

City of Portland, Maine - Building or Use Permit Application

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

Permit No:	05-1227	Issue Date:	08/25/2005
Permit Type:	HVAC	Zone:	

Location of Construction:	32 RACINE AVE	Owner Name:	CADY THERESA E	Owner Address:	32 RACINE AVE	City:	PORTLAND	State:	ME	Zip:	04101	Phone:	
Business Name:		Contractor Name:	Frost N Flame	Contractor Address:	CITY OF PORTLAND		Phone:	6078567000					
Lessee/Buyer's Name:		Phone:		Permit Type:	HVAC								

Past Use:	Single Family Home	Proposed Use:	Single Family Home/ install a Natural gas direct vent Jotul Allagash stove	Permit Fee:	\$57.00	Cost of Work:	\$3,500.00	CEO District:	4
Proposed Project Description:	install a Natural gas direct vent Jotul Allagash stove			FIRE DEPT:	<input type="checkbox"/> Approved	<input checked="" type="checkbox"/> Denied	INSPECTION:	Use Group: R/V Type: Heating	

Permit Taken By:	Idobson	Date Applied For:	08/25/2005	Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>
				Zoning Approval			
1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.				<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Sid Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/>			
2. Building permits do not include plumbing, septic or electrical work.				<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			
3. 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..				<input 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			

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 _____ DATE _____ PHONE _____

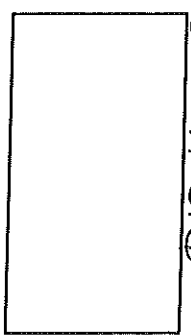
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE _____ DATE _____ PHONE _____



Fill in and sign with ink

399 A 016

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 32 Racine Ave Use of Building Residential Date 8/25/05

Name and address of owner of appliance Don + Ann Marie Rody

Installer's name and address 32 Racine Ave Portland Me Robert Dodge - Frost N Flame G207Hawth St

Benham The Overse Telephone 856-9000

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: Solid Gallagher

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacturer's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 3938
- Other _____

Type of Chimney:

- Masonry Lined
- Factory built _____

Metal
Factory Built U.L. Listing # _____

Direct Vent
Type _____

Type of Fuel Tank

- Oil
- Gas Nat.

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 3500.00

Permit Fee: \$ 57.00

Approved

Approved with Conditions

See attached letter or requirement

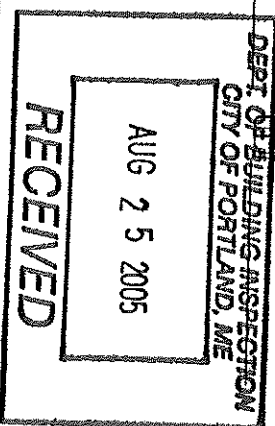
Fire: _____

Ele.: _____

Bldg.: _____

Signature of Installer [Signature] Inspector's Signature _____ Date Approved _____

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

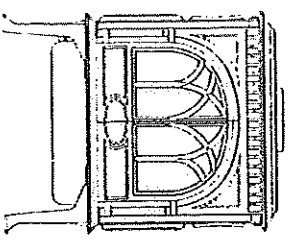


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Master Do Not Take



**Jøtul GF 300 DV
Allagash
Gas Heater**



Installation
and
Operation
Instructions



WARNING:
IF THE INFORMATION IN THESE INSTRUCTIONS ARE NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

FOR YOUR SAFETY:
DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

INSTALLATION:
INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER, SERVICE AGENCY OR LICENSED GAS SUPPLIER.

- WHAT TO DO IF YOU SMELL GAS:**
- DO NOT TRY TO LIGHT ANY APPLIANCE.
 - DO NOT TOUCH ANY ELECTRICAL SWITCHES.
 - DO NOT USE THE PHONE IN YOUR BUILDING. IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE.
 - FOLLOW YOUR GAS SUPPLIER'S INSTRUCTIONS.
 - IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT.

AVERTISSEMENT:
ASSUREZ-VOUS DE BIEN SUIVRE LES INSTRUCTIONS DANS CETTE NOTICE POUR REDUIRE AU MINIMUM LE RISQUE D'INCENDIE OU POUR EVITER TOUT DOMMAGE MATERIEL, TOUTE BLESSURE OU MORTALITE.

NE PAS ENTREPOSER NI UTILISER D'ESSENCE NI OU LIQUIDES INFLAMMABLES DANS LE VOISINAGE DE CET APPAREIL OU DE TOUT AUTRE APPAREIL.

L'INSTALLATION LE SERVICE DOIVENT ETRE EXECUTES PAR UN INSTALLATEUR QUALIFIE, AGENCE DE SERVICE OU LE FOURNISSEUR DE GAZ.

- QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ.
- NE PAS TENTER D'ALLUMER L'APPAREIL
 - NE TOUCHEZ A AUCUN NTERUPTEUR.
 - NE PAS VOUS SERVIR DES TELEPHONES SE TROUVANT DANS LE BATIMENT OU VOUS VOUS TROUVEZ.
 - APPELEZ IMMEDIATEMENT VOTRE FOURNISSEUR DE GAZ CHEZ UN VOISIN. SUIVEZ LES INSTRUCTIONS DU FOURNISSEUR.
 - SI VOUS NE POUVEZ REJOINDRE LE FOURNISSEUR DE GAZ, APPELEZ LE SERVICE DES INCENDIES.

GF 300 DV Specifications

Input Rates

Natural Gas

26,000 BTU/hr. maximum input
14,000 BTU/hr. minimum input

Propane

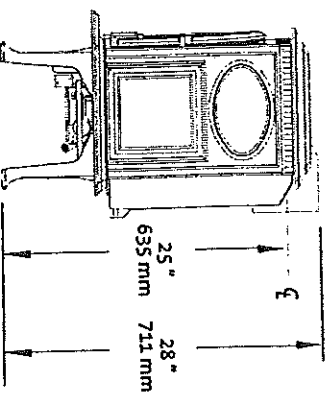
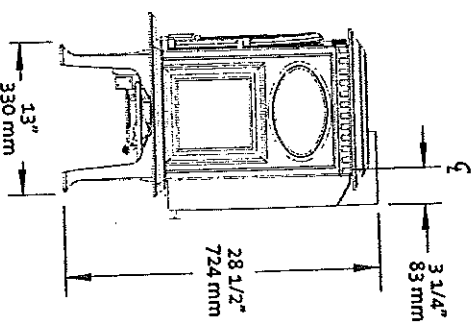
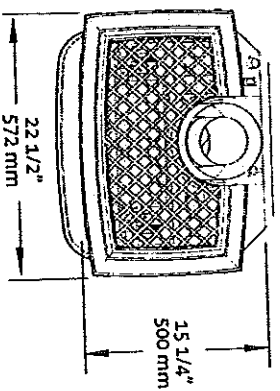
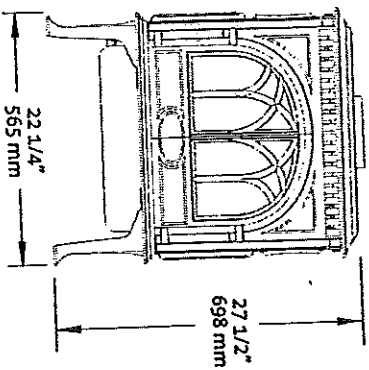
26,000 BTU/hr. maximum input
14,000 BTU/hr. minimum input

	<u>MIN</u>	<u>MAX</u>
Inlet Pressure:		
Natural Gas:	5.0 WC (1.24 kPa)	7.0 WC (1.74 kPa)
Propane:	12.0 WC (2.99 kPa)	14.9 WC (3.71 kPa)
Manifold Pressure:	<u>MIN</u>	<u>MAX</u>
Natural Gas:	1.2 WC (30 kPa)	3.8 WC (.95 kPa)
Propane:	2.9 WC (.722 kPa)	11.0 WC (2.74 kPa)

Piezo Ignitor / Standing Pilot

Suggested Tools for Installation and Service

- External regulator (for Propane only)
- Piping which complies with local code
- Manual shutoff valve (T-Handle in Massachusetts)
- Sediment trap - if required by code
- Tee joint
- Pipe wrench
- Pipe sealant
- 10 mm open end wrench
- 1/2" 7/16" open end wrench or deep socket
- Phillips head screwdriver
- Flat head screwdriver
- 1/4" nut driver
- 4 mm allen wrench
- Gloves
- Safety glasses
- Torx T20 screwdriver
- Leak test solution
- Reciprocating Saw
- POWER Drill



Stove and Vent Clearance Requirements

Minimum Clearances from the Stove to Combustibles: See figs. 2-4.

- Rear: 2" (51 mm)
- Ceiling: 33" (838 mm)
- Corner: 2" (51 mm)
- Right Side: 3" (76 mm)
- Left Side: 10" (254 mm) - for access to lighting instruction plate

Minimum Clearances from the Vent Pipe to Combustibles:

- Horizontal Run:**
 - Off the top of the pipe 2" (50 mm)
 - Off the sides and bottom 1" (25 mm)
- Vertical Run:**
 - All sides 1" (25 mm)

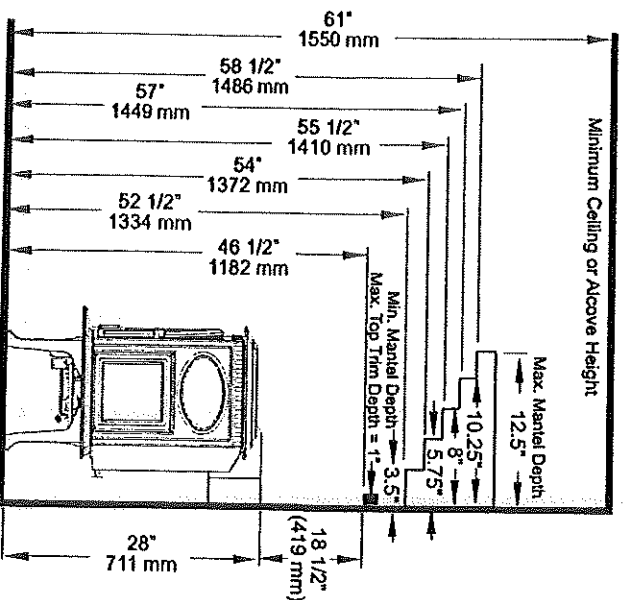


Figure 2. Mantel and Trim Clearance specifications. Subtract 2 1/4" With Short Legs.

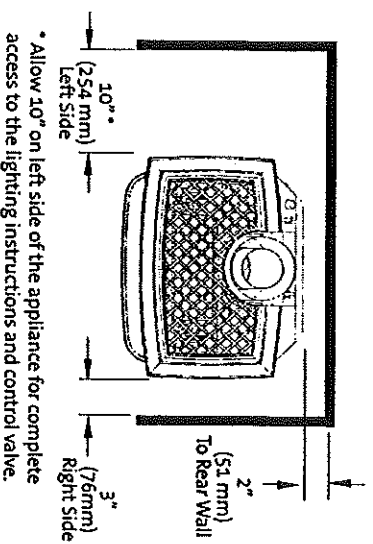


Figure 3. Parallel Installation Clearances.

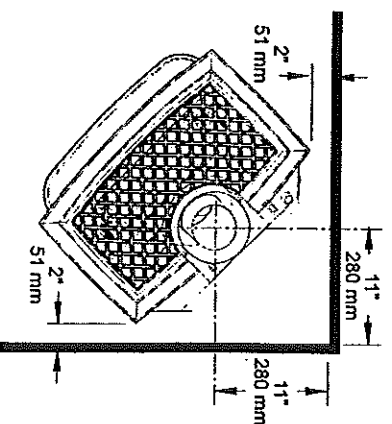


Figure 4. Vent adaptor centerline at minimum clearance to corner walls.

Alcove Installation

Maximum Alcove Depth:	24" (610 mm)
Minimum Alcove Width:	36 3/4" (934 mm)
Minimum Ceiling Height:	61" (1549 mm)
With Short Legs (6"):	58 3/4" (1486 mm)

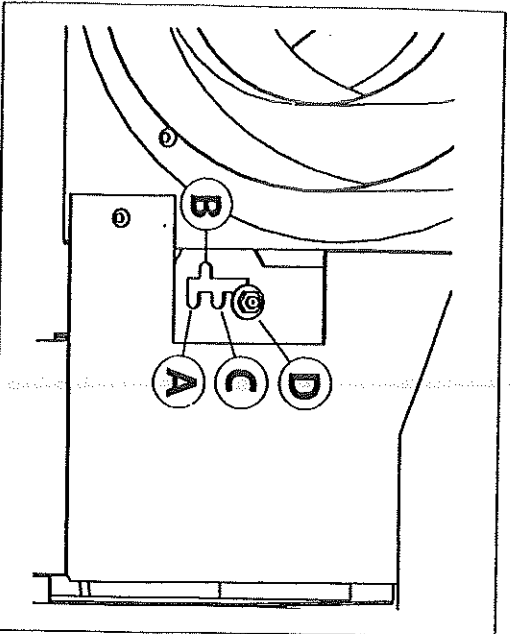


Figure 6. Exhaust restrictor positions - viewed from front with top plate removed.

Vertical Vent Termination

The Jøtul GF 300 DV can be vertically vented through a ceiling or to a roof termination with the following guidelines:

- The termination should fall within the shaded areas of the grids depicted in the Vent Window diagrams on pages 10 - 11.
- **Maximum Vertical run should not exceed 35 ft. (10.66 m).**
- **Minimum Vertical run must be at least 8 ft. (2.43 m).**
- **Max. Collinear Horizontal run is 2 ft. (61 cm).**
- **Vent Terminus Clearance:** In no case shall any discharge opening on the cap be less than 18 in. (610 mm) horizontally from the roof surface.
- Steep roofs, nearby trees, and predominantly windy conditions can contribute to poor draft and/or promote down-draft occurrences. Increasing the height of the vent may alleviate these conditions.
- Use Wall Straps to support an offset pipe run at three feet intervals to avoid excessive stress on the offsets.
- **Elbows:** Four 45°, or two 90° elbows may be used. Do not include the 45° elbow attached to the stove. Whenever possible use 45° elbows instead of 90° elbows as they are less restrictive to exhaust gas and intake air flow.
- A firestop is required at every floor. The opening should be framed to 10" X 10" inside dimension.
- Any venting that is exposed above the first floor, regardless of attic space or living space, must be enclosed. Always maintain the required 1" clearance from all sides of the vertical vent system.

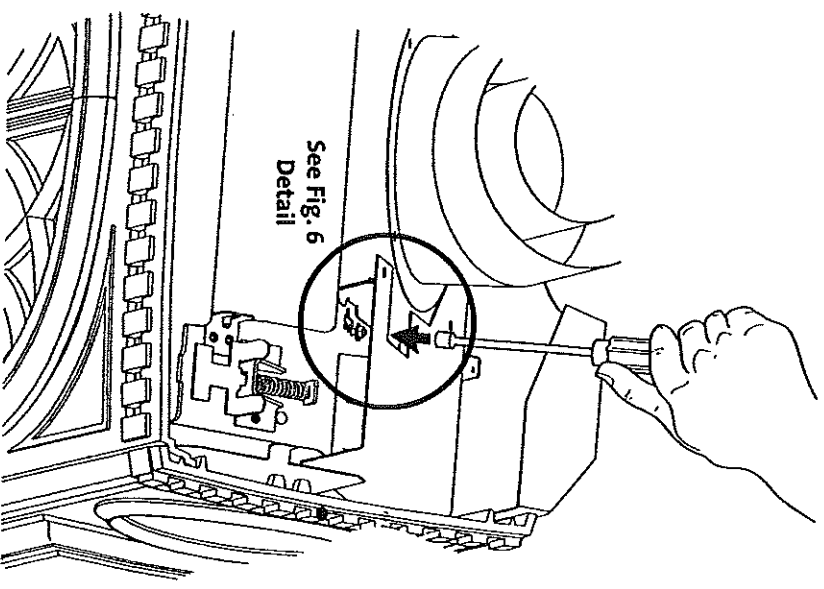


Figure 7. Use a nut driver to change the Exhaust Restrictor setting.

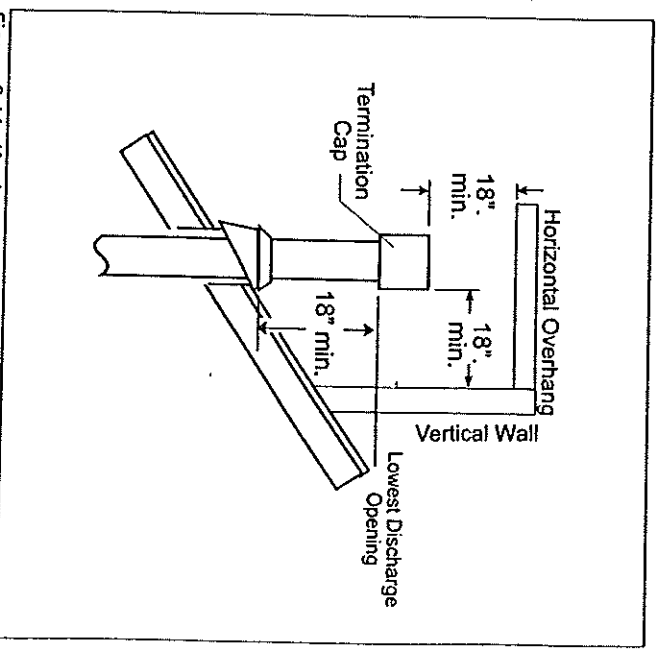
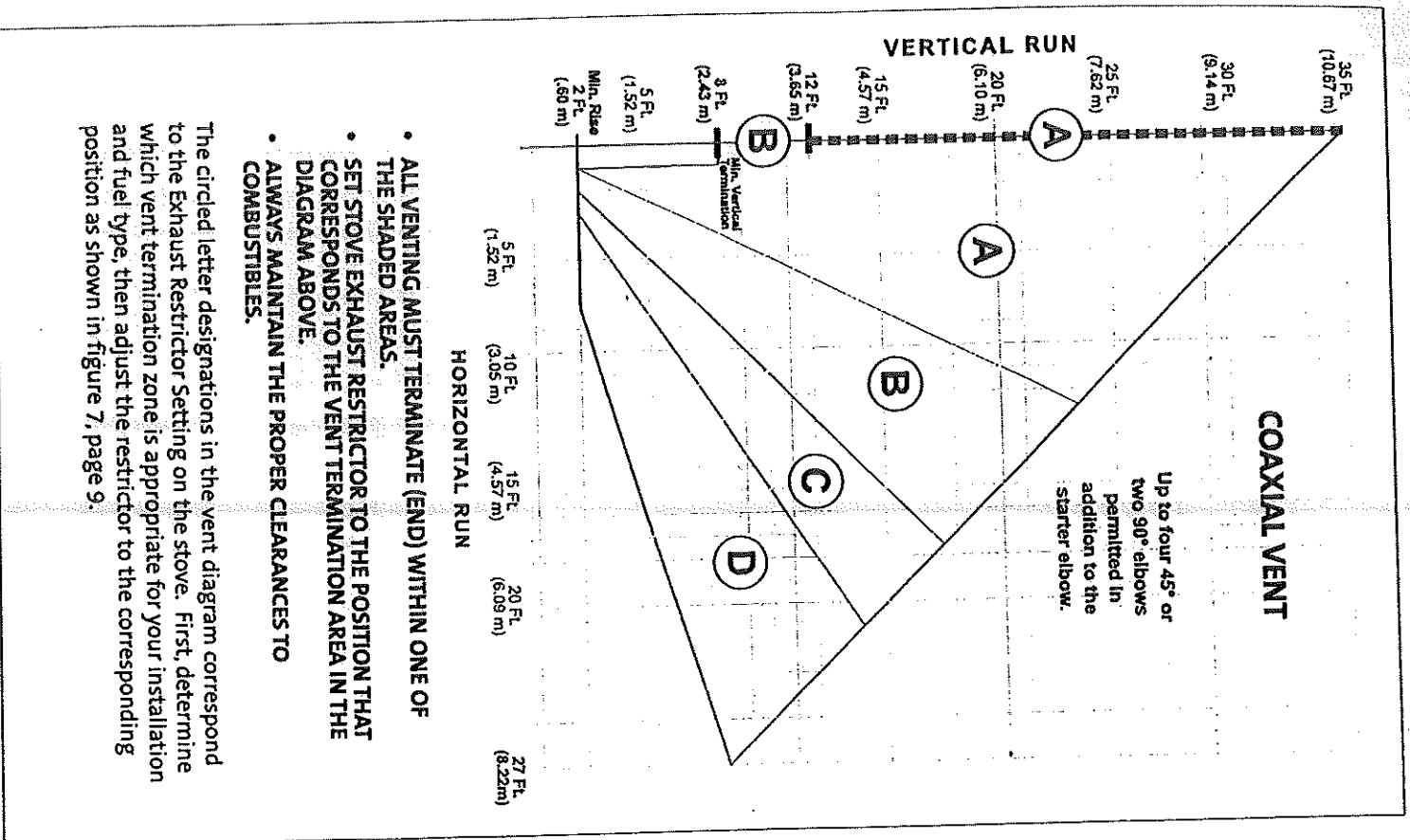


Figure 8. Vertical vent termination height above roof.

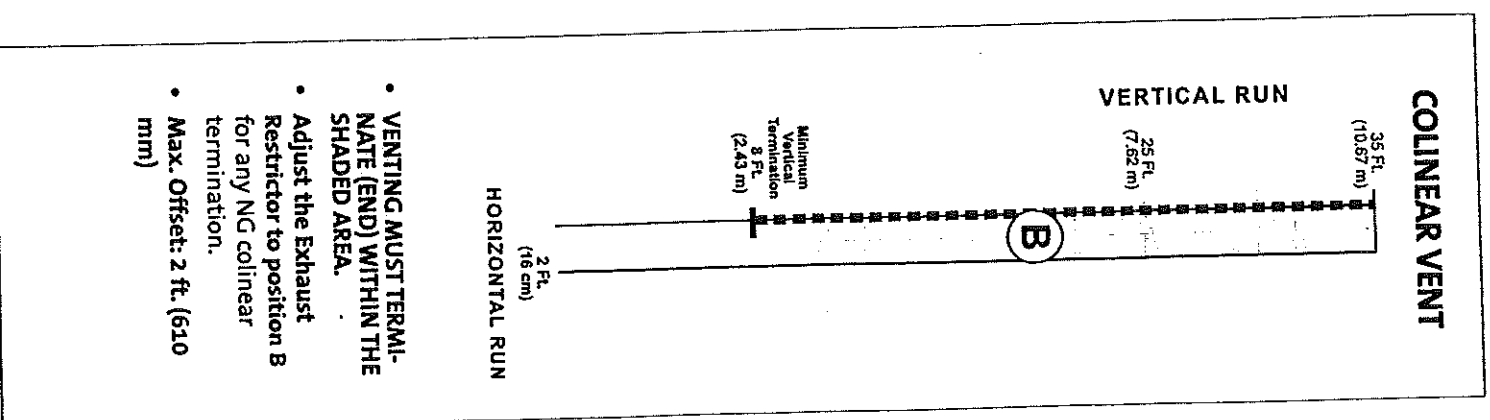
Vent Windows for Natural Gas



- ALL VENTING MUST TERMINATE (END) WITHIN ONE OF THE SHADED AREAS.
- SET STOVE EXHAUST RESTRICTOR TO THE POSITION THAT CORRESPONDS TO THE VENT TERMINATION AREA IN THE DIAGRAM ABOVE.
- ALWAYS MAINTAIN THE PROPER CLEARANCES TO COMBUSTIBLES.

The circled letter designations in the vent diagram correspond to the Exhaust Restrictor Setting on the stove. First, determine which vent termination zone is appropriate for your installation and fuel type, then adjust the restrictor to the corresponding position as shown in figure 7, page 9.

Figure 9. Coaxial Vent Termination Window / NG



- VENTING MUST TERMINATE (END) WITHIN THE SHADED AREA.
- Adjust the Exhaust Restrictor to position B for any NG colinear termination.
- Max. Offset: 2 ft. (610 mm)

Figure 10. Colinear Termination / NG

Co-linear Vent Installation

The GF 300 DV may be vented through a masonry or Class A prefabricated chimney using a Co-linear Flexible Vent system approved for use with a solid-fuel burning fireplace. When installed in the manner described below, this system can improve the performance of the appliance in cold climate situations, as well as simplify the vent installation. See fig. 14.

These installation requirements must be followed:

1. Use the guidelines for Co-linear Vent Termination appropriate for your gas type on pages 10 - 11.
1. Prior to the installation the chimney flue must be thoroughly cleaned and inspected by a qualified chimney service person.
2. In a masonry chimney, a fireclay liner must be present the entire length of the chimney.
3. Prefabricated chimneys must be UL 103 or ULC S-629 listed and have a minimum INSIDE diameter of 6 inches, (150 mm).
4. No appliance can be installed into a chimney flue serving any other appliance of any kind.
5. **THE AIR INTAKE FLEX PIPE MUST EXTEND 6 FEET BEYOND THE DAMPER AREA OF THE FIREPLACE.**
6. If the intake flex duct does not extend the full length of the chimney and connect to both the unit and the termination cap, A METAL BLOCK OFF PLATE MUST BE CONSTRUCTED AND INSTALLED ABOVE THE UNIT PRIOR TO THE END OF THE INTAKE FLEX AND MUST COMPLETELY SEAL THE CHIMNEY FLUE FROM THE ROOM.

Consult with the local code authority having jurisdiction before proceeding with this type of installation.

Refer to the vent manufacturer's instructions for specific installation requirements.

WARNING: FAILURE TO POSITION THE PARTS AND STOVE IN ACCORDANCE WITH THESE DIAGRAMS OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED FOR USE WITH THIS APPLIANCE MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. BE SURE TO MAINTAIN THE PROPER CLEARANCES TO COMBUSTIBLES AS DEFINED IN THIS MANUAL AND IN THE INSTRUCTIONS PROVIDED WITH EACH VENT COMPONENT.

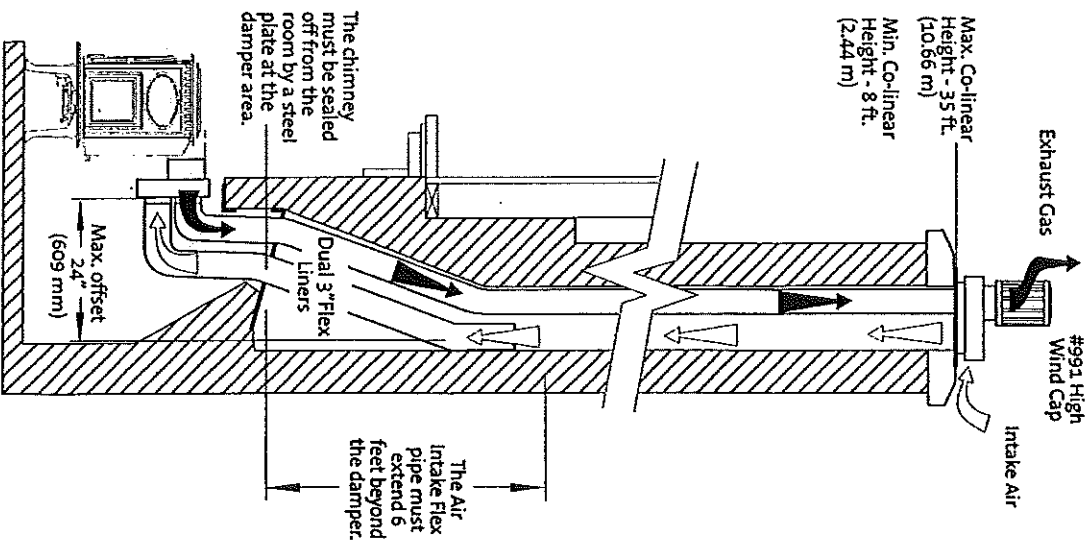


Figure 14. Co-linear Adaptor installed through a masonry chimney. Simpson Dura-Vent components shown.

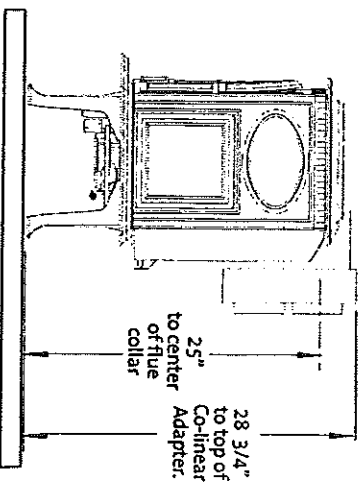


Figure 15. Simpson Dura-Vent #923GCL Co-linear Adaptor. Subtract 2 1/4" for Short Legs.

Masonry or Prefabricated Chimney Conversion

The GF 300 DV is approved for use with Simpson Dura-Vent Chimney Kit #934 in a masonry chimney or a prefabricated solid fuel listed chimney.

These installation requirements must be followed:

1. Use the guidelines for Coaxial Vent Termination appropriate for your gas type on pages 11 - 12.
2. In masonry chimney, a fireclay liner or listed steel liner, must be present the entire length of the chimney.
3. Chimney height should not exceed 35 ft. (10.67 m).
4. The liner must have an inside dimension of 6" round or greater. (USE KIT #934)
5. Prefabricated chimneys must be UL 103 or ULC S-629 listed and have a minimum INSIDE diameter of 6 inches, (150 mm). Prefabricated chimneys must be listed for the specific Simpson Dura-Vent Chimney Conversion Kit. (USE KIT #931, #932, or #933)

IMPORTANT NOTICE
THE USE OF AN EXISTING CHIMNEY AS AN AIR INTAKE IS NOT COVERED UNDER THE ANSI Z21.88-1999-CSA 2.33-M99 TEST METHODS AND RESULTING ITSMHI PRODUCT CERTIFICATION. THE CODE AUTHORITY HAVING JURISDICTION MUST BE CONSULTED PRIOR TO PROCEEDING WITH THIS INSTALLATION METHOD.

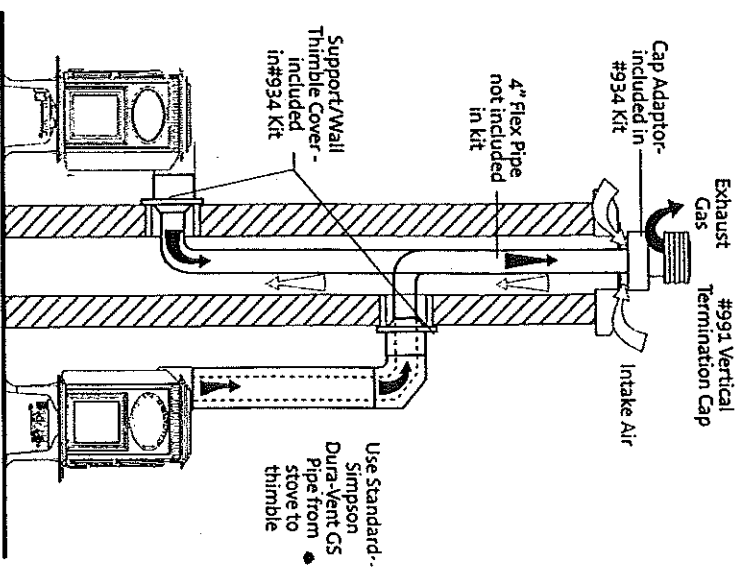


Figure 16. Vent System through a masonry chimney using the Simpson Dura-Vent Chimney Conversion Kit #934. May also be used in listed prefabricated chimneys. Drawing is for illustrative purposes only - DO NOT VENT TWO APPLIANCES INTO A SINGLE CHIMNEY.

Horizontal Termination

- ▲ Any horizontal termination must fall within the shaded portion of the vent window graph illustrated in figs. 9 or 11. For Snorkel Terminations, see below.
- Any horizontal termination except a snorkel termination, must include:
 - 1) Minimum rise of 24 in.
 - 2) Minimum horizontal run of 12 in. when vertical run is less than 8 ft.
 - 3) Vertical run no more than 35 ft.
 - 4) Horizontal run no more than 27 ft.
 - 5) No more than four 45° or two 90° Elbows
- The horizontal termination cap must maintain a 3" clearance to any overhead combustible projections 2 1/2" or less. It must also maintain 12" clearance from projections exceeding 2 1/2". See fig. 21.
- Wall Cut-out Opening: A minimum 10" X 10" (250 mm X 250 mm) square hole is required for proper pipe clearances through a combustible wall.
- DO NOT FILL AIR SPACE WITH ANY TYPE OF INSULATION.**
- Any horizontal run of vent must be level or have a 1/4 in. rise for every foot of run toward the termination cap. NEVER ALLOW THE VENTING TO RUN DOWNWARD FROM STOVE TO TERMINATION; DOWNWARD VENT RUNS TRAP HEAT AND CAUSE HIGH TEMPERATURES TO DEVELOP WITHIN THE VENT THAT COULD START A FIRE.
- Install a Vinyl Siding Standoff (Simpson Dura-Vent #950) between the vent termination and an exterior wall covered by vinyl siding material to prevent potential heat damage to the siding.
- Do not recess the termination cap into a wall or siding.

Snorkel Terminations

- **With a 14" Snorkel:**
The horizontal run made directly off the rear of the stove into a 14" snorkel cap should include no more than a single 12" straight section as shown in fig. 17. One 45° Elbow may be used for a corner installation as shown in fig. 19.
- **With a 36" Snorkel:**
The maximum horizontal run may be no more than 6 ft. (182 cm.)

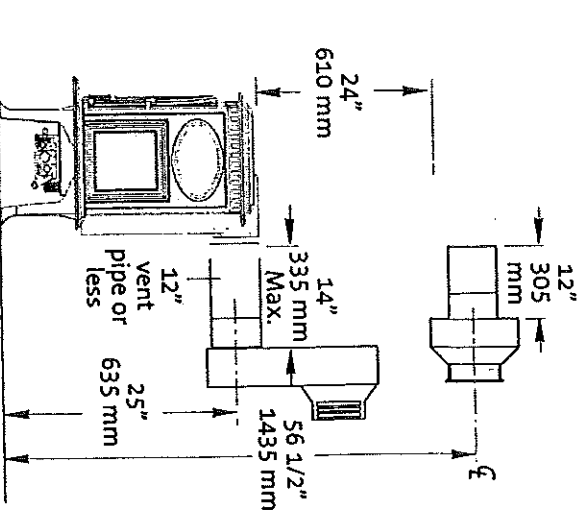


Figure 17.

- Minimum vent for horizontal termination.
- 14" Maximum horizontal run directly off rear of stove with 14" Snorkel termination.

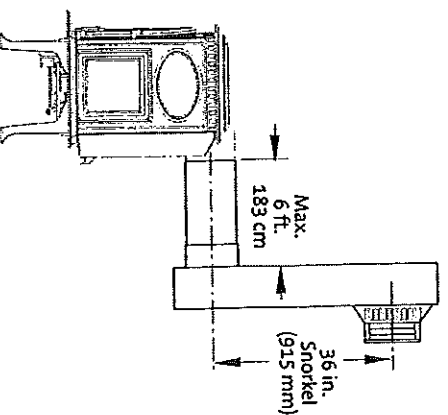


Figure 18. Maximum Horizontal with 36" Snorkel Termination.

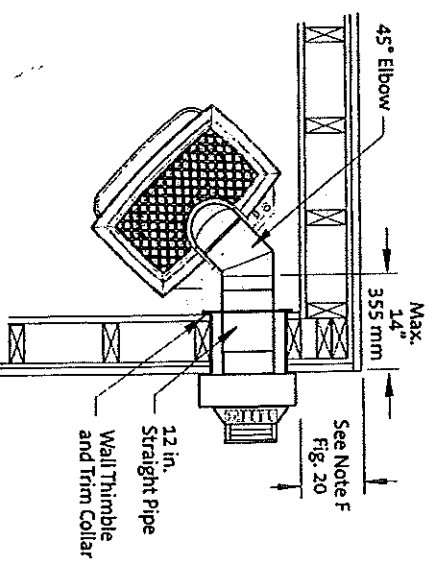


Figure 19. Corner Installation with 14" Snorkel Termination.

Horizontal Termination Clearance

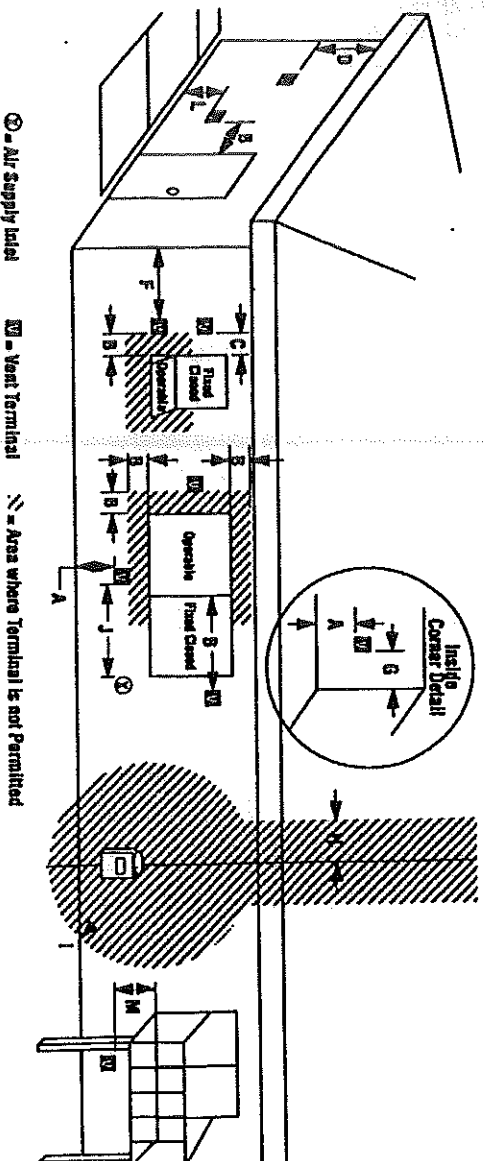


Figure 20. Vent Terminal Clearances - National Fuel Gas Code.

- A = Clearance above grade, veranda, porch, deck, or balcony: ***12 inches (30 cm) minimum.**
- B = Clearance to window or door that may be opened: **9 inches (23 cm) min./U.S. *12 inches (30 cm) min./CAN**
We recommend 12 inches minimum to help prevent condensation on the window.
- C = Clearance to permanently closed window: **9 inches (23 cm) min./U.S. *12 inches (30 cm) min./CAN**
We recommend 12 inches minimum to help prevent condensation on the window.
- D = Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the centerline of the terminal: **18 inches (46 cm) minimum.**
- E = Clearance to unventilated soffit: **12 inches (46 cm) minimum.**
- F = Clearance to outside corner: **9 inches (23 cm) min. Jøtul N.A. strongly recommends 12 inches (30 cm), particularly where windy conditions are prevalent.**
- G = Clearance to inside corner: **6 inches (16 cm) minimum. Jøtul N.A. strongly recommends 12 inches (30 cm), particularly where windy conditions are prevalent.**
- H = *Not to be installed above a meter/regulator assembly within 3 feet (90 cm) horizontally from the centerline of the regulator.
- I = Clearance to service regulator vent outlet: **U.S. - 3 feet CAN. 6 feet (1.8 m) minimum.**
- J = Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance: ***12 inches (30 cm) minimum.**
- K = Clearance to a mechanical air supply inlet: ***6 feet (1.8 m) minimum.**

- L = ** Clearance above paved sidewalk or a paved driveway located on public property: ***7 feet (2.1 m) min.**
- M = Clearance under veranda, porch, deck, or balcony: ***12 inches (30 cm) minimum.***

- * As specified in CGA B149 Installation Codes. Note: Local Codes and Regulations may require different clearances.
- ** A vent shall not terminate directly above a sidewalk or driveway which is located between two single family dwellings and serves both dwellings.*
- * Only permitted if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.*

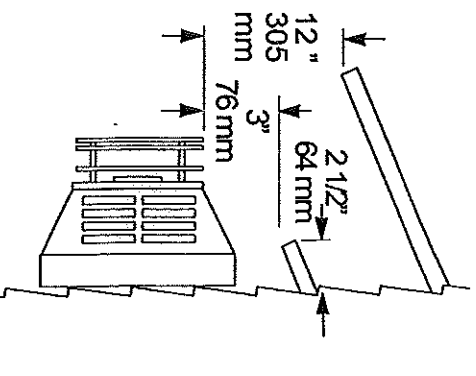


Figure 21. Termination Clearance to overhangs.