

Panelfold®

1. Product Name

Moduflex® Series 800, 600 and 400 Operable Walls

2. Manufacturer

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3. Product Description

BASIC USE

Panelfold® has long been recognized as a leader in the folding door, acoustical accordion folding partition and the operable wall industry. Moduflex operable walls are offered in individual, paired and continuous hinged, manually or electrically operated panel models in 3 series. A full range of options, including expanding panels, single and double pass doors self-illuminated exit signs and chalk, marker and tackable surfaces may be specified. These versatile, elegantly styled walls outperform many permanent walls with a wide range of available construction, engineering, sound transmission and acoustical features.

Regardless of height, Moduflex panels roll conveniently along overhead tracks with ease and require minimum setup time. A family of smooth rolling track and carrier systems that satisfies every multiple panel use and remote storage requirement provides for easy panel operation. These walls are suitable for use in commercial, educational, religious, hospitality, convention and meeting facilities.

COMPOSITION & MATERIALS

Moduflex Series 800, 600 and 400 operable walls feature Sheer Look® panel edges without trim to minimize vertical panel joints. Panels have continuous vertical and horizontal acoustical seals that are carefully aligned and placed in a double row labyrinth for optimum acoustical performance.

Moduflex Series 800 steel operable walls feature 1 piece 4" (102 mm) thick panels and are designed for the most demanding aesthetic and performance criteria. Durable steel panel faces are welded to 14 gauge steel frames in a unique unitized construction.

Moduflex Series 600 high performance operable walls feature 4" (102 mm) thick panels for general-purpose applications and have high density panel faces machine laminated to metal frames for required strength, mass and stability.

Moduflex Series 400 operable walls offer 3" (76 mm) thick panels for general-purpose applications and have high density panel faces machine laminated to metal frames.

TYPES

Panelfold Moduflex operable walls include the following types:

- Moduflex Series 800
- Moduflex Series 600
- Moduflex Series 400

SIZES

Series 800 is available to 44' (13 m) high. Series 600 is available to 24' (7 m) high. Series 400 is available to 14' (4 m) high.

FINISHES

A wide range of surfacing materials is available. Series 800, 600 and 400 accept vinyl, wall carpet, panel fabric and the customer's own material. Series 600 and 400 also accept plastic laminates and wood veneer. Materials include Ribtex® vertical rib wall carpet, Startex™ solid color, Fabrictex® fabric textured and Ropetex® rope textured vinyl, Woventex® panel fabrics and Woodtex® wood grain vinyls, as well as virtually any regularly specified wallcovering.

COLORS

A wide variety of colors and textures is possible depending on the type and source of panel finishing material.

SHAPES

Wall components are flat panels of varying thickness and composition.

LIMITATIONS

Consult manufacturer for recommendations on required structural framing, operational suitability and appropriate and compatible finish materials for the intended application.



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4. Technical Data

APPLICABLE STANDARDS

American Society for Testing & Materials (ASTM)

- ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions
- ASTM E557 Standard Practice for the Architectural Application and Installation of Operable Partitions

Underwriters Laboratories, Inc. (UL) - Test Procedures for Construction Assembly Fire Resistance Ratings and Surface Burning Characteristics

APPROVALS

For current information on approvals by specific agencies, contact Panelfold technical support specialists.

ENVIRONMENTAL CONSIDERATIONS

Steel and aluminum components are presumably recyclable.

PHYSICAL/CHEMICAL PROPERTIES

Test reports are available to qualified design professionals upon request.

Fire Rating

Series 800 FIRECOUSTIC® models offer an optional UL 1 hour fire resistance rating, which includes full thickness, acoustical, single and double pass doors, intersecting walls and a

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large variety of the manufacturer's standard surfacing materials. Series 800, 600 and 400 offer Class A flamespread rating.

SOUND RATING

Moduflex Series operable walls have been tested by independent acoustical laboratories.

Moduflex Series 800 walls provide ratings of STC 47, STC 49, STC 52 and STC 54. An optional noise reduction coefficient of NRC 0.90 is available using steel perforated faces rather than add-on unprotected absorbers.

Moduflex Series 600 walls provide ratings of STC 45, STC 47 and STC 50.

Moduflex Series 400 operable walls provide acoustical ratings of STC 47, STC 44, STC 42 and STC 38.

5. Installation

PREPARATORY WORK

Handle and store product according to Panelfold recommendations. Deliver materials to jobsite and protect unsealed materials from abrasion. Identify each container with material name and identification number. Store materials under cover, protected from weather and construction activities.

Before installation, inspect the door opening. Surfaces must be clean and dry. Concrete surfaces must be free of excess mortar and lumps, and wood surfaces must be well nailed and/or glued, nail heads driven flush and wood free of voids. Metal surfaces must be free of grease, oil, dirt, rust, corrosion and welding slag without sharp edges. Verify that rough opening is correct and has been prepared in conformance with ASTM E557.

METHODS

Complete installation recommendations are available from the manufacturer. Apply perimeter caulking and trim as required. Adjust locking hardware for accurate fit. Clean all wood, vinyl, wall carpet, panel fabric and plastic laminate surfaces to remove soil

without using abrasive cleaners or solutions containing corrosive solvents. After all adjustments, lubrication and cleanup, the installer should verify proper operation and function, and communicate maintenance procedures for the walls to the owner.

PRECAUTIONS

Conform with all applicable jobsite safety recommendations and procedures.

BUILDING CODES

Current data on building code requirements and product compliance may be obtained from Panelfold technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

6. Availability & Cost

AVAILABILITY

Panelfold products are manufactured in a modern 140,000 square foot plant in Miami, Florida, USA, and sold by local installing distributors in major cities. See local telephone Yellow Pages under Doors or Partitions or contact manufacturer for the nearest distributor. With a network of licensed manufacturers and distributors in more than 54 countries, Panelfold is represented worldwide.

COST

Budget installed cost information may be obtained from a local Panelfold distributor or through the manufacturer at the above number.

7. Warranty

Panelfold warrants each new Panelfold folding door, folding partition, operable wall and accessory to be free from defects in material and workmanship under normal use and service. Panelfold assumes no obligation to correct defects caused by improper installation or unreasonable use, including physical abuse

or lack of maintenance. Panelfold's obligations under this warranty are limited to the repair, free of charge, of any defective part which is returned prepaid to the factory within 1 year of shipment from Panelfold. Obtain further information from the manufacturer.

8. Maintenance

These walls are designed to require little maintenance. Operate according to manufacturer recommendations. Clean and lubricate track once per year. Surfacing material maintenance requirements vary. Vinyls should be cleaned with a damp cloth and mild household cleaner. Use of white chalk is recommended. Chalkboards should be broken in before use and washed no more than once weekly. An initial cleaning of marker boards must be performed to ensure proper erasure.

9. Technical Services

A staff of factory trained service personnel offers design assistance and technical support. For technical assistance, contact Panelfold, Inc., or a local distributor.

10. Filing Systems

- First Source for Products
- MANU-SPEC®
- Sweet's Catalog Files
- Additional product information is available from the manufacturer upon request, including interactive specifications and CAD details on CD-ROM and on the Internet.

TABLE 1 MODUFLEX PRODUCT COMPARISON

Criteria	Moduflex Series 800	Moduflex Series 600	Moduflex Series 400
Panel thickness, in (mm)	4 (102)	4 (102)	3 (76)
Height, ft (m)	8 - 44 ¹ (2 - 13 ¹)	24 ¹ (7 ¹)	14 ¹ (4 ¹)
Sound rating, STC	47 - 54 ²	45 - 50	38 - 47
Fire rating, standard	Class A (1 hour optional) ²	Class A	Class A

¹ Maximum height.

² Optional noise reduction coefficient of 0.9 NRC is offered with STC 50.