

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND BUILDING PERMIT



This is to certify that <u>2301 CONGRESS STREET REALTY</u> <u>LLC - MPX</u> Located At 2301 CONGRESS ST

CBL: 238A- A-004-001

Job ID: 2012-06-4355-ALTR

has permission to <u>Renovate the main level office tenant space of MPX.</u>, add exterior canopies at entrances provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED. A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No: 2012-06-4355-ALTR	Date Applied: 6/28/2012		CBL: 238A- A-004-001			
Location of Construction: 2301 CONGRESS ST MPX	Owner Name: 2301 CONGRESS REAL	TYLLC	Owner Address: 2301 CONGRESS S PORTLAND, ME (ST		Phone:
Business Name:	Contractor Name: GREAT FALLS CONSTRUCTION		Contractor Address: 20 MECHANIC ST GORHAM MAINE 04038			Phone: (207) 839-2744
Lessee/Buyer's Name: MPX	Phone:		Permit Type: BLDG - Building			Zone: I-M
Past Use: Office space	Proposed Use: Same: Office space – renov space with new partitions, flooring, ceiling, plumbing electrical		Cost of Work: \$40,000.00 Fire Dept: 		CEO District: Inspection: Use Group: B Type: ZB DBC 2009 Signature: B MB	
Proposed Project Description: renovate space for office Permit Taken By: Gayle				Zoning Approv		7/23/12
 This permit application de Applicant(s) from meeting Federal Rules. Building Permits do not in septic or electrial work. Building permits are void within six (6) months of th False informatin may inva- permit and stop all work. 	g applicable State and nclude plumbing, if work is not started he date of issuance.	Special Zo Shorelan Wetland: Flood Zo Subdivis Site Plan Maj Date:	s one ion	Zoning Appeal Variance Miscellaneous Conditional Use Interpretation Approved Denied Date:	Not in D Does not Requires Approve	

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE

7-30-12 David Dave Underslabs plumbing OK 8-21-12 DWM/BKL Arron 615-9803 Close-in Provide Instand books for data at raded walls, Plumb OK, Revenwood raded wall demily 10-17-12 DWM/BKL Baron Above cerling OK. 10-24-12 DWM/BKL/CaptiPirone Aaron Bldg Provide glazing demil as per A1.1. Elect OK, Fire OK 10-25-12 DWM Rec'd Sorructual Engineers design for Glazing, Final OK BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 or 874-8693 (ONLY) or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

Close In Elec/Plmb/Frame prior to insulate or gyp

Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Jeff Levine

Job ID: 2012-06-4355-ALTR

Located At: 2301 CONGRESS ST

CBL: 238A- A-004-001

Conditions of Approval:

Zoning

- 1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
- 2. Separate permits shall be required for any new signage.

Building

- 1. Application approval based upon information provided by the applicant or design professional. Any deviation from approved plans requires separate review and approval prior to work.
- 2. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM E 814 or UL 1479, per IBC 2009 Section 713.
- 3. Equipment shall be installed in compliance with the manufacturer's specifications and the UL listing.
- 4. The glazed wall panels shall meet the loading requirements of IBC Sec. 2403 and Chap. 16.
- Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.

Fire

- 1. All construction shall comply with City Code Chapter 10.
- 2. See also permit 2012-06-4356-ALTCOMM.
- 3. The new door in the new 60-minute fire rated wall assembly enclosing the bottom of the existing stair shown on plan AA1.0 shall be a 60-minute fire rated assembly (101:8.3.4.2).
- 4. This permit is being approved on the basis of the plans submitted. Any deviation from the plans would require amendments and approval.
- 5. Application requires State Fire Marshal approval.
- Street addresses shall be marked on the structure and shall be as approved by the City E-911 Addressing Officer. Contact Michelle Sweeney at 874-8682 for further information.
- 7. Any Fire alarm or Sprinkler systems shall be reviewed by a licensed contractor(s) for code compliance. Compliance letters are required.

Job ID: 2012-06-4355-ALTR

Located At: 2301 CONGRESS ST CBL: 238A- A-004-001

- 8. A separate Fire Alarm Permit is required. This review does not include approval of fire alarm system design or installation.
- 9. Fire Alarm system shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576.
- 10. The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.
- 11. All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".
- 12. Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.
- 13. All smoke detectors and smoke alarms shall be photoelectric.
- 14. The sprinkler system shall be installed in accordance with NFPA 13.
- 15. A separate Suppression System Permit is required. This review does not include approval of sprinkler system design or installation.
- 16. Sprinkler supervision shall be provided in accordance with NFPA 101, *Life Safety* Code, and NFPA 72, *National Fire Alarm and Signaling Code*.
- 17. Sprinkler protection shall be maintained. Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the system has been placed back in service.
- 18. The Fire Department will require Knox locking caps on all Fire Department Connections on the exterior of the building.
- 19. System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
- 20. A Knox Box is required.
- 21. A firefighter Building Marking Sign is required.
- 22. Private fire mains and fire hydrants shall be maintained, tested and painted in accordance with Fire Department Regulations.
- 23. Fire extinguishers are required per NFPA 1.
- 24. Occupancies with an occupant load of 100 persons or more require panic hardware on all doors serving as a means of egress.
- 25. Emergency lights and exit signs are required. Emergency lights and exit signs are required to be labeled in relation to the panel and circuit and on the same circuit as the lighting for the area they serve.
- 26. Any cutting and welding done will require a Hot Work Permit from Fire Department.
- 27. Walls in structure are to be labeled according to fire resistance rating. IE; 1 hr. / 2 hr. / smoke proof.
- 28. A single source supplier should be used for all through penetrations.
- 29. Non-combustible construction of this structure requires all construction to be Noncombustible.



General Building Permit Application

2012 06 4355

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 230)	Congress St / MPX
Total Square Footage of Proposed Structure/A 13,570 SF	rea Square Footage of Lot Lot is existing.
Tax Assessor's Chart, Block & Lot	Applicant *must be owner, Lessee or Buyer* Telephone:
Chart# Block# Lot#	Name Great Falls Construction
238 A A004	Address 20 Mechanic St 207-839-2744
as of hooy	City, State & Zip Gornam, ME 04038
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Cost Of
	Name 301 Congress sealing 400,000
MAX	Address JUN 2 8 2012 C of O Fee: \$
	City, State & Zip Dept. of Building Inspections Total Fee: \$
Current legal use (i.e. single family) OFFIC	City of Portland Maine
If vacant, what was the previous use? <u>OFFI</u>	
Proposed Specific use: OFFICE SPACE	E, WARE HOUSE
Is property part of a subdivision?	
	bor office space. Includes new wall und, Ceiling, Plumbing, Electrical
Partitions, Fluormy, Pu	und, Ceiling, Plumbing, Electrical
	Office to Office
Contractor's name: Great Falls Ce	
Address: 20 Mechanic St	
City, State & Zip Gorham, ME	04038 Telephone: 207-839-2744
Who should we contact when the permit is read	y: Aavon Bourassa Telephone: 207-615-9803
Mailing address: 20 Mechanic Stra	eet, Gorham, ME 04038

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

		-	
Signature:		Date:	6/27/12

This is not a permit; you may not commence ANY work until the permit is issue



Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Receipts Details:

Tender Information: Check , BusinessName: Great Falls Construction, Check Number: 24362 **Tender Amount:** 4020.00

Receipt Header:

Cashier Id: gguertin Receipt Date: 6/28/2012 Receipt Number: 45457

Receipt Details:

7078	Fee Type:	BP-Constr
0	Payment Date:	
4020.00	Charge Amount:	4020.00
2-06-4355-ALTR - renovate space for office		· ·
	0 4020.00	0Payment Date:4020.00Charge

Thank You for your Payment!

RECEIVED

JUL 1 8 2012

Dept. of Building Inspections

City of Portland Maine



STATE OF MAINE - DEPARTMENT OF PUBLIC SAFETY OFFICE OF STATE FIRE MARSHAL 45 COMMERCE DR STE 1 AUGUSTA, ME 04333-0001

Construction Permit

No.20817

In accordance with the provisions of M.R.S.A. Title 25, Chapter 317, Sec.317 and Title 5, Section 4594-F, permission is hereby granted to construct or alter the following referenced building according to the plans hitherto filed with the Commissioner and now approved. No departure from application form/plans shall be made without prior approval in writing. Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions.

Each permit issued shall be displayed at the site of construction.

Building:	2301 CONGRESS STREET
Location:	2301 CONGRESS ST, PORTLAND, ME 04102-1907
Owner:	2301 CONGRESS STREET
Owner Address:	2301 CONGRESS ST, PORTLAND, ME 04102-1907
	Occupancy Type: Storage
	Secondary Use: Business
	Use Layout: Separated Use

Supervised Sprinkler System Monitored Fire Alarm System Barrier Free Construction Mode: Renovation Unprotected Noncombustable: Type II (000) Final Number of Stories: 2

Permit Date:

06/28/2012

Expiration Date: 12/27/2012

John E Morus

COMMISSIONER OF PUBLIC SAFETY

Copy 2 - Architect



2301 Congress Street, Portland, ME Investigation and Evaluation report

Hans D. Strauch, LEED AP, AIA Principal HDS ARCHITECTURE, INC. 625 Mt. Auburn Street Cambridge, MA 02138

Date: July 20, 2012

Prepared By: Doug Anderson

Project Scope

The proposed project is a reconstruction of the entire building, including preparation of the warehouse space and construction of the office spaces.

The following code summary is based on permit plans dated June 15, 2012.

Applicable Codes

Code Type	Applicable Code (Model Code Basis)
Life Safety Code	2009 NFPA 101, Life Safety Code, amended by State of Maine
Portland FD Rules and Regulations	City of Portland Ordinances

Building Overview

Existing Occupancy:	Warehouse, Business
Proposed Occupancy:	same with Assembly (conference room >50)

LSC

Only those provisions applicable to this project are addressed in this report.

Chapter 13, New Assembly Occupancies Chapter 39, Existing Business Occupancies Chapter 42, Existing Storage Occupancies Chapter 43, Building Rehabilitation Other chapters as referenced by the above

6.1.14.3 Mixed Occupancies.

6.1.14.3.1 Each portion of the building shall be classified as to its use in accordance with Section 6.1.6.1.14.3.2 The means of egress facilities, type of construction, protection, and other safeguards in the building shall comply with the most restrictive fire and life safety requirements of the occupancies involved.

313 Congress Street, Boston, MA 02210 617.330.9390 617.330.9383 fax www.c3boston.com



STATE OF MAINE - DEPARTMENT OF PUBLIC SAFETY OFFICE OF STATE FIRE MARSHAL 45 COMMERCE DR STE 1 AUGUSTA, ME 04333-0001

Construction Permit

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In accordance with the provisions of M.R.S.A. Title 25, Chapter 317, Sec.317 and Title 5, Section 4594-F, permission is hereby granted to construct or alter the following referenced building according to the plans hitherto filed with the Commissioner and now approved. No departure from application form/plans shall be made without prior approval in writing. Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions.

Each permit issued shall be displayed at the site of construction.

Deumit Dotos	06/28/2012	Expiration Data:	12/27/2012
	Secondary Use: Busin Use Layout: Separate Supervised Sprinkler S Monitored Fire Alarm Barrier Free Construction Mode: F Unprotected Noncomb Final Number of Storie	d Use System System Renovation pustable: Type II (000)	
	Occupancy Type: Sto		
Owner Address:	2301 CONGRESS ST	, PORTLAND, ME 04102-1907	
Owner:	2301 CONGRESS ST	REET	
Location:	2301 CONGRESS ST	, PORTLAND, ME 04102-1907	
Building:	2301 CONGRESS ST	REET	

Permit Date:

06/28/2012

Expiration Date: 12/27/2012

John E Morus

COMMISSIONER OF PUBLIC SAFETY

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6.1.14.3 Mixed Occupancies.

6.1.14.3.1 Each portion of the building shall be classified as to its use in accordance with Section 6.1. 6.1.14.3.2 The means of egress facilities, type of construction, protection, and other safeguards in the building shall comply with the most restrictive fire and life safety requirements of the occupancies involved.

313 Congress Street, Boston, MA 02210 617.330.9390 617.330.9383 fax www.c3boston.com



Analysis: As each parameter is reviewed, the more/most restrictive requirement applies.

43.1.2 Applicable Requirements.

- 43.1.2.1 Any building undergoing repair, renovation, modification, or shall comply with both of the following:
 - (1) Requirements of the applicable existing occupancy chapters
 - (2) Requirements of the applicable section of this chapter (see Sections 43.3, 43.4, 43.5, and 43.6)

Analysis: The proposed project must comply with the provisions applicable to each existing or new occupancy; and the provisions of Building Rehabilitation of Chapter 43.

43.2.2.1.4 Reconstruction. The reconfiguration of a space that affects an exit or a corridor shared by more than a single tenant; or the reconfiguration of a space such that the rehabilitation work area is not permitted to be occupied because existing means of egress and fire protection systems, or their equivalent, are not in place or continuously maintained.

Analysis: The proposed project is a Reconstruction. Provisions for Renovations and Modifications must also be met.

Construction Type

12.1.6 Minimum Construction Requirements. Assembly occupancies shall be limited to the construction types specified in Table 12.1.6, based on the number of stories in height as defined in Section 4.6.3, unless otherwise permitted by the following (see 8.2.1.):

Analysis: The building is a Type II (000) building with a sprinkler system.

In accordance with Table 12.1.6, the Assembly use is permitted provided the assembly spaces are limited to an occupant load of 300. One conference room will have 54 occupants; there are no other assembly-type spaces with more than 50 occupants.

There are no requirements for Business or Storage uses.

Conclusion: The building is compliant with these provisions.

Means of Egress

12.2.1 General. All means of egress shall be in accordance with Chapter 7 and this chapter.

43.6.2.2 Capacity of Means of Egress. The capacity of means of egress, determined in accordance with Section 7.3, shall be sufficient for the occupant load thereof, unless one of the following conditions exists:

- (1) The authority having jurisdiction shall be permitted to establish the occupant load as the number of persons for which existing means of egress is adequate, provided that measures are established to prevent occupancy by a greater number of persons.
- (2) The egress capacity shall have been previously approved as being adequate.

Analysis: The occupant loads and means of egress capacities will be determined via calculation.



Occupant Load: The occupant load for each floor was calculated in accordance with Section 7.3.1.2. The tables are as follows: 0

Floor	Area	Floor Area (ft ²)	Floor Area Per Occupant (ft²/occupant)	Occupant Load
	Warehouse	19,129	500 gross	39
1		I	Total for floor	39
	Offices	12,250	100 gross	123
20	Conference Rooms, etc.	1,320	15 net	88
	Auditorium		Fixed seats	54
	Weater Contraction of the Contra		Total for floor	265
2.111	Warehouse	43,940	500 Gross	88
2 W		· · · · · · · · · · · · · · · · · · ·	Total for floor	88

ccupant	Load	(RILSC	Section	7.3.1.2)

The number of required exits is shown below.

Number of Exits	(RILSC Section 7.4.1.2)	
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Floor	Occupant Load	Required Number of Exits	Number of Exits Provided
1	39	2	3
20	265	2	3
2 W	88	2	2

Analysis: Each story has an adequate number of exits.

Floor	Occupant Load	Exit Allowance (in/person)	-	acity Provided sons)	<u>Status</u>
		0.20 (0	Left Door 34"door/0.2=170	Center Door 34"door/0.2=170	
1	39	0.30 (Stair) 0.20 (Door)	Right Door 34"door/0.2=170		Compliant
			Total	= 510	
20		265 0.30 (Stair) 0.20 (Door)	Main Entrance 34"door/0.2=170	Side Door 34"door/0.2=170	
	265		Rear Door 34"door/0.2=170		Compliant
			Total	= 510	
2 W	88	0.30 (Stair)	Front Door 34"door/0.2=170	Rear Door 34"door/0.2=170	Complian
_		0.20 (Door)	Total per	Floor=340	

Exit Capacity (RILSC Section 7.3.3.1)

Analysis: The building has adequate egress capacity for the proposed occupant loads. Exit access travel distances are noted on the plans.



43.6.2.4 Illumination of Means of Egress.

43.6.2.4.1 Means of egress in rehabilitation work areas shall be provided with illumination in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy.

43.6.2.4.2 Where the reconstruction rehabilitation work area on any floor exceeds 50 percent of that floor area, means of egress throughout the floor shall be provided with illumination in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy, unless otherwise specified in 43.6.2.4.4.

43.6.2.4.3 In a building with rehabilitation work areas involving more than 50 percent of the aggregate floor area within the building, the means of egress within the rehabilitation work area and the means of egress, including the exit and exit discharge paths, serving the rehabilitation work area shall be provided with illumination in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy, unless otherwise specified in 43.6.2.4.4.

43.6.2.4.4 Means of egress within a tenant space that is entirely outside the rehabilitation work area shall be permitted to comply with the requirements for illumination applicable to the existing occupancy in lieu of the requirements for illumination required by 43.6.2.4.2 and 43.6.2.4.3.

Analysis: The project will comply with these provisions.

43.6.2.5 Exit Signs.

43.6.2.5.1 Means of egress in rehabilitation work areas shall be provided with exit signs in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy.

43.6.2.5.2 Where the reconstruction rehabilitation work area on any floor exceeds 50 percent of that floor area, means of egress throughout the floor shall be provided with exit signs in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy, unless otherwise specified in 43.6.2.5.4. 43.6.2.5.3 In a building with rehabilitation work areas involving over 50 percent of the aggregate floor area within the building, means of egress from the floor of the highest rehabilitation work area to the floor of exit discharge shall be provided with exit signs in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy, unless of the sections of this Code applicable to new construction for the occupancy, unless otherwise specified in 43.6.2.5.4.

43.6.2.5.4 Means of egress within a tenant space that is entirely outside the rehabilitation work area shall be permitted to comply with the requirements for exit signs applicable to the existing occupancy in lieu of the requirements for exit signs applicable to new construction required by 43.6.2.5.2 and 43.6.2.5.3.

Analysis: The project will comply with these provisions.

43.6.2.6 Handrails.

43.6.2.6.1 The requirements of 43.6.2.6.2 through 43.6.2.6.3 shall apply from the highest rehabilitation work area floor to the level of exit discharge.

43.6.2.6.2 Every required stairway that is part of the means of egress for any rehabilitation work area that is not provided with at least one handrail, or in which the existing handrails are judged to be in danger of collapsing, shall be provided with handrails for the full length of the run of stairs on at least one side.

43.6.2.6.3 Where there are no handrails or where the existing handrails must be replaced in accordance with 43.6.2.6.2, the handrails shall be designed and installed in accordance with the requirements of this Code applicable to new construction for the occupancy.

Analysis: The project will comply with these provisions.

43.6.2.7 Guards.

43.6.2.7.1 The requirements of 43.6.2.7.2 and 43.6.2.7.3 shall apply from the highest rehabilitation work area floor to the level of exit discharge but shall be required to be applied only to the egress path of any rehabilitation work area.

43.6.2.7.2 Every open portion of a stair, landing, or balcony that is more than 30 in. (760 mm) above the floor or grade below and not provided with guards, or in which the existing guards are judged to be in danger of collapsing, shall be provided with guards.



43.6.2.7.3 Where no guards exist, or where existing guards must be replaced in accordance with 43.6.2.7.2, the guards shall be designed and installed in accordance with the requirements of this Code applicable to new construction for the occupancy.

Analysis: The project will comply with these provisions.

Interior Finishes

12.3.3.3 Assembly Areas. Interior wall and ceiling finish materials complying with Section 10.2 shall be Class A or Class B in general assembly areas having occupant loads of more than 300 and shall be Class A, Class B, or Class C in assembly areas having occupant loads of 300 or fewer.

43.4.2 Interior Finish Requirements. New interior finish materials shall meet the requirements for new construction.

Analysis: The interior finishes will comply with the above requirements.

Fire Protection Systems

43.6.4 Extinguishing Systems.

43.6.4.1 In a building with rehabilitation work areas involving over 50 percent of the aggregate building area, automatic sprinkler systems shall be provided on the highest floor containing a rehabilitation work area and on all floors below in accordance with requirements of other sections of this Code applicable to new construction for the occupancy.

43.6.4.2 On any story with rehabilitation work areas involving over 50 percent of the area of the story, a sprinkler system shall be provided throughout the story in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy.

43.6.4.3 Where sprinklers are installed in an elevator hoistway or elevator machine room as part of the rehabilitation work, the elevators shall comply with the fire fighters' emergency operations requirements of ASME A17.1, Safety Code for Elevators and Escalators.

Analysis: The building will be fully sprinklered as part of the project. Standpipes are not required.

Fire Alarm Systems

Analysis: A fire alarm system will be provided in accordance with the building code, as the Life Safety Code does not require one for these occupancies.

M:_All Code\Code Projects 2012\2301 Congress Portland\2301 Congress LS code report 7-20-12.docx

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Occupant Load: The occupant load for each floor was calculated in accordance with Section 7.3.1.2. The tables are as follows:

Floor	Area	Floor Area (ft ²)	Floor Area Per Occupant (ft²/occupant)	Occupant Load
1	Warehouse	19,129	500 gross	39
1		1	Total for floor	39
	Offices	12,250	100 gross	123
20	Conference Rooms, etc.	1,320	15 net	88
	Auditorium		Fixed seats	54
			Total for floor	265
2 W	Warehouse	43,940	500 Gross	88
2 W			Total for floor	88

The number of required exits is shown below.

Number of Exits (RILSC Section	7.4.1.2	i.
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Floor	Occupant Load	Required Number of Exits	Number of Exits Provided
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20	265	2	3
2 W	88	2	2

Analysis: Each story has an adequate number of exits.

Floor	Occupant Load	Exit Allowance (in/person)	-	eacity Provided sons)	<u>Status</u>
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1	39	0.30 (Stair) 0.20 (Door)	Right Door 34"door/0.2=170		<u>Compliant</u>
			Total	= 510	
		0.00 (0. 1)	Main Entrance 34"door/0.2=170	Side Door 34"door/0.2=170	
20	265	0.30 (Stair) 0.20 (Door)	Rear Door 34"door/0.2=170		<u>Compliant</u>
			Total	= 510	
2 W	88	0.30 (Stair)	Front Door 34"door/0.2=170	Rear Door 34"door/0.2=170	Compliant
		0.20 (Door)	Total per	Floor=340	

Exit Capacity (RILSC Section 7.3.3.1)

Analysis: The building has adequate egress capacity for the proposed occupant loads. Exit access travel distances are noted on the plans.



43.6.2.4 Illumination of Means of Egress.

43.6.2.4.1 Means of egress in rehabilitation work areas shall be provided with illumination in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy.

43.6.2.4.2 Where the reconstruction rehabilitation work area on any floor exceeds 50 percent of that floor area, means of egress throughout the floor shall be provided with illumination in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy, unless otherwise specified in 43.6.2.4.4.

43.6.2.4.3 In a building with rehabilitation work areas involving more than 50 percent of the aggregate floor area within the building, the means of egress within the rehabilitation work area and the means of egress, including the exit and exit discharge paths, serving the rehabilitation work area shall be provided with illumination in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy, unless otherwise specified in 43.6.2.4.4.

43.6.2.4.4 Means of egress within a tenant space that is entirely outside the rehabilitation work area shall be permitted to comply with the requirements for illumination applicable to the existing occupancy in lieu of the requirements for illumination applicable to new construction required by 43.6.2.4.2 and 43.6.2.4.3.

Analysis: The project will comply with these provisions.

43.6.2.5 Exit Signs.

43.6.2.5.1 Means of egress in rehabilitation work areas shall be provided with exit signs in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy.

43.6.2.5.2 Where the reconstruction rehabilitation work area on any floor exceeds 50 percent of that floor area, means of egress throughout the floor shall be provided with exit signs in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy, unless otherwise specified in 43.6.2.5.4. 43.6.2.5.3 In a building with rehabilitation work areas involving over 50 percent of the aggregate floor area within the building, means of egress from the floor of the highest rehabilitation work area to the floor of exit discharge shall be provided with exit signs in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy, unless other sections of this Code applicable to new construction for the occupancy, unless other sections of this Code applicable to new construction for the occupancy, unless other sections of the sections of the sections of the occupancy, unless otherwise specified in 43.6.2.5.4.

43.6.2.5.4 Means of egress within a tenant space that is entirely outside the rehabilitation work area shall be permitted to comply with the requirements for exit signs applicable to the existing occupancy in lieu of the requirements for exit signs applicable to new construction required by 43.6.2.5.2 and 43.6.2.5.3.

Analysis: The project will comply with these provisions.

43.6.2.6 Handrails.

43.6.2.6.1 The requirements of 43.6.2.6.2 through 43.6.2.6.3 shall apply from the highest rehabilitation work area floor to the level of exit discharge.

43.6.2.6.2 Every required stairway that is part of the means of egress for any rehabilitation work area that is not provided with at least one handrail, or in which the existing handrails are judged to be in danger of collapsing, shall be provided with handrails for the full length of the run of stairs on at least one side.

43.6.2.6.3 Where there are no handrails or where the existing handrails must be replaced in accordance with 43.6.2.6.2, the handrails shall be designed and installed in accordance with the requirements of this Code applicable to new construction for the occupancy.

Analysis: The project will comply with these provisions.

43.6.2.7 Guards.

43.6.2.7.1 The requirements of 43.6.2.7.2 and 43.6.2.7.3 shall apply from the highest rehabilitation work area floor to the level of exit discharge but shall be required to be applied only to the egress path of any rehabilitation work area.

43.6.2.7.2 Every open portion of a stair, landing, or balcony that is more than 30 in. (760 mm) above the floor or grade below and not provided with guards, or in which the existing guards are judged to be in danger of collapsing, shall be provided with guards.



43.6.2.7.3 Where no guards exist, or where existing guards must be replaced in accordance with 43.6.2.7.2, the guards shall be designed and installed in accordance with the requirements of this Code applicable to new construction for the occupancy.

Analysis: The project will comply with these provisions.

Interior Finishes

12.3.3.3 Assembly Areas. Interior wall and ceiling finish materials complying with Section 10.2 shall be Class A or Class B in general assembly areas having occupant loads of more than 300 and shall be Class A, Class B, or Class C in assembly areas having occupant loads of 300 or fewer.

43.4.2 Interior Finish Requirements. New interior finish materials shall meet the requirements for new construction.

Analysis: The interior finishes will comply with the above requirements.

Fire Protection Systems

43.6.4 Extinguishing Systems.

43.6.4.1 In a building with rehabilitation work areas involving over 50 percent of the aggregate building area, automatic sprinkler systems shall be provided on the highest floor containing a rehabilitation work area and on all floors below in accordance with requirements of other sections of this Code applicable to new construction for the occupancy.

43.6.4.2 On any story with rehabilitation work areas involving over 50 percent of the area of the story, a sprinkler system shall be provided throughout the story in accordance with the requirements of other sections of this Code applicable to new construction for the occupancy.

43.6.4.3 Where sprinklers are installed in an elevator hoistway or elevator machine room as part of the rehabilitation work, the elevators shall comply with the fire fighters' emergency operations requirements of ASME A17.1, Safety Code for Elevators and Escalators.

Analysis: The building will be fully sprinklered as part of the project. Standpipes are not required.

Fire Alarm Systems

Analysis: A fire alarm system will be provided in accordance with the building code, as the Life Safety Code does not require one for these occupancies.

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FIRE ALARM AND EMERGENCY COMMUNICATION SYSTEM RECORD OF COMPLETION

1. PROPERTY INFORMATION

Name of property: MPX-SFX	
Address: 2275 CONGRESS STREET PORTLA	ND MAINE
Description of property: WAREHOUSE / OFFIC	
Occupancy type: STORAGE / BUSINESS	
Name of property representative:	
Address:	
Phone: Fax:	E-mail:
Authority having jurisdiction over this property:	PORTLAND FIRE DEPARTMENT
Phone: 207-874-8576 Fax:	E-mail:

2. INSTALLATION, SERVICE, AND TESTING CONTRACTOR INFORMATION

Installation	n contractor for this equipm	ent: P	rotection Profession	onals	
Address:	325 US Route One, Falm	outh, ME	04105		
License or	certification number:				
Phone:	207-775-5755	Fax:	207-781-2064	E-mail:	mail@protectionprofessionals.net
Service or	ganization for this equipme	nt: Pi	rotection Professio	onals	
Address:	325 US Route One, Faim	outh, ME	04105		
License or	certification number:				
Phone:	207-775-5755	Fax:	207-781-2064	E-mail:	mail@protectionprofessionals.net
A contract	for test and inspection in a	ccordance	with NFPA standards is i	n effect as	of:
Contracted	I testing company: Prote	ction Prof	essionals		
Address:	325 US Route One, Falmo	outh, ME	04105		
Phone:	207- 775-5755	Fax:	207-781-2064	E-mail:	mail@protectionprofessionals.net
Contract e	xpires:	Contract r	number:	Frequency	y of routine inspections: 1 / Year

3. DESCRIPTION OF SYSTEM OR SERVICE

☑ Fire alarm system	(nonvoice)		
□ Fire alarm with in	-building fire em	ergency voice	alarm communication system (EVACS)
Mass notification	system (MNS)		
Combination system	em, with the follo	wing compone	ents:
🗌 Fire alarm	□ EVACS	☐ MNS	Two-way, in-building, emergency communication system
Other (specify):			

-NFPA 72, Fig. 10:18:2,1 1 (p. 1 of 12)

3. DESCRIPTION OF SYSTEM OR SERVICE (continued)

1

,

NFPA 72 edition: 2010	Additional description of s	system(s):
3.1 Control Unit		
Manufacturer: SIEMENS CERBERU	JS-PRO	Model number: FC-901
3.2 Mass Notification System		☑ This system does not incorporate an MNS
3.2.1 System Type:		
□ In-building MNS—combination		
In-building MNS—stand-alone	UWide-area MNS Distributed	I recipient MNS
Other (specify):	and a standard form a first specific must fully be a standard standard standard standard	
3.2.2 System Features:		
Combination fire alarm/MNS	☐ MNS autonomous control unit	Wide-area MNS to regional national alerting interface
□ Local operating console (LOC)	Direct recipient MNS (DRMNS)	□ Wide-area MNS to DRMNS interface
UWide-area MNS to high-power spec	aker array (HPSA) interface 🔲 In-build	ding MNS to wide-area MNS interface
□ Other (specify):		
3.3 System Documentation		
\boxtimes An owner's manual, a copy of the n	nanufacturer's instructions, a written see	quence of operation, and a copy of
the numbered record drawings are	stored on site. Location: fire alarr	n document cabinet
3.4 System Software	⊠ This system	n does not have alterable site-specific software.
Operating system (executive) software	revision level:	· · · · · · · · · · · · · · · · · · ·
Site-specific software revision date:	Revision	completed by:
C 4		
A copy of the site-specific software	is stored on site. Location:	
3.5 Off-Premises Signal Transmission		stem does not have off-premises transmission.
	n 🗆 This sy	stem does not have off-premises transmission.
3.5 Off-Premises Signal Transmission	n 🗆 This sy	stem does not have off-premises transmission. Phone: 1-
3.5 Off-Premises Signal Transmission Name of organization receiving alarm	n 🗆 This sy	
3.5 Off-Premises Signal Transmission Name of organization receiving alarm Alarm:	n 🗆 This sy	Phone: 1-
3.5 Off-Premises Signal Transmission Name of organization receiving alarm Alarm: Supervisory:	n	Phone: 1- Phone: 1-
3.5 Off-Premises Signal Transmission Name of organization receiving alarm Alarm: Supervisory: Trouble:	n	Phone: 1- Phone: 1- Phone: 1-
3.5 Off-Premises Signal Transmission Name of organization receiving alarm Alarm: Supervisory: Trouble: Entity to which alarms are retransmitted Method of retransmission:	n	Phone: 1- Phone: 1- Phone: 1- Phone:

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4. CIRCUITS AND PATHWAYS

· ·

4.1 Signaling Line Pathways	
4.1.1 Pathways Class Designations and Survivability	
Pathways class: B Survivability level: 0 Quantity: (See NFPA 72, Sections 12.3 and 12.4)	1
4.1.2 Pathways Utilizing Two or More Media	
Quantity: N/A Description: N/A	
4.1.3 Device Power Pathways	
☑ No separate power pathways from the signaling line pathway	
Dever pathways are separate but of the same pathway classification as the signaling line pathway	
Power pathways are separate and different classification from the signaling line pathway	
4.1.4 Isolation Modules	
Quantity: 1	
4.2 Alarm Initiating Device Pathways	
4.2.1 Pathways Class Designations and Survivability	
Pathways class: N/A Survivability level: N/A Quantity: (See NFPA 72, Sections 12.3 and 12.4)	N/A
4.2.2 Pathways Utilizing Two or More Media	
Quantity: N/A Description: N/A	
4.2.3 Device Power Pathways	
4.2.3 Device Power Pathways⊠ No separate power pathways from the initiating device pathway	
☑ No separate power pathways from the initiating device pathway	
 No separate power pathways from the initiating device pathway Power pathways are separate but of the same pathway classification as the initiating device pathway 	
 No separate power pathways from the initiating device pathway Power pathways are separate but of the same pathway classification as the initiating device pathway Power pathways are separate and different classification from the initiating device pathway 	
 No separate power pathways from the initiating device pathway Power pathways are separate but of the same pathway classification as the initiating device pathway Power pathways are separate and different classification from the initiating device pathway 4.3 Non-Voice Audible System Pathways 	6
 ☑ No separate power pathways from the initiating device pathway □ Power pathways are separate but of the same pathway classification as the initiating device pathway □ Power pathways are separate and different classification from the initiating device pathway 4.3 Non-Voice Audible System Pathways 4.3.1 Pathways Class Designations and Survivability Pathways class: B Survivability level: 0 Quantity: 	6
 No separate power pathways from the initiating device pathway Power pathways are separate but of the same pathway classification as the initiating device pathway Power pathways are separate and different classification from the initiating device pathway 4.3 Non-Voice Audible System Pathways 4.3.1 Pathways Class Designations and Survivability Pathways class: B Survivability level: 0 Quantity: (See NFPA 72, Sections 12.3 and 12.4) 	6
 ☑ No separate power pathways from the initiating device pathway □ Power pathways are separate but of the same pathway classification as the initiating device pathway □ Power pathways are separate and different classification from the initiating device pathway 4.3 Non-Voice Audible System Pathways 4.3.1 Pathways Class Designations and Survivability Pathways class: B Survivability level: 0 Quantity: (See NFPA 72, Sections 12.3 and 12.4) 4.3.2 Pathways Utilizing Two or More Media 	6
 ☑ No separate power pathways from the initiating device pathway ☐ Power pathways are separate but of the same pathway classification as the initiating device pathway ☐ Power pathways are separate and different classification from the initiating device pathway 4.3 Non-Voice Audible System Pathways 4.3.1 Pathways Class Designations and Survivability Pathways class: B Survivability level: 0 Quantity: (See NFPA 72, Sections 12.3 and 12.4) 4.3.2 Pathways Utilizing Two or More Media Quantity: N/A Description: N/A 	6
☑ No separate power pathways from the initiating device pathway ☐ Power pathways are separate but of the same pathway classification as the initiating device pathway ☐ Power pathways are separate and different classification from the initiating device pathway 4.3 Non-Voice Audible System Pathways 4.3.1 Pathways Class Designations and Survivability Pathways class: B Survivability level: 0 Quantity: (See NFPA 72, Sections 12.3 and 12.4) 4.3.2 Pathways Utilizing Two or More Media Quantity: N/A Description: N/A 4.3.3 Device Power Pathways	

5. ALARM INITIATING DEVICES

1 4

5.1 Manual Initiating Devices							
5.1.1 Manual Fire Alarm Boxes			his syste	em does not	have ma	anual fire alarm	boxes.
Type and number of devices: Addressable:	4	Conventional:	0	Coded:	N/A	Transmitter:	N/A
Other (specify): N/A							
5.1.2 Other Alarm Boxes			ΧT	his system	does not	have other alarn	a boxes.
Description: N/A							
Type and number of devices: Addressable:	N/A	Conventional:	N/A	Coded:	N/A	Transmitter:	N/A
Other (specify): N/A							
5.2 Automatic Initiating Devices							
5.2.1 Smoke Detectors			ПΤ	his system o	loes not	have smoke dete	ectors.
Type and number of devices: Addressable:	1	Conventional:	0				
Other (specify): N/A							
Type of coverage: Complete area Par	tial area	□ Nonrequired	partial a	area			
Other (specify): N/A							
Type of smoke detector sensing technology:	Ionization	ation	lectric	Multicri	iteria [Aspirating	Beam
Other (specify): N/A							
5.2.2 Duct Smoke Detectors		This system of	loes not	have alarm-	causing	duct smoke dete	ctors.
Type and number of devices: Addressable:	N/A	Conventional:	N/A				
Other (specify): N/A							
Type of coverage: N/A							
Type of smoke detector sensing technology:	Ioniza	ation 🛛 Photo	electric	🗆 Aspira	ting [Beam	
5.2.3 Radiant Energy (Flame) Detectors		🖾 T	his syste	em does not	have rad	liant energy dete	ctors.
Type and number of devices: Addressable:	N/A	Conventional:	N/A				
Other (specify): N/A							
Type of coverage: N/A							
5.2.4 Gas Detectors			0	This system	em does	not have gas det	ectors.
Type of detector(s): N/A							
Number of devices: Addressable: N/A	Conventi	onal: N/A					
Type of coverage: N/A							
5.2.5 Heat Detectors				This system	em does	not have heat de	tectors.
Type and number of devices: Addressable:		Conventional:					
Type of coverage: Complete area Pa			-		Linear	Spot	
Type of heat detector sensing technology:	Fixed te	mperature 🛛 I	Rate-of-r	ise 🛛 R	ate comp	pensated	

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5. ALARM INITIATING DEVICES (continued)

5.2.6 Addressable Monitoring Modules Number of devices: 0	This system does not have monitoring modules.
5.2.7 Waterflow Alarm Devices Type and number of devices: Addressable: 1 C	This system does not have waterflow alarm devices. onventional: Coded: N/A Transmitter: N/A
5.2.8 Alarm Verification Number of devices subject to alarm verification: N/A	☑ This system does not incorporate alarm verification. Alarm verification set for: N/A seconds
5.2.9 Presignal Number of devices subject to presignal: N/A Describe presignal functions: N/A	☑ This system does not incorporate pre-signal.
5.2.10 Positive Alarm Sequence (PAS) Describe PAS: N/A	This system does not incorporate PAS.
5.2.11 Other Initiating Devices Describe: N/A	This system does not have other initiating devices.
SUPERVISORY SIGNAL-INITIATING DEVICES 6.1 Sprinkler System Supervisory Devices Type and number of devices: Addressable: 2 C	☐ This system does not have sprinkler supervisory devices. onventional: 2 Coded: N/A Transmitter: N/A
Other (specify): N/A	a and a start of the
6.2 Fire Pump Description and Supervisory Devices Type fire pump: Electric pump Engine	This system does not have a fire pump.
Type and number of devices: Addressable: N/A C Other (specify): N/A	onventional: N/A Coded: N/A Transmitter: N/A
6.2.1 Fire Pump Functions Supervised Power Running Phase reversal Selector su Other (specify): N/A	vitch not in auto 🔲 Engine or control panel trouble 🗍 Low fuel
6.3 Duct Smoke Detectors (DSDs) Type and number of devices: Addressable: 3 C Other (specify): N/A	☐ This system does not have DSDs causing supervisory signals. onventional:
Type of coverage: N/A	
Type of smoke detector sensing technology: Ionizatio 6.4 Other Supervisory Devices Describe: N/A	 M Photoelectric Aspirating Beam M This system does not have other supervisory devices.

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7. MONITORED SYSTEMS

	7.1 Engine-Driven Generator	This system does not have a generator.
	7.1.1 Generator Functions Supervised	
	Engine or control panel trouble	□ Selector switch not in auto □ Low fuel
	□ Other (specify): N/A	
	7.2 Special Hazard Suppression Systems	This system does not monitor special hazard systems.
	Description of special hazard system(s): N/A	
	7.3 Other Monitoring Systems	This system does not monitor other systems.
	Description of special hazard system(s): N/A	
8.	ANNUNCIATORS	This system does not have annunciators.
	8.1 Location and Description of Annunciators	
	Location 1:	
	Location 2:	
	Location 3:	
9.	ALARM NOTIFICATION APPLIANCES	

9.1 In-Building Fire Eme	ergency Voice Alarm Communi	cation System	This system does not h	ave an EVACS.
Number of single voice ala	rm channels: N/A	Number of m	ultiple voice alarm channels	N/A
Number of speakers: N	I/A	Number of sp	eaker circuits: N/A	
Location of amplification a	and sound-processing equipment:	N/A		
Location of paging microp	hone stations:			
Location 1: N/A				
Location 2: N/A				
Location 3: N/A				
9.2 Nonvoice Notification	Appliances	This system do	es not have nonvoice notific	ation appliances.
Horns: 15	With visible: 16	Bells: N/A	With visible:	N/A
Chimes: N/A	With visible: N/A			
Visible only: 2	Other (describe): N/A			
9.3 Notification Appliance	e Power Extender Panels	🗆 Th	is system does not have pow	er extender panels
Quantity: 1				
Locations: FIRE ALARM	CONTROL ROOM			

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10. MASS NOTIFICATION CONTROLS, APPLIANCES, AND CIRCUITS IT his system does not have an MNS.

10.1 MNS L	local Operating Consoles			
Location 1:	N/A			
Location 2:	N/A			
Location 3:	N/A			
10.2 High-P	ower Speaker Arrays			
Number of H	IPSA speaker initiation zones:	N/A		
Location 1:	N/A			
Location 2:	N/A			
Location 3:	N/A			
10.3 Mass N	Notification Devices			
Combination	fire alarm/MNS visible applia	nces: N/A	MNS-only visible appliances:	N/A
Textual signs	s: N/A Oth	er (describe):	N/A	
Supervision of	class: N/A			
10.3.1 Speci	al Hazard Notification			
This system	m does not have special suppre	ssion predischarg	e notification.	
	ems DO NOT override notificat rge notification.	tion appliances re	quired to provide special suppression	
11. TWO-WA	Y EMERGENCY COMMU	NICATION SYS	STEMS	
11.1 Telepho	one System		This system does not have a two-way to	elephone system.
Number of te	elephone jacks installed:	N/A	Number of warden stations installed:	N/A
Number of te	elephone handsets stored on site	: N/A		
Type of telep	ohone system installed:	ectrically powered	Sound powered	
11.2 Two-W	ay Radio Communications E	nhancement Sys	tem	
Ithis systex	em does not have a two-way rad	io communication	ns enhancement system.	
Percentage of	f area covered by two-way radie	o service: Critica	al areas: N/A % General building are	as: N/A %
Amplification	n component locations: N/A			
Inbound signa	al strength: N/A	dBm	Outbound signal strength: N/A	dBm
Donor antenn	na isolation is: N/A	dB abov	e the signal booster gain	
Radio frequer	ncies covered: N/A			
Radio system	n monitor panel location: N/A	1		

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11. TWO-WAY EMERGENCY COMMUNICATION SYSTEMS (continued)

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11.3 Area of Refuge (Area of Rescue Assistance) Emergency	Communications Systems
This system does not have an area of refuge (area of rescue as	sistance) emergency communications system.
Number of stations: N/A Location of central cor	ntrol point: N/A
Days and hours when central control point is attended: N/A	
Location of alternate control point: N/A	
Days and hours when alternate control point is attended: N/A	
11.4 Elevator Emergency Communications Systems	
This system does not have an elevator emergency communicated	tions system.
Number of elevators with stations: N/A Location	of central control point: N/A
Days and hours when central control point is attended: N/A	
Location of alternate control point: N/A	
Days and hours when alternate control point is attended: N/A	
11.5 Other Two-Way Communication Systems	
Describe: N/A	
12. CONTROL FUNCTIONS	
This system activates the following control fuctions:	
☐ Hold-open door releasing devices ☐ Smoke management	☐ HVAC shutdown ☐ F/S dampers
□ Door unlocking □ Elevator recall □ Fuel source sh	
Elevator shunt trip	
Other (specify): N/A	
12.1 Addressable Control Modules	This system does not have control modules.
Number of devices:	•
Other (specify): N/A	
13. SYSTEM POWER	
13.1 Control Unit	
13.1.1 Primary Power	
Input voltage of control panel: 120VAC	Control panel amps: 5
Overcurrent protection: Type: CRKT BREAKER	Amps: 20
Location (of primary supply panel board): LP3 CKT 2 MAIN EI	LECTRICAL ROOM
Disconnecting means location: LP3 CKT 2	
13.1.2 Engine-Driven Generator	This system does not have a generator.
Location of generator: N/A	
Location of fuel storage: N/A	Type of fuel: N/A

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13. SYSTEM POWER (continued)	
13.1.3 Uninterruptible Power System	This system does not have a UPS.
Equipment powered by a UPS system: N/A	
Location of UPS system: N/A	
Calculated capacity of UPS batteries to drive the system con-	mponents connected to it:
In standby mode (hours): N/A	In alarm mode (minutes): N/A
13.1.4 Batteries	
Location: IN PANEL Type: SLA	Nominal voltage: 24VDC Amp/hour rating: 12AH
Calculated capacity of batteries to drive the system:	
In standby mode (hours): 24 HOURS	In alarm mode (minutes): 5MIN
\boxtimes Batteries are marked with date of manufacture \boxtimes 1	Battery calculations are attached
13.2 In-Building Fire Emergency Voice Alarm Commu	nication System or Mass Notification System
This system does not have an EVACS or MNS system.	
13.2.1 Primary Power	
Input voltage of EVACS or MNS panel: N/A	EVACS or MNS panel amps: N/A
Overcurrent protection: Type: N/A	Amps: N/A
Location (of primary supply panel board): N/A	
Disconnecting means location: N/A	
13.2.2 Engine-Driven Generator	☑ This system does not have a generator.
Location of generator: N/A	
Location of fuel storage: N/A	Type of fuel: N/A
13.2.3 Uninterruptible Power System	This system does not have a UPS.
Equipment powered by a UPS system: N/A	
Location of UPS system: N/A	
Calculated capacity of UPS batteries to drive the system con	nponents connected to it:
In standby mode (hours): N/A	In alarm mode (minutes): N/A
13.2.4 Batteries	
Location: N/A Type: N/A	Nominal voltage: N/A Amp/hour rating: N/A
Calculated capacity of batteries to drive the system:	
In standby mode (hours): N/A	In alarm mode (minutes): N/A
□ Batteries are marked with date of manufacture □ I	Battery calculations are attached

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13. SYSTEM POWER (continued)		
13.3 Notification Appliance Power Exte	nder Panels] This system does not have power extender panels.
13.3.1 Primary Power		
Input voltage of power extender panel(s):	120VAC Por	wer extender panel amps: 5
Overcurrent protection: Type: CKT	BREAKER An	nps: 20
Location (of primary supply panel board):	LP3 CKT 2 MAIN ELECTRIC	CAL ROOM
Disconnecting means location: LP3 CK	T 2 MAIN ELECTRICAL ROOM	
13.3.2 Engine-Driven Generator		☑ This system does not have a generator.
Location of generator: N/A		
Location of fuel storage: N/A	Ту	pe of fuel: N/A
13.3.3 Uninterruptible Power System		This system does not have a UPS.
Equipment powered by a UPS system:	N/A	
Location of UPS system: N/A		
Calculated capacity of UPS batteries to dri	ve the system components conn	lected to it:
In standby mode (hours): N/A	In alarm m	node (minutes): N/A
13.3.4 Batteries		
Location: IN PANEL Typ	e: SLA Nominal v	voltage: 24VDC Amp/hour rating: 7AH
Calculated capacity of batteries to drive the	e system:	
In standby mode (hours): 24 HOURS	In alarm m	node (minutes): 5 MIN.
Batteries are marked with date of manual	facture 🛛 🛛 Battery calculat	tions are attached
14. RECORD OF SYSTEM INSTALLA	TION	
Fill out after all installation is complete an branching, but before confucting operation		opens, shorts, ground faults, and improper
This is a: 🗋 New system 🔲 Modifie	cation to an existing system	Permit number:
The system has been installed in accordance	ce with the following requireme	ents: (Note any or all that apply.)
⊠ NFPA 72, Edition: 2010		
🛛 NFPA 70, National Electrical Code, Art	ticle 760, Edition: 2008	
Manufacturer's published instructions		
Other (specify): AHJ		
System deviations from referenced NFPA	standards:	
Signed:	Printed name:	Date:
Organization:	Title:	Phone:

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15. RECORD OF SYSTEM OPERATIONAL ACCEPTANCE TEST

□ New system

All operational features and functions of this system were tested by, or in the presence of, the signer shown below, on the date shown below, and were found to be operating properly in accordance with the requirements for the following:

Modifications to an existing system

All newly modified operational features and functions of the system were tested by, or in the presence of, the signer shown below, on the date shown below, and were found to be operating properly in accordance with the requirements of the following:

☑ NFPA 72, Edition: 2010

☑ NFPA 70, National Electrical Code, Article 760, Edition: 2008

Manufacturer's published instructions

Other (specify): AHJ

☑ Individual device testing documentation [Inspection and Testing Form (Figure 14.6.2.4) is attached]

Signed: Printed name: JEREMY LAMBERT Date: 10-23-12 Protection Professionals Title: technician Phone: 207-775-5755 Organization:

16. CERTIFICATIONS AND APPROVALS

16.1 System Installation Contractor:

This system, as specified herein, has been installed and tested according to all NFPA standards cited herein.

Signed: Debut M. Ceason Printed name: Robert M PEHRSON Date: 10/23/12 Organization: R.M. PEARSON, INC. Title: PRESIDENT Phone: 207-329-0 Phone: 207-324-8432

16.2 System Service Contractor:

The undersigned has a service contract for this system in effect as of the date shown below.

Signed: Dry Harris	Printed name:	Date:	10-23-12
Organization: Reverence whereas	Title: Pres Don't	Phone:	201-775-5755
Professionary			

16.3 Supervising Station:

This system, as specified herein, will be monitored according to all NFPA standards cited herein.

Signed:	Printed name:	Date:
Organization:	Title:	Phone:

16. CERTIFICATIONS AND APPROVALS (continued)

16.4 Property or Owner Representative:

This system, as specified herein, will be monitored according to all NFPA standards cited herein.

Signed:	Printed name:	Date:
Organization:	Title:	Phone:

16.5 Authority Having Jurisdiction:

I have witnessed a satisfactory acceptance test of this system and find it to be installed and operating properly in accordance with its approved plans and specifications, with its approved sequence of operations, and with all NFPA standards cited herein.

Signed:	Printed name:	Date:
Organization:	Title:	Phone:

NOTES:

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VFPA 72 Fig. 10.18 2.1.1 (p. 12 of 12)

FIRE ALARM AND EMERGENCY COMMUNICATION SYSTEM

	D			44.00
	Date of this inspection or test: 10-23-2012	Time of inspect	tion or test:	11:00
1.	1. PROPERTY INFORMATION			
	Name of property: SFX			
	Address: 2275 CONGRESS STREET PORT	LAND MAINE		
	Description of property: WAREHOUSE OFFICE			
	Occupancy type: (Circle) Assembly / Education	/ Daycare / Healthcare / Ambu	latory Health	care / Detention / Residential
	1 & 2 Family / Lodging / Hotel	/ Dormitory / Apt / Res Board /	Mercantile /	Bus / Industrial / Storage
	Name of property representative:			
	Address:			
	Phone: Fax:	E-mail:		
	Authority having jurisdiction over this property:			
	Phone: Fax:	E-mail:		
2.	2. INSTALLATION, SERVICE, AND TESTING	G CONTRACTOR INFORM	ATION	
	Service and/or testing organization for this equipment	ent: Protection Profess	ionals	
	Address: 325 US Route 1, Falmouth, M	E 04105		
	Phone: 207-775-5755 Fax: 2	07-781-2064 E-mail:	mail@pro	tectionprofessionals.net
	Service technician or tester: JEREMY LAMBER	-		
	Qualifications of technician or tester: 💻 NICET C	ertified Technician	6.A	Licensed
	A contract for test and inspection in accordance with	th NFPA standards is in effect as	s of:	
	The contract expires: Contract	number: Freq	uency of test	s and inspections: Annual
	Monitoring organization for this equipment:			
	Entity to which alarms are retransmitted:			
	Phone:			
2	A TYPE OF SYSTEM OF SERVICE			
з.	3. TYPE OF SYSTEM OR SERVICE			
	⊠ Fire alarm system (nonvoice)			
	☐ Fire alarm with in-building fire emergency voic	e alarm communication system (EVACS)	
	☐ Mass notification system (MNS)			
	Combination system, with the following compo			
	\Box Fire alarm \Box EVACS \Box MNS	Two-way, in-building, e	emergency co	mmunication system
			NEPA	72. Fig 14.6.2.4 (p. 1.6/12

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	□ Other (specify):	
3.	3. TYPE OF SYSTEM OR SERVICE (continued)	
	NFPA 72 edition: TESTED TO 2010 Additional description	ption of system(s):
	3.1 Control Unit Manufacturer: SIEMENS CERBERUS PRO	Model number: FC-901
	3.2 Mass Notification System	This system does not incorporate an MNS
	 3.2.1 System Type: In-building MNS—combination In-building MNS—stand-alone Wide-area MNS Diagonality 	stributed recipient MNS
	3.2.2 System Features:	
	 □ Combination fire alarm/MNS □ MNS ACU only □ Wide-area MNS to high-power speaker array (HPSA) interface □ Other (specify): 	
	3.3 System Documentation	
	An owner's manual, a copy of the manufacturer's instructions, a w record drawings are stored on site. Location: DOCUM	written sequence of operation, and a copy of the record
	3.4 System Software	is system does not have alterable site-specific software.
	Software revision number: Software	last updated on:
	☐ A copy of the site-specific software is stored on site. Location:	
4.	4. SYSTEM POWER 4.1 Control Unit	
	4.1.1 Primary Power Input voltage of control panel: 120VAC C	Control panel amps: 5AMPS
	4.1.2 Engine-Driven Generator Location of generator: N/A	This system does not have a generator.
	Location of fuel storage: N/A	Type of fuel: N/A
	4.1.3 Uninterruptible Power System Equipment powered by a UPS system: N/A Location of UPS system: N/A	This system does not have UPS.
	Calculated capacity of UPS batteries to drive the system components	
	In standby mode (hours): N/A Ir	a alarm mode (minutes): N/A

MFPA 72 Fig 146.2.4 (p. 2 of 12)

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4.	. SYSTEM POWER (continued)	
	4.1.4 Batteries	
	Location: Type: SLA	Nominal voltage: 24VDC Amp/hour rating: 12AH
	Calculated capacity of batteries to drive the system:	
	In standby mode (hours): 24HRS	In alarm mode (minutes): 5MIN
	Batteries are marked with date of manufacture.	
	4.2 In-Building Fire Emergency Voice Alarm Commun	ication System or Mass Notification System
	This system does not have an EVACS or MNS.	
	4.2.1 Primary Power	
	Input voltage of EVACS or MNS panel: N/A	EVACS or MNS panel amps: N/A
	4.2.2 Engine-Driven Generator	\boxtimes This system does not have a generator.
	Location of generator: N/A	
	Location of fuel storage: N/A	Type of fuel: N/A
	4.2.3 Uninterruptible Power System	\boxtimes This system does not have a UPS.
	Equipment powered by a UPS system: N/A	
	Location of UPS system: N/A	
	Calculated capacity of UPS batteries to drive the system co	mponents connected to it:
	In standby mode (hours): N/A	In alarm mode (minutes): N/A
	4.2.4 Batteries	
	Location: N/A Type: N/A	Nominal voltage: N/A Amp/hour rating: N/A
	Calculated capacity of batteries to drive the system:	
	In standby mode (hours): N/A	In alarm mode (minutes): N/A
	□ Batteries are marked with date of manufacture.	
	4.3 Notification Appliance Power Extender Panels	This system does not have power extender panels.
	4.3.1 Primary Power	
	Input voltage of power extender panel(s): 120VAC	Power extender panel amps: 5AMPS
	4.3.2 Engine-Driven Generator	☐ This system does not have a generator.
	Location of generator: N/A	
	Location of fuel storage: N/A	Type of fuel: N/A
	4.3.3 Uninterruptible Power System	This system does not have a UPS.
	Equipment powered by a UPS system: N/A	
	Location of UPS system: N/A	
	Calculated capacity of UPS batteries to drive the system con	nponents connected to it:
	In standby mode (hours): N/A	In alarm mode (minutes): N/A

4. SYSTEM POWER (continued)

4.3.4 Batte	eries						
Location:	IN PANEL	Type:	SLA	Nominal voltage:	24VDC	Amp/hour rating:	7AH
Calculated	capacity of batteries	to drive th	e system:				
In standby	mode (hours):	24HRS		In alarm mode (n	ninutes):	5MIN	
Batterie:	s are marked with da	te of man	afacture.				

5. ANNUNCIATORS

□ This system does not have annunciators.

5.1 Location and Description of Annunciators

Annunciator 1:	N/A	
Annunciator 2:	N/A	
Annunciator 3:	N/A	

6. NOTIFICATIONS MADE PRIOR TO TESTING

Monitoring organization	Contact:	RAPID RESPONSE	Time:	11:30
Building management	Contact:		Time:	
Building occupants	Contact:		Time:	
Authority having jurisdiction	Contact:		Time:	
Other, if required	Contact:		Time:	

7. TESTING RESULTS

7.1 Control Unit and Related Equipment

Description	Visual Inspection	Functional Test	Comments
Control unit			
Lamps/LEDs/LCDs			
Fuses			_
Trouble signals			-
Disconnect switches			
Ground-fault monitoring			
Supervision			
Local annunciator			
Remote annunciators			N/A
Power extender panels			
Isolation modules			
Other (specify)			N/A

NFPA 72, Fig. 14 6 2 4 (p. 4 of 12)

7. TESTING RESULTS (continued)

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7.2 Control Unit Power Supplies

Description	Visual Inspection	Functional Test	Comments
120-volt power			
Generator or UPS			N/A
Battery condition			
Load voltage			
Discharge test			N/A
Charger test			
Other (specify)			N/A

7.3 In-Building Fire Emergency Voice Alarm Communications Equipment

Description	Visual Inspection	Functional Test		Comments
Control unit			N/A	
Lamps/LEDs/LCDs			N/A	
Fuses			N/A	
Primary power supply			N/A	
Secondary power supply			N/A	
Frouble signals			N/A	
Disconnect switches			N/A	
Ground-fault monitoring			N/A	
Panel supervision			N/A	
System performance			N/A	
Sound pressure levels			N/A	
Occupied Yes No				
Ambient dBA				
Alarm dBA				
(attach report with locations, values, and weather conditions)				
System intelligibility			N/A	
CSI STI				
attach report with locations, values, and weather conditions)				
Other (specify)			N/A	

NEPA 72, Fig. 14 (0.2,4 (0. 5 of 12)

7. TESTING RESULTS (continued)

.

7.4 Notification Appliance Power Extender Panels

Description	Visual Inspection	Functional Test	Comments
Lamps/LEDs/LCDs			
Fuses			
Primary power supply			N/A
Secondary power supply			N/A
Trouble signals			N/A
Ground-fault monitoring			N/A
Panel supervision			N/A
Other (specify)			N/A

7.5 Mass Notification Equipment

Description	Visual Inspection	Functional Test	Comments
Functional test			N/A
Reset/power down test			N/A
Fuses			N/A
Primary power supply			N/A
UPS power test			N/A
Trouble signals			N/A
Disconnect switches			N/A
Ground-fault monitoring			N/A
CCU security mechanism			N/A
Prerecorded message content			N/A
Prerecorded message activation			N/A
Software backup performed			N/A
Test backup software			N/A
Fire alarm to MNS interface			N/A
MNS to fire alarm interface			N/A
In-building MNS to wide-area MNS			N/A

VEPA 72 Fig. 14.6,2.4 (p. 6 of 12)

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7. TESTING RESULTS (continued)

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7.5 Mass Notification Equipment (continued)

Description	Visual Inspection	Functional Test	Comments
MNS to direct recipient MNS			N/A
Sound pressure levels			N/A
Occupied Yes No			
Ambient dBA			
Alarm dBA			
(attach report with locations, values, and weather conditions)			
System intelligibility			N/A
CSI STI			
(attach report with locations, values, and weather conditions)			
Other (specify)			N/A

7.6 Two-Way Communications Equipment

Description	Visual Inspection	Functional Test	Comments
Phone handsets			N/A
Phone jacks			N/A
Off-hook indicator			N/A
Call-in signal			N/A
System performance			N/A
System audibility			N/A
System intelligibility			N/A
Radio communications enhancement system			N/A
Area of refuge communication system			N/A
Elevator emergency communications system			N/A
Other (specify)			N/A

VFPA 72 Fig. 14 5 2 4 (p. 7 of 12)

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7. TESTING RESULTS (continued)

7.7 Combination Systems

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Description	Visual Inspection	Functional Test	Comments
Fire extinguishing monitoring devices/system			N/A
Carbon monoxide detector/system			N/A
Combination fire/security system			N/A
Other (specify)			N/A

7.8 Special Hazard Systems

Description (specify)	Visual Inspection	Functional Test	Comments
			N/A
			N/A
			N/A

7.9 Emergency Communications System

- U Visual
- Functional
- □ Simulated operation
- □ Ensure predischarge notification appliances of special hazard systems are not overridden by the MNS. See *NFPA* 72, 24.4.1.7.1.

7.10 Monitored Systems

Description (specify)	Visual Inspection	Functional Test		Comments	
Engine-driven generator			N/A		
Fire pump			N/A		
Special suppression systems			N/A		
Other (specify)			N/A		

7. TESTING RESULTS (continued)

7.11 Auxiliary Functions

Description	Visual Inspection	Functional Test	Comments
Door-releasing devices			N/A
Fan shutdown			N/A
Smoke management/smoke control			N/A
Smoke damper operation			N/A
Smoke shutter release			N/A
Door unlocking			N/A
Elevator recall			N/A
Elevator shunt trip			N/A
MNS override of FA signals			N/A
Other (specify)			N/A

7.12 Alarm Initiating Device

Device test results sheet attached listing all devices tested and the results of the testing

7.13 Supervisory Alarm Initiating Device

Device test results sheet attached listing all devices tested and the results of the testing

7.14 Alarm Notification Appliances

Appliance test results sheet attached listing all appliances tested and the results of the testing

7.15 Supervisory Station Monitoring

Description	Visual Inspection	Functional Test	Time
Alarm signal		⊠	11:30
Alarm restoration			11:30
Trouble signal			11:30
Trouble restoration			11:30
Supervisory signal			11:30
Supervisory restoration			11:30

8. NOTIFICATIONS THAT TESTING IS COMPLETE

Monitoring organization	Contact:	RAPID RESPONSE	Time:	2:00
Building management	Contact:		Time:	2:00
Building occupants	Contact:		Time:	2:00
Authority having jurisdiction	Contact:		Time:	2:00
Other, if required	Contact:		Time:	2:00

9. SYSTEM RESTORED TO NORMAL OPERATION

Date: 10-23-2012 Time: 2:00

10. CERTIFICATION

10.1 Inspector Certification:

This system, as specified herein, has been inspected and tested according to all NFPA standards cited herein.

Signed:		Printed name:	Jeremy Lambert	Date:
Organization:	Protection Professionals	Title:	Technician 207-775-5755	Phone: 775- 5755

DEFICIENCIES FOUND:

RECOMMENDATIONS:

10.2 Acceptance by Owner or Owner's Representative:

The undersigned has a service contract for this system in effect as of the date shown below. Yes No Unknown

The undersigned acknowledges the Deficiencies Found and Recommendations, as stated above.

Signed:	Printed name:	Date:
Organization:	Title:	Phone:

NFPA 72. Fig. 14.6.2.4 (p. 10 of 12)

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RESIDENTIAL FIRE PROTECTION

October 24, 2012

Portland Fire Department MPX 2301 Congress St. Portland, Maine 04103

Attn: Ben Wallace

Re: MPX 2301 Congress St. Fire Sprinkler System Renovation

Please be informed that the Wet Pipe Fire Sprinkler System renovation for the above project is designed, installed and tested based on the requirements of NFPA #13, State of Maine Fire Marshall's office and Portland Fire Department requirements.

If you have any questions or concerns please contact us at (207) 946-3473

Thank you Stan Camic

64 DAGGETT HILL RD. • GREENE, MAINE • 04236 PHONE: (207) 946-3473 • FAX: (207) 946-3474

Donald McPherson - Re: NFPA 80

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From:	Aaron Bourassa <aaron@greatfallsinc.com></aaron@greatfallsinc.com>
To:	Benjamin Wallace <wallaceb@portlandmaine.gov></wallaceb@portlandmaine.gov>
Date:	10/22/2012 4:59 PM
Subject:	Re: NFPA 80
CC:	Chris Pirone <cpp@portlandmaine.gov>, Jeanie Bourke <jmb@portlandmaine.g< th=""></jmb@portlandmaine.g<></cpp@portlandmaine.gov>

2387 A A004 2012-06-4355

Thank you Lt. Wallace. The louvers are labeled

Aaron Bourassa Project manager Great Falls Inc. (207) 615-9803 Aaron@greatfallsinc.com

On Oct 22, 2012, at 4:51 PM, "Benjamin Wallace" <<u>wallaceb@portlandmaine.gov</u>> wrote:

Hi Aaron, So long as the preparation (cut out) for installation of the louver was performed in accordance the manufacturer's inspection service procedure and under label service (basically at the factory); and so long as the louver is a labeled fire door louver; I would say that's fine. You're just going to need to document this. Thanks,

Lt. Benjamin Wallace Jr. Fire Prevention Officer Portland Fire Department 380 Congress Street Portland, Maine 04101 (207)874-8400 wallaceb@portlandmaine.gov

>>> Aaron Bourassa <<u>aaron@greatfallsinc.com</u>> 10/22/2012 9:32 AM >>> Hello Capt. Pirone, Lt. Wallace and Jeanie,

I have attached NFPA information on the door louvers located on the two fire rated doors at 2301 Congress St that I received form the door supplier. Please let me know if this information helps. If the louvers still do not meet your approval please let me know and I will change out the doors before our final inspection Wednesday.

Thanks

Aaron Bourassa Project manager Great Falls Inc. (207) 615-9803 Aaron@greatfallsinc.com

4.5

Begin forwarded message:

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, AL

From: DBurns@kamcoboston.com Date: October 22, 2012, 9:24:03 AM EDT To: aaron@greatfallsinc.com Subject: NFPA 80

(See attached file: nfpa80.pdf)

<Benjamin Wallace.vcf>

NFPA 80

Standard for Fire Doors and Other Opening Protectives

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2007 Edition



NFPA, 1 Batterymarch Park, Quincy, MA 02169-7471 An International Codes and Standards Organization

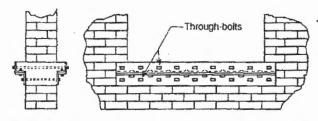


FIGURE A.4.8.2.8(c) Z-bar and Concrete Sill Used with Combustible Floors.

A.4.8.6 See Figure A.4.8.6(a) and Figure A.4.8.6(b).

A.4.9 Fire doors, shutters, or fire windows are of value only if properly installed so that they close at the time of fire. At the time of the initial installation, each releasing means that part of the releasing system should be tested to verify that the door will close regardless of which fusible link is operated. This includes items such as heat or smoke detectors that might not have been installed by the fire door installer.

A written record documenting the installation and operational test(s) should be maintained on site by the person(s) responsible for keeping maintenance records. Various organizations have developed and make available test and maintenance forms specifically for this purpose.

A.5.1 Walls with openings have less fire resistance than unpierced walls. Fire doors, shutters, and fire windows are designed to protect the opening under normal conditions of use, with clear spaces on both sides of the opening. Where the opening is not used and combustible material could be piled against or near the door, window, or shutter, the designed protection cannot be expected.

A.5.2 Fire doors, shutters, and windows are of no value unless they are properly maintained and closed or are able to close at the time of fire. A periodic inspection and maintenance program should be implemented and should be the responsibility of the property management.

A.5.2.1 Hinges, catches, closers, latches, and stay rollers are especially subject to wear.

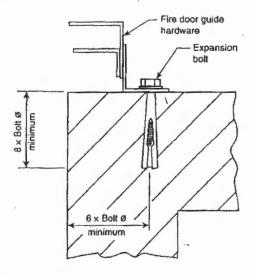


FIGURE A.4.8.6(a) Corner Walls.

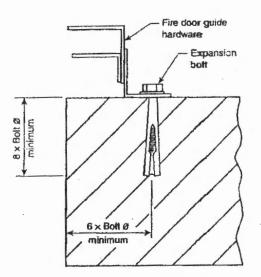


FIGURE A.4.8.6(b) Unusually Thick Walls.

A.5.2.2 See Annex J for information regarding performancebased inspection, testing, and maintenance options for fire door assemblies.

A.5.2.14.5 Movable parts of the door assembly can include but are not limited to stay rollers, gears, and closing mechanisms.

A.6.1.2 The normal components of a fire door assembly include a door, a door frame, hinges, a lock or latch, and a closing device. They also include, but are not limited to, an astragal, a split astragal, an automatic louver, a coordinator, flush or surface bolts, gasketing, a holder/release device, protection plates, and glazing materials.

A.6.3.1.1 Door frames might carry a label stating the hourly rating. The rating of the installed assembly should carry the rating of the door or the door frame, whichever is less.

A.6.3.1.2 Door frames should be installed following the general guidelines shown in Figure A.4.6.3.1(g). The door frame installations shown in Figure A.4.6.3.1(g) do not represent all types of installations but do illustrate some typical door frame installation techniques required for the proper installation of fire door frames.

A.6.3.1.3 See Figure A.6.3.1.3(a) and Figure A.6.3.1.3(b) for examples of how door frames can be secured in drywall applications:

A.6.3.1.4 Examples of proprietary-type slip-on door frames are those for use on prepared openings in drywall construction.

A.6.3.1.7 See Figure A.6.3.1.7 for more information regarding clearances and the pull face of the door.

A.6.4.1.1 It is the intent of the standard that most fire doors will have a closing device. However, in limited circumstances the closer might not be necessary because the door leaf is inactive and is normally in the closed position. Examples of such applications include pairs of doors to mechanical equipment rooms and certain industrial areas where an inactive leaf is provided and is infrequently used to permit large equipment to be moved through the door opening. In such instances, the AHJ should be reasonably assured that the inactive leaf normally will be closed and latched. Another example

2007 Edition

6.4.4.8 Strike plates shall be secured to the frame with steel - screws or other types of screws as indicated by the manufacturer's published listing or label service procedure.

6.4.4.9 Strike plates for doors swinging in pairs shall be secured to reinforcements in the inactive leaf with machine screws.

6.4.4.9.1 Pilot holes shall be drilled prior to strike plate installation, in accordance with manufacturer's installation instructions.

6.4.4.10* Open back strikes shall be permitted to be used in lieu of conventional strikes only where specifically provided for in the published listings.

6.4.4.11* Electric strikes shall be permitted to be used in lieu of conventional strikes in single swinging doors and pairs of doors where provided for in the published listings.

6.4.5 Protection Plates.

6.4.5.1 Factory-installed protection plates shall be installed in accordance with the listing of the door.

6.4.5.2 Field-installed protection plates shall be labeled and installed in accordance with their listing.

6.4.5.3 Labeling shall not be required where the top of the protection plate is not more than 16 in. (406 mm) above the bottom of the door.

6.4.6 Automatic Louvers. Only labeled fire door louvers shall be used in fire doors.

6.4.7* Astragals.

6.4.7.1 Doors swinging in pairs, where located within a means of egress, shall not be equipped with astragals that inhibit the free use of either leaf.

6.4.7.2* Pairs of doors that require astragals shall have at least one attached in place to project approximately ¾ in. (19 mm) or as otherwise indicated in the individual published listings.

6.4.8 Gasketing. Gasketing on fire doors or frames shall be furnished only in accordance with the published listings of the door, frame, or gasketing material manufacturer.

6.5 Application, Installation, and Adjustment.

6.5.1 General. The installation of all components of a fire door assembly shall be in accordance with the specific listing of each component.

6.5.2 Manufacturers' Instructions. All components shall be installed in accordance with the manufacturers' installation instructions and shall be adjusted to function as described in the listing.

6.5.3 Attachment. All components of a fire door assembly shall be attached firmly to walls, doors, and frames in a manner acceptable to the AH].

6.5.4 Mounting. All mounting screws, bolts, or shields shall be steel except where otherwise permitted by this standard.

6.5.5 Anchorage. Attachments to doors with composite cores shall provide firm anchorage for anticipated use.

Chapter 7 Swinging Doors with Fire Door Hardware

7.1 Doors.

7.1.1 General. This chapter shall cover the installation of swinging doors with fire door hardware. 7.1.2 Components. A fire door assembly shall consist of components that are separate products incorporated into the assembly.

7.1.3 Mounting of Doors.

7.1.3.1 Swinging tin-clad doors and flush- or corrugated-type sheet metal doors with fire door hardware shall be flush or lap mounted.

7.1.3.2 Flush-mounted doors shall be hung in steel channel frames securely anchored to the wall construction.

7.1.3.3 Lap-mounted doors shall be hung on the surface of the wall and shall lap the opening at least 4 in. (102 mm) at the top and on each side.

7.1.4 Operation of Doors.

7.1.4.1 The doors shall swing easily and freely on their hinges.

7.1.4.2 The latches shall operate freely.

7.2 Supporting Construction.

7.2.1 Walls.

7.2.1.1 Attachment of the door assembly to the wall shall be by means of through-wall bolts.

7.2.1.2 As an alternative, expansion anchors shall be permitted to be used as specified in 4.8.6.

7.2.2 Sills. Sills shall be installed in accordance with 4.8.2.

7.2.3 Reserved.

7.2.4 Vents.

7.2.4.1 Each tin-clad door formed of 14 in. \times 20 in. (0.36 m \times 0.51 m) sheets shall be provided with 3 in. (76.2 mm) diameter vent holes.

7.2.4.2 The vent holes shall be cut through the sheets on the face of the door to be provided with the fire door hardware, using care to avoid interference with the hardware or injury to the wood core when cutting the holes in the sheets.

7.2.4.3 The metal covering around the opening shall be secured with small nails spaced about 1 in. (25.4 mm) apart, and the exposed wood shall be painted thoroughly.

7.3 Openings.

7.3.1 Frames for Lap-Mounted Doors. Frames shall not be required for lap-mounted doors.

7.3.2* Frames for Flush-Mounted Doors.

7.3.2.1 Only labeled frames of the structural steel type shall be used for flush-mounted doors.

7.3.2.2 The frames shall be erected before the wall is built.

7.4 Assembly Components.

7.4.1* Closing Devices for Swinging Tin-Clad and Sheet Metal Fire Doors.

7.4.1.1 Swinging tin-clad and sheet metal fire doors shall be equipped with self-closing or automatic-closing devices to ensure that they are closed and latched at the time of fire.

7.4.1.2 Other arrangements acceptable to the AHJ shall be permitted.

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6.3.4 Frames for Transom or Side Panels.

6.3.4.1 Side panels, transom panels, or both shall be fixed.

6.3.4.2 Removable transom panels shall be permitted to allow for movement of materials or equipment through the opening.

6.3.4.3 Frames with transom panels shall be permitted in situations where fire protection ratings up to and including 3 hours are required.

6.3.4.4 Louvers shall not be installed in either transom or side panels.

6.3.5 Multiple Opening Door Frames.

6.3.5.1 Individual frames shall be of a maximum size as defined in the manufacturer's published listing but are not to exceed 12 ft 8 in. (3.9 m) in overall width.

6.3.5.2 Where multiple opening frames are installed adjoining each other in a fire-resistive wall, a 16 in. (406 mm) minimum wall section shall be provided between the frames.

6.3.5.3 The maximum fire protection rating of the door assembly shall not exceed 1½ hours.

6.4 Assembly Components.

6.4.1 Closing Devices.

6.4.1.1* Unless otherwise permitted by the AHJ, a closing device shall be installed on every fire door.

6.4.1.2 Coordinating Device.

6.4.1.2.1 Where there is an astragal or projecting latch bolt that prevents the inactive door from closing and latching before the active door closes and latches, a coordinating device shall be used.

6.4.1.2.2 A coordinating device shall not be required where each door closes and latches independently of the other.

6.4.1.3 All components of closing devices used shall be attached securely to doors and frames by steel screws or through-boils.

6.4.1.4* All closing mechanisms shall be adjusted to overcome the resistance of the latch mechanism so that positive latching is achieved on each door operation.

6.4.1.5 Where door holder/release devices are used, they shall be labeled.

6.4.2* Application of Door Holder/Release Devices. Door holder/release devices shall be installed in accordance with the manufacturer's instructions and only in conformance with the individual manufacturer's published listings.

6.4.3* Builders Hardware.

6.4.3.1 Hinges. Hinges shall be as specified in individual door manufacturer's published listings or Table 6.4.3.1.

6.4.3.1.1 Doors up to 60 in. (1.52 m) in height shall be provided with two binges and an additional hinge for each additional 30 in. (0.76 m) of door height or fraction thereof.

6.4.3.1.1.1 The distance between hinges shall be permitted to exceed 30 in. (0.76 m).

6.4.3.1.1.2 Where spring hinges are used, at least two shall be provided.

6.4.3.1.2 All hinges or pivots, except spring hinges, shall be of the ball bearing type.

6.4.3.1.2.1 Hinges or pivots employing other antifriction bearing surfaces shall be permitted if they meet the requirements of ANSI/BI-MAA156.1, Standard for Butts and Hinges.

6.4.3.1.2.2 Spring hinges shall be labeled and shall meet the requirements of ANSI/BHMAA156.17, Standard for Self Closing Hinges & Pivots, Grade 1.

Table 6.4.3.1 Builders Hardware Mortise, Surface, and Full-Length Hinges, Pivots, or Spring Hinges for Swinging Doors

	M	aximum)	Door Si	ze		Minimum	Hinge Siz	æ	
	Wi	dth	He	ight	He	ight	Thic	kness	-
Door Rating (hr)	ft	m	ft	m	in.	mm	ín.	тлл	Hinge Type
For 13/4 in. (44.5 mm) o	r Thicker	Doors							
3, 11/2, 1, 3/4, 1/2, 1/3	4	1.22	10	3.05	41/2	114.3	0.180	4.57	Steel, mortise or surface
3, 11/2, 1, 3/4, 1/2, 1/3	4	1.22	8	2.44	41/2	114.3	0.134	3.40	Steel, mortise or surface
1/2, 1/4, 1/2, 1/3	31/6	0.96	8	2.44	6	152.4	0.225	5.72	Steel, olive knuckle or paumelle
3, 11/2, 3/4, 1/2, 1/3	4	1.22	10	3.05	4	101.6	0.225	5.72	Steel pivots (including top, bottom, and intermediate)
1 1/2, 1, 1/4, 1/2, 1/3	3	0.91	5	1.52	4	101.6	0.130	3.30	Steel, mortise or surface
1/2, 1, 3/4, 1/2, 1/3	2	0.61	3	0.91	3	76.2	0.092	2.34	Steel, mortise or surface
3, 11/2, 1, 3/4, 1/2, 1/3	3	0.91	7	2.13	41/2	114.3	0.134	3.40	Steel, mortise or surface (labeled, self-closing, spring type)
1, 11/2, 1, 3/4, 1/2, 1/4	3	0.91	7	2.13	4	101.6	0.105	2.67	Steel, mortise or surface (labeled, self-closing, spring type)
For 13/8 in. (34.93 mm)	Doors								0, 1 0 /1 ·
1 116, 34, 16, 13	3	0.91	7	2.13	31/2	88.9	0.123	3.12	Steel, mortise or surface
3, 11/2, 1, 3/4, 1/2, 1/3	23/3	0.81	7	2.13	31⁄2	88.9	0.105	2.67	Steel, mortise or surface (labeled, self-closing, spring type)



4.1.2* Fusible Links.

4.1.2.1 The particular fusible link used shall depend on the temperature and load requirements of the application.

4.1.2.2 Multiple links shall be permitted to be used to meet the load rating requirements where the load rating of a single link is exceeded.

4.1.3 Appurtenances.

4.1.3.1 Preparation of fire door assemblies for locks, latches, hinges, remotely operated or remotely monitored hardware, concealed closers, glass lights, vision panels, louvers, astragals and split astragals, and the application of plant-ons and laminated overlays shall be performed in accordance with the manufacturer's inspection service procedure and under label service. (See Annex E and Annex F.)

4.1.3.2 For job site preparation of surface-applied hardware, function holes for mortise locks, and holes for labeled viewers, a maximum $\frac{1}{2}$ in. (19 mm) wood and composite door undercutting, and protection plates (see 6.4.5) shall be permitted.

4.1.3.3 Surface-applied hardware shall be applied to the door or frame without removing material other than drilling round holes to accommodate cylinders, spindles, similar operational elements, and through-bolts in doors.

4.1.3.4 The holes described in **4.1.3.3** shall not be permitted to exceed a diameter of 1 in. (25.4 mm) with the exception of cylinders.

4.1.4 Signage. Informational signs shall be permitted to be installed on the surfaces of fire doors in accordance with 4.1.4.1 through 4.1.4.4 or in accordance with the manufacturer's published listing.

4.1.4.1 The total area of all attached signs shall not exceed 5 percent of the area of the face of the fire door to which they are attached.

4.1.4.2 Means of Attachment.

4.1.4.2.1 Signs shall be attached to fire doors by use of an adhesive.

4.1.4.2.2 Mechanical attachments such as screws or nails shall not be permitted.

4.1.4.3 Signs shall not be installed on glazing material in fire doors.

4.1.4.4 Signs shall not be installed on the surface of fire doors so as to impair or otherwise interfere with the proper operation of the fire door.

4.1.5 Sliding Doors.

4.1.5.1 Sliding doors shall be permitted to have integral swinging doors.

4.1.5.2 Where sliding doors include an integral swinging door, they shall be permitted to be used on exits to the exterior of the building.

4.2 Listed and Labeled Products. (See 3.2.3 and 3.2.4 for definitions.)

4.2.1* Listed items shall be identified by a label.

4.2.2 Labels shall be applied in locations that are readily visible and convenient for identification by the AHJ after installation of the assembly.

4.2.3 The label or the listing shall be considered evidence that samplings of such devices or materials have been evaluated by tests and that such devices or materials are produced under an in-plant, follow-up inspection program.

4.2.4 Specification of items of a generic nature, such as hinges, that are not labeled shall comply with the specifications contained in this standard.

4.3 Classifications and Types of Doors.

4.3.1* Only labeled fire doors shall be used.

4.3.2 Swinging fire doors shall be permitted to be furnished separately from labeled door frames and builders hardware if the complete fire door assembly including the door, frame, and builders hardware comprises a labeled fire door assembly.

4.3.3 Fire doors furnished with fire exit hardware shall bear a label reading "Fire door to be equipped with fire exit hardware."

4.3.4 The label described in 4.3.3 shall address the reinforcements necessary for the exit devices, and the complete fire door assembly shall have been tested for egress panic load requirements.

4.3.5 Rolling steel fire doors shall be labeled and shall be furnished as a complete assembly that includes curtain, bottom bar, barrel, guides, brackets, hood, automatic closing device, and any other components required by their listing for a complete assembly.

4.3.6 Elevator doors shall be in accordance with Section 14.2.

4.3.7 Access-type door assemblies shall consist of single swinging steel doors with frames, self-latching devices, and closing mechanisms.

4.3.8 Service counter doors shall be of the single- or two-speed counterbalanced types of flush design or the rolling steel type of formed steel and shall include wall guides, frame, sill, latching, and counterbalancing mechanism.

4.3.9* Authorities having jurisdiction shall be consulted for information on the size of oversize doors that shall be permitted in a given location.

4.4 Glazing Material in Fire Doors.

4.4.1* Only labeled fire resistance-rated or fire protection-rated glazing material shall be used in fire door assemblies when permitted by the door listing. (See A.3.3.71, Glazing Material.)

4.4.2 Where required, the glazing material shall also meet safety standards.

4.4.3* Glazing materials in vision panels shall be installed in labeled glass light kits or in accordance with the fire door listing and shall be installed in accordance with the manufacturer's installation instructions.

4.4.4* Glazing material not exceeding 100 in.² (0.065 m²) shall be permitted in fire doors having a 3-hour fire protection rating or in fire doors having a 1½-hour fire protection rating for use in severe exterior fire exposure locations where the glazing material has been tested for the desired rating period with no throughopenings in accordance with NFPA 252, Standard Methods of Fire Tests of Door Assemblies.

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3.3 General Definitions.

3.3.1 Access Door. A door assembly, for installation in fire resistance-rated walls or for installation in ceilings of fire resistance-rated floor-ceiling or roof-ceiling assemblies, that is used to provide access to shafts, chases, attics, spaces above ceilings, or other concealed spaces.

3.3.1.1 Horizontal Access Door. An access door installed in the horizontal plane used to protect openings in ceilings of fire resistance-rated floor-ceiling or roof-ceiling assemblies.

3.3.1.2 Vertical Access Door. An access door installed in the vertical plane used to protect openings in fire-rated walls.

3.3.2 Active Leaf. The first operating door of a pair, which is usually the door in which a lock is installed.

3.3.3 Ambient. For the purposes of this standard, the temperature of the room in which the test is being conducted.

3.3.4 Anchor. A device for attaching frames to the surrounding structure.

3.3.5* Astragal.

3.3.5.1 Overlapping Astragal. A horizontal or vertical molding attached to one leaf of a pair of doors.

3.3.5.2* Split Astragal. A horizontal or vertical molding attached to both leaves of a pair of doors.

3.3.6 Automatic-Closing Device. A device that causes the door or window to close when activated by a fusible link or detector.

3.3.7* Automatic-Closing Door. A door that normally is open but that closes when the automatic-closing device is activated.

3.3.8 Automatic Fire Detector. A device designed to detect the presence of a fire signature and to initiate action. For the purpose of this standard, automatic fire detectors are classified as follows: Automatic Fire Extinguishing or Suppression System Operation Detector, Fire-Gas Detector, Heat Detector, Other Fire Detectors, Radiant Energy-Sensing Fire Detector, Smoke Detector. [72, 2007]

3.3.9 Automatic Louver. An opening in a door with a series of slats or blades to allow passage of air and designed to close automatically in the event of fire.

3.3.10 Automatic Top and Bottom Bolts. See 3.3.68.1, Automatic Flush Bolts.

3.3.11 Barrel. A cylindrical horizontal member at the head of the opening that supports the door curtain of a rolling steel door and contains the counterbalance springs.

3.3.12 Batten. A horizontal pipe, tube, or other structural shape in a pocket of or attached to a fire safety curtain.

3.3.13 Binders. Pieces of hardware used to hold a sliding door to the wall, preventing lateral movement of the door from the wall.

3.3.14 Biparting. A vertically sliding door in which half of the door moves up and half of the door moves down in order to open, or a horizontal sliding door in which one door moves to the right and one moves to the left in order to open.

3.3.15 Bottom Bar (Rolling Steel Door). A reinforcing member at the lower edge of the door curtain assembly.

3.3.16 Breakaway Connection. A joint connecting a fire damper sleeve and attached ductwork that will allow col-

lapse of the ductwork during a fire without disturbing the integrity of the fire damper.

3.3.17 Bumper (Fire Safety Curtain). A filled fabric pocket below the bottom batten or frame member of a fire safety curtain designed to press against the floor.

3.3.18 Bumpers. Stops to limit the closing or opening movement of a sliding door.

3.3.19 Ceiling Radiation Damper. A listed device installed in a ceiling membrane of a fire resistance-rated floor-ceiling or roof-ceiling assembly to automatically limit the radiative heat transfer through an air inlet/outlet opening. [5000, 2006]

3.3.20 Center Latch. A latch used to hold the two halves of a center-parting or biparting fire door together, which is usually two pieces surface applied to doors and interlocked in the closed position.

3.3.21 Center Parting. See 3.3.14, Biparting.

3.3.22 Chafing Strip. A metal strip applied to the back surface of a sliding door to protect the door surface from damage from the wall.

3.3.23 Channel Frame. A frame that consists of head and jamb members of structural steel channels, either shop assembled or field assembled, to be used with masonry walls.

3.3.24* Classified. Products or materials of a specific group category that are constructed, inspected, tested, and subsequently reinspected in accordance with an established set of requirements.

3.3.25 Closed Position (Rolling Steel Fire Door). A position of the door curtain with the underside of the bottom bar, including a compressible seal or sensing edge, if provided, in contact with the sill along the entire width of the opening.

3.3.26 Closing Device. A means of closing a door from the partially or fully opened position.

3.3.27 Combination Fire/Smoke Damper: A device that meets both the fire damper and smoke damper requirements.

3.3.28 Concrete Lintel. A precast concrete horizontal member spanning and carrying the load above an opening.

3.3.29 Continuous Glazing Molding. A continuous molding used to hold glass or glazing in a window.

3.3.30 Coordinator. A device used on pairs of swinging doors that prevents the active leaf from closing before the inactive leaf closes.

3.3.31 Counterbalancing. A method by which the hanging weight of the door is balanced by helical torsion springs or weights.

3.3.32 Cover Plate. A plate to cover the joint between the sections of multiple panel doors, usually applied to the front and back of the vertical or horizontal slide door.

3.3.33 Crush Plates. Bearing plates provided where doors are mounted on concrete masonry wall units with hollow cells to accommodate through-wall bolts to prevent crushing of the hollow concrete masonry unit.

3.3.34 Curtain (Rolling Steel Fire Door). Interlocking curtain slats assembled together.

3.3.35 Curtain Slats. Formed sheet steel members that, when interlocked together, form the rolling steel door curtain.

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LISTING REPORT - MACHINING Issued: Apr 27 2011 10:39AM

Inspection Tests And Evaluation Of

Algoma 45 - 90 Min Mineral Core Fire Doors (24844)



RENDERED TO Algoma Hardwoods, Inc. 1001 Perry Street Algoma, WI 54201

GENERAL: This Report gives the results of the inspection, tests and evaluation of the above for compliance with applicable requirements of the following standards : NFPA 252 (1995) : ASTM E152-81a : UBC 7-2 (1997) : UBC 7-2 (1994) : UL 10(b) (1997) : CAN4 S104 (1985) : UL 10(c) (R2001) : NFPA 252.(2008) : UL 10(b) Revision 1 (2009) : CAN / ULC S104 (2010)

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PRODUCT DESCRIPTION

Product Covered:

Algoma 45 - 90 Min Mineral Core Fire Doors

Product Description: PRODUCT DESCRIPTION

Mineral Core Type, Swinging Flush Design Fire Door for installation singly or in pairs, in 45 Minute locations.

LIMITATIONS



Preassembled, Mortise or Cylindrical Latches with up to a 5" backset/ Deadbolts / Mortise or Rim Type Fire Exit Hardware/ Surface Mounted or Concealed Vertical Rod Fire Exit Hardware / Flush Bolts - Automatic or Manual / Surface Mounted Protection Plates up to 48" high / Louvers - maximum 24" x 24" / Plant-Ons / Metal Edge Guards / Vision Panel - maximum 1,296 sq.in. / Viewers / Electric Raceway / Surface Mounted Closer / Astragal not required / Wood Veneer Light Frame to 1,080 sq. in.

MAXIMUM SIZE OF OPENINGS

Singles - 4'0" wide x 10'0" high

Pairs - 8'0" wide x 9'0" high (Wood Faced)

Pairs - 8'0" wide x 8'0" high (HPDL)

Pairs - 8'0" wide x 9'3" high (with Von Duprin devices)

Door/Transom Assembly Single Swing only - 4'0" wide x 11'0" high (Maximum 4'0" wide x 4'-1/2" high Transom Panel)

Double Egress - 8'0" wide x 8'0" high

PRODUCT DESCRIPTION

Mineral Core Type, Swinging Flush Design Fire Door for installation singly or in pairs in 60 Minute locations.

LIMITATIONS

Algoma Hardwoods, Inc. | 24844 | Rev: Apr 27 2011 10:39AM | Uncontrolled Copy

Report prepared for: John Hanusek (Kamco Supply Corporation (Portland)) on 6/7/2011 9:11:11 AM

LOUVERS

Fire rated Louvers only may be used. Maximum size 24" by 24" Minimum Distance from Bottom of Door 8" Minimum Distance from Edge of Door 6"

KICK PLATES

Surface mounted protective plates of brass, bronze, steel, aluminum, poly-carbonate or decorative laminate up to 48" high may be applied to both faces of the door. For doors with ratings 45 or 60 minutes the plates may be applied with an adhesive and/or wood screws spaced a minimum of 6" on center. For doors with a rating of 90 minutes the plates to be applied to the doors with an adhesive.

CLADDING

Institutional Products Corporation's "PVC" cladding and Acrovyn (with thickness up to 0.062 inches) up to the full size of fire rated doors (wood faced or HPDL faced) may be applied to one or both faces and/or stiles of the doors. When covering the narrow face less than full length, the cladding must be recessed at least 3/4 inch from the stile edges. The cladding may be applied with the peel and stick adhesive applied to the material as purchased or with adhesive as recommended by Institutional Products Corporation or with Swifts No.17383 contact cement (or 3M Fastbond 30-NF) and/or wood screws. Screws must fasten into stiles, rails, or heavy duty blocking in mineral core doors.

METAL EDGES

Inside dimension of metal edge must be same as door thickness. Metal Edges may be veneer wrapped.

CONCEALED VERTICAL RODS

Von Duprin's 9947-WDC-F, 5547-WDC-F, 3347-WDC-F, 9847-WDC-F (8'-0" by 9'-3"); Sargent'sWD 12-8600 (8'-0" by 8'-0"); Monarch's F-17-C, F-18-C, F-CV-C, F-XX-C (8'-0" by 8'-0"); Adam's Rite 3600 WD and American Device's F4100 and F6100 (8'-0" by 8'-0") are approved when used with the appropriate channel. Other listed devices may also be used as long as the cutout does not exceed those of the above devices and 5" metal channels are used.

PLANT - ONS (Applied Moldings)

Wood plant-on moldings may be applied to one or both sides of a door. The following requirements must be observed.

- Maximum width or molding 3"
- Maximum thickness of molding 1¹/₂"
- For 20, 45, and 60-minute doors, adhesive and or mechanical fasteners with a maximum penetration into the door 3/4 "

For 90-minute doors, adhesive only may be used - NO mechanical fasteners may be applied.

Contractor's Material and Test Certificate for	A boveground Piping
A. Procedure (Conforms to NFPA 13-1994)	N. Test Description
Upon completion of work, inspection and tests shall be made by the	Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.0 how) for the house or 50 noi (3.4 have) above static pressure in excess of
defects shall be corrected and system left in service before contractor's	150 psi (10.2 bars) for two hours. Differential dry-pipe valve clappers shall
personnel finally leave the job. A certificate shall be filled out and signed	be left open during test to prevent damage. All aboveground piping leakage
up bount representatives. Copies state of property and approximative's representative's tits, owner's representative's	Pneumatic: Establish 40 psi (2.7 bars) air pressure and measure drop,
signature in no way prejudices any claim against contractor for faulty	which shall not exceed 1.5 psi (0.1 bars) in 24 hrs. 1est pressure tanks at normal water level and air messure and measure air pressure drop. Which
"No" answers shall be explained in	shall not exceed 1.5 psi (0.1 bars) in 24 hrs.
the Comments portion of this form.	0. Tests
s:23.01	1. All pipting nymostatically tested $\mathcal{N}(A)$ \Box Yes \Box No
	3. Equipment operates properly
1. Accepted by Approving Authorities (Names): JEAL	4. Do you certify as the sprinkler contractor that
2. Address:	additives and corrosive chemicals, sourum
4. Equipment used is approved	surgate of derivatives of somului surgate, or the or other corrosive chemicals were not used for
C. Instructions	testing systems or stopping leaks?
1. Has person in charge of fire equipment been	
instructed as to location of control valves and	
care and maintenance of this new equipment ACI as U NO	water supply connection S
2. flave copies of the following occurrent of the promoses.	b. Residual pressure with valve in test connection
b. Care and maintenance instructions	open when the part is the second second second second mains and lead in connections to
c. NFPA 25 Dr.No	o. United ground manus and read in connection made to sprinkler Al A
f system - Supplies building: NUVY UPPo	piping and verified by copy of form No. 13-U D Yes D No
3	7. Flushed by installer of underground piping \Box Yes \Box No
	8. If powder driven fasteners are used in concrete,
What was 2012 15 150 135	nas representauve sampre testing been satisfactorily completed?
	1. Number used: NONE
	2. Locations:
True of Pine Sct (0/40, B/K	3. Number removed:
194	Q. We noted ripting - If we not a piping was used in the system, commisses the following: $a \in [N]$
for st	1 Do voir certify as the sprinkler contractor that
ne to	welding procedures comply with the require-
10 SEC	
H Drv-Pine Valve	2. Do you certify that the welding was performed
Make and Model:	by welders qualified in compliance with the re- outtements of at least AWS D10.9. Level AR-3 D Yes D No
2. Serial Number:	
I. Quick Opening Device (Q.O.D.)	compliance with a documented quality control
2. Serial Number:	procedure to insure that all discs are retrieved, openings in the nine are smooth slag and other
J. Dry-Pipa System Operating Test Without Q.O.D.	welding residue are removed, and the internal
\checkmark	
2. water pressure psi. Air pressure psi.	R. Cutouts (Disks)
t outlet*:	Do you certify that you have a control feature to
5. Alarm operated properly / D Yes D No	S. Hydraulic Data Nameplate Provided D. 254'es DNo
K. Dry-Pipe System Operating Test With C.O.D.	T. Date left in service (with all control valves open): 10-27-12-
2. Water pressure by bi. Air pressure bsi.	
psi/	The second
Time water reached test sutlet*:	(Signed):
J. Alarin operated property L. Deluge and Preaction Valves	Title: Date:
\langle	Title: ASPECTON DETAIL Date: 10-24-12
2. Operation:	al explan
nd/or	All "No" answers must be explained here.)
6. Does each circuit operate supervision loss alarm Tyes DNo	
D Yes	
8. Maximum type to operate release: M Procente Bodincing Valva	
1. Location and Floor:	
2. Make and Model:	
4. Static Pressure: Inlet psi, Outlet psi	
out Out	
0. Frow Kate: gpm *maderwad from time increation test connection is created	☐ Check here if comments continue on reverse side of this form
©1995 National Fire Sprinkler Association, P.O. Box 1000, Patterson, NY 12563, (845) 878-4200	NY 12563. (845) 878-4200 Form 13-A Page 1 of 1