

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB	
PROJECT NAME	
8274 BIG BEND BLVD	
ADDRESS	
NUMBER	
WEBSTER UNIVERSITY	
OWNER	
CANNON DESIGN	
ARCHITECT / ENGINEER	
DEVIN D GATES	
SUBMITTED BY	
083333-001	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
	083333
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
	CRITICAL

ITEM BEING SUBMITTED (check only one)

- | | | |
|---|--|--|
| ☐ Shop Drawings | ☐ Certification / Qualifications | ☐ Coordination Drawing |
| ☐ Samples (____ copies) | ☒ Record Documents | ☐ Calculations |
| ☐ LEED Submittal | ☐ Product Data | ☐ Schedules |
| ☐ Other _____ | ☐ O&M Manuals | |

ITEM BEING SUBMITTED FOR (check only one)

- ☒ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

Approval needed by 11/4/16 to meet schedule.

CONTRACTOR / CM CERTIFICATION (SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:

Devin D. Gates

DEVIN D GATES	10/19/16
REVIEWED BY	DATE

To be completed by Reviewer

08 3333-001
CANNON DESIGN SUBMITTAL NUMBER
11/2/16
RECEIVED DATE

- ☐ A. No Exceptions Taken
No further review of submittal is required.
- ☒ B. Make Corrections Noted
Incorporate corrections in work; resubmission is not required.
- ☐ C. Revise and Resubmit
Revise as noted, and resubmit for review.
- ☐ D. Rejected
Submittal is not in compliance with Contract Documents; provide new submittal.
- ☐ E. For Record / Information Only
Submittal was reviewed for Record / Information purposes only.
- ☐ F. Not Required for Review
Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

Provide Testing information per specification 083333,1.4,C.

Provide ICC Evaluation Service report per specification 08333,1.3,A.2.

Provide Warranty information at closeout.

Kelvin Patel	11/7/16
REVIEWED BY	DATE

Digitally signed by Kelvin Patel
DN: cn=US, E=kpatel@cannondesign.com, O=Cannon Design,
OU=Architect, CN=Kelvin Patel
Date: 2016.11.07 18:08:56-06'00'

Intertek

AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report(s). This authorization also applies to the Multiple Listee model(s) identified on the correlation page of the Listing Report. This document is the property of Intertek Testing Services and is not transferable. The Certification Mark(s) may be applied only at the location of the Party Authorized to Apply Mark.

Applicant: McKeon Rolling Steel Door Company, Inc.
44 Sawgrass Drive
Bellport NY 11713

Country:

Contact: Andrew Lambridis

Phone: 631-803-3000

Fax: 631-803-3030

Email: lambridis@mckeondoor.com

Party Authorized to Apply Mark: See following page(s)

Evaluation Center: Intertek (Middleton)

Control/Client Number: 203843

Authorized By: 

Thomas J. Patterson, Director of Certification

Intertek Testing Services NA, Inc.
545 E. Algonquin Road, Ste H, Arlington Heights, IL 60005 USA
Phone 847-439-5667 Fax 847-439-7320



Intertek

This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Testing Standard(s):	:UBC 7-2 (1994):NFPA 252 (1999):ASTM E152-81AE02:CAN / ULC S104 1980 (R1985):UL 1784 (2009):UL 10(b) (2009):CAN / ULC S104 (2010):NFPA 252 (2012)
Product:	McKeon Series S4000, S9000 and S7000 Side Coiling and Side Acting Steel Fire Door (Slats) with or without Integral Proprietary Swing Doors

ATM for Report 14376-231, J99013592-231, 3064271,
3095113 100904711-MD-001R3, Letter Report 101852247

ATM Issue Date: 11/05/2014

Listing Section(s): DOORS - ROLLING STEEL

SMOKE CONTROL DOOR ASSEMBLIES

CSI Code: 08 10 00 Doors and Frames

Description:
FIRE RESISTANT PRODUCTS & COMPONENTS

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MCKEON DOOR COMPANY

DOORS - ROLLING STEEL

Products Covered

- S4000, S9000 and S7000 models are non-insulated and only fire rated.
- S4000-IS, S9000-IS and S7000-IS models are insulated and fire rated but not temperature rise rated.
- S4000-TR, S9000-TR and S7000-TR models are insulated, temperature rise rated, and fire rated.

Product Description

Horizontally sliding, side coiling, side acting, vertical slat coil fire door assembly with or without integral swinging doors. Can be coil on one side or center parting. Steel stud drywall or masonry construction. May incorporate vision panels.

Rating

Maximum 3 Hours

Models S4000-TR, S9000-TR and S7000-TR also qualify for the following temperature rise ratings:

- 450 degree Fahrenheit maximum temperature rise rating at 30 minutes when two units are installed back to back on both the inner and outer side of a masonry or drywall opening.
- 650 degree Fahrenheit maximum temperature rise rating at 30 minutes when used singly in a masonry or drywall opening.
- Please note, if an Integral Proprietary Swinging Door is used in conjunction with the McKeon Series S4000-TR, S9000-TR, or S7000-TR Side Coiling and Side Acting Steel Fire Doors, the integral swinging doors must also bear a temperature rise rating equal to or better than the respective temperature rise ratings noted above.

SIZE LIMITATIONS

Certification Procedure	Maximum Area	Maximum Height	Maximum Width
LABEL	135 sq ft	10 ft	13.5 ft
CERTIFICATE/LABEL	unlimited*	unlimited*	unlimited*

*The AHJ may approve "oversize" doors with no size limitation based on an oversized certificate/label that states the door supplied is constructed in accordance with the certified design except for the size.

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**Party(s) Authorized by
Manufacturer To Apply Mark:**

None

**Party(s) Authorized by Other Parties To Apply
Mark:**

None



KEY SWITCH CONTROL STATION



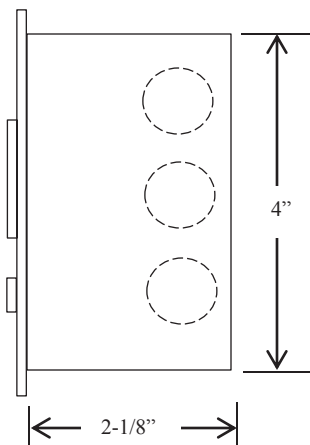
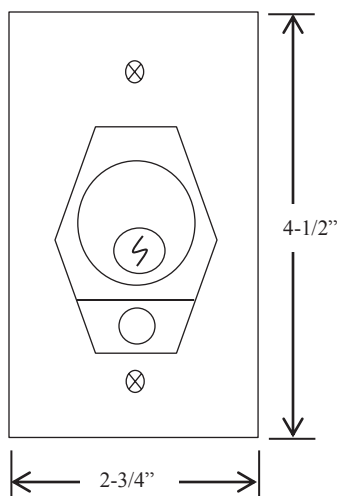
HBFS

KEYED CONTROL

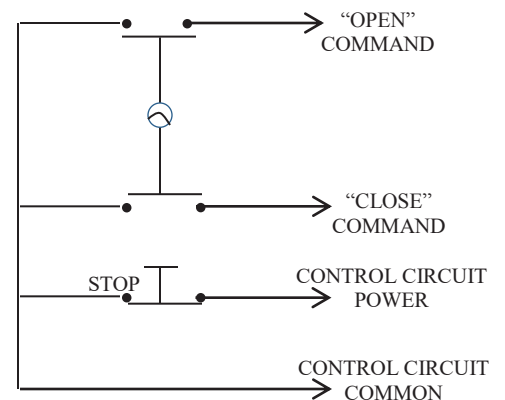
- NEMA 1
- FLUSH MOUNT
- TAMPER-PROOF
- TWO POSITION (OPEN-CLOSE) WITH STOP BUTTON
- CENTER RETURN
- SINGLE GANG BACK BOX
- STAINLESS STEEL FACEPLATE
- CYLINDER: MORTISE TYPE (5 PIN)
1-1/8" DIAMETER X 1" LENGTH
- KEYSWITCH: 15 amp @ 125/250VAC

AVAILABLE WITH BEST CORE CYLINDER OR EQUIVALENT, SLF TYPE LARGE FORMAT EQUIVALENT, CC (CHANGEABLE CYLINDER) VERSION

DIMENSIONS



WIRING



230 Route 206, Suite 206
Flanders, NJ 07836
(800) 942-6682 * (973) 584-6682 Fax
info@mmtcinc.com

The Intertek logo consists of the word "Intertek" in white, sans-serif font, centered within a blue rounded rectangle.

LISTING INFORMATION OF McKeon Series S4000, S9000 and S7000 Side Coiling and
Side Acting Steel Fire Door (Slats) with or without Integral Proprietary Swing Doors

SPEC ID: 29541

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MCKEON DOOR COMPANY

McKeon Rolling Steel Door Company, Inc.
44 Sawgrass Drive
Bellport, NY 11713

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FIRE RESISTANT PRODUCTS & COMPONENTS**DOORS - ROLLING STEEL****Products Covered**

- S4000, S9000 and S7000 models are non-insulated and only fire rated.
- S4000-IS, S9000-IS and S7000-IS models are insulated and fire rated but not temperature rise rated.
- S4000-TR, S9000-TR and S7000-TR models are insulated, temperature rise rated, and fire rated.

Product Description

Horizontally sliding, side coiling, side acting, vertical slat coil fire door assembly with or without integral swinging doors. Can be coil on one side or center parting. Steel stud drywall or masonry construction. May incorporate vision panels.

Rating

Maximum 3 Hours

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Models S4000-TR, S9000-TR and S7000-TR also qualify for the following temperature rise ratings:

- 450 degree Fahrenheit maximum temperature rise rating at 30 minutes when two units are installed back to back on both the inner and outer side of a masonry or drywall opening.
- 650 degree Fahrenheit maximum temperature rise rating at 30 minutes when used singly in a masonry or drywall opening.
- Please note, if an Integral Proprietary Swinging Door is used in conjunction with the McKeon Series S4000-TR, S9000-TR, or S7000-TR Side Coiling and Side Acting Steel Fire Doors, the integral swinging doors must also bear a temperature rise rating equal to or better than the respective temperature rise ratings noted above.

SIZE LIMITATIONS

Certification Procedure	Maximum Area	Maximum Height	Maximum Width
LABEL	135 sq ft	10 ft	13.5 ft
CERTIFICATE/LABEL	unlimited*	unlimited*	unlimited*

*The AHJ may approve "oversize" doors with no size limitation based on an oversized certificate/label that states the door supplied is constructed in accordance with the certified design except for the size.

Attribute

Value

Criteria

UBC 7-2 (1994)

Criteria	NFPA 252 (1999)
Criteria	ASTM E152-81AE02
Criteria	CAN / ULC S104 1980 (R1985)
Criteria	UL 1784 (2009)
Criteria	UL 10(b) (2009)
Criteria	CAN / ULC S104 (2010)
Criteria	NFPA 252 (2012)
CSI Code	08 10 00 Doors and Frames
Fire Resistance	3 Hour Fire Rated
Intertek Services	Certification
Listed or Inspected	LISTED
Listing Section	DOORS - ROLLING STEEL
Listing Section	SMOKE CONTROL DOOR ASSEMBLIES
Report Number	14376-231, J99013592-231, 3064271, 3095113 100904711-MID-001R3, Letter Report 101852247
Spec ID	29541
Temperature Rise	@ 30 Min = 650° F MAX Where Lites Do Not Exceed 100 IN2
Temperature Rise	@ 30 Min = 450° F MAX Where Lites Do Not Exceed 100 IN2
Verification Testing	No

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McKEON

Safescape S9000 Series

RETRACTABLE SIDE COILING FIRE DOOR SYSTEMS **WITH EMERGENCY EGRESS**

Pocket cover doors are not required, but they may be used to aesthetically conceal the McKeon S9000 fire doors. When properly done, they add to the continuity of the project and provide anonymity to the installation. McKeon Door Company, does not manufacture or install pocket cover doors, therefore they should be specified in a specification section other than of McKeon Safescape fire doors. Unless specifically required by the authority having jurisdiction, pocket doors need not be fire rated. The thickness and covering material is at the discretion of the designer. Many covering materials have been used successfully including plastic laminates, wood veneers, vinyl, paint, bronze, stainless steel and marble. The aggregate thickness of the pocket cover door and frame, however, must be added to the calculation of the pocket depth.

Some basic criteria for the successful design of pocket cover doors is as follows:

1. Doors must be side hinge swinging and must swing at least 180 degrees. When in the open position, pocket cover doors may not encroach on the 12" clear minimum opening width required for the pocket.
2. Doors must be operable with less than 20 lbs. of lateral force. As the Side Coiling Fire Door is activated, the leading edge will make contact with the cover door and push it open. 20 lbs. is the normal operating force required for egress-type swinging doors and only if unusual door weight is involved would special care need to be taken.
3. Pocket cover doors should remain held in the open position when activated so as not to obstruct the path of the Side Coiling Fire Door.
4. McKeon Door Company, recommends a spring-type hinge be specified such as a Stanley #2060R to hold pocket cover doors open when activated. These hinges allow the spring action to be manually reversed so that the pocket cover door becomes self-opening rather than self-closing. Pocket cover doors without spring-type hinges may swing back into the operating path of the Side Coiling Fire Door and cause damage or obstruct emergency operation.
5. A magnetic catch can serve to keep the pocket cover door in the closed position when the Side Coiling Fire Door is not in use. Positive latches such as hooks or throw bolts are not permitted because they impair the ability of the Side Coiling Fire Door to push the pocket cover door open.
6. A door frame is not required although one may be used. For aesthetic considerations, however, a "frame less" design leaves only two slight reveals at the door edges and provides a less noticeable pocket cover door installation.

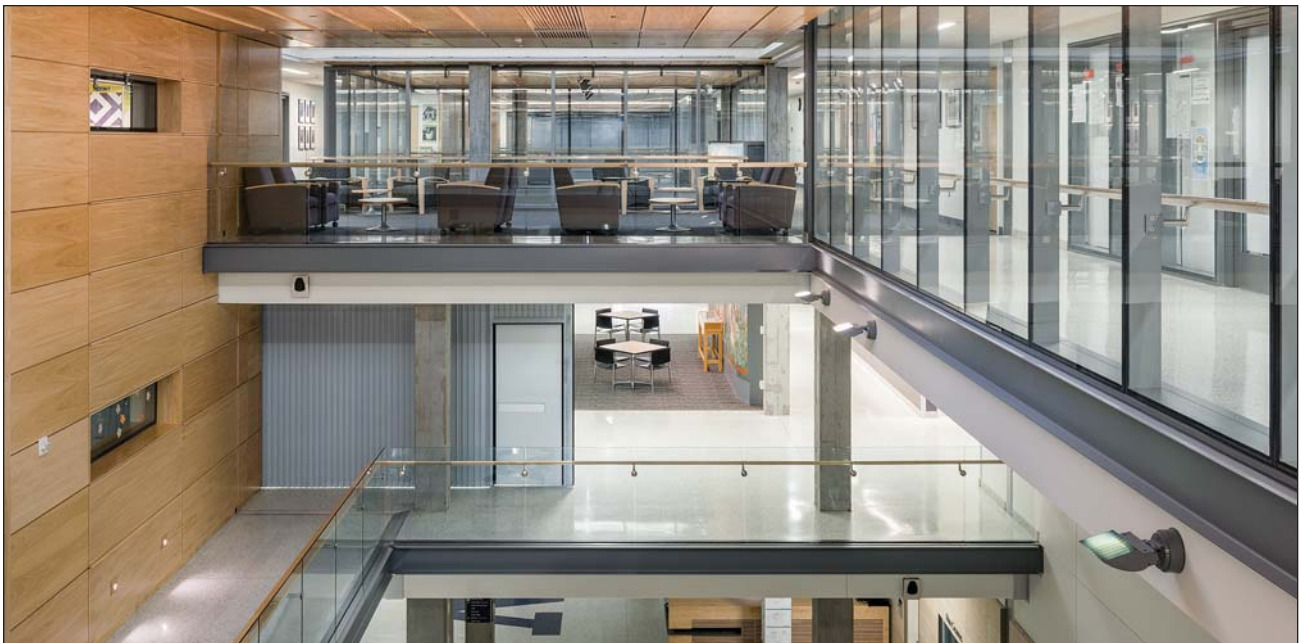


Side Coiling with Fixed Egress

SAFESCAPE® S9000 Series

The Safescape® S9000 Series fire door system is a side coiling fire and smoke rated door with one or multiple integral swing type egress doors, a complying method of egress. The side coiling design makes this product ideal for openings in rated walls where headroom clearance is limited and enables the assembly to navigate around tight curves and contoured openings.

Safescape® Model 9000 | Side Acting Fire Door with One Fixed Egress Door



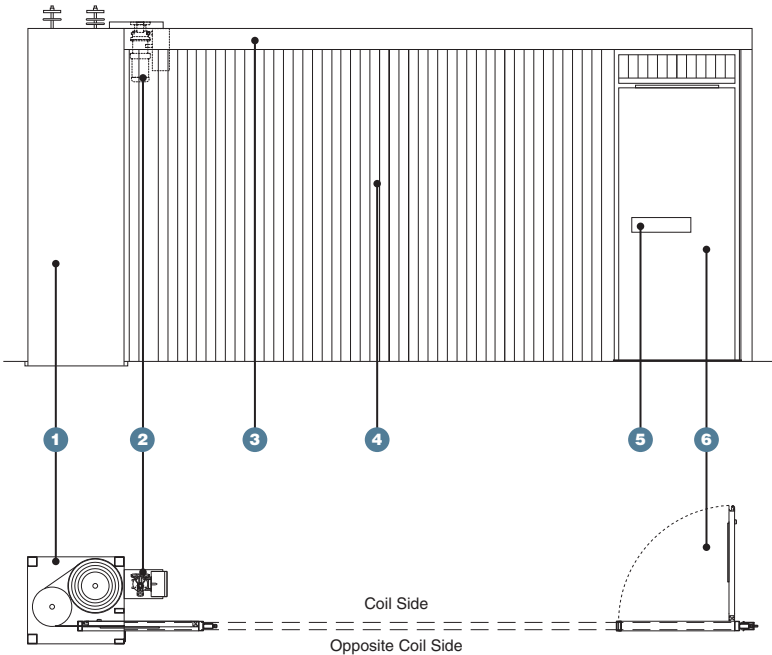
When the Safescape® S9000 fire door assembly is in the activated or fully closed position, egress is still possible through a complying egress door located at the leading edge.



Incorporating conventional egress swing doors with fire exit hardware, the Safescape® S9000 fire door can easily negotiate a 3' radius curve.

S9000 with Fixed Egress: Main Components

- | | |
|----------------------------|------------------------|
| 1 Coil Box | 4 Curtain Slats |
| 2 Fire Door Motor Operator | 5 Fire Exit Hardware |
| 3 Head Track | 6 Swinging Egress Door |



Note: Egress doors may swing in opposite directions.

Product Features

Ratings

3-hour rated UL 10B*

Smoke & Draft labeled UL 1784

Code Compliance

ESR 2219

ADA compliant

Egress

Single or multiple fixed complying egress doors available when required

Operation

Auto-Set® automatic resetting

Fail-Safe Design - automatic self-closing mechanism does not require power operation

Size

Widths to 80' (160' bi-parting), heights to 24'; for larger sizes and custom configurations consult the factory

Negotiates 3'-0" radius curves

Finishes

McKeon sterling gray

Powder coat

Stainless steel

*Listed under the Canadian equivalent CAN/ULC S104

MODEL	OPERATION		EGRESS	FUNCTION
	Open	Self-Close		
S9000	Auto-Set® Power Operator	Fail-Safe Mechanical	1 Complying Swing Door	Side Coiling
S9500	Auto-Set® Power Operator	Fail-Safe Mechanical	Multiple Complying Swing Doors	Side Coiling

This technology is the subject of U.S. Patent Nos. 5,245,879 - 5,355,927 - 5,542,460 - 5,673,514 - 5,893,234 - 8,307,877 - Additional Patents Pending



SIDE COILING FIRE & SMOKE RATED DOOR SYSTEMS WITH EGRESS

WITH
EGRESS

SAFESCAPE®

MODELS S9000 & S9500

PRODUCT DESCRIPTION: The Safescape S9000 Series Fire Door Systems are side coiling fire and smoke rated doors that incorporate integral swinging type doors to allow for egress. The side coiling design makes this product ideal for openings in fire walls where headroom clearance is limited. This Safescape Fire Door System is unique in that it's side acting design enable it to navigate around tight curves and contoured openings.

PRODUCT HIGHLIGHTS:

- Available with up to a 3 hour fire rating.
- Available as a Smoke & Draft rated assembly.
- Utilizes the Auto-Set® automatic resetting technology.
- Fail-Safe Design - does not require electricity or battery back-up systems when activated to the self-closing fire condition mode.
- Navigates around curved and contoured openings requiring only 3'-0" radius.
- Custom designed up to 30 feet in height and unlimited in width.
- Available without a floor track assembly.
- Requires only 7" of clearance for the head track assembly.
- Can be designed as a bi-parting fire door system.
- Available with either one or multiple swinging egress doors which are the preferred method for egress.
- Retracts into a side pocket when in the stored fire ready position and becomes virtually undetectable.



This product is covered under US Patents 5,542,460 - 5,605,185 - 5,673,514 - 5,893,234

www.McKeonDoor.com

tel: 800.266.9392 • 631.803.3000 • email: info@mckeondoor.com

DH PACE
Brian Jaeger – Commercial Sales
12046 Lackland, Maryland Heights, MO 63146
(314) 304-0223 Cell (314) 781-5200 Office
Email: brian.jaeger@dhpace.com

DATE: Monday, October 03, 2016

Attn: **PARIC**
PROJECT: **Webster University Interdisciplinary Science Bldg.**
Webster Groves, MO

DH Pace is furnishing four (4) **Model S9000-G** Side Coiling Fire Doors, under spec section 083333 for this project

Please note the assembly weights for each unit because the (4) Overhead Coiling Tornado & Hurricane Resistant Doors are very heavy!

Please note that the building design has the aforementioned fire door systems located mostly **behind** the finished walls and ceilings.

Please remind your customer that some of the sub-framing and all of the finished walls & ceilings and adjacent non-structural building fixtures need to be installed **after** the fire door units have been erected.

The door systems are factory-finished products and have a long production lead-time of approximately 9-11 weeks (depending on production capacity) AFTER all submittal items are approved and all final sizes and conditions are verified.

Based on the aforementioned information, please insure that the submittal review process and project schedule are carefully coordinated with DH Pace and your customer. Our aim is to eliminate conflicts with other building material that will need to be installed AFTER the door systems are erected.

Thank you for your understanding and attention to this important matter. If you have any questions or comments, please do not hesitate to contact me.

Sincerely,

Brian Jaeger
DH Pace
Commercial Sales

[Type here]