DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

GELINAS HVAC & PLUMBING

2 WASHINGTON AVE

SCARBOROUGH, ME 04074

For installation at 47 LAFAYETTE ST

Job ID: 2012-06-4179-FAFS

CBL: 014- C-007-001

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 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 Revention Officer

Code Enforcement Officer / Plan Reviewer

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

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.

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.



PORTLAND MAINE

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

Director of Planning and Urban Development Jeff Levine

Job ID: 2012-06-4179-FAFS install NFPA 13D sprinkler system

For installation at: 47 LAFAYETTE ST

CBL: 014- C-007-001

Conditions of Approval:

Fire

Installation shall be in accordance with the City of Portland Fire Department Regulations and NFPA 13D.

A copy of the State Sprinkler permit with RMS date and signature shall be provided prior to scheduling of the final inspection.

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.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-06-4179-FAFS	Date Applied: 6/7/2012		CBL: 014- C-007-001			
Location of Construction: 47 LAFAYETTE ST	Owner Name: JOSH WOJCIK		Owner Address: 49 LAFAYETTE S' PORTLAND, ME 0			Phone: 749-9656
Business Name:	Contractor Name: William W Gelinas		Contractor Address 2 WASHINGTON	ess: AVE SCARBOROUG	CH MAINE 04074	Phone: (207) 885-0771
Lessee/Buyer's Name:	Phone:		Permit Type: SPRINKLER	Manager Control of the Control of th		Zone: R-6
Past Use:	Proposed Use:		Cost of Work: \$13,000.00	***************************************		CEO District
Two family dwelling	Same: two family dw install a fire suppress system	velling — to sion	Fire Dept:	Approved W Denied N/A	and itions	Inspection: Use Group: Type:
Proposed Project Description			Signature: Signature: Pedestrian Activi	ities District (P.A.D.)	Signature:
Permit Taken By: Brad				Zoning Approv	al	
		Special Zo	one or Reviews	Zoning Appeal	Historic Pr	eservation
1. This permit application Applicant(s) from meet Federal Rules. 2. Building Permits do not septic or electrial work 3. Building permits are vowithin six (6) months of False informatin may in permit and stop all work ereby certify that I am the owner of owner to make this application as application is issued, I certify that enforce the provision of the code(s)	ot include plumbing, c. oid if work is not started of the date of issuance. Invalidate a building rk. of record of the named property, of his authorized agent and I agree the code official's authorized representation.	to conform to	me ion MinMM Z CATION osed work is authorized all applicable laws of the	nis jurisdiction. In addition	Does not I Requires I Approved Approved Denied Date: and that I have been a on, if a permit for won	w/Conditions w/Conditions authorized by the described in

Extend 6/18

OILL

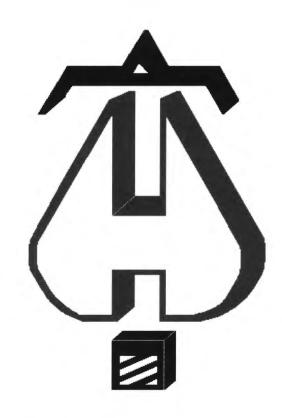
One- or Two-family Fire Sprinkler Permit

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: 49 LAF4	SETTE -
Building owner: Josh Wolcer	
Installer: GELOWAS PLUMBING	Phone: 885/0771 749-749
Total sq/ft of building floor space per unit:	Single-family home
Sq/ft of sprinklered floor space per unit:	Two-family home
Is this a multipurpose piping system? Y / N	Sprinkler piping uses Pex? Y / N
Water supply: Municipal Water Well pump	Stored water Other
Include electronic copy of approved State Spri	.nkler Permit plans: 🔀
Additional cost to the owner for the home fire	sprinkler system for each dwelling
unit minus costs necessary for domestic needs	(See below): A=
Attach cost breakdown: A City plu	mbing permit has been pulled: 📈
	COST OF WORK: 13, 000, 00 (A times number of units)
CRILA	(A times number of units)
RECEIVED	
JUN 07 2012	NO FEE REQUIRED
July Inspections	
JUN 0 / Lo Dept. of Building Inspections Dept. of Portland Maine	

Additional information and Frequently asked questions about home fire sprinkler systems may be found at www.portlandmaine.gov/fireprevention.

Sprinkler system cost must deduct costs that would have been incurred if the system did not provide sprinkler service. In a well pump system it would include the difference between the well pump to be installed and the one that would have been installed if there were no sprinkler demand on the system. Includes additional piping and valves that are required only because of NFPA Standard 13D, and not already required for domestic needs. Includes cost of sprinkler heads and additional installation costs.



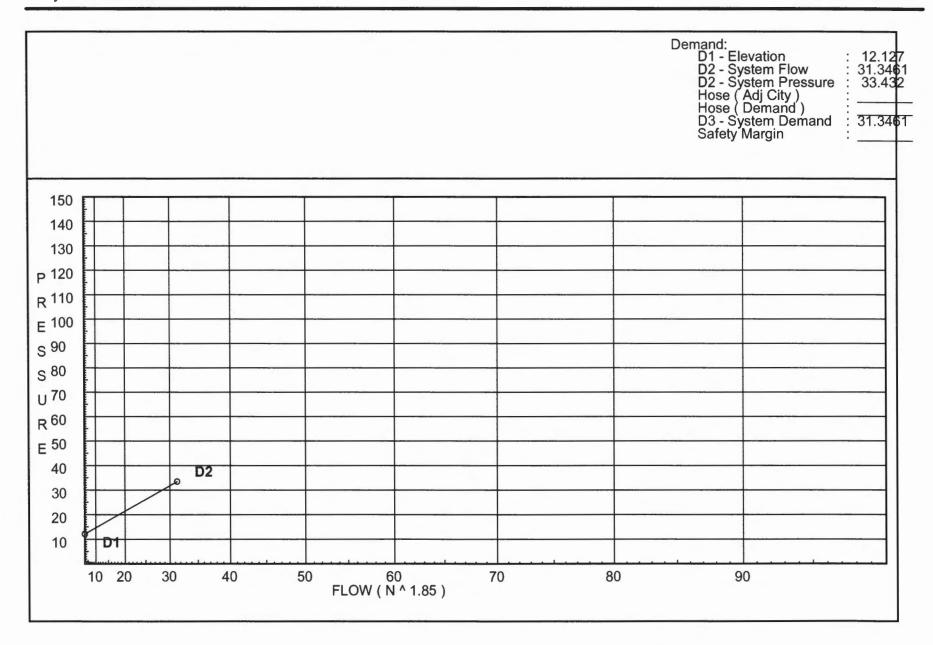
. . . Fire Protection by Computer Design

FIRE PROTECTION DESIGNS PO BOX 472 AUBURN, ME 04212-0472 207-440-0676

Job Name : Lafayette Street 2nd floor

Building : Location : System : Contract :

Data File : 2ND FLOOR.WXF



Fittings Used Summary

	PROTECTION DESIGNS vette Street 2nd floor																		age 2 ate 5	2 5/31/12	2
	Legend v. Name	1/2	3/4	1	11/4	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	
Bt Pe * Pr *	Ball Vic 728 Thrd RF PEX 90' Ell RF PEX Tee-Run RF PEX Tee-Branch	0 1 0.5 1.5	0 4 3 13	0.5 4 1 4	1 2 1 3	1.7 2.5 1 3.5	0.5 3.5 1 5	0 4 1.5 6	0 5 1.5 7.5	0 6 2 9	0 7 2 10.5	0 9 2.5 13	0 10 3 15	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0
S 130	Generic Swing Check Valve	4	5	5	7	9	11	14	16	19	22	27	32	45	55	65	76	87	98	109	U

Units Summary

Diameter Units

Inches

Length Units

Feet US Gallons per Minute

Flow Units 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.

Pressure / Flow Summary - STANDARD

FIRE PROTECTION DESIGNS Lafayette Street 2nd floor

Page 3 Date 5/31/12

Node	Elevation	K-Fact	Pt	Pn	Flow	Density	Area	Press
No.			Actual		Actual			Req.
200	27.0	4	11.09	na	13.32	0.05	256	10.6
201	24.0		12.96	na	10.02	0.00	200	10.0
202	24.0		13.37	na				
205	29.0	4	10.6	na	13.02	0.05	256	10.6
206	24.0		13.4	na				
210	24.0		16.97	na				
110	15.0		21.09	na				
111	15.0		21.32	na				
207	24.0		15.18	na				
105	15.0		20.07	na				
10	7.0		24.82	na				
15	7.0		25.0	na				
11	7.0		27.11	na				
TOR	7.0		28.74	na				
BOR	1.0		33.43	na	5.0			

The maximum velocity is 10.76 and it occurs in the pipe between nodes 11 and TOR

FIRE PROTECTION DESIGNS Lafayette Street 2nd floor

Page 4 Date 5/31/12

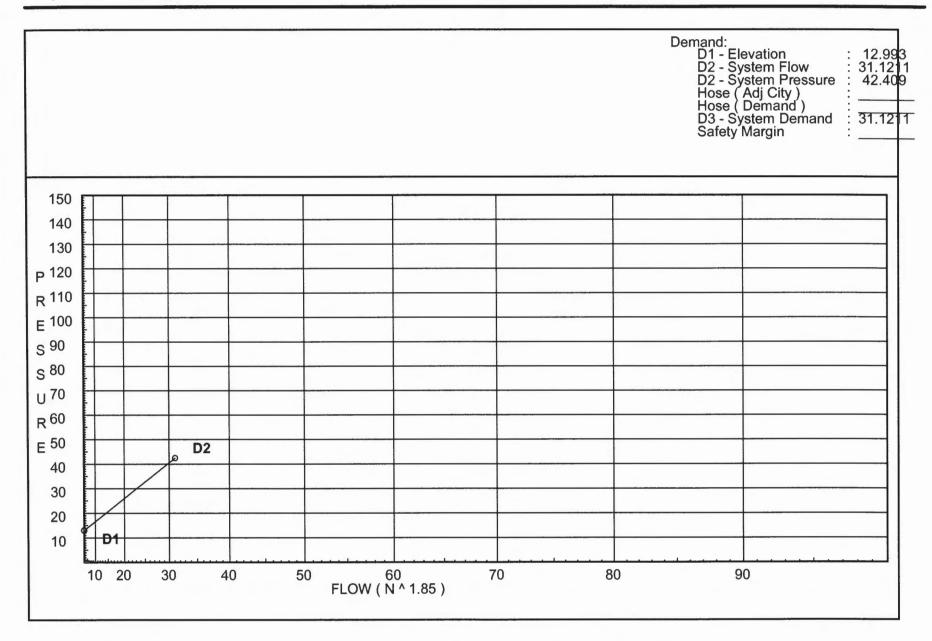
Hyd. Ref. Point	Qa Dia. "C" Qt Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	****** Notes *****
200 to	13.32 1.0 150.0	2Pe 8.0 0.0	3.000 8.000	11.094 1.299		K Factor = 4.00
201	13.32 0.0513	0.0	11.000	0.564		Vel = 5.44
201	0.0 1.0	1Pt 4.0	4.000	12.957		
to 202	150.0 13.32 0.0512	0.0 0.0	4.000 8.000	0.0 0.410		Vel = 5.44
202	-7.35 1.0	1Pr 1.0	2.200	13.367		VGI - 0.44
to	150.0	0.0	1.000	0.0		
206	5.97 0.0116	0.0	3.200	0.037		Vel = 2.44
	0.0 5.97			13.404		K Factor = 1.63
205 to	13.02 1.0 150.0	1Pe 4.0 1Pt 4.0	5.000 8.000	10.600 2.166		K Factor = 4.00
206	13.02 0.0491	0.0	13.000	0.638		Vel = 5.32
206	5.97 1.0	2Pt 8.0	10.000	13.404		
to	150.0	0.0	8.000	0.0		
207	18.99 0.0988	0.0	18.000	1.779		Vel = 7.76
	0.0 18.99			15.183		K Factor = 4.87
202	7.35 0.75	4Pr 12.0	36.000	13.367		
to	150.0	1Pe 4.0	16.000	0.0		V-1 - 5 24
210	7.35 0.0693	0.0	52.000	3.606		Vel = 5.34
210 to	0.0 1.0 150.0	1Pt 4.0 0.0	9.000 4.000	16.973 3.898		
110	7.35 0.0171	0.0	13.000	0.222		Vel = 3.00
110	0.0 1.0	1Pt 4.0	8.000	21.093		
to	150.0	1Pr 1.0	5.000	0.0		
111	7.35 0.0171	0.0	13.000	0.222		Vel = 3.00
111	0.0 1.0	1Pt 4.0	9.000	21.315		
to 15	150.0 7.35 0.0171	0.0 0.0	4.000 13.000	3.465 0.222		Vel = 3.00
	0.0	0.0	13.000	0.222		Ver = 3.00
	7.35			25.002		K Factor = 1.47
207	18.99 1.0	1Pr 1.0	9.000	15.183		
to	150.0	0.0	1.000	3.898		
105	18.99 0.0987	0.0	10.000	0.987		Vel = 7.76
105	0.0 1.0	1Pt 4.0	9.000	20.068		
to	150.0	0.0	4.000	3.465		Val - 7.76
10	18.99 0.0988	0.0	13.000	1.284		Vel = 7.76
10 to	-4.02 1.0 150.0	1Pt 4.0 2Pr 2.0	30.000 6.000	24.817 0.0		
11	14.97 0.0636	0.0	36.000	2.290		Vel = 6.12

Final Calculations - Hazen-Williams

FIRE PROTECTION DESIGNS Lafayette Street 2nd floor

Page 5 Date 5/31/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fittir or Eqv.	_	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	****** Notes *****
						,		
	0.0 14.97					27.107		K Factor = 2.88
10	4.02	1.0	1Pr	1.0	32.000	24.817		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
to		150.0		0.0	1.000	0.0		
15	4.02	0.0056		0.0	33.000	0.185		Vel = 1.64
15	7.36	1.0	1Pt	4.0	47.000	25.002		
to		150.0	4Pr	4.0	8.000	0.0		
11	11.38	0.0383		0.0	55.000	2.105		Vel = 4.65
11	14.97	1.0	1Pe	4.0	5.000	27.107		
to		150.0		0.0	4.000	0.0		
TOR	26.35	0.1810		0.0	9.000	1.629		Vel = 10.76
TOR	0.0	1.0	1Bt	0.599	5.000	28.736		
to		150.0	18	5.985	6.584	2.599		
BOR	26.35	0.1810		0.0	11.584	2.097		Vel = 10.76
	5.00							Qa = 5.00
	31.35					33.432		K Factor = 5.42



Fittings Used Summary

	PROTECTION DESIGNS rette Street 3rd floor																		age 2	2 5/31/12	2
	Legend v. Name	1/2	3/4	1	11/4	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	
Bt Pe * Pr * Pt * S 130	Ball Vic 728 Thrd RF PEX 90' Ell RF PEX Tee-Run RF PEX Tee-Branch Generic Swing Check Valve	0 1 0.5 1.5 4	0 4 3 13 5	0.5 4 1 4 5	1 2 1 3 7	1.7 2.5 1 3.5 9	0.5 3.5 1 5	0 4 1.5 6 14	0 5 1.5 7.5 16	0 6 2 9 19	0 7 2 10.5 22	0 9 2.5 13 27	0 10 3 15 32	0 0 0 0 45	0 0 0 0 55	0 0 0 0 65	0 0 0 0 76	0 0 0 0 87	0 0 0 0 98	0 0 0 0 109	0 0 0

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.

Pressure / Flow Summary - STANDARD

FIRE PROTECTION DESIGNS Lafayette Street 3rd floor

Page 3 Date 5/31/12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
300	31.0	4.9	7.0	na	12.96	0.05	256	7.0
301	31.0	4.9	7.21	na	13.16	0.05	256	7.0
303	31.0		14.42	na				
302	31.0		17.23	na				
207	24.0		22.05	na				
105	15.0		27.73	na				
10	7.0		33.51	na				
15	7.0		34.5	na				
11	7.0		36.14	na				
TOR	7.0		37.75	na				
BOR	1.0		42.41	na	5.0			

The maximum velocity is 11.53 and it occurs in the pipe between nodes 301 and 302

FIRE PROTECTION DESIGNS Lafayette Street 3rd floor

Page 4 Date 5/31/12

Larayotto	Olicot ora noor					Date 0/01/12
Hyd. Ref. Point	Qa Dia. "C" Qt Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	****** Notes *****
300	2.72 0.75	1Pr 3.0	16.000	7.000		K Factor = 4.90
to	150.0	0.0	3.000	0.0		
301	2.72 0.0111	0.0	19.000	0.210		Vel = 1.98
301	13.16 0.75	2Pr 6.0	15.800	7.210		K Factor = 4.90
to	150.0	1Pt 13.0	19.000	0.0		\/al = 11.53
302	15.88 0.2880	0.0	34.800	10.023		Vel = 11.53
	0.0 15.88			17.233		K Factor = 3.83
300	10.24 0.75	2Pr 6.0	39.000	7.000		K 1 actor = 0.00
to	150.0	1Pt 13.0	19.000	0.0		
303	10.24 0.1279	0.0	58.000	7.419		Vel = 7.44
303	0.0 0.75	1Pr 3.0	6.000	14.419		
to	150.0	1Pt 13.0	16.000	0.0		
302	10.24 0.1279	0.0	22.000	2.814		Vel = 7.44
302	15.88 1.0	1Pr 1.0	9.000	17.233		
to	150.0	0.0	1.000	3.032		
207	26.12 0.1781	0.0	10.000	1.781		Vel = 10.67
207	0.0 1.0	1Pr 1.0	9.000	22.046		
to	150.0	0.0	1.000	3.898		Val = 10.67
105	26.12 0.1782	0.0	10.000	1.782		Vel = 10.67
105 to	0.0 1.0 150.0	1Pt 4.0 0.0	9.000 4.000	27.726 3.465		
10	26.12 0.1781	0.0	13.000	2.315		Vel = 10.67
10	-9.96 1.0	2Pr 2.0	30.000	33.506		
to	150.0	1Pt 4.0	6.000	0.0		
11	16.16 0.0732	0.0	36.000	2.637		Vel = 6.60
	0.0					
	16.16			36.143		K Factor = 2.69
10	9.97 1.0	1Pr 1.0	32.000	33.506		
to	150.0	0.0	1.000	0.0		
15	9.97 0.0300	0.0	33.000	0.989		Vel = 4.07
15	0.0 1.0	4Pr 4.0	47.000	34.495		
to	150.0	1Pt 4.0 0.0	8.000 55.000	0.0 1.648		Vel = 4.07
11	9.97 0.0300		5.000	36.143		VGI - 4.07
11 to	16.15 1.0 150.0	1Pe 4.0 0.0	4.000	0.0		
TOR	26.12 0.1781	0.0	9.000	1.603		Vel = 10.67
TOR	0.0 1.0	1Bt 0.599	5.000	37.746		
to	150.0	1S 5.985	6.584	2.599		
BOR	26.12 0.1782	0.0	11.584	2.064		Vel = 10.67

Final Calculations - Hazen-Williams

31.12

Hyd.	Qa	Dia.	Fitting	Pipe	Pt	Pt		
Ref.		"C"	or	Ftng's	Pe	Pv	*****	Notes ******
Point	Qt	Pf/Ft	Eqv. Ln.	Total	Pf	Pn		

42.409

K Factor = 4.78



FREEDOM® RESIDENTIAL PENDENT SPRINKLER VK468 (K4.9)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

1. DESCRIPTION

Viking Freedom® Residential Pendent Sprinkler VK468 is a small, thermosensitive, glassbulb residential sprinkler available in several different finishes and temperature ratings to meet varying design requirements. The orifice design, with a K-Factor of 4.9 (70.6 metrict), allows efficient use of available water supplies for the hydraulically designed fire-protection system. The glass bulb operating element and special deflector characteristics meet the challenges of residential sprinkler standards.

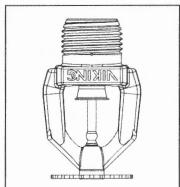
2. LISTINGS AND APPROVALS

շ(Սլ)սs cULus Listed: Category VKKW

NYC Approved: MEA 89-92-E, Volume 35

NSF Certified: NSF/ANSI Standard 61, Drinking Water System Components Refer to the Approval Chart on page 149o and Design Criteria on page 149r for





3. TECHNICAL DATA

Specifications:

Available since 2006.

Minimum Operating Pressure: Refer to the Approval Chart.

Maximum Working Pressure: 175 psi (12 bar). Factory tested hydrostatically to 500 psi (34.5 bar).

Thread size: 1/2" (15 mm) NPT

Nominal K-Factor: 4.9 U.S. (70.6 metric†)

†Metric K-factor measurement shown is in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

Glass-bulb fluid temperature rated to -65 °F (-55 °C)

Overall Length: 2-1/4" (58 mm)

Material Standards:

Frame Casting: Brass UNS-C84400 or QM Brass

Deflector: Brass UNS-C23000, Phosphor Bronze UNS-C51000, or Brass

UNS-C26000

Bulb: Glass, nominal 3 mm diameter

Belleville Spring Sealing Assembly: Nickel Alloy, coated on both sides with

Pip Cap and Insert Assembly: Copper UNS-C11000 and Stainless Steel UNS-S30400

Compression Screw: Brass UNS-C36000

Ordering Information: (Also refer to the current Viking price list.)

Sprinkler: Base Part No. 13637

Order Sprinkler VK468 by first adding the appropriate suffix for the sprinkler finish and then the appropriate suffix for the temperature rating to the sprinkler base part number.

Finish Suffix: Brass = A, Chrome-Enloy[®] = F, and White Polyester = M-/W

Temperature Suffix: 155 °F (68 °C) = B, 175 °F (79 °C) = D

For example, sprinkler VK468 with a Brass finish and a 155 °F (68 °C) temperature rating = Part No. 13637AB.

Available Finishes And Temperature Ratings:

Refer to Table 1.

Accessories: (Also refer to the "Sprinkler Accessories" section of the Viking data book.)

Sprinkler Wrenches:

A. Standard Wrench: Part No. 10896W/B (available since 2000)

B. Wrench for recessed sprinklers: Part No. 13577W/B* (available since 2006)

C. Optional Protective Sprinkler Cap Remover/Escutcheon Installer Tool** Part No. 15915 (available since 2010.)

*A 1/2" ratchet is required (not available from Viking).

**Allows use from the floor by attaching a length of 1" diameter CPVC tubing to the tool. Ideal for sprinkler cabinets. Refer to Bulletin F_051808.

Viking Technical Data may be found on

The Viking Corporation's Web site at

http://www.vikinggroupinc.com.

The Web site may include a more recent

edition of this Technical Data Page.

Sprinkler 149n January 13, 2012



TECHNICAL DATA

FREEDOM® RESIDENTIAL PENDENT SPRINKLER VK468 (K4.9)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

Sprinkler Cabinets:

A. Six-head capacity: Part No. 01724A (available since 1971)

B. Twelve-head capacity: Part No. 01725A (available since 1971)

4. INSTALLATION

Refer to appropriate NFPA Installation Standards. For NFPA 13D horizontal ceiling criteria and slopes, refer to TIA 1028R for slope ceiling criteria exceptions.

5. OPERATION

During fire conditions, the heat-sensitive liquid in the glass bulb expands, causing the glass to shatter, releasing the pip cap and sealing spring assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

6. INSPECTIONS, TESTS AND MAINTENANCE

Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

7. AVAILABILITY

The Viking Model VK468 Sprinkler is available through a network of domestic and international distributors. See The Viking Corporation web site for the closest distributor or contact The Viking Corporation.

8. GUARANTEE

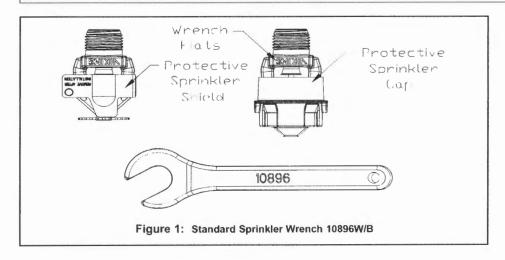
For details of warranty, refer to Viking's current list price schedule or contact Viking directly.

TABLE 1:	AVAILABLE SPRINKLER TEMPERA	ATURE RATINGS AND FINISHES	
Sprinkler Temperature Classification	Sprinkler Nominal Temperature Rating¹	Maximum Ambient Ceiling Temperature ²	Bulb Colo
Ordinary	155 °F (68 °C)	100 °F (38 °C)	Red
Intermediate	175 °F (79 °C)	150 °F (65 °C)	Yellow

Sprinkler Finishes: Brass, Chrome-Enloy® (patents pending), and White Polyester

Footnotes

² Based on NFPA-13. Other limits may apply, depending on fire loading, sprinkler location, and other requirements of the Authority Having Jurisdiction. Refer to specific installation standards.



¹ The sprinkler temperature rating is stamped on the deflector.



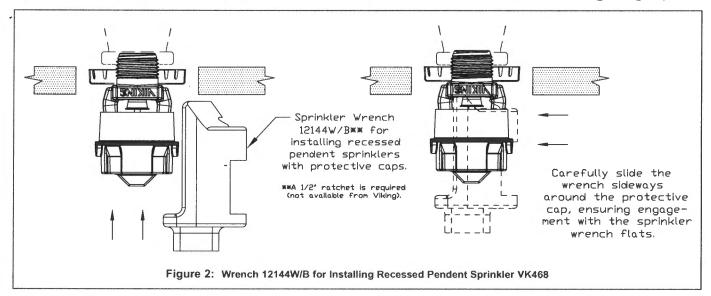
FREEDOM® RESIDENTIAL PENDENT SPRINKLER VK468 (K4.9)

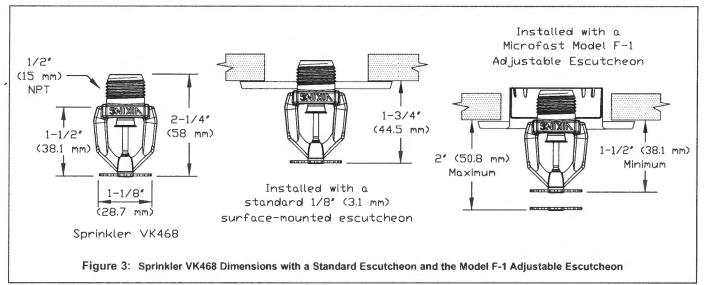
	For sy			NFPA 13D	er VK	NFPA 1		Finis A1X + Escu	perature KE h tcheon (if applic	
Sprinkler Base	CIN	NPT Thread	Size	Nomina	ı K-F	actor	Maxin	num Water	Overall	Length
Part Number¹	SIN	Inches	mm	U.S.	me	etric²	Workin	g Pressure	Inches	mm
13637	VK468	1/2	15	4.9	7	0.6	175 p	si (12 bar)	2-1/4	58
Maximum Areas of	Coverage ⁴	Minimum Water	Supply Re	quirements	4	(ngs and Appro		r.)
						cU	Lus⁵	NYC ⁶	N	SF ⁸
Installed b	elow smooth, f	lat, horizontal ceil	ings, includ	ding ceiling	s wit	h slope:	s up to an	d including 2/	12 (9.5°).	
12 ft. x 12 ft. (3.7 i	m x 3.7 m)	13 gpm @ 7.0 psi	(49.2 L/mir	@ 0.48 ba	ır)	A	1X	A1X	A	1X
14 ft. x 14 ft. (4.3 r	m x 4.3 m)	13 gpm @ 7.0 psi	(49.2 L/mir	n @ 0.48 ba	ır)	A	1X	A1X	A	1X
16 ft. x 16 ft. (4.9 r	m x 4.9 m)	13 gpm @ 7.0 psi	(49.2 L/mir	0.48 ba	r)	Δ	1X	A1X	A	1X
18 ft. x 18 ft. (5.5 i	m x 5.5 m)	17 gpm @ 12.0 ps	i (64.4 L/mi	n @ 0.83 b	ar)	Д	1X	A1X	А	1X
20 ft. x 20 ft. (6.1 r	m x 6.1 m)	20 gpm @ 16.7 ps	i (75.7 L/mi	n @ 1.15 b	ar)	A	1X	A1X	A	1X
		Installed bel	ow horizon	tal ceilings	with	beams				
12 ft. x 12 ft. (3.7 r	m x 3.7 m)	13 gpm @ 7.0 psi	(49.2 L/min	@ 0.48 ba	r)	Е	31X	B1X	В	1X
14 ft. x 14 ft. (4.3 r	m x 4.3 m)	13 gpm @ 7.0 psi	(49.2 L/mir	@ 0.48 ba	r)	Б	31X	B1X	В	1X
16 ft. x 16 ft. (4.9 r	n x 4.9 m)	13 gpm @ 7.0 psi	(49.2 L/min	@ 0.48 ba	r)	Е	31X	B1X	В	1X
18 ft. x 18 ft. (5.5 r	n x 5.5 m)	17 gpm @ 12.0 ps	i (64.4 L/mi	n @ 0.83 ba	ar)	В	31X	B1X	В	1X
20 ft. x 20 ft. (6.1 r	m x 6.1 m)	20 gpm @ 16.7 ps	i (75.7 L/mi	n @ 1.15 ba	ar)	В	31X	B1X	В	1X
Installed b	elow ceilings v	vith slopes11 up to	and includ	ing a 8/12	(33.7°) pitch.	Refer to F	igure 5 on pa	ge 149q.	
							JL	NYC	N	SF ⁸
20 ft. x 20 ft. (6.1 r	m x 6.1 m)	21 gpm @ 18.4 ps	i (79.5 L/m i	n @ 1.27 ba	ar)	В	31X	See Footnote 7.	В	1X
20 ft. x 20 ft. (6.1 r	m x 6.1 m)	23 gpm @ 22.0 ps	i (83.4 L/mi	n @ 1.52 ba	ar)	C	:1X	See Footnote 7.	C	1X
Approved Tempera A - 155 °F (68 °C) and B - 155 °F (68 °C) C - 175 °F (79 °C)	-	Approve 1 - Brass, Chrom Black ¹²	e d Finishes e-Enloy®, V		fa	st [®] Mode	surface-m el F-1 Adju	ved Escutched lounted escutches stable Escutches el E-1 or E-2 Re	heons or theon, or rece	ssed v

- Part number shown is the base part number. For complete part number, refer to current Viking price list schedule.
- ² Metric K-factor measurement shown is when pressure is measured in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.
- ⁹ This chart shows the listings and approvals available at the time of printing. Other approvals may be in process. Check with the manufacturer for any additional approvals.
- ⁴ For areas of coverage smaller than shown, use the "Minimum Water Supply Requirement" for the next larger area listed. Flows and pressures listed are per sprinkler. The distance from sprinklers to walls shall not exceed one-half the sprinkler spacing indicated for the minimum Water Supply Requirement" used.
- ⁵ Listed by Underwriter's Laboratories for use in the U.S. and Canada.
- 6 Accepted for use, City of New York Department of Buildings, MEA Number 89-92-E, Vol. 35.
- 7 Meets New York City requirements, effective July 1, 2008.
- * Tested and Certified by NSF (National Sanitation Foundation) to NSF/ANSI Standard 61, Drinking Water System Components.
- 9 Listings are for residential occupancies with smooth, flat, horizontal ceilings or horizontal ceilings with beams. Includes ceilings with slopes up to and including a 2/12 (9.5°) pitch. (For beam ceiling design criteria, refer to Beam Ceiling Guidelines and Figures 6 through 7D on pages 149s-t).
- ¹⁰Refer to TIA 1028R slope ceiling criteria exceptions.
- 11 Areas under sloped ceilings must be measured along the ceiling slope. Actual floor coverage in the horizontal plane under sloped ceilings will be less than the listed area of coverage.
- ¹²Other paint colors are available on request with the same cULus Listings as the standard finish colors.



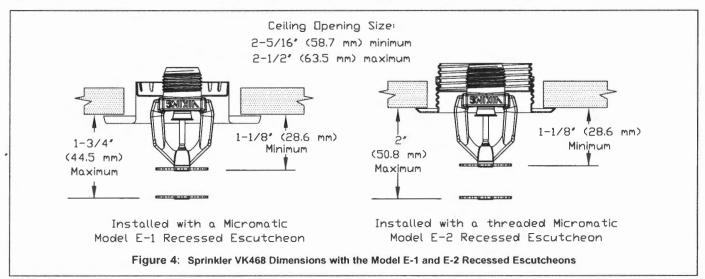
FREEDOM® RESIDENTIAL PENDENT SPRINKLER VK468 (K4.9)

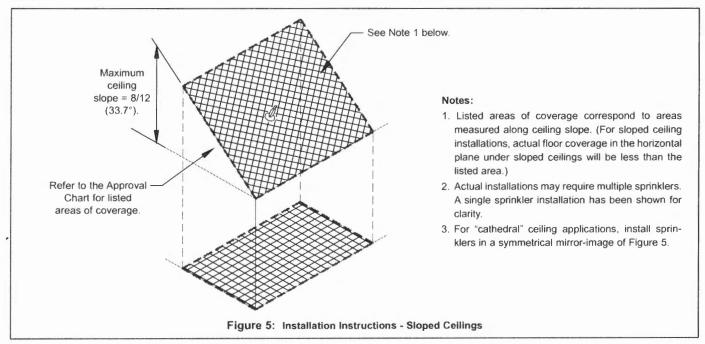






FREEDOM® RESIDENTIAL PENDENT SPRINKLER VK468 (K4.9)





Sprinkler 149r January 13, 2012



TECHNICAL DATA

FREEDOM® RESIDENTIAL PENDENT SPRINKLER VK468 (K4.9)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

DESIGN CRITERIA

(Also refer to the Approval Chart on page 149o.)

cULus Listing Requirements:

When using Viking Residential Pendent Sprinkler VK468 for systems designed to NFPA 13D or NFPA 13R, apply the listed areas of coverage and minimum water supply requirements shown in the Approval Chart on page 149o.

<u>For systems designed to NFPA 13:</u> The number of design sprinklers is to be the four contiguous most hydraulically demanding sprinklers. The minimum required discharge from each of the four sprinklers is to be the greater of the following:

- The flow rates given in the Approval Chart on data page 149o for NFPA 13D and NFPA13R applications for each listed area of coverage, or
- Calculated based on a minimum discharge of 0.1 gpm/sq. ft. over the "design area" in accordance with sections 8.5.2.1 or 8.6.2.1.2 of NFPA 13.
- · Minimum distance between residential sprinklers: 8 ft. (2.4 m).

BEAM CEILING GUIDELINES

cULus Listed for installation in residential occupancies with beam ceilings (with horizontal ceilings only).

Refer to the Approval Chart for sprinkler areas of coverage and hydraulic design.

Sprinkler Location: Locate sprinklers on the underside of the beams (not in the bays or pockets formed by the beams). Refer to Figure 6. The vertical distance from the sprinkler deflector to the bottom of the primary beam must be between 1-1/8 and 1-3/4" (29 to 45 mm). The horizontal distance from the centerline of the sprinkler to the primary beam cannot be more than 2" (51 mm) (Figure 6).

NOTE: Consult with a structural engineer before drilling beams to allow the installation of sprinkler drops. Where drilling is not permitted, sprinkler position requirements allow for the sprinkler drop to be placed adjacent to the primary beam.

Beam Position: Directly attached to the underside of a combustible or non-combustible smooth ceiling of any height.

Beam Size and Shape (Cross section):

- · Depth: Maximum 14" (356 mm) for primary beams. Secondary beam depth cannot be greater than the primary beam.
- · Width: Unlimited.
- · Beam Shape: Rectangular to circular.

Beam Types: Combustible or non-combustible, solid surface, solid or hollow core.

Beam Spacing:

- A. For primary beams, the distance from the wall to the center of the nearest primary beam must be at least 3'-4" (1.0 m), and not more than one-half the listed sprinkler spacing. Note: Sprinklers may not be required to be located in the first beam nearest the wall. Center-to-center distance between primary beams is to be a maximum of 20 ft (6.1 m). Refer to Figure 7A.
- B. When beam pockets created by the primary beams exceed 20 ft (6.1 m) in length, secondary beams are required as follows (also refer to Figure 7B):

 1. Secondary beam depth must be equal to primary beam depth.
 - 2. Secondary beams must be placed so that the bays formed by the primary beams do not exceed 20 ft (6.1 m) in length.
- C. When primary beam spans do not exceed 20 ft (6.1 m), secondary beams (not required) may have any distance from wall to nearest secondary beam and any distance center to center between secondary beams. Refer to Figure 7C.

Lintels: Must be present over doorways exiting the compartment. Lintel height must be at least 8" (203 mm), or at least the depth of the primary beams, whichever is greater.

Beam and Soffit Arrangements: If a soffit is installed, beams may be arranged within the soffit. The cross section of the soffit may be any size, provided it does not create an obstruction to water distribution per the obstruction rules of NFPA 13 for residential sprinklers. Where there is a soffit, beam spacing from the wall is to be measured from the face of the soffit rather than the wall. Refer to Figure 7D. NOTE: The sprinkler area of coverage is to be measured from the wall.

Definitions:

- · Primary beams: The main beams that run primarily in one direction.
- · Secondary beams: The beams that run perpendicular to the main beams

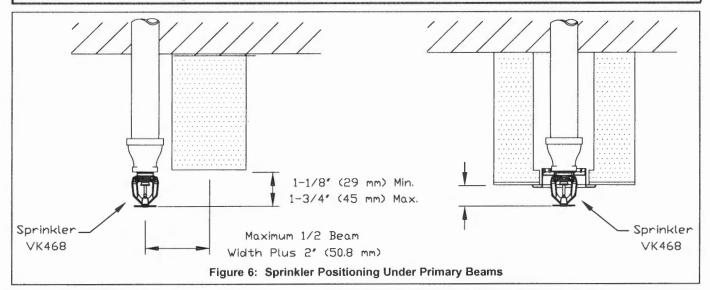


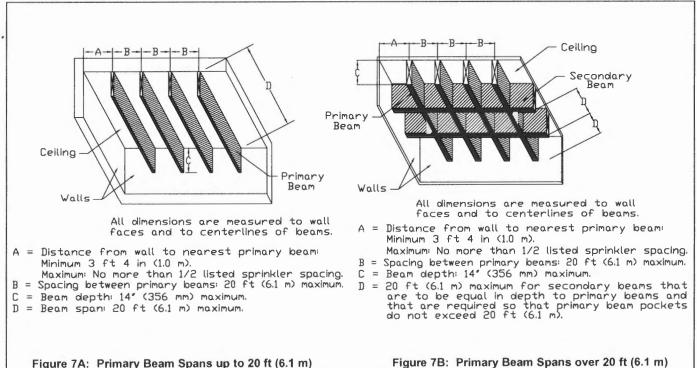
FREEDOM® RESIDENTIAL PENDENT SPRINKLER VK468 (K4.9)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

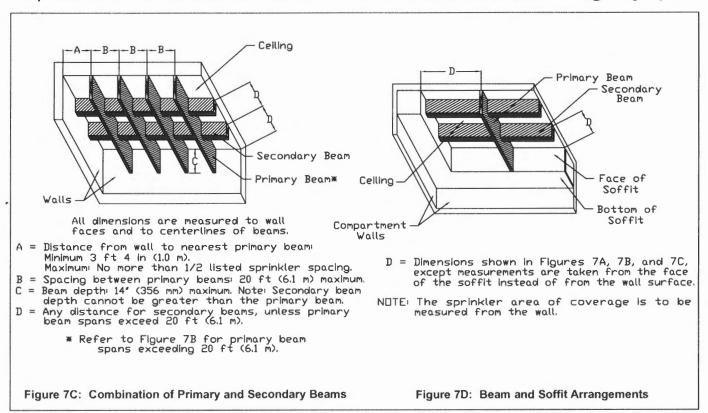
IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to pages RES1-17 for general care, installation, and maintenance information. Viking sprinklers are to be installed in accordance with the latest edition of Viking technical data, the appropriate standards of NFPA and any other similar Authorities Having Jurisdiction, and also with the provisions of governmental codes, ordinances, and standards, whenever applicable. Final approval and acceptance of all residential sprinkler installations must be obtained from the Authorities Having Jurisdiction.







FREEDOM® RESIDENTIAL PENDENT SPRINKLER VK468 (K4.9)





FREEDOM® RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER VK486 (K4.0)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

1. DESCRIPTION

Viking Freedom Residential Horizontal Sidewall Sprinkler VK486 is a small, thermosensitive, glass-bulb residential sprinkler available in several different finishes and temperature ratings to meet varying design requirements. The sprinkler orifice design, with a K-Factor of 4.0 (57.7 metrict), allows efficient use of available water supplies for the hydraulically designed fire-protection system. The glass bulb operating element and special deflector characteristics meet the challenges of residential sprinkler standards.

2. LISTINGS AND APPROVALS

c(UL)us cULus Listed: Category VKKW

Refer to the Approval Chart on pages 156w and Design Criteria on page 156x for cULus Listing requirements that must be followed.

3. TECHNICAL DATA

Specifications:

Available since 2011.

Minimum Operating Pressure: Refer to the Approval Chart.

Maximum Working Pressure: 175 psi (12 bar). Factory tested hydrostatically

to 500 psi (34.5 bar).

Thread size: 1/2" (15 mm) NPT

Nominal K-Factor: 4.0 U.S. (57.7 metrict)

† Metric K-factor measurement shown is in Bar. When pressure is measured in kPa, divide

the metric K-factor shown by 10.0.

Glass-bulb fluid temperature rated to -65 °F (-55 °C)

Overall Length: 2-7/16" (62 mm)

Material Standards:

Frame Casting: QM Brass and Brass UNS-C84400

Deflector: Phosphor Bronze UNS-C51000 Bulb: Glass, nominal 3 mm diameter

Belleville Spring Sealing Assembly: Nickel Alloy, coated on both sides with Teflon Tape Pip Cap and Insert Assembly: Copper UNS-C11000 and Stainless Steel UNS-S30400

Compression Screws: 18-8 Stainless Steel Yoke: Phosphor Bronze UNS-C51000

Ordering Information: (Also refer to the current Viking price list.)

Sprinkler: Base Part No. 17315

Order Sprinkler VK486 by first adding the appropriate suffix for the sprinkler finish and then the appropriate suffix for the temperature rating to the sprinkler base part number.

Finish Suffix: Brass = A, Chrome-Enloy® = F, and White Polyester = M-/W

Temperature Suffix: 155 °F (68 °C) = B, 175 °F (79 °C) = D

For example, sprinkler VK486 with a Brass finish and a 155 °F (68 °C) temperature rating = Part No. 17315AB.

Available Finishes And Temperature Ratings:

Refer to Table 1.

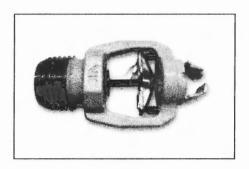
Accessories: (Also refer to the "Sprinkler Accessories" section of the Viking data book.)

Sprinkler Wrenches:

- A. Standard Wrench: Part No. 10896W/B (available since 2000)
- B. Wrench for recessed sprinklers: Part No. 13655W/B* (available since 2006) *A 1/2" ratchet is required (not available from Viking).

Sprinkler Cabinets:

- A. Six-head capacity: Part No. 01724A (available since 1971)
- B. Twelve-head capacity: Part No. 01725A (available since 1971)



Viking Technical Data may be found on The Viking Corporation's Web site at http://www.vikinggroupinc.com. The Web site may include a more recent

edition of this Technical Data Page.

Sprinkler 156v March 02, 2012



TECHNICAL DATA

FREEDOM® RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER VK486 (K4.0)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

4. INSTALLATION

Refer to appropriate NFPA Installation Standards. For NFPA 13D horizontal ceiling criteria and slopes, refer to TIA 1028R for slope ceiling criteria exceptions.

5. OPERATION

During fire conditions, the heat-sensitive liquid in the glass bulb expands, causing the glass to shatter, releasing the yoke, pip cap, and sealing spring assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

6. INSPECTIONS, TESTS AND MAINTENANCE

Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

7. AVAILABILITY

Viking Sprinkler VK486 is available through a network of domestic and international distributors. See The Viking Corporation web site for the closest distributor or contact The Viking Corporation.

8. GUARANTEE

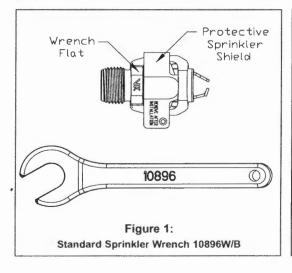
For details of warranty, refer to Viking's current list price schedule or contact Viking directly.

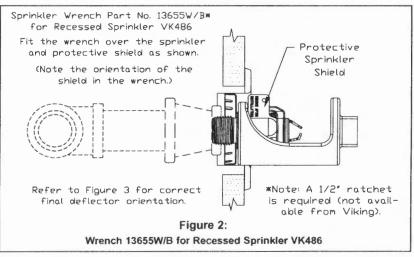
TABLE 1: AVAILABLE SPRINKLER TEMPERATURE RATINGS AND FINISHES						
Sprinkler Temperature Classification	Sprinkler Nominal Temperature Rating	Maximum Ambient Ceiling Temperature ²	Bulb Color			
Ordinary	155 °F (68 °C)	100 °F (38 °C)	Red			
Intermediate	175 °F (79 °C)	150 °F (65 °C)	Yellow			

Sprinkler Finishes: Brass, Chrome-Enloy[®] (patents pending), White Polyester, and Black Polyester.

Footnotes

- ¹ The sprinkler temperature rating is stamped on the deflector.
- ² Based on NFPA-13. Other limits may apply, depending on fire loading, sprinkler location, and other requirements of the Authority Having Jurisdiction. Refer to specific installation standards.







FREEDOM® RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER VK486 (K4.0)

Part Number¹	NPT Thre	NPT Thread Size		Nominal K-Factor		aximum Water orking Pressure	Overall Length	
	Inches	mm	U.S.	metric ²		75 psi (12 Bar)	Inches	mm
17315	1/2	15	4.0	57.7	1 '	75 psi (12 bar)	2-7/16	62
Installed	For sy below smooth	For systems designed flat, horizonta	tems designed to NFPA 13, al cellings, inc	luding ceilings	or NE sign c with s	PA 13R. Iteria on page 156x Slopes up to and inc	luding 2/12 (9.5°).	KEY applicable)
		lector located	between 4" a	nd 6" (102 mm	and 1	52 mm) below the co	eiling. ings and Approvals	4
Maximum Areas of Coverage ³ (Width x Length)		Minimum Water Supply Requirements ³			(Refer also	(Refer also to Design Criteria on page 156x.)		
						cULus ^{5.6}	NYC	NSF
12' x 12' (3.7 m)				L/min @ 0.52 B		A1X	See Footnote 8.	
14' x 14' (4.3 m)				L/min @ 0.62 Ba		A1X	See Footnote 8.	
16' x 16' (4.9 m)				3 L/min @ 0.73 I		A1X	See Footnote 8.	
16' x 18' (4.9 m x 5.5 m) 16 gpm @ 16 psi (60.6 L/min @ 1.1 Bar)				A1X	See Footnote 8.			
16' x 20' (4.9 m :		22 gpm @ 30.3 psi (83.3 L/min @ 2.09 Bar)			A1X	See Footnote 8.	**	
16' x 22' (4.9 m)		24 gpm @ 36 psi (90.8 L/min @ 2.48 Bar)				A1X	See Footnote 8.	
18' x 18' (5.5 m x 5.5 m) 18 gpm @ 20.3 psi (68.1 L/min @ 1.4 Bar)					B1X	See Footnote 8.	***	
18' x 18' (5.5 m)		19 gpm @ 22.6 psi (71.9 L/min @ 1.6 Bar				C1X	See Footnote 8.	
18' x 20' (5.5 m)			22 gpm @ 30.3 psi (83.3 L/min @ 2.09 Bar)			A1X	See Footnote 8.	
20' x 20' (6.1 m)				L/min @ 2.09 l		A1X Slopes up to and inc	See Footnote 8.	
motuno						05 mm) below the c		
12' x 12' (3.7 m)	(3.7 m)	12 gpm	12 gpm @ 9 psi (45.5 L/min @ 0.62 Bar)			A1X	See Footnote 8.	
14' x 14' (4.3 m)	(4.3 m)	12 gpm @ 9 psi (45.5 L/min @ 0.62 Bar)				B1X	See Footnote 8.	**
14' x 14' (4.3 m)	(4.3 m)	13 gpm @ 10.6 psi (49.3 L/min @ 0.73 Bar)				C1X	See Footnote 8.	
16' x 16' (4.9 m)	(4.9 m)	14 gpm @ 12.3 psi (53 L/min @ 0.84 Bar)			A1X	See Footnote 8.		
16' x 18' (4.9 m)	(5.5 m)	16 gpm	16 gpm @ 16 psi (60.6 L/min @ 1.1 Bar)			A1X	See Footnote 8.	
16' x 20' (4.9 m)	(6.1 m)	23 gpm @ 33.1 psi (87.1 L/min @ 2.28 Bar)			A1X	See Footnote 8.		
16' x 22' (4.9 m)	(6.7 m)	26 gpm @ 42.3 psi (98.4 L/min @ 2.91 Bar)			A1X	See Footnote 8.		
18' x 18' (5.5 m)	(5.5 m)	18 gpm (@ 20.3 psi (68.	1 L/min @ 1.4 B	ar)	B1X	See Footnote 8.	
18' x 18' (5.5 m)	(5.5 m)	19 gpm @ 22.6 psi (71.9 L/min @ 1.6 Bar)			C1X	See Footnote 8.		
18' x 20' (5.5 m)	(6.1 m)	23 gpm @ 33.1 psi (87.1 L/min @ 2.28 Bar)			A1X	See Footnote 8.		
20' x 20' (6.1 m)	(6.1 m)	24 gpm @ 36 psi (90.8 L/min @ 2.48 Bar)			A1X	See Footnote 8.		
Approved Temperate 155 °F (68 °C) and 17 155 °F (68 °C) 175 °F (79 °C)	_			nes Vhite Polyester,	M	Standard surface-mo icrofast® Model F-1 A ith the Viking Microm	djustable Escutched	on or rece E-2 Rece

- ¹ Base part number shown. For complete part number, refer to Viking's current price list.
- ² Metric K-Factor measurement shown is when pressure is measured in Bar. When pressure is measured in kPa, divide the metric K-Factor shown by 10.0.
- ³ For areas of coverage smaller than shown, use the "Minimum Water Supply Requirement" for the next larger area listed. Flows and pressures listed are per sprinkler. The distance from sprinklers to walls shall not exceed one-half the sprinkler spacing indicated for the minimum Water Supply Requirement" used.
- ⁴ This chart shows the listings and approvals available at the time of printing. Other approvals may be in process. Check with the manufacturer for any additional approvals.
- ⁵ Listed by Underwriter's Laboratories, Inc. for use in the U.S. and Canada.
- ⁶ Listing is for residential occupancies with smooth, flat, horizontal ceilings, including ceilings with slopes up to and including 2/12 (9.5°).
- ⁷ Refer to TIA 1028R slope ceiling criteria exceptions.
- ⁸ Meets New York City requirements, effective July 1, 2008.
- Other paint colors are available on request with the same cULus Listings as the standard finish colors.



FREEDOM® RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER VK486 (K4.0)

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

DESIGN CRITERIA

(Also refer to the Approval Chart on page 156w.)

cULus Listing Requirements:

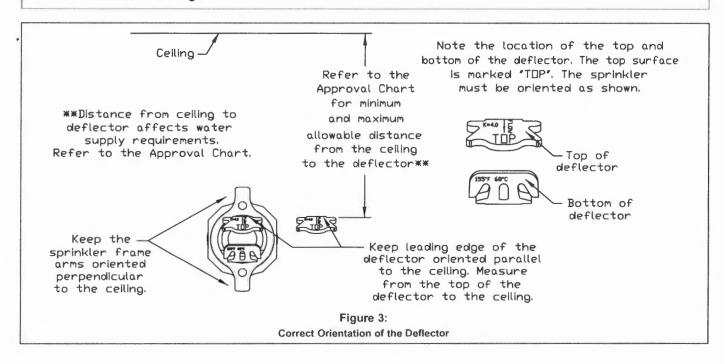
When using Viking Residential Horizontal Sidewall Sprinkler VK486 for systems designed to NFPA 13D or NFPA 13R, apply the listed areas of coverage and minimum water supply requirements shown in the Approval Chart on page 156w.

<u>For systems designed to NFPA 13</u>: The number of design sprinklers is to be the four contiguous most hydraulically demanding sprinklers. The minimum required discharge from each of the four sprinklers is to be the greater of the following:

- The flow rates given in the Approval Chart on data page 156w for NFPA 13D and NFPA 13R applications for each listed area of coverage, or
- Calculated based on a minimum discharge of 0.1 gpm/sq. ft. over the "design area" in accordance with sections 8.5.2.1 or 8.6.2.1.2 of NFPA 13.
- Minimum distance between residential sprinklers: 8 ft. (2.4 m).
- The VK486 horizontal sidewall sprinkler deflector shall be located a minimum of 1-1/4" (31.8 mm) and a maximum of 6" (152 mm) from the wall on which it is installed.

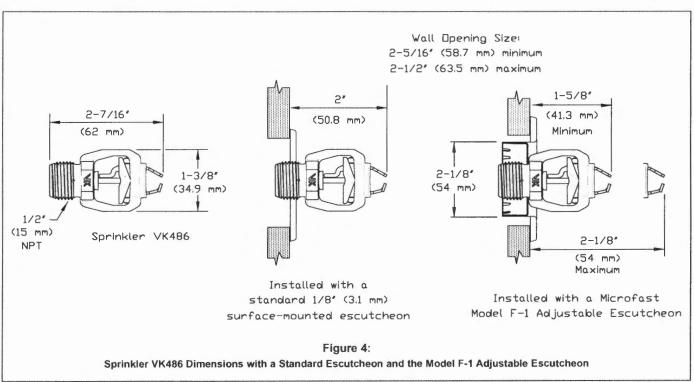
DEFLECTOR POSITION: Install sprinkler VK486 with the leading edge of the deflector oriented parallel to the ceiling and the sprinkler frame arms oriented perpendicular to the ceiling (see Figure 4). **THE TOP SURFACE OF THE DEFLECTOR IS MARKED "TOP".** The sprinkler must be oriented as shown in Figure 3 below.

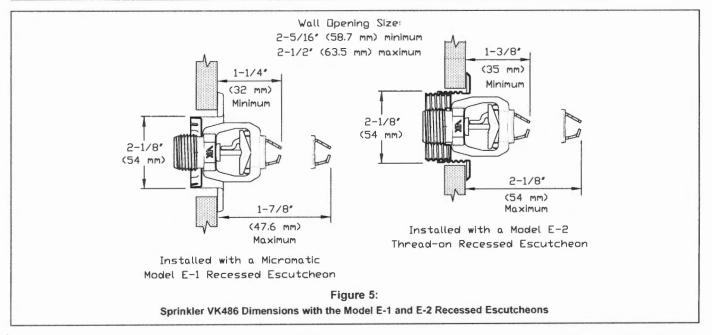
IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to pages RES1-17 for general care, installation, and maintenance information. Viking sprinklers are to be installed in accordance with the latest edition of Viking technical data, the appropriate standards of NFPA and any other similar Authorities Having Jurisdiction, and also with the provisions of governmental codes, ordinances, and standards, whenever applicable. Final approval and acceptance of all residential sprinkler installations must be obtained from the Authorities Having Jurisdiction.





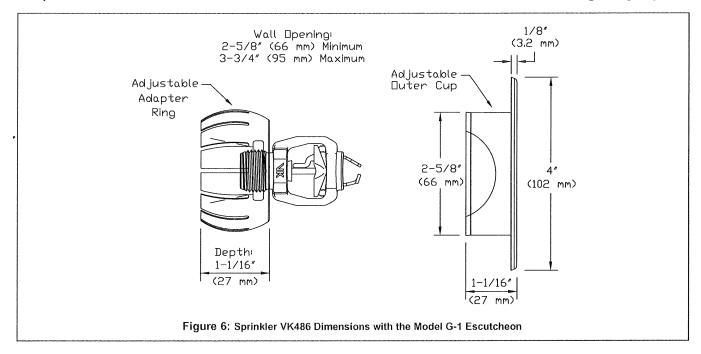
FREEDOM® RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER VK486 (K4.0)





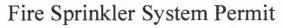


FREEDOM® RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER VK486 (K4.0)





State of Maine Department of Public Safety





10045

49 Lafayette St

Located at:

49 Lafayette st

In the Town of: Portland

Occupancy/Use: Residential Units

Type of System: NFPA 13D

Permission is hereby given to:

Charles P. McClellan/Gelinas HVAC + Plumbing

2 Washington Avenue

Scarborough, ME 04074

Contractor License # 176

to begin installation according to plans submittal approved by the Office of State Fire Marshal. The submittal is filed under log # 2121242, and no departure from the application submittal shall be made without prior approval in writing. This permit is issued under the provisions of Title 32, Chapter 20, Section 12004-I. Nothing herein shall excuse the holder of this permit from failure to comply with local ordinances, zoning laws, o other pertinent legal restrictions. This permit shall be displayed at the construction site or be made readily available.

This permit was issued on

6/7/2012

for a fee paid of \$25.00

This permit will expire at midnight on

Tuesday, December 04, 2012

The expiration date applies only if the installation has not begun by that date and no permission has been granted to extend the date. Once installation begins, then the permit is valid for however long it takes to complete the installation, assuming that the work is fairly continuous.

John E. Morris Commissioner

The type of Fire Department Connection and its location is to be according to the Local Fire Department

Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Office of State Fire Marshal a copy of this permit signed and dated by the certified Responsible Managing Supervisor representing that the fire sprinkler system has been installed according to specifications of the approved plan to the best of the supervisor's knowledge, information, and belief. This requirement is part of the sprinkler law, and neglect of this duty is grounds to not renew the contractor's license to do work in the State of Maine. All renewed sprinkler licenses are good for two years and expire on a June 30th.

Job completed, tested	and verified by dat	e of
RMS Signature:		

RMS for this job: Fortin Timothy M

2 Washington Avenue Scarborough, Maine 04074

Tel: (207) 885-0771

Fax: (207) 885-5516

TO LAWNIE DOBSON

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FOR THE 130 RESIDENTEAL FERE SPREAKED

945 FORM @ 49 LAFAMETTE ST. PORTLAND, ME.

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FOR. IF YOU AREA ANY QUESTIONS

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BUENESS CARD. TARREYOU,

CHUR MUGUIN