

WON-DOOR FireGuard™



The ORIGINAL horizontal sliding
accordion fire door.



Fire Safety by Design

Founded in 1962, the Won-Door Corporation introduced the world's most durable acoustically rated folding partition. In 1977 the company pioneered the development of the first-ever accordion type, fire rated horizontal sliding door. Today, more than 40 years later, Won-Door remains the industry leader in the manufacture of fire doors and moveable firewalls. Technology developed by Won-Door engineers continues to influence the building products and fire protection industries.

Setting the standard

The first to gain universal acceptance

The development of the accordion type, horizontally sliding fire door – as manufactured by the Won-Door Corporation – has had a profound influence on the model code requirements that regulate their use, leading to its universal acceptance for use in virtually any means of egress application.

The first to be UL listed

The Won-Door FireGuard was the first accordion type fire door to successfully pass nationally recognized tests to withstand the passage of fire. Won-Door FireGuard products are listed by Underwriters Laboratories Inc. (UL) for up to 3 hours as a rated door assembly and 2 hours as a moveable fire wall.



Opening protective for a non-rated glass entrance to a tenant suite.

Still on the cutting-edge

Only the Won-Door FireGuard uses a state-of-the-art microprocessor activated control system to guarantee reliability and enhance door function. This technology provides almost limitless opportunities for electronic communication, supervision, alarm activation and more.

Engineered to fit YOUR needs

Building codes encourage larger openings so why be limited by traditional forms of opening protectives like roll-down shutters or swing-type doors? The custom-made



Area separation between the old and new BWI Airport terminal.

Won-Door FireGuard fire door can accommodate virtually any opening. Capable of spanning wide openings and heights up to 28 feet* – even radial configurations are possible. Best of all, the single- or bi-parting doors are installed in the open position and fold to just inches per foot behind pocket doors that you can design to blend with the surrounding architecture.

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WON-DOOR CORPORATION
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Superior performance, superior service

More than twenty branch sales offices and two Regional Sales Offices, plus a highly skilled team of designers, engineers and field technicians, provide product service and support across the United States. Thoroughly knowledgeable about building code as well as construction, our sales force can be relied upon to guide you every step of the way so you can get your ideas off the drawing board and into existence.

Typical applications include:

Area Separation	Smoke Barrier
Atrium Separation	Smoke and Draft Control
Corridor Separation	Vertical Exit Enclosure Separation
Elevator Lobby Separation	Smoke Compartmentation
Horizontal Exits	Stage Proscenium Protective
Occupancy Separation	Vertical Opening Protective
Safe Areas of Refuge	



APPLICATION

Elevator Lobby Separation in Type R Occupancy

PROJECT

Gold Country Hotel & Casino

LOCATION

Oroville, California

PROJECT ARCHITECT

Varond Design Group
Won-Door FireGuard fire doors are used to create unobtrusive, yet code-compliant, elevator lobbies that are compatible with the decor of this high-rise hotel and casino in Northern California.



The same Won-Door FireGuard fire doors are used in this elevator lobby/stairwell to satisfy two code enclosure requirements – protection of a vertical opening as well as elevator lobby separation.

Egress Applications



APPLICATION

Vertical Opening
Protective

PROJECT

Arizona State
University Athletics
Facility

LOCATION

Tempe, Arizona

PROJECT ARCHITECT

DWL Architects

The architect wanted the natural light from the skylight of this three-story athletic building to filter through colorful banners and illuminate a display of athletic trophies and awards on the first floor. Using Won-Door FireGuard fire doors made this possible.

Use Won-Door FireGuard in lieu of swing doors



"Fire doors" are not limited to just hollow metal swings. Won-Door FireGuard fire doors are code recognized and accepted anywhere an opening protective is required.

Use Won-Door FireGuard in lieu of reducing the size of rated openings



Rated openings in fire walls and fire barriers are permitted to be as large as 156 square feet, even in unsprinkled environments. The Won-Door FireGuard provides maximum design flexibility – beyond that of any other fire door or shutter.

Use Won-Door FireGuard in lieu of shutters



By redefining what is typically described as an "atrium" Won-Door FireGuard fire doors meet the required fire separation between adjacent spaces while eliminating costly atrium requirements such as sprinklers and smoke evacuation systems.

Use Won-Door FireGuard in lieu of fire-rated glass



Won-Door FireGuard, the only microprocessor controlled fire door on the market, is the preferred solution for lower cost and clear openings. Some models are approved for use as an ASTM E-119 compliant moveable fire wall in non-egress openings in fire barriers.



APPLICATION

Area Separation

PROJECT

Provo City Library

LOCATION

Provo, Utah

PROJECT ARCHITECT

MJSA Architects

A non-rated clerestory joins the renovated historic 1892 building with a large modern library addition. Combining the old and the new presented a code compliance challenge. Since the aggregate square footage exceeded the allowable area defined in the current code, a 2-hour fire barrier - the Won-Door FireGuard - was used to separate a large portion of the historic renovation. By taking advantage of the approved wide span opening protective capabilities, historic ambience and code compliance were easily accommodated.

Listings & Approvals



APPLICATION
Elevator Lobby
Separation/Access
Control

PROJECT
San Diego
International Airport

LOCATION
San Diego, California

**PROJECT
ARCHITECT**
SPGA

The Won-Door
FireGuard fire door
can be used to isolate
and control a security
breach as well as stop
the spread of fire and
toxic fumes.

Means of Egress Applications

APPLICATIONS	2003 IBC ¹	2006 IBC ¹	2006 NFPA 101
Building Code Reference	1008.1.2 exc #5	1008.1.2 exc #6	7.2.1.14
Performance Criteria	1008.1.3.3	1008.1.3.3	7.2.1.14

¹Any application without occupant load limitation except H occupancies.

Product Information

MODEL NUMBER	HOURLY RATING	TEST CRITERIA	U.L. FILE NUMBER	SINGLE OR BI-PARTING	MAX. OVERSIZE LABEL SIZE
Door Assembly FireGuard FG20	20 minutes	U.L. 10B (ASTM E-2074) ⁶	R6799	Both Available	28'0" (h) Unrestricted (w)
Door Assembly FireGuard FG60³	1 hour	U.L. 10B (ASTM E-2074) ⁶	R6799	Both Available	28'0" (h) Unrestricted (w)
Door Assembly FireGuard FG90³	1 1/2 hours	U.L. 10B (ASTM E-2074) ⁶	R6799	Both Available	28'0" (h) Unrestricted (w)
Door Assembly FireGuard FG180³	3 hours	U.L. 10B (ASTM E-2074) ⁶	R6799	Both Available	28'0" (h) Unrestricted (w)
Wall Assembly FireGuard MFW1⁴	1 hour	U.L. 263 (ASTM E-119)	R12272	Single Parting Only	N.A.
Wall Assembly FireGuard MFW2⁴	2 hour	U.L. 263 (ASTM E-119)	R12272	Single Parting Only	N.A.
Automatic Closing System⁵	Can be used on all Won-Door FireGuard models listed up to 3 hours	U.L. 864	E92690	Can be used for both	N.A.

³ Each door assembly, when required, complies with UL1784; and with the exception of FG20, can be labeled as Temperature Rise (TR). See ESR1394.

⁴ MFW - Movable Fire Wall

⁵ This listing applies for use on all Won-Door FireGuard models.

⁶ Excluding cotton pad test.

Other Won-Door FireGuard Listings and Reports

ICC	Research Rep. ESR-1394
State of California Door Assemblies MFW	3261-357:001; 1080-357:100
San Francisco Dept. of Public Works	387W18.2
City & County of Denver	M-8275
State of Wisconsin	811003
City of New York Listed Assemblies Oversized Assemblies	MEA-127-79-M; MEA-124-79M; MEA-383-85-M MEA-377-86-M; MEA-70-87-M; MEA-69-87-M



Standard features of the Won-Door FireGuard:

1. Exiting hardware

Exiting hardware can be configured and placed where appropriate, including to accommodate persons with disabilities.

2. Leading edge obstruction detector

The door will stop upon contact with an obstacle, pause, then re-seek the closed position.

3. Leadpost

Doors can be prevented from closing and caused to re-open a preset distance by applying light pressure to the leadpost.

4. Single- or bi-parting doors

A single door slides across the opening into a recessed jamb located on the opposite wall. The spanning of larger openings is possible by using the bi-parting configuration. The storage space is then divided on each side of the opening.

5. Pocket cover door

Pocket cover doors can be designed by you to blend with any decor.

6. Track and trolley system

This system allows the door to accommodate wide span openings. Curved configurations are also possible.

7. Thermal lockout feature

Ambient temperature at the door is monitored and the operating device is automatically disabled if the environment becomes untenable.

8. Microprocessor

A control unit located in the door's storage pocket provides continuous monitoring of door status.

9. Electronics

The Won-Door FireGuard is a completely electronically supervised system utilizing solid state circuitry as well as a backup DC power supply.

10. Floor gasket and fire liner

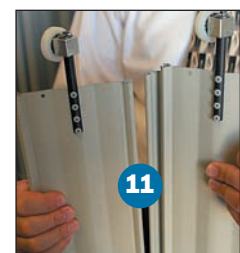
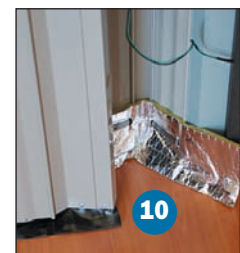
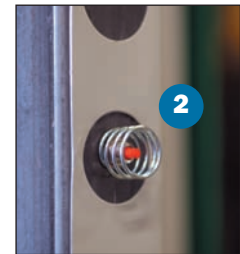
A tight-fitting floor gasket and fiberglass liner provide an impenetrable barrier against the spread of smoke and flames.

11. Modular design

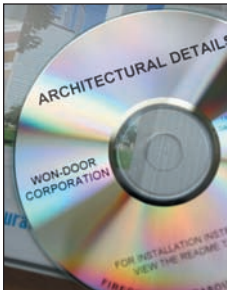
Modular design provides for in-place reparability using basic tools.

12. Materials

Door panels are constructed of 24-gauge steel with a standard finish of platinum enamel. Optional colors are available for a nominal fee.



Fire Safety by Choice



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Specifying the Won-Door FireGuard

Why

Without the use of floor tracks or exposed hardware of any kind, these fire doors are the most trouble free product in the fire protection industry.

- Design flexibility
- Custom made to fit your design without compromising code requirements
- Lower maintenance costs
- Modular construction means in-place reparability
- No parts exposed to wear and tear
- Fewer service calls
- Can be reset by building management by simply pushing a button
- Backup power supply so door operates even during a power outage
- Increase useable space
- Code compliant
- Access control options available
- Often cost less than other solutions

How

- Our Design Manual containing a complete summary of architectural details and specifications is available for free from your local Won-Door representative. Or call 800-453-8494 to order.
- The Won-Door FireGuard Product Catalog prepared to standard CSI format for use with most CAD systems is also available for download from our website at www.wondoor.com
- Additionally, videos, in a variety of formats, can be downloaded from our online video archive. These informative short movies cover a range of topics from typical applications and product demos to technical topics and code compliance.

Learn and earn

AIA members can learn more about Won-Door products and earn credits by participating in a Won-Door seminar either online or in person. Contact your local representative for more information or visit www.wondoor.com and click on Continuing Education.

For more information contact your local representative.