



ACCORDION FOLDING DOOR SYSTEMS



Interactive Product Selection Guide

INTRODUCTION

This interactive product selection guide is designed to help you quickly choose the best door solution for your specific challenge.

This selection guide is intended to inform architects, specification writers and building/property managers of the process involved in selecting an appropriate accordion folding door system from Won-Door. Refer to Won-Door's [Glossary](#) for the proper definition of terms.

DOOR SELECTION

Key questions when selecting a door include:

- What purpose will this door serve?
- What fire ratings are available?
- Is this door being used across a means of egress?
- Am I limited in height or width?
- Can I design a door to curve around other building elements?
- What about storage pockets?
- What are the security/access control requirements?

Once a general selection is made, application and/or code specific questions need addressing:

- What are the physical space constraints - height/width, where will the pocket be located and at what depth?
- Minimum acceptable clear opening?
- Door activation type – fire or security alarm, or both?
- Are there egress requirements?
- What are the structural requirements?

Won-Door offers the best selection of accordion folding doors in the industry, making it a “one-stop shop” for your fire, security and sound protection needs, ensuring continuity in operation and service. Reach out to a Won-Door expert to guide you through the selection process.

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FIRE-RATED SYSTEMS

Accordion folding fire door systems are a code-compliant, interior application. They serve as an approved opening protective in rated wall assemblies.

Exceeding the size limitations of other fire door systems, storing neatly in a pocket when not in use and offering radial configurations are common reasons for selecting accordion folding fire doors. They also provide the ability to utilize the entire width of the corridor, minimizing traffic congestion and eliminating bottleneck effect.

Accordion folding fire doors are available in single and bi-part configurations and straight or curved overhead track configurations and are offered as complete solutions including an operator and controller. These systems are approved in a means of egress in all occupancy types, except Group H.

FIREGUARD

FireGuard is an opening protective with available ratings of 20, 60, 90, 120 and 180 minutes. It has been installed in openings up to and exceeding 35' in height and over 200' in width. FireGuard does not require a floor track and will operate even in the event of power loss, as required by NFPA 80.

[PRODUCT DETAILS / DESIGN DOCUMENTS](#) | [LITERATURE](#)

FIREGUARD SLIM

An ideal solution for the narrow corridor and small opening applications is FireGuard Slim. Available in straight, single parting applications, Slim achieves an industry leading 14" stack depth. Slim's specifiable options include widths up to 9', heights of either 7' or 8' and a fire rating of 90 minutes.

[PRODUCT DETAILS / DESIGN DOCUMENTS](#) | [LITERATURE](#)

FIREGUARD SLIM SE

A highlight in Won-Door's new product offering, FireGuard Slim SE performs all the functions of FireGuard Slim. An added benefit, is Slim SE's ability to meet the UL 1784 standard for Air Leakage Tests. Designed to be used at the point of access to an elevator car, Slim SE is an affordable alternative to other smoke and draft control assemblies.

[PRODUCT DETAILS / DESIGN DOCUMENTS](#) | [LITERATURE](#)

MOVEABLE FIREWALL

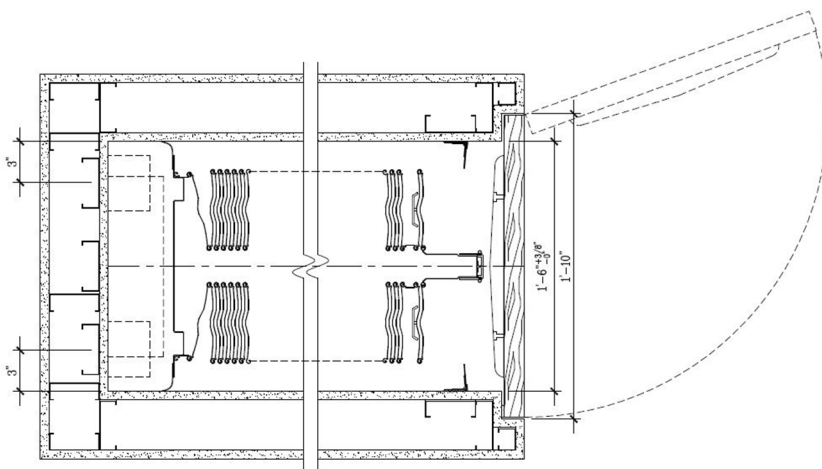
Won-Door FireGuard Moveable FireWall is a UL certified product meeting the criteria required by ANSI/UL263 (ASTM E119). The building code restricts the size of openings in a fire barrier (IBC 2021, Section 707.6 ...Openings shall be limited to a maximum aggregate width of 25% of the length of the wall, and the maximum area of any single opening shall not exceed 156 sf). *However*, openings shall not be limited in size where the opening protective has been tested in accordance with ASTM E119 or UL263.

[PRODUCT DETAILS / DESIGN DOCUMENTS](#) | [LITERATURE](#)

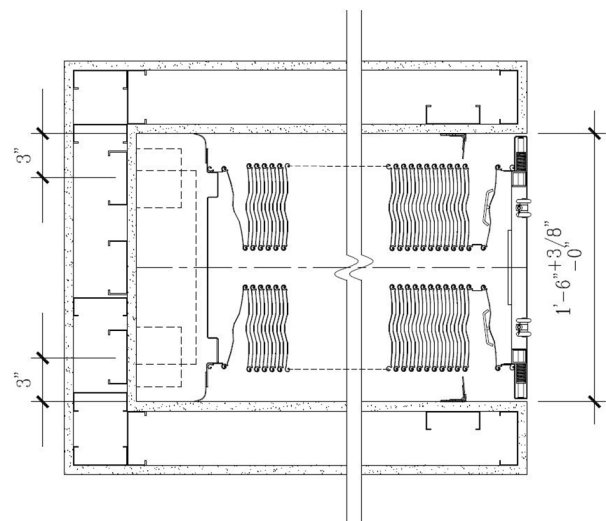
FIREGUARD + ACCESS CONTROL

My fire door can also be used as an access control checkpoint? Using any of the available security components and features, Won-Door FireGuard has the ability to both serve as an opening protective in a means of egress AND as an access control device during after-hours events or off-hour lockdown.

[PRODUCT DETAILS / DESIGN DOCUMENTS](#) | [LITERATURE](#)



FireGuard Narrow Leadpost
w/ pocket cover door



FireGuard Flat Leadpost

SECURITY SYSTEMS

STEELGUARD

Building on the same technology that made FireGuard the industry's best fire door, Won-Door SteelGuard uses the same robust, independent two-panel system as a formidable physical and visual barrier. Electromagnetic motor brake, anti-sway security measures and an 18"/second speed of travel across the opening are just a few of the components that make SteelGuard an effective device against unwanted intrusion.

[PRODUCT DETAILS / DESIGN DOCUMENTS](#) | [LITERATURE](#)

STEELGUARD + FIRE RATING

My security door can also be fire rated? In addition to safeguarding occupants and property from forced entry, Won-Door SteelGuard can be affixed with a UL fire label up to 180 minutes. Remote monitoring and control capabilities further strengthen your facility against security threats AND the harmful effects of smoke and fire.

[PRODUCT DETAILS / DESIGN DOCUMENTS](#) | [LITERATURE](#)

SOUND-RATED SYSTEMS

DURASOUND

The original two-track, sound rated accordion folding door system still provides unmatched sound attenuation. An STC rating of 48 and finishes that are permanently bonded to steel panels makes Won-Door DuraSound the gold standard. Benefits of utilizing DuraSound include:

- 24 ga corrugated steel panels for strength.
- Absence of internal parts means operation continues even after severe blows.
- No floor track to maintain or collect debris.
- Improves building space utilization while enhancing visual appeal.

[PRODUCT DETAILS / DESIGN DOCUMENTS](#) | [LITERATURE](#)

DURASOUND XL

Instead of 4 1/2” wide steel panels used by DuraSound, Won-Door DuraSound XL employs a 10” wide panel. Doubling the width of the panel allows DuraSound XL to span even greater openings and stack in a much more shallow pocket, giving you back more square footage. Same corrugated resilience and smooth operation.

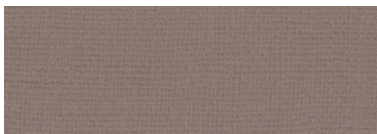
[PRODUCT DETAILS / DESIGN DOCUMENTS](#) | [LITERATURE](#)

Vinyl-Clad Finishes for DuraSound

The Gen-Clad Vinyl Laminate finishes are made of scientifically formulated semi-rigid sheeting of superior quality, authentic design and consistent color. Prior to forming the panels, the finish is integrally bonded to the metal (steel) using a heat/pressure laminating process that assures permanent beauty. These finishes are extremely tough and abrasion resistant, and may be cleaned or sanitized.



Colonial Blue PN-164



Rose PN-153



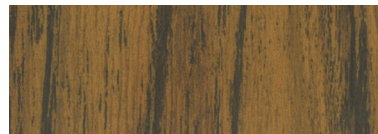
White ML-885



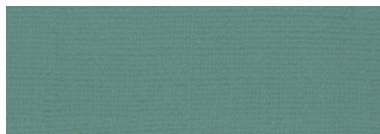
Sandalwood PN-163



Dove ML-864



Teak ML-745



Nile PN-162

Gen-Clad Vinyl Laminate finishes are made in accordance with U.S. Department of Commerce specification CS245-62 and tested in accordance with ASTM 84-70.

DuraSound XL is only available in White ML-885 or Teak ML-745.

Note: The color of your vinyl finish may vary from these samples.

QUALITY ASSURANCE & CODE COMPLIANCE

All Won-Door products are backed by a two-year limited warranty against defect of materials and workmanship. Won-Door accordion folding doors are designed and manufactured to comply with the current edition of the following standards:

National Fire Protection Association

- NFPA 70 (NEC)
- NFPA 80
- NFPA 101

ICC/International Building Code (2021)

- ICC-ES Evaluation Report 1394
- Chapter 4, Section 404 - Atriums
- Chapter 7 - Fire and Smoke Protection Features
- Chapter 10 - Means of Egress
- Chapter 30 - Elevators and Conveying Systems
- Includes appropriate sections of BOCA, ICBO, SBCCI

UL Solutions

- UL 10B
- UL 263 (ASTM E119)
- UL 294
- UL 864

INSTALLATION CONSIDERATIONS

- Maintain a +/- 1/8" plane tolerance in the floor. Overhead track will be installed parallel to the floor.
- Ceiling/soffit height elevations should be maintained across the full length of the opening.
- Maintain minimum depth requirements throughout the pocket area.
- Maintain pocket width from floor to header assembly and from face of pocket to back of pocket; maintain soffit width across the length of the entire opening.
- Finished flooring is complete.
- Electrical boxes and conduit are roughed in and ready for final connections. Includes permanent power, fire alarm and any accessory wiring, when applicable.
- Rated soffit walls on either side of the header assembly are taped and caulked. Soffit and pocket walls to maintain continuous rating up to the deck above.
- Lowest obstruction between the bottom of the soffit and the bottom of the structural attachment must be a minimum of 12" and not greater than 60". All penetrations through the soffit wall must be fully fire sealed.

DESIGN LIFE

When used and maintained properly, your Won-Door system will last a lifetime. Generally, Won-Door fire and security solutions are tested to 50,000 cycles.

NEW PRODUCTS, NEEDS & IDEAS

Won-Door's product line is constantly evolving – use these sources to gather the latest information and/or share your needs and ideas for new door solutions!:

[Dive into Won-Door's product pages at wondoors.com](#)

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