

SECTION 083513 - PANEL FOLDING DOORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Accordion folding doors.
 - 2. Panel folding doors.
 - 3. Bifold wood and metal doors.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 10 Section "Operable Panel Partitions" for large-size operable partitions.
 - 2. Division 10 Section "Accordion Folding Partitions" for acoustically rated operable partitions.
 - 3. Division 10 Section "Fire-Rated Operable Panel Partitions" for automatic fire separation partitions.
- C. Where Owner-furnished material is indicated for application over folding doors, the Owner will provide materials suitable for assemblies indicated relative to both fabrication and fire protection characteristics. Suitability is based on information furnished to the Architect by the manufacturer of the Owner-furnished material while Contract Documents were being prepared.

1.3 SUBMITTALS

- A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.
- B. Product data for each type of door and installation accessory specified.
- C. Shop drawings showing fabrication and installation of folding doors including plans, elevations, details of components, attachments to other units of work, and accessory items. Include location template drawings for items supported or anchored to permanent construction.
- D. Samples for initial selection in the form of manufacturer's actual outer covering material showing the full range of colors, textures, and patterns available for each type of outer covering material indicated.
- E. Samples for verification of each type of outer covering material indicated in sets for each color, texture, and pattern specified, showing the full range of variations expected in these characteristics.
- F. Schedule of door units using same room designations indicated on Drawings.
- G. Material test reports from a qualified independent testing agency indicating and interpreting test results relative to compliance of applied finish materials on folding doors.

- H. Material certificates in lieu of agency test reports, when permitted by Architect, signed by manufacturer certifying that each material item complies with requirements.
- I. Product certificates signed by manufacturers certifying that their products comply with specified requirements.

1.4 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide applied finish on folding doors with the following surface-burning characteristics as determined by testing identical products per ASTM E 84 by UL, Warnock Hersey, or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify applied finish on folding doors with appropriate markings of applicable testing and inspecting agency or with an accompanying certificate or report.
 - 1. Flame Spread: 25 or less.
 - 2. Smoke Developed: 450 or less.

1.5 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Special Warranty: Submit a written warranty executed by the manufacturer agreeing to repair or replace components of folding doors that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:
 - 1. Faulty operation of door, support system, or hardware.
 - 2. Deterioration of finishes or finish materials beyond normal wear.
- C. Warranty Period: 3 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. LOEWEN
77 Highway 52 West
Steinbach, MB Canada
R5G 1B2
Telephone: 1.877.563.9368
Website: www.loewen.com

2.2 MATERIALS

- A. DOOR AND FRAME
The basic specifications include Douglas Fir wood door and frame. Door sill is clad with clear anodized aluminum. A rigid bronze colored vinyl extrusion serves as a sill thermal break. All exterior components

are factory primed; minor scratches or abrasions are not considered defects. Refer to elevation drawings for screen availability.

1. PRESERVATIVE TREATED

All wood parts are dipped in approved preservative.

B. GLAZING

A wood stop combined with glazing materials ensure a positive seal.

C. INSULATING GLASS

Double glass configuration with 1/2" (12 mm) airspace.

D. HEAT-SMART® Plus System 1

Heat-Smart® best describes the benefits of the product that incorporates Low E2 coating and argon gas. Heat-Smart® systems help reduce heating and cooling costs, providing superior energy efficiency.

E. METAL CLADDING

Heavy duty extruded aluminum exterior metal cladding in clear anodized. Interior of door remains a natural wood finish as a standard. Metal clad units are supplied ready to-install complete with nailing flange.

F. HARDWARE

Multi-point locking hardware and easy operating flush bolts are standard on all Bifold Doors. Standard concealed bearing hinges in a clear anodized.

G. WEATHERSTRIP

Bottom corners of the door are weatherstripped with a pile dust plug attached to the side jambs. The operating door will be sealed with a wrapped foam weatherstrip at the head and the side jambs to provide a tight seal.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Comply with manufacturer's printed installation instructions. Install track in one piece.

B. Standard Floor Clearances: 1/4 to 3/4 inch (6.4 to 19 mm) maximum (above floor finish).

3.2 ADJUSTMENTS

A. Adjust units as necessary to ensure smooth, quiet operation without warping or binding. Check and readjust operating hardware so that latches engage accurately and securely without forcing or binding.