DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

UNUM CORP /Dean & Allyn Inc.

Located at

2211 CONGRESS ST

PERMIT ID: 2012-50151

CBL: 215 B002001

has permission to install Novec 1230 Clean Agent System in LAN and telephone switching rooms. 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 clsoed-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 procured prior to occupancy.

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

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

BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 (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.

REQUIRED INSPECTIONS:

Final - Fire

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.

Cit	ty of Portland, Main	ne - Building or Use Permi	it	Permit No:	Date Applied For:	CBL:
389	Congress Street, 041	01 Tel: (207) 874-8703, Fax:	(207) 874-871	6 201250151	11/13/2012	215 B002001
Loca	ation of Construction:	Owner Name:		Owner Address:		Phone:
22	11 CONGRESS ST	UNUM CORP		2211 CONGRESS	ST	
Busi	iness Name:	Contractor Name:		Contractor Address:		Phone
		Dean & Allyn Inc.	_	P.O. Box 709 Gray		(207) 657-5646
Less	see/Buyer's Name	Phone:		Permit Type: Fire Suppression	Non-Water Based	
Prop	posed Use:		Propo	sed Project Description:		
nor	n water based fire suppre	ssion system		ll Novec 1230 Clean hing rooms.	Agent System in LA	N and telephone
D	ept: Zoning	Status: Approved	Reviewe	r: Marge Schmucka	Approval Da	ate: 11/14/2012
N	ote:				*	Ok to Issue:
					•	
No	ote: A letter of compliance i	Status: Approved w/Conditions s required for the extinguishing s		r: Ben Wallace Jr alarm system record		Ok to Issue:
2)	alarm component.	, annunciator(s), and pull stations	chall be keyed	alika		
		•	shan be keyed	alike.		
,	A Knox Box is required					
4)	All fire alarm records re RECORDS".	equired by NFPA 72 should be sto	ored in an appro	ved cabinet located a	t the FACP labeled '	'FIRE ALARM
5)	System acceptance and Department. Call 874-8	commissioning must be coordina 3703 to schedule.	ted with alarm a	nd suppression system	m contractors and the	e Fire
6)	The fire alarm system sl	nall be certified by a master fire a	larm company a	and have a new fire al	arm inspection stick	er.
7)	City of Portland Chapte NFPA 2001, Standard of City of Portland Fire De NFPA 72, National Fire	mply with the following: r 10, Fire Prevention and Protect on Clean Agent Fire Extinguishing epartment Rules and Regulations; e Alarm and Signaling Code (2010 ctrical Code (2011 edition) as am	g Systems (2008) 0 edition), as an	nended by Fire Depar	tment Rules and Reg	gulations; and

City of Portland, Maine - Building or Use Permit Application 389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

Job No: 2012-11-5387-FAFS	Date Applied: 11/13/2012		CBL: 215- B-002-001			
Location of Construction: 2211 CONGRESS ST	Owner Name: UNUM CORP		Owner Address: 2211 CONGRES PORTLAND, 041	S ST LO2 MAINE - ME		Phone:
Business Name: UNUM	Contractor Name: DEAN & ALLYN		Contractor Addre PO BOX 709, C	ess: GRAY, MAINE 04039)	Phone: 657-5646
Lessee/Buyer's Name:	Phone:		Permit Type: Fire Suppressio	n		Zone: OP
Past Use:	Proposed Use:		Cost of Work: \$76,000.00			CEO District:
Offices & accessory uses	Same: Offices & acce to install fire suppre system in HO1 buildir ground floor switch ro	ssion ng –	Fire Dept:	Approved ω/c Denied NA (58)	onditois	Inspection: Use Group: Type: Signature:
Proposed Project Description			Pedestrian Activi	ties District (P.A.D.)		J.g. and a
Permit Taken By: Gayle				Zoning Approval		
1. This permit application Applicant(s) from meeti Federal Rules. 2. Building Permits do not septic or electrial work. 3. Building permits are voi within six (6) months of False informatin may in permit and stop all work	ing applicable State and include plumbing, id if work is not started the date of issuance. validate a building	Shorelar Wetland Flood Zo Subdivis Site Plar Maj Date: CERTIF	Min _MM	Zoning Appeal Variance Miscellaneous Conditional Use Interpretation Approved Denied Date:	Not in Di Does not Requires Approved Denied Date:	w/Conditions
e owner to make this application as he application is issued, I certify that the enforce the provision of the code(s)	nis authorized agent and I agree he code official's authorized rep	to conform to	all applicable laws of the	nis jurisdiction. In addition	if a permit for wo	rk described in

DATE

PHONE

emailed apies



$\begin{picture}(600.00)\put(0.00){$>$} \put(0.00){$>$} \put(0.$

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

Installation address: 2211 Congress ST	CBL: \$15 BOO2
Exact location: (within structure) Unum HOI LAN/TEL	EPHONE SWITCHROOM GROUND FL
Type of occupancy(s) (NFPA & ICC): LIGHT HAZARD	
Building owner: UNUM	
Managing Supervisor: Hellen NEW ENGLAND	License No: \mathcal{N}/\mathcal{A}
Supervisor phone: 1-800 - 510 - 9621	E-mail: JEFFELOD @ HILLERNE. com
Installing contractor: DEAN & ALLYN	License No: 262
Contractor phone: 207-657-5646	E-mail: DSTELLER CDEAMAND ALLYN-COM
The suppression work to be done will be: New: Renov	ation: Addition to existing system:
This is an amendment to an existing permit: Yes: NO	Permit no:
System Type: NOVEC 1230 CLEAN AGENT	cost of work: 75,367
NFPA Standard: 2001 Edition: 2012	PERMIT FEE: \$780
*Non-NFPA systems are not approved for use within the City of Portland.	(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)
Download a new copy of this document from	
www.portlandmaine.gov/fire for every submittal. Attach all working	RECEIVED
documents as required on electronic PDF's in addition to	NOV 1 3 2012
full sized plans.	
	Dept. of Building Inspections City of Portland Maine
	only of Fordalia Maille
Submit all information to the Building Inspections Department, 389 Cong	gress Street, Room 315, Portland, Maine 04101.
Prior to acceptance of any fire protection system, a complete commiss	sioning and acceptance test must be coordinated with
all fire system contractors and the Fire Department, and proper docum	nentation of such test(s) provided.
All installation(s) must comply with NFPA and the Fire Department T	echnical Standard(s).
Applicant signature:	Date: 1/13/12



Hiller New England Fire Protection, Inc.

240 Ballardvale St.
Wilmington, MA 01887
engineering@hillerne.com
www.hillerne.com
Phone: (978) 657-0016
Sapphire™ Designer Program - ANSL3.61b
UL: EX4510 FM: 3014140
Project: Telephone Switch Room
File Name: A-2576-2r0; Telephone Switch Room.FLC

Consolidated Report Customer Information

Company Name: Unum

Address: 2211 Congress St.

Portland, ME

Phone: Contact: Title:

Project Data

Project Name: Telephone Switch Room

Designer: Engineering Department

Number: NE2576

Account: Location: Description:

Page: 1 of 6

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SAPPHITE"

Consolidated Report Enclosure Information

Elevation:

0 ft (relative to sea level)

Atmospheric Correction Factor:

Enclosure Number:

Name:

Telephone Switch Room

Enclosure Temperature...

Minimum: 65 F

Maximum: 75 F

Maximum Concentration: 4.818 %

Design Concentration...

Adjusted: 4.723 %

Minimum: 4.700 %

Minimum Agent Required: 286.6 lbs

> Width: 40.0 ft

Length: 17.8 ft Height: 9.4 ft

Volume:

6692.8 cubic ft

Non-permeable:

56.4 cubic ft

Total Volume:

6636.4 cubic ft

Adjusted Agent Required:

288.0 lbs

Number of Nozzles:

SAPPHIRE

Consolidated Report Agent Information

Agent: Novec / Propellant N2 (Novec is a trademark of 3M)

Adjusted Agent Required: 288.0 lbs

Container Name: 390 lb Cylinder Assemby

Container Part Number: 570640

Number of Main Containers: 1 Number of Reserve Containers: 0

Manifold: No Manifold

Starting Pressure: 360 psig

Pipe Take Off Direction: Horizontal Agent Per Container: 288.0 lbs

Fill Density: 55.5 lbs / cubic ft

Container Empty Weight: 198.2 lbs

Weight, All Containers + Agent: 486.2 lbs

Floor Area Per Container: 1.40 square ft

Floor Loading Per Container: 348 lbs / square ft

Pipe Network

Part 1 - Pipe				F	Pipe ——		
Description	Start	End	Туре	Diameter	Length	Elevation	
Main Cyl. X 1	0	1		2 in	4.44 ft	4.44 ft	
Adaptor	1	2		2 in	0.28 ft	0.00 ft	
Pipe	2	3	40T	1-1/2 in	8.33 ft	8.33 ft	
Pipe	3	4	40T	1-1/2 in	5.33 ft	0.00 ft	
Pipe	4	5	40T	1-1/2 in	2.75 ft	0.00 ft	
Pipe	5	6	40T	1-1/4 in	1.20 ft	0.00 ft	
Pipe	6	7	40T	1-1/4 in	14.00 ft	0.00 ft	
Pipe	7	8	40T	1-1/4 in	3.60 ft	0.00 ft	
Pipe/E1-N2	8	9	40T	1-1/4 in	3.50 ft	-3.50 ft	
Pipe	5	10	40T	1-1/2 in	14.25 ft	0.00 ft	

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SAPPHITE"

Consolidated Report

Part 1	l - Pipe			_			— Pip	oe		
Descri	ption	Start	End	Т	уре	Dia	meter	Length	Elevation	
Pipe/E	1-N1	10	11	4	ОТ	1-	1/2 in	3.50 ft	-3.50 ft	
Part 2	2 - Equiva	lent Le	ngth							
Start	End	90	45	Thru	Side	Union	Other		Added	Total
0	1	0	0	0	0	0			0.00 ft	35.0 ft
1	2	0	0	0	0	0	2inadap		0.00 ft	1.2 ft
2	3	1	0	0	0	0			0.00 ft	12.6 ft
3	4	1	0	0	0	0			0.00 ft	9.6 ft
4	5	1	0	0	0	0			0.00 ft	7.1 ft
5	6	0	0	0	1	0			0.00 ft	8.7 ft
6	7	1	0	0	0	0			0.00 ft	17.7 ft
7	8	1	0	0	0	0			0.00 ft	7.3 ft
8	9	1	0	0	0	0			0.00 ft	7.2 ft
5	10	0	0	0	1	0			0.00 ft	23.0 ft
10	11	1	0	0	0	0			0.00 ft	7.8 ft

Part 3 - Nozzles

Start	End	Flow	Name	Size	Type	Nozzle Area
0	1	288.0 lbs				
1	2	288.0 lbs				
2	3	288.0 lbs				
3	4	288.0 lbs				
4	5	288.0 lbs				
5	6	115.2 lbs				
6	7	115.2 lbs				
7	8	115.2 lbs				
8	9	115.2 lbs	E1-N2	1-1/4 in	7 Port - BR	0.5870 square in
5	10	172.8 lbs				
10	11	172.8 lbs	E1-N1	1-1/2 in	7 Port - BR	0.8866 square in

Parts Information

Page: 4 of 6

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SAPPHIRE"

Consolidated Report

Total Agent Required: 288.0 lbs

Container Name: 390 lb Cylinder Assemby (Part: 570640)

Number Of Containers: 1

Field1

Nozzle	Туре	Diameter	Nozzle Area	Part Number	
E1-N1	7 Port - BR	1-1/2 in	0.8866 square in	570519	
E1-N2	7 Port - BR	1-1/4 in	0.5870 square in	570518	
Nozzle	Drill Diamete	er	Drill Size		
E1-N1	0.4016 inch	es	10.20 mm		
E1-N2	0.3268 inch	es	8.30 mm		
Pipe:	Туре	Diameter	Length		
	40T	1-1/4 in	22.30 ft		
	40T	1-1/2 in	34.16 ft		

'Other' Items:

1 - 2 in Union Adaptor (Part: 570558)

List of 90 degree elbows:

4 - 1-1/2 in

3 - 1-1/4 in

List of Tees:

1 - 1-1/2 in

System Acceptance

System Discharge Time: 9.3 seconds

Percent Agent In Pipe: 28.7%

Percent Agent Before First Tee: 11.9%

Enclosure Number: 1

Enclosure Name: Telephone Switch Room

Minimum Design Concentration: 4.700% Adjusted Design Concentration: 4.723%

Predicted Concentration: 4.723%

Page: 5 of 6

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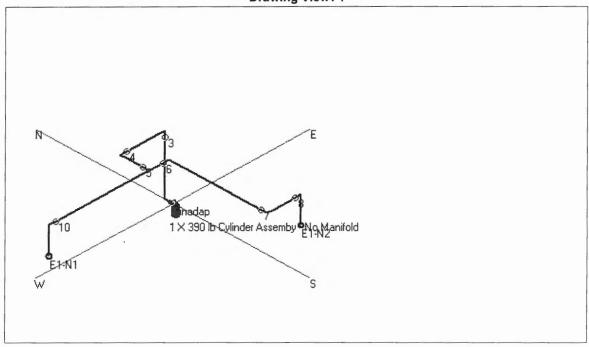


Consolidated Report

Maximum Expected Agent Concentration: 4.818% (At 75 F)

Nozzle	Minimum Agent Required	Adjusted Agent Required	Predicted Agent Delivered	Nozzle Pressure (Average)	
E1-N1	172.0 lbs	172.8 lbs	172.2 lbs	96 psig	
E1-N2	114.6 lbs	115.2 lbs	115.8 lbs	90 psig	

Drawing View: 1





Hiller New England Fire Protection, Inc.

240 Ballardvale St.
Wilmington, MA 01887
engineering@hillerne.com
www.hillerne.com
Phone: (978) 657-5550 FAX: (978) 657-0016
Sapphire™ Designer Program - ANSL3.61b
UL: EX4510 FM: 3014140
Project: Lan Room
File Name: A-2576-1r0; Lan Room.FLC

Consolidated Report Customer Information

Company Name: Unum

Address: 2211 Congress St.

Portland, ME

Phone: Contact: Title:

Project Data

Project Name: Lan Room

Designer: Engineering Department

Number: NE2576

Account: Location: Description:

Page: 1 of 6

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SAPPHIRE"

Consolidated Report

Total Agent Required: 379.0 lbs

Container Name: 850 lb Cylinder Assemby (Part: 570586)

Number Of Containers: 1

Field1

Nozzle	Туре	Diameter	Nozzle Area	Part Number
E1-N1	16 Port - BR	1-1/4 in	0.5471 square in	570605
E1-N2	16 Port - BR	1-1/2 in	0.9273 square in	570606
Nozzle	Drill Diamete	r	Drill Size	
E1-N1	0.2087 inche	s	5.30 mm	
E1-N2	0.2717 inche	s	6.90 mm	
Pipe:	Туре	Diameter	Length	
	40T	1-1/4 in	6.00 ft	
	40T	1-1/2 in	72.83 ft	

'Other' Items:

1 - 3 in Flared to NPT Valve Adapter (Part: 69470)

List of 90 degree elbows:

6 - 1-1/2 in

1 - 1-1/4 in

List of Tees:

1 - 1-1/2 in

System Acceptance

System Discharge Time: 9.8 seconds

Percent Agent In Pipe: 36.0%

Percent Agent Before First Tee: 23.9%

Enclosure Number: 1

Enclosure Name: Lan Room

Minimum Design Concentration: 4.700% Adjusted Design Concentration: 4.773%

Predicted Concentration: 4.773%

Page: 5 of 6

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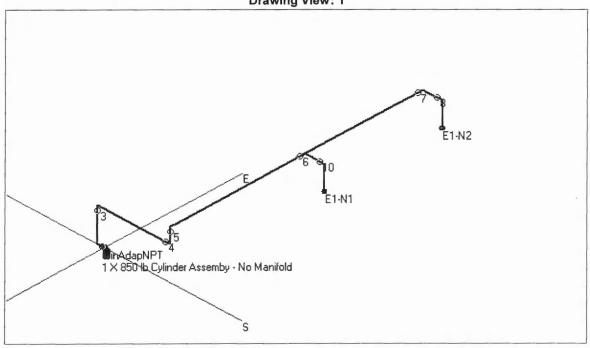


Consolidated Report

Maximum Expected Agent Concentration: 4.869% (At 75 F)

Nozzle	Minimum Agent Required	Adjusted Agent Required	Predicted Agent Delivered	Nozzle Pressure (Average)	
E1-N1	112.2 lbs	114.0 lbs	113.4 lbs	126 psig	
E1-N2	260.7 lbs	265.0 lbs	265.6 lbs	109 psig	

Drawing View: 1



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Receipts Details:

Tender Information: Check, BusinessName: mastercard, Check Number: 7484\$30.00

Tender Amount: 30.00

Receipt Header:

Cashier Id: gguertin

Receipt Date: 11/14/2012 Receipt Number: 50204

Receipt Details:

Referance ID:	8716	Fee Type:	BP-Constr	
Receipt Number:	0	Payment		
		Date:		
Transaction	30.00	Charge	30.00	
Amount:		Amount:		
Job ID: Job ID: 2012	-11-5387-FAFS - non water based fire	re suppression system		
Additional Comme	ents: 2211 congress			

Thank You for your Payment!



PORTLAND MAINE

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Receipts Details:

Tender Information: Check, BusinessName: mastercard, Check Number: 7484\$30.00

Tender Amount: 30.00

Receipt Header:

Cashier Id: gguertin

Receipt Date: 11/14/2012 Receipt Number: 50204

Receipt Details:

Referance ID:	8716	Fee Type:	BP-Constr
Receipt Number:	0	Payment	
		Date:	
Transaction	30.00	Charge	30.00
Amount:		Amount:	
Job ID: Job ID: 2012	-11-5387-FAFS - non water based fi	re suppression system	
Additional Comme	ents: 2211 congress		

Thank You for your Payment!