

**Interdisciplinary Science Building  
Webster University  
Cannon Design Project No. 004561.01**

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Project: Webster ISB Substitution Request Number: 21  
From: Joe Voypick  
To: Melissa Pirtle stl-  
cac@cannondesign.com Date: 5/27/16  
Re: \_\_\_\_\_ Contract For: \_\_\_\_\_

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**Specification Title:** Side Coiling Doors **Description:** \_\_\_\_\_  
**Section:** 083333 **Page:** \_\_\_\_\_ **Article/Paragraph:** 2.1 A

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**Proposed Substitution:** Replace McKeon door with Won Door  
**Trade Name:** \_\_\_\_\_  
**Model No.:** FireGuard  
**Manufacturer:** WonDoor  
**Address:** 1865 S 3480 W  
Salt Lake City, UT 84104  
**Phone:** 972-285-1950 **Manufacturer Web Page:** Wondoor.com

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

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**Savings to Owner for  
accepting substitution:** Sixty-Seven Thousand Five Hundred Fifty-Five (\$ 67,555)

Proposed substitution  
changes Contract Time: ☒ No ☐ Yes [Add] [Deduct] \_\_\_\_\_ days.

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The Undersigned Bidding General Contractor/Construction Manager Certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified products.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

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- The following supporting data is attached to this request and verifies the above statements:

- ☐ Drawings
- ☐ Product Data
- ☐ Samples
- ☐ Tests
- ☐ Reports
- ☐ Other (explain) Brochure

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Submitted by: Joe Voypick

Signed by: (typed is fine)

Contractor: Paric

Address: \_\_\_\_\_

Phone: 618-979-3295 : Email javoypick@paric.com

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Review and Action

- ☐ Substitution approved – Make submittals in accordance with the Specifications.
- ☐ Substitution approved as noted – Make submittals in accordance with the Specifications.
- ☒ Substitution rejected – Use specified materials.
- ☐ Substitution received too late – Use specified materials.

Comments: \_\_\_\_\_

Signed by: Kelvin Patel Date: 06/07/2016

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# WON-DOOR

FireGuard CC/CS  
Cross Corridor/Compressed Stack

# FIREGUARD™

**F**ounded 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, 50 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.



**WON-DOOR  
CORPORATION**

Salt Lake City, UT  
**800.453.8494**

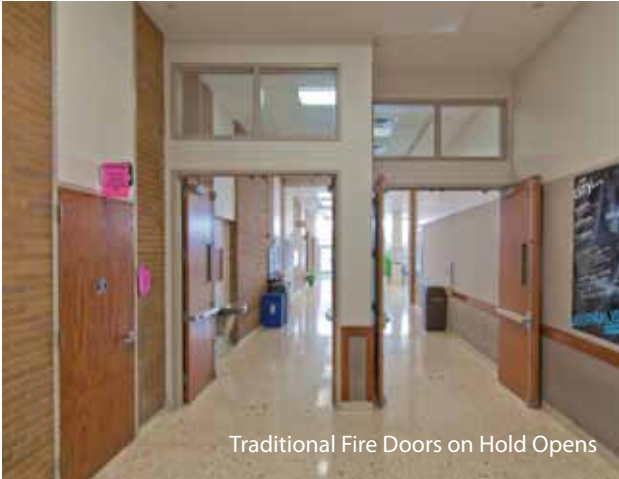
[www.wondoor.com](http://www.wondoor.com) | [sales@wondoor.com](mailto:sales@wondoor.com)

## Finally... A Cost-Effective Alternative to Fire Doors on Hold Opens

- Unobstructed corridors
- No exposed hardware
- Low life cycle costs
- Integrated pocket cover door
- UL1784 smoke label
- UL10B fire ratings up to 180 minutes
- Meets IBC and NFPA Egress Requirements
- LEED: Regional Sourced Material
- LEED: Constructed of 25% post consumer/industrial content
- LEED: Daylight and views, allow more light and air into interior spaces
- LEED: Innovation in Design, improved interior environmental quality

FIREGUARD  CORRIDOR™

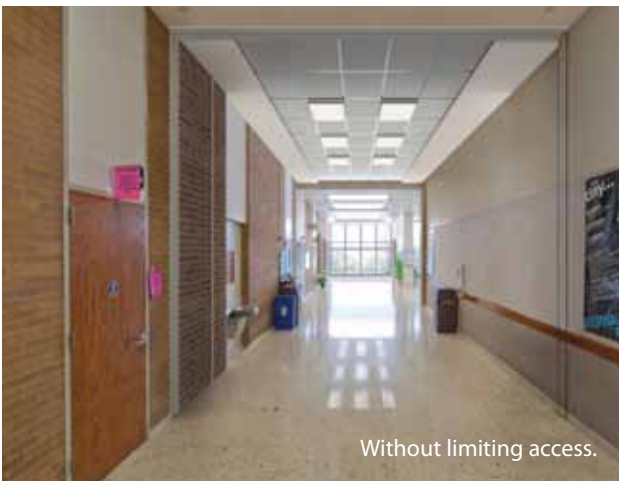
# WON-DOOR FIREGUARD™ Cross Corridor/Compressed stack



Traditional Fire Doors on Hold Opens



Won-Door FireGuard™ CC/CS provides a means of egress.



Without limiting access.

## 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 three hours as a rated door assembly and two hours as a moveable fire wall.

### 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.

## RE-ENGINEERED FOR THE 21<sup>ST</sup> CENTURY

In 2010, Won-Door Corporation engineers accepted the challenge to develop a better and more cost-effective alternative to cross-corridor fire doors. The goal was to create a fire door system that could replace traditional side-hinged fire doors on electromagnetic hold-opens. The solution had to cost the same or less than traditional fire doors, meet all egress requirements, keep the corridor completely clear and require no more space than side-hinged doors. While seemingly impossible, the Won-Door engineers achieved all of their goals and more. In mid-2011, the Won-Door FireGuard™ Cross Corridor - Compressed Stack (CC/CS) was officially introduced to the construction community.

# One corridor, two fire door options. Now, you have a choice.

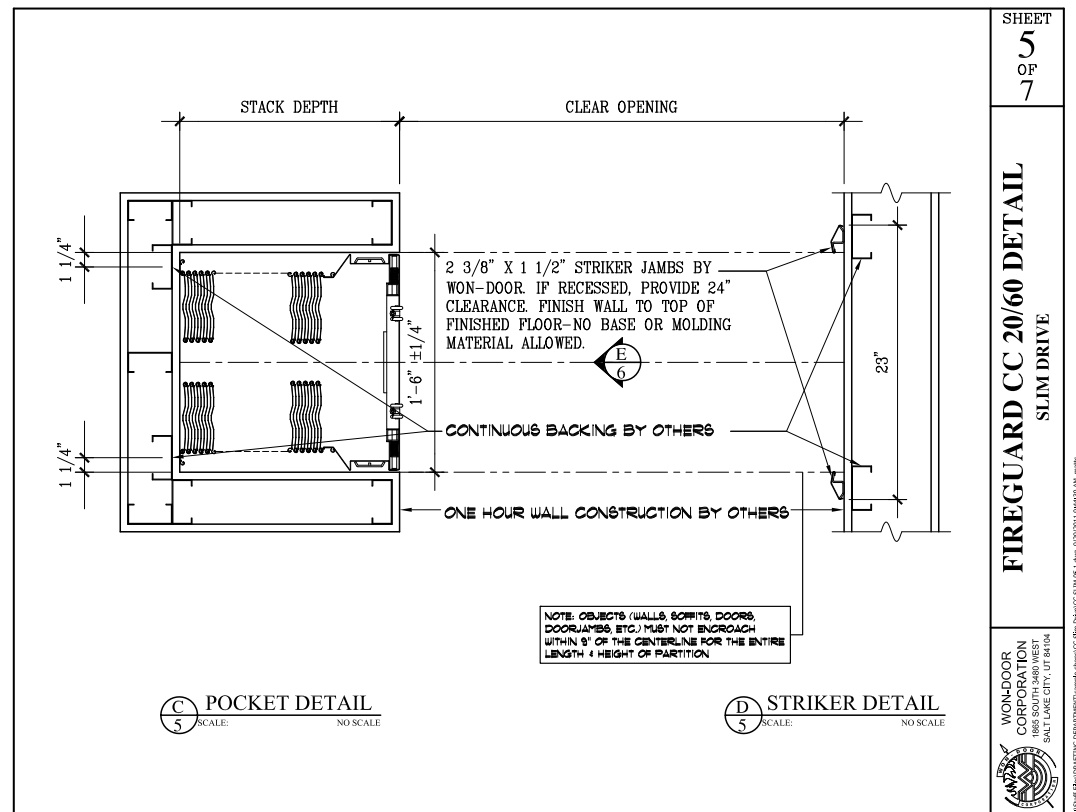
## USE WON-DOOR FIREGUARD™ CC/CS IN LIEU OF SWING DOORS

Building codes restrict the maximum width of a swinging door leaf to 48 inches. Therefore, a pair of side-hinged doors can span an opening no more than eight feet wide. In this example, the corridor opening has been reduced to 8' x 8' to accommodate the maximum door leaf available. The cost of the opening protection includes the doors, doorframe, hardware and surrounding metal stud and drywall construction.

The new Won-Door Fireguard™ Cross Corridor - Compressed Stack (CC/CS) Door allows for wide open corridors anywhere an opening protective is required. The width and height of the corridor can be maintained allowing for improved sight lines, natural lighting and air flow. By eliminating the need for the surrounding construction, the resulting cost of the opening protections is the same or less than other options.

The Won-Door Fireguard™ CC/CS fire door meets all egress requirements set forth by IBC and NFPA. It is the only microprocessor controlled fire door on the market that has an Integrated Self-Supporting Track System and a unique flat lead-post design that acts as a pocket cover door.



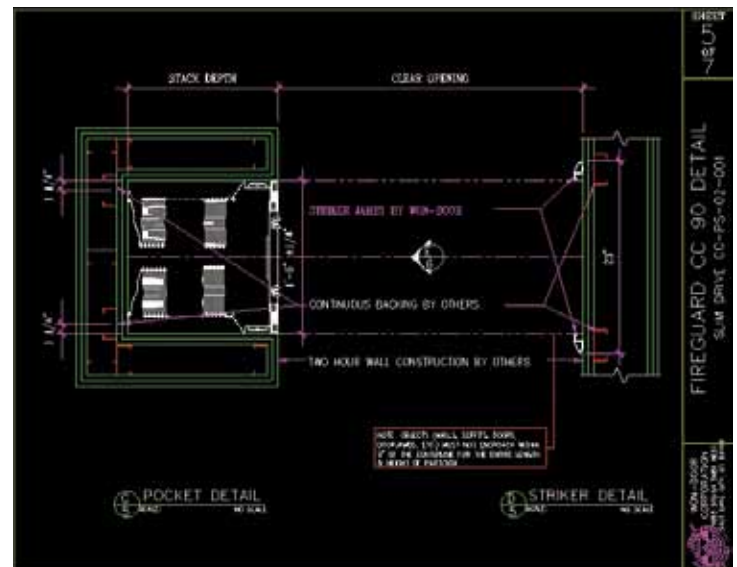


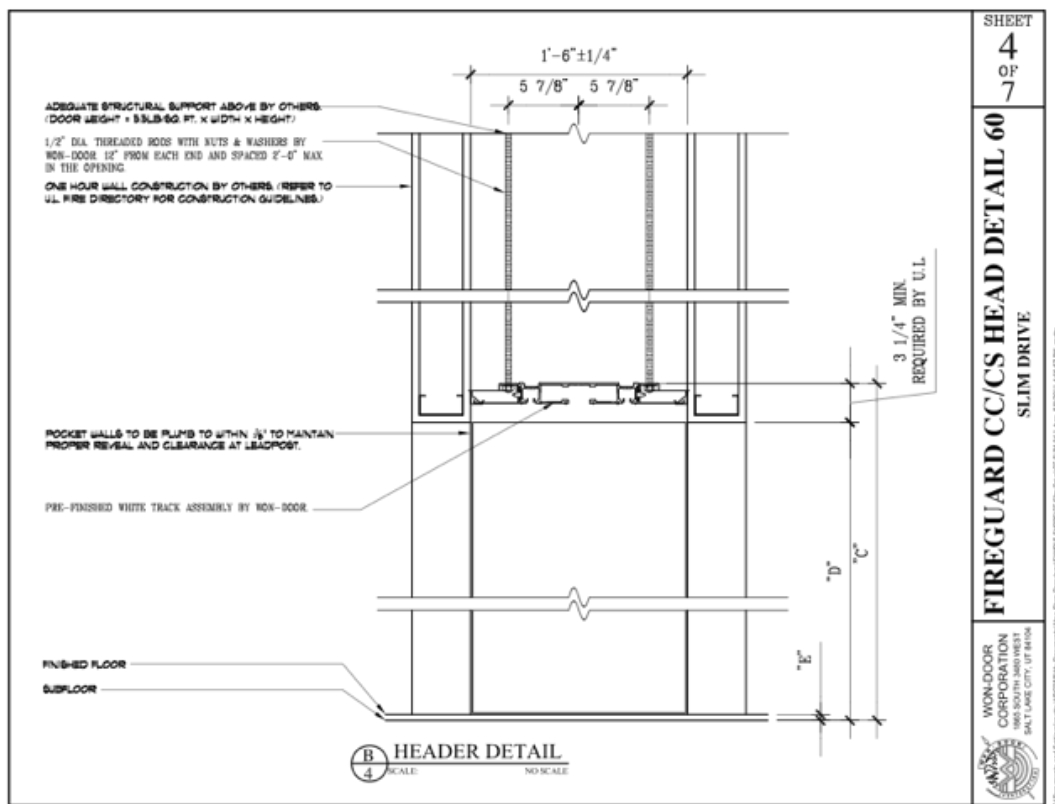
The flat lead-post design incorporating the pocket cover door is an industry first. It is part of the U.L. labeled assembly and eliminates the cost of building an unlabeled cover door on the jobsite.

## QUALITY AND SERVICE

The Won-Door team of specialists makes sure that things go smoothly every step of the way – from order to installation

- Won Door sales representatives are located throughout the United States – and around the world. They are up-to-date on all the recent changes to the model building codes and can help you find the solutions that are right for your project.
- Engineers and drafters provide technical support as you prepare your bid package, helping to simplify your task of meeting code requirements and creating design layouts.
- Factory trained installers make sure your doors are installed correctly for each application.





The Integrated  
Self-Supporting  
Track System  
eliminates the  
plywood and  
drywall required in  
traditional headers,  
simplifying the  
installation and  
saving natural  
resources.

# WON-DOOR FIREGUARD™ CC/CS

## Cross Corridor/Compressed Stack

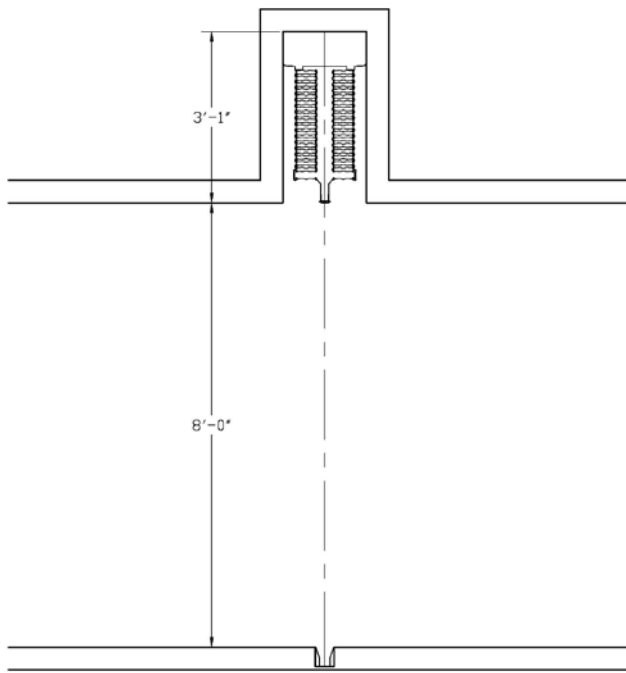
### MEANS OF EGRESS APPLICATIONS

| APPLICATIONS            | 2009 IBC        | 2012 IBC        | 2015 IBC        | 2006 thru 2015 NFPA 101 |
|-------------------------|-----------------|-----------------|-----------------|-------------------------|
| Building Code Reference | 1008.1.2 exc.#6 | 1008.1.2 exc.#6 | 1010.1.2 exc.#6 | 7.2.1.14                |
| Performance Criteria    | 1008.1.4.3      | 1008.1.4.3      | 1010.1.4.3      | 7.2.1.14                |

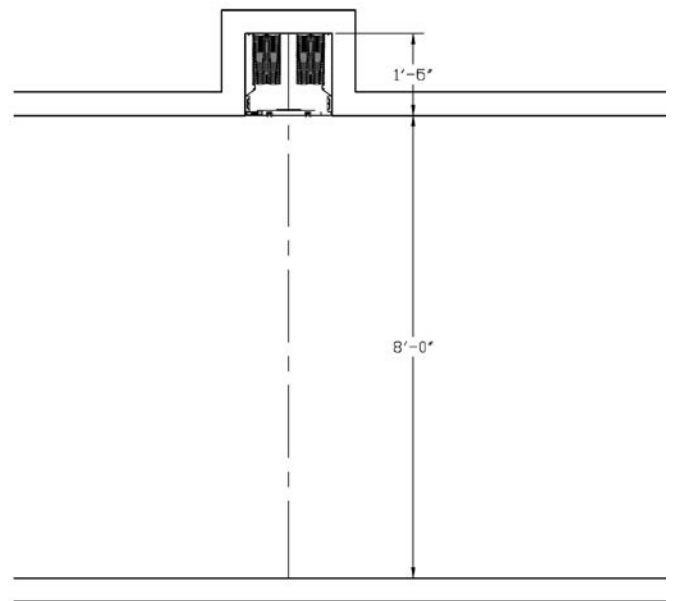


### ADDITIONAL INFORMATION

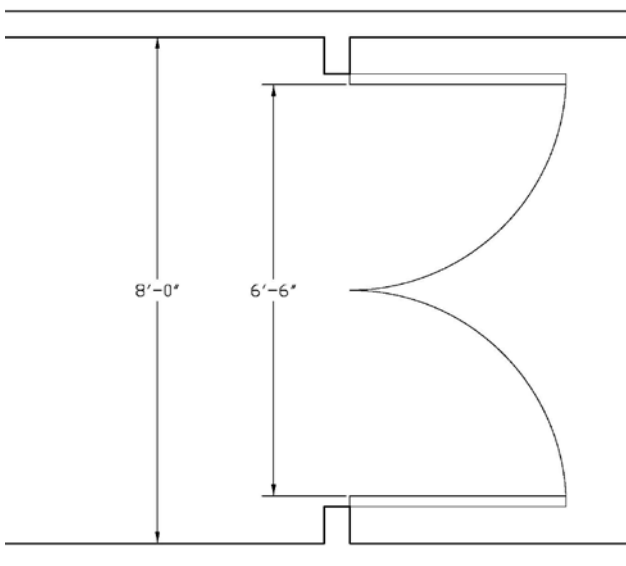
- **Size** – Maximum height is 12' 3 1/4". Maximum width is 30'.
- **Fire Rating** – Fire ratings up to 3 hours are available.
- **Security** – Access control option available.
- **Vision Panels** – One vision panel is the maximum allowed.
- **Fire Exit Hardware** – One set of Exit Hardware is included. Additional available.
- **Air Pressure** – Maximum of 0.1" W. C. is allowed. (Additional equipment is required)
- **Pocket Cover Door** – The pocket cover door is integrated into the lead post.
- **Smoke Rating** – UL 1784 Smoke Label.
- **For more information:** [www.crosscorridor.com](http://www.crosscorridor.com)



Standard Horizontal Sliding Fire Door



Won-Door Fireguard CC/CS



Standard Cross Corridor Firedoors

#### POCKET DEPTH CALCULATION CHART

| Fire Guard CC/CS                                      |        |              |
|-------------------------------------------------------|--------|--------------|
| Clear Opening Width                                   |        | Pocket Depth |
| From                                                  | To     |              |
| 3' 0"                                                 | 8' 0"  | 1' 6"        |
| 8' 0"                                                 | 8' 10" | 1' 7"        |
| 8' 10"                                                | 10' 7" | 1' 8"        |
| 10' 7"                                                | 11' 6" | 1' 9"        |
| 11' 6"                                                | 12' 0" | 1' 10"       |
| Widths up to 30' and heights up to 12' are available. |        |              |

Pocket depths are subject to change. Please contact your local Won-Door District Manager or go to [www.wondoor.com](http://www.wondoor.com)

# WON-DOOR FIREGUARD™ CC/CS

## Cross Corridor/Compressed Stack



## SPECIFYING WON-DOOR FIREGUARD™ CC/CS Fire Doors

### 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.

- Integrated pocket cover door
- 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
- Greatly reduced stack space increases useable space
- Meets all egress requirements set forth by IBC and NFPA
- Access control options available
- Costs 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.
- Complete information including specifications, architectural details and contact information can be found 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 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.



## WON-DOOR CORPORATION

Salt Lake City, UT | 800.453.8494 | [www.wondoor.com](http://www.wondoor.com) | [sales@wondoor.com](mailto:sales@wondoor.com)