

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

HASKELL DAVID W & KAREN S HASKELL JTS/High
Tech Fire Protection

PERMIT ID: 2013-00043

Located at

107 HERSEY ST

CBL: 128 C010001

has permission to **install NFPA 13D sprinkler system.**

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.

City of Portland, Maine - Building or Use Permit

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

Permit No: 2013-00043	Date Applied For: 01/08/2013	CBL: 128 C010001
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Location of Construction: 107 HERSEY ST	Owner Name: HASKELL DAVID W & KAREN S	Owner Address: 107 HERSEY ST	Phone:
Business Name:	Contractor Name: High Tech Fire Protection	Contractor Address: P.O. Box 156 Minot	Phone (207) 998-2551
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	

Proposed Use: Single Family	Proposed Project Description: install NFPA 13D sprinkler system.
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Dept: Zoning Note:	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 01/08/2013 Ok to Issue: <input checked="" type="checkbox"/>
Dept: Fire Note:	Status: Approved w/Conditions	Reviewer: Ben Wallace Jr	Approval Date: 02/26/2013 Ok to Issue: <input checked="" type="checkbox"/>
<ol style="list-style-type: none"> 1) The sprinkler system shall be installed in accordance with NFPA 13D. 2) All control valves shall be supervised in accordance with NFPA 13D. Pad locks shall only be installed on valves designed to be secured in the open position by pad lock. 3) A copy of the required state sprinkler permit with RMS signoff shall be provided prior to the final inspection. 			

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 2013-00043	Issue Date:	CBL: 128 C010001
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Location of Construction: 107 HERSEY ST	Owner Name: HASKELL DAVID W & KAREN S HASKELL JTS	Owner Address: 107 HERSEY ST PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: High Tech Fire Protection	Contractor Address: P.O. Box 156 Minot ME 04258	Phone (207) 998-2551
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	Zone: R3
Past Use: Single Family	Proposed Use: Single Family	Permit Fee:	Cost of Work: \$0.00
Proposed Project Description: Fire Suppression; Single Family. No Charge.		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A <i>2/26/13</i>	INSPECTION: Use Group: Type:
		Signature: <i>[Signature]</i> (58)	Signature:
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)			
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied			
		Signature:	Date:

Permit Taken By: bjs	Date Applied For: 01/08/2013	Zoning Approval	
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<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. 	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>OK 1/16/13</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
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CERTIFICATION

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
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

Fittings Used Summary

HIGH TECH FIRE PROTECTION
2ND FLOOR MASTER BEDROOM

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Date 11-12-12

Fitting Legend

Abbrev.	Name	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24
B	Generic Butterfly Valve	0	0	0	5	6	7.5	7	10	0	12	9	10	12	19	21	0	0	0	0	0
E	90' Standard Elbow	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
O *	CPVC Tee - Branch	3	3	5	6	8	10	12	15	0	0	0	0	0	0	0	0	0	0	0	0
S	Generic Swing Check Valve	4	5	5	7	9	11	14	16	19	22	27	32	45	55	65	76	87	98	109	130
T	90' Flow thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121

Units Summary

Diameter Units	Inches
Length Units	Feet
Flow Units	US Gallons per Minute
Pressure Units	Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
DP1	25.0	4.9	9.1	na	14.78	0.05	256	9.1
100	26.0	K = K @ EQ01	20.49	na	14.78			
101	26.0	K = K @ EQ01	20.95	na	14.95			
102	26.0		21.7	na				
103	26.0		23.33	na				
104	26.0		25.96	na				
105	26.0		28.49	na				
106	17.0		34.21	na				
107	17.0		36.07	na				
108	8.0		41.09	na				
109	8.0		43.63	na				
TOR	8.0		44.44	na				
BOR	0.0		52.01	na				
PMP	0.0		52.03	na				

The maximum velocity is 10.02 and it occurs in the pipe between nodes 101 and 102

HIGH TECH FIRE PROTECTION
2ND FLOOR MASTER BEDROOM

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	0.0 29.73				52.028			K Factor = 4.12	

HYDRAULIC DESIGN INFORMATION SHEET

Name - HASKELL RESIDENCE Date - 11-12-12
 Location - 107 HERSEY ST PORTLAND
 Building - HOUSE System No. - WET
 Contractor - SLOCUM BUILDERS Contract No. - 102412-1
 Calculated By - HIGH TECH FIRE PROTECTION Drawing No. -
 Construction: (X) Combustible () Non-Combustible Ceiling Height 8-0
 OCCUPANCY - RESIDENTIAL LIVING SPACE

S Type of Calculation: ()NFPA 13 Residential ()NFPA 13R (X)NFPA 13D
 Y Number of Sprinklers Flowing: ()1 (X)2 ()4 ()
 S ()Other
 T ()Specific Ruling Made by Date
 E
 M Listed Flow at Start Point - 29 Gpm System Type
 Listed Pres. at Start Point - 52 Psi (X) Wet () Dry
 D MAXIMUM LISTED SPACING 16 x 16 () Deluge () PreAction
 E Domestic Flow Added - 0 Gpm Sprinkler or Nozzle
 S Additional Flow Added - 0 Gpm Make RELIABLE Model RFC -49
 I Elevation at Highest Outlet - 26 Feet Size 1/2" K-Factor 4.9
 G Note: Temperature Rating
 N

Calculation Summary Gpm Required 29 C-Factor Used: Psi Required 52 Overhead 150 At Test Underground 150

W Water Flow Test: Pump Data: Tank or Reservoir:
 A Date of Test - Rated Cap. Cap.
 T Time of Test - @ Psi Elev.
 E Static (Psi) - 54 Elev.
 R Residual (Psi) - 53 Other Well
 Flow (Gpm) - 45 Proof Flow Gpm
 S Elevation - 0

P Location:
 P
 L Source of Information:
 Y

Water Supply Curve (C)

HIGH TECH FIRE PROTECTION
2ND FLOOR MASTER BEDROOM

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Date 11-12-12

City Water Supply:
C1 - Static Pressure : 54
C2 - Residual Pressure: 53
C2 - Residual Flow : 45

Demand:
D1 - Elevation : 11.261
D2 - System Flow : 29.7303
D2 - System Pressure : 52.028
Hose (Adj City) : _____
Hose (Demand) : _____
D3 - System Demand : 29.7303
Safety Margin : 1.507

