolley at alternate panels, type for specified track.

Hinge assembly: 18 gage steel, continuous pin, rivet-attached to top and bottom of vertical panels, with automatic stop at full extension.

Panel frame: Aluminum vertical channels having inside dimension between webs to accept 1/8 inch thick material.

Panel: 1/8 inch thick transparent acrylic sheet.

Panel: 1/8 inch thick _____.

Panel connector: Continuous non-rigid vinyl, inserted into panel frame channel.

Lead post: Extruded aluminum, 3/4 inch by 2-3/4 inch cross-section.

Intersecting jamb molding: Types for indicated configurations.

Handle: Rigid molded polyvinyl chloride (PVC).

Latching: Magnetic catch.

Latching: Thumbturn one side with deadlatch.

Latching: Thumbturn both sides with springlatch.

Latching: Thumbturn one side, pull with keylock one side, with deadlatch.

Latching: Pull with keylock both sides, with deadlatch.

Finishes:

Panels: Clear.

Panels: Bronze.

Panels: _____.

Aluminum surfaces: Manufacturer's standard finish, in color complementing panel finish.

Sizes: Indicated on drawings.

ACCORDION FOLDING SECURITY DOORS

Acceptable Product: Woodfold Series 540 Visifold Plus door.

Components:

Track: 1-1/8 inch by 1 inch aluminum, pre-punched for screw fasteners for surface mounting.

Track: 1-1/8 inch by 1 inch aluminum, pre-punched for screw fasteners, with aluminum hat channel for recess mounting.

Track: 1/2 inch by 1-1/8 inch aluminum, I-beam profile, with ceiling clips; capable of being formed to 12-inch radius curve.

Roller assembly: Nylon wheels on ball-bearing steel axles; rivet-attached to hinge, dual trolley at lead post, single trolley at alternate panels, type for specified track.

Hinge assembly: 18 gage steel, continuous pin, rivet-attached

to top and bottom of door panel, with automatic stop at full extension.

Panel: 1/8 inch thick transparent acrylic sheet.

Panel: 1/8 inch thick _____.

Panel connector: Continuous steel vertical rods with rigid polyvinyl chloride (PVC) hinge knuckles full length of each panel edge.

Lead post: Extruded aluminum, 3/4 inch by 2-3/4 inch cross-section.

Intersecting jamb molding: Types for indicated configurations.

Handle: Rigid molded polyvinyl chloride (PVC).

Latching: Magnetic catch.

Latching: Thumbturn one side with deadlatch.

Latching: Thumbturn both sides with springlatch.

Latching: Thumbturn one side, pull with keylock one side, with deadlatch.

Latching: Pull with keylock both sides, with deadlatch.

Finishes:

Panels: Clear.

Panels: Bronze.

Panels: _____.

Aluminum surfaces: Manufacturer's standard finish, in color complementing panel finish.

Sizes: Indicated on drawings.

ACCORDION FOLDING UTILITY DOORS

Acceptable Product: Woodfold Series 140 door.

Components:

Track: 1-1/8 inch by 1 inch aluminum, pre-punched for screw fasteners for surface mounting.

Roller assembly: Nylon wheels with Lexan axles; rivet-attached to hinge, single trolley at alternate panels.

Hinge assembly: 18 gage steel, continuous pin, rivet-attached to top and bottom of door panel, with automatic stop at full extension.

Panel: 1/4 inch thick medium-density fiberboard (MDF), with rabbeted edge for panel connector.

Panel connector: Continuous non-rigid vinyl, inserted and glued into panel rabbet.

Handle: Rigid molded polyvinyl chloride (PVC), full length of door, with molded finger pull front side.

Latching: Magnetic catch, with strike plate for attaching to

wall or jamb.

Finishes:

Panels: Vinyl laminate, _____ pattern, sight-exposed face; unfinished or utility grade back face, manufacturer's option.

Panels: Hardwood veneer, _____ species, with sealer and clear lacquer topcoats, sight-exposed face; unfinished or utility grade back face, manufacturer's option..

Aluminum surfaces: Manufacturer's standard finish, in color complementing panel finish.

Sizes: Indicated on drawings.

ACCORDION FOLDING ROOM DIVIDERS

Acceptable Product: Woodfold Series 220 door.

Components:

Track: 1-1/8 inch by 1 inch aluminum, pre-punched for screw fasteners, for surface mounting.

Roller assembly: Nylon wheels with Lexan axles; rivet-attached to hinge, single trolley at alternate panels.

Hinge assembly: 18 gage steel, continuous pin, rivet-attached to top and bottom of door panel, with automatic stop at full extension.

Panel: 1/4 inch thick medium-density fiberboard (MDF), with rabbeted edge for panel connector.

Panel connector: Continuous non-rigid vinyl, inserted and glued into panel rabbet.

Handle: Rigid molded polyvinyl chloride (PVC), full length of door, with molded finger pull both sides.

Latching: Magnetic catch, with strike plate for attaching to wall or jamb.

Finishes:

Panels: Vinyl laminate, _____ pattern.

Panels: Hardwood veneer, _____ species, with sealer and clear lacquer topcoats.

Aluminum surfaces: Manufacturer's standard finish, in color complementing panel finish.

Sizes: Indicated on drawings.

ACOUSTICAL RATED ACCORDION FOLDING DOORS

Acceptable Product: Woodfold Series 2100 door.

Components:

Track: 2 inches by 1-1/8 inches aluminum, pre-punched for screw fasteners for surface mounting.

Head molding: Hardwood molding for sound seal to top sweep strips.

Roller assembly: Nylon wheels on ball-bearing steel axles; rivet-attached to hinge, dual trolley at lead post, single trolley at alternate panels.

Hinge assembly: 18 gage steel, continuous pin, rivet-attached to top and bottom of door panel, with automatic stop at full extension.

Sound seal: Extruded vinyl sweeps attached to top and bottom hinge assemblies; 1/2 inch wide sweep for top hinge, 1-3/8 inches wide sweep for bottom hinge.

Panel: 1/4 inch thick medium-density fiberboard (MDF), with rabbeted edge for panel connector.

Panel connector: Continuous non-rigid vinyl, inserted and glued into panel rabbet.

Lead post: Extruded aluminum, 3/4 inch by 2-3/4 inch cross-section.

Interlocking jamb moldings: Types for indicated configurations; aluminum with sound seal gaskets.

Handle: Rigid molded polyvinyl chloride (PVC).

Latching: Thumbturn one side with deadlatch.

Latching: Thumbturn both sides with springlatch.

Latching: Thumbturn one side, pull with keylock one side, with deadlatch.

Latching: Pull with keylock both sides, with deadlatch.

Finishes:

Panels: Vinyl laminate, _____ pattern.

Panels: Hardwood veneer, _____ species, with sealer and clear lacquer topcoats.

Head moldings: Finish coordinated with hardware and track system.

Aluminum surfaces: Manufacturer's standard finish, in color complementing panel finish.

Sizes: Indicated on drawings.

Field sound transmission class (FSTC): 21, when tested in accordance with ASTM E 336.

ACOUSTICAL RATED ACCORDION FOLDING DOORS

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Acceptable Product: Woodfold Series 3300 door.

Components:

Track: 2-1/2 inches by 1-3/4 inches aluminum, pre-punched for screw fasteners for surface mounting.

Head molding: Hardwood molding for sound seal to top sweep strips.

Head track: Aluminum, 2-piece, for sound seal to top sweep strips.

Roller assembly: Nylon wheels on ball-bearing steel axles; rivet-attached to connecting clips, dual trolley at lead post, single trolley at alternate panels, type for specified track.

Hinge assembly: 18 gage steel, continuous pin, rivet-attached to top and bottom of door panel, with automatic stop at full extension; pantograph action for dual-wall door assembly.

Panel: 1/4 inch thick medium-density fiberboard (MDF), with rabbeted edge for panel connector.

Acoustical liner: Applied to inside faces of both walls.

Panel connector: Continuous non-rigid vinyl, inserted and glued into panel rabbet.

Lead post: Extruded aluminum, 2-7/8 inches by 4-1/2 inches cross-section, with jamb molding.

Jamb panel: Flush type.

Jamb panel: Post type.

Jamb panel: Sliding type.

Handle: Rigid molded polyvinyl chloride (PVC).

Latching: Thumbturn one side with deadlatch.

Latching: Thumbturn both sides with springlatch.

Latching: Thumbturn one side, pull with keylock one side, with deadlatch.

Latching: Pull with keylock both sides, with deadlatch.

Finishes:

Panels: Vinyl laminate, _____ pattern.

Panels: Hardwood veneer, _____ species, with sealer and clear lacquer topcoats.

Head moldings: Finish coordinated with hardware and track system.

Aluminum surfaces: Manufacturer's standard finish, in color complementing panel finish.

Sizes: Indicated on drawings.

Field sound transmission class (FSTC): 33, when tested in accordance with ASTM E 336.

PART EXECUTION

EXAMINATION

Verification of Conditions: Verify openings are in accordance with approved shop drawings.

Installer's Examination:

Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if such conditions are unacceptable. Transmit two copies of installer's report to Architect within 24 hours of receipt.

Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.

Beginning construction activities of this section indicates installer's acceptance of conditions.

INSTALLATION

Install door assembly components in accordance with accepted shop drawings and manufacturer's printed installation instructions.

ADJUSTING

Ensure that door assembly components operate correctly in accordance with manufacturer's printed instructions.

END OF SECTION