

This section is intended for qualified installers only. Before beginning, make note of where the gas and electrical accesses are located on the unit. This will streamline the construction process. Furthermore, familiarize yourself with the venting and clearance requirements (see Venting section) for this appliance. Failure to comply with those requirements can seriously compromise the safety and operation of the fireplace.

Specifications

1. Cold climate installation recommendation: When installing this fireplace against non-insulated exterior wall or chase, it is recommended that the outer walls be insulated to conform to applicable insulation codes. Drywall & vapor barrier must be installed over insulation to prevent contact of insulation and unit.
2. Choose fireplace location and frame in accordance with the fireplace framing dimensions specified (view diagrams).
3. Drywall or other combustible material can extend up to the Drywall Stops located on the sides of the unit, and up to the bottom and top.
4. A Hearth is not required for this unit.

Vertical Venting in Cold Climates

In cold climate conditions where temperatures go below -10 degrees Celsius or 14 degrees Fahrenheit, we recommend that the chase be insulated and where the vent pipe enters into the attic space that the pipe be wrapped with an insulated Mylar sleeve. This will increase the temperature of the vent and help the appliance to vent properly in cold weather conditions.

It is also important in vertical vented direct vent appliances that the appliance be operated daily during the winter months as this will help stop the termination from freezing up. We recommend using a thermostat (Not permitted for decorative vented gas fireplaces installed in the U.S.A.) set at room temperature to allow the unit to cycle.

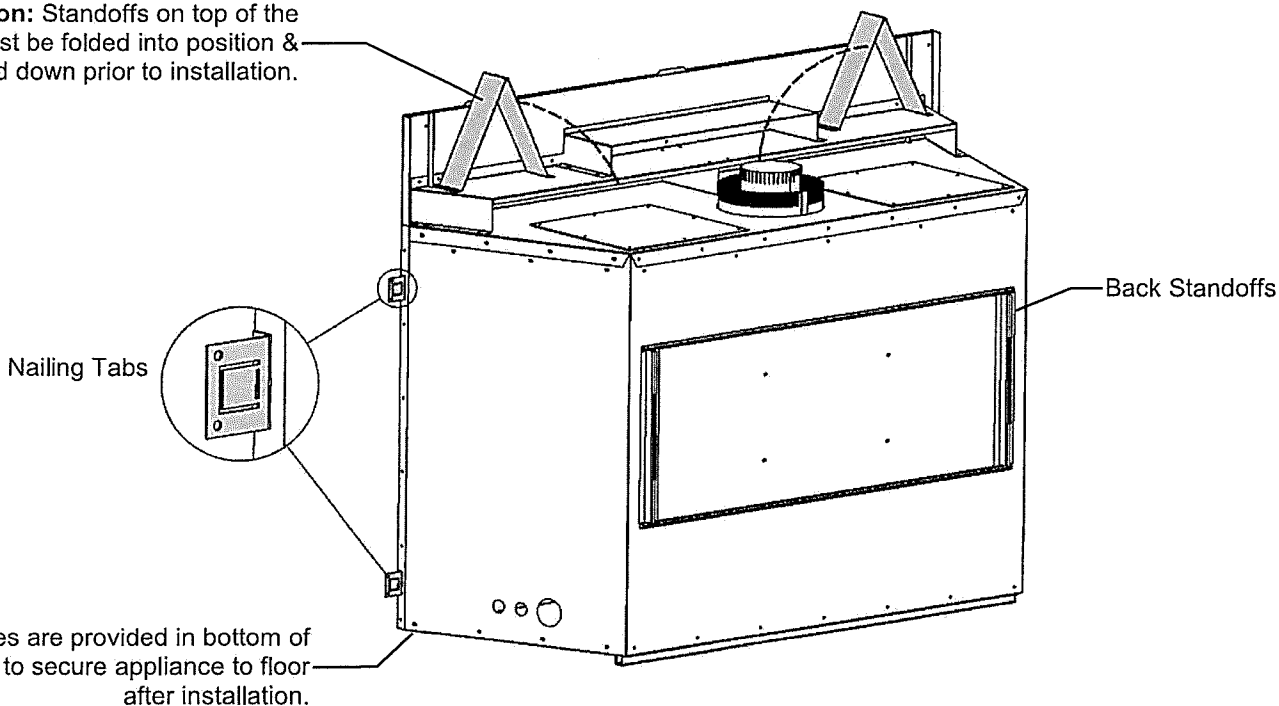
For IPI models it may be necessary to set the appliance to Standing Pilot mode to maintain heat in the cavity. The purpose of this procedure is to prevent cold air from penetrating the chimney and then onto the living space. Therefore, when the internal temperature is slightly elevated the fireplace is able to freely exhaust its combustion and hence making it easier to startup.

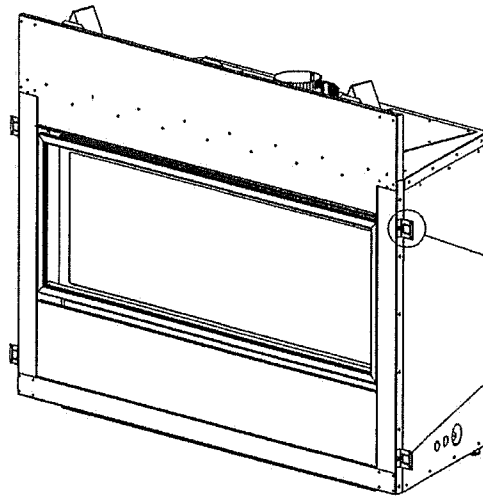
Certified for installation in a bedroom or bedsitting room. In Canada must be installed with listed millivolt thermostat (Not permitted for decorative vented gas fireplaces installed in the U.S.A.). In USA see local codes.

Stand-off Locations

Make note of where the stand-off locations are. These stand-offs are provided as indicators to illustrate the boundaries for framing. Therefore, no framing material is permitted to extend beyond these stand-offs.

Caution: Standoffs on top of the unit must be folded into position & screwed down prior to installation.

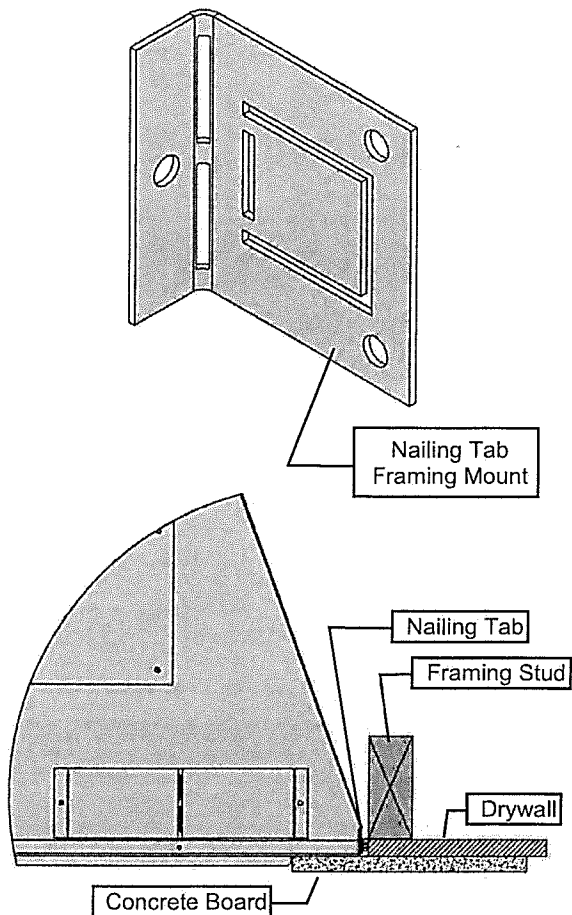




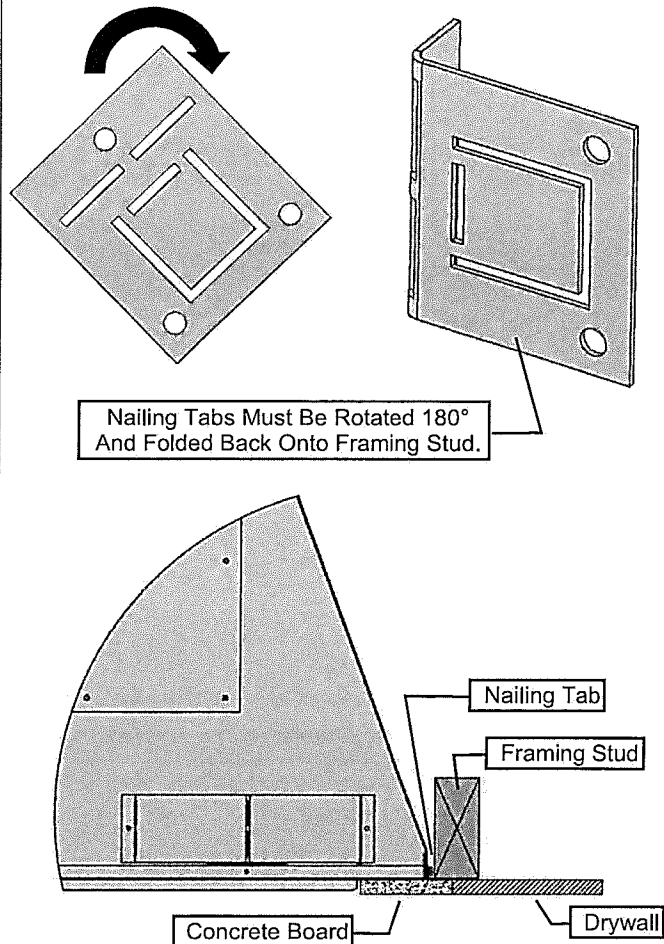
[Qty] 2 Nailing Tabs are located on each side of the fireplace front frame.

These Nailing Tabs can be used in two ways:

1/2" Drywall Flush with Face of Fireplace -Fireplace and Combustible Wall to be covered with a surround and / or Non-Combustible Materials (e.g. Stone around Fireplace).



Framing Flush with Face of Fireplace -Fireplace to be covered with Non-Combustibles (e.g. Concrete Board) for Flat Wall appearance.



ZCVRB47 -Facing Requirements- ALL UNITS- Chase Not Vented or Vented Chase-

NOTE: ANY MATERIALS COVERING THE FACE OF THE FIREPLACE BESIDE AND ABOVE THE FIREPLACE OPENING MUST BE NON-COMBUSTIBLE (i.e. brick, stone, tile, concrete board). **FIREPLACE WITH SCREEN ONLY (AS SHIPPED) SHOWN HERE.**

Notice: Granite, tile, or other facing materials are not covered by the fireplace warranty. Natural stone, tile, and other facing materials may crack or discolor (i.e. yellowing of lighter colored materials).

NOTE: these issues can be avoided if the Chase is Vented.

Televisions are not covered by fireplace warranty.

Notice: DurockR Brand Cement Board: The manufacturer recommends **CGC SheetrockR Brand DurabondR 90 Setting- Type Drywall Compound** rather than a ready-mix product for finishing.

When finishing the wall around the fireplace, it is critical that the wall covering be fastened properly. It is acceptable to pre-drill holes and use self-tapping screws which may be used to fasten a backer for tile, marble, etc. Screws being installed through non-combustible board should be self-tapping type with a maximum length of 2 inches. **Do not drill or install longer screws (over 2") as this may damage internal components.**

- We recommend that CONCRETE BOARD (non-combustible material) be tied in to the entire perimeter of the fireplace for durability.

Finishing Recommendations (Obtained from professional construction contractors and finishers):

- Frame unit with metal studs (minimum 20 gauge). **Wooden studs may be used, but may cause drywall screws to pop or pull due to wood studs drying out.**
- Minimum of 1/2" CONCRETE BOARD cement board (this **non-combustible** panel is ULC listed as a wall shield/floor protector) and fasten to the entire perimeter framing.
- Use fiberglass (mesh) tape for all joints in area of the fireplace.
- Use Yellow joint mud (contains high amounts of glue) – two coats, finishing with one coat of green topping mud, sand and prep for painting.
- If not using a surround, a metal "L" Trim may be used to finish perimeter of CONCRETE BOARD.
- **OTHER NOTES:**

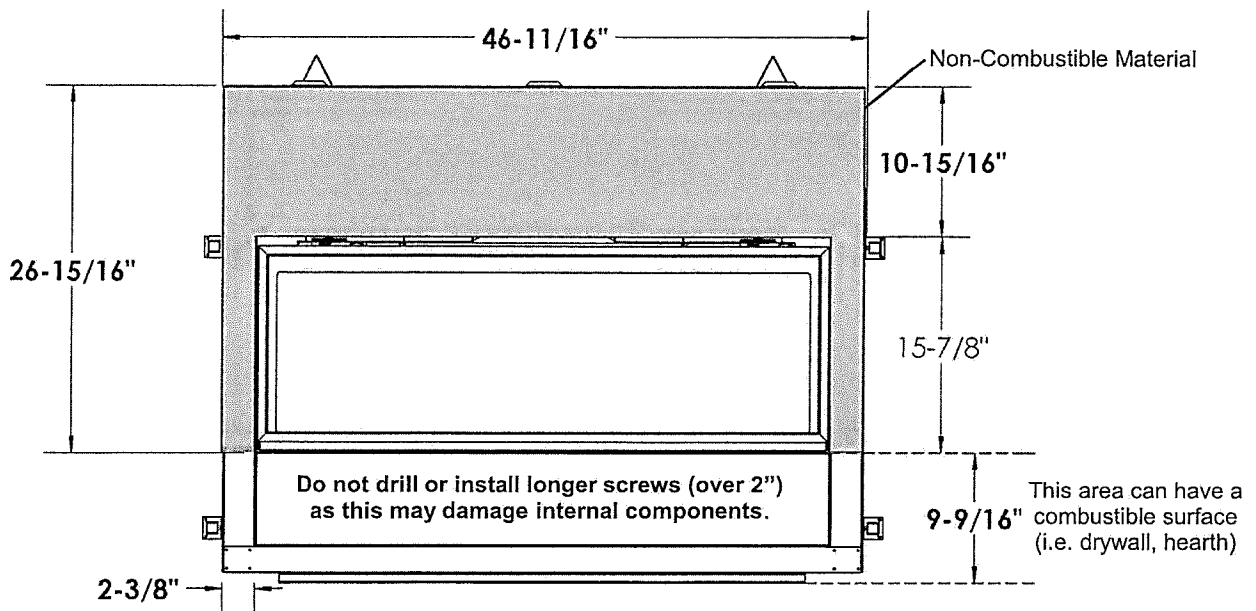
-A **full single sheet** of non-combustible board (no joints) above the unit is recommended if possible.

-It is preferred to attach the non-combustible board to **framing only** and not directly to the unit to allow for expansion and contraction during normal operation.

-Lighter colored painted surfaces may discolor due to heat exposure.

REQUIRED: NON COMBUSTIBLE OVER UPPER FACE OF APPLIANCE

SUGGESTED: NON COMBUSTIBLE MATERIAL SCREWED TO FRAMING



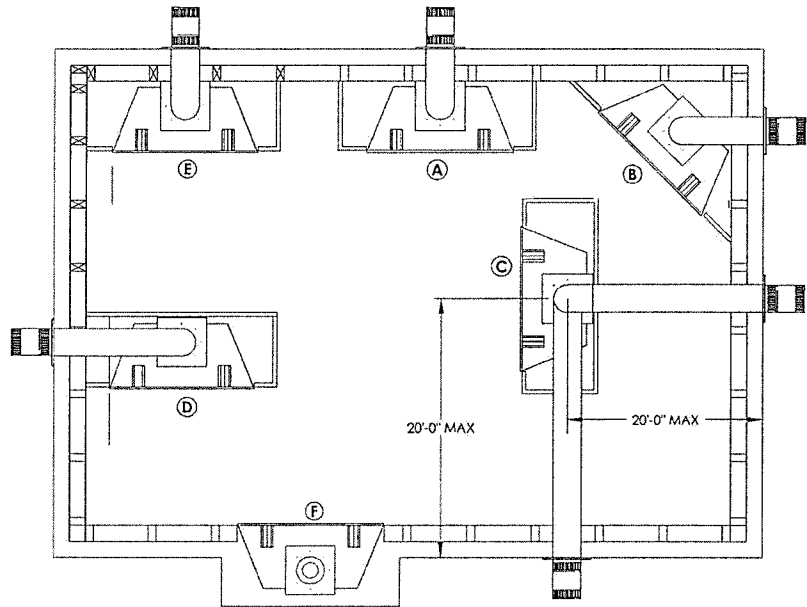
Locating Your Appliance

LOCATION KEY:

- A. Flat on Wall
- B. Across the Corner
- C. As an Island
- D. As a Room Divider
- E. Flat on Wall Corner
- F. Exterior Wall

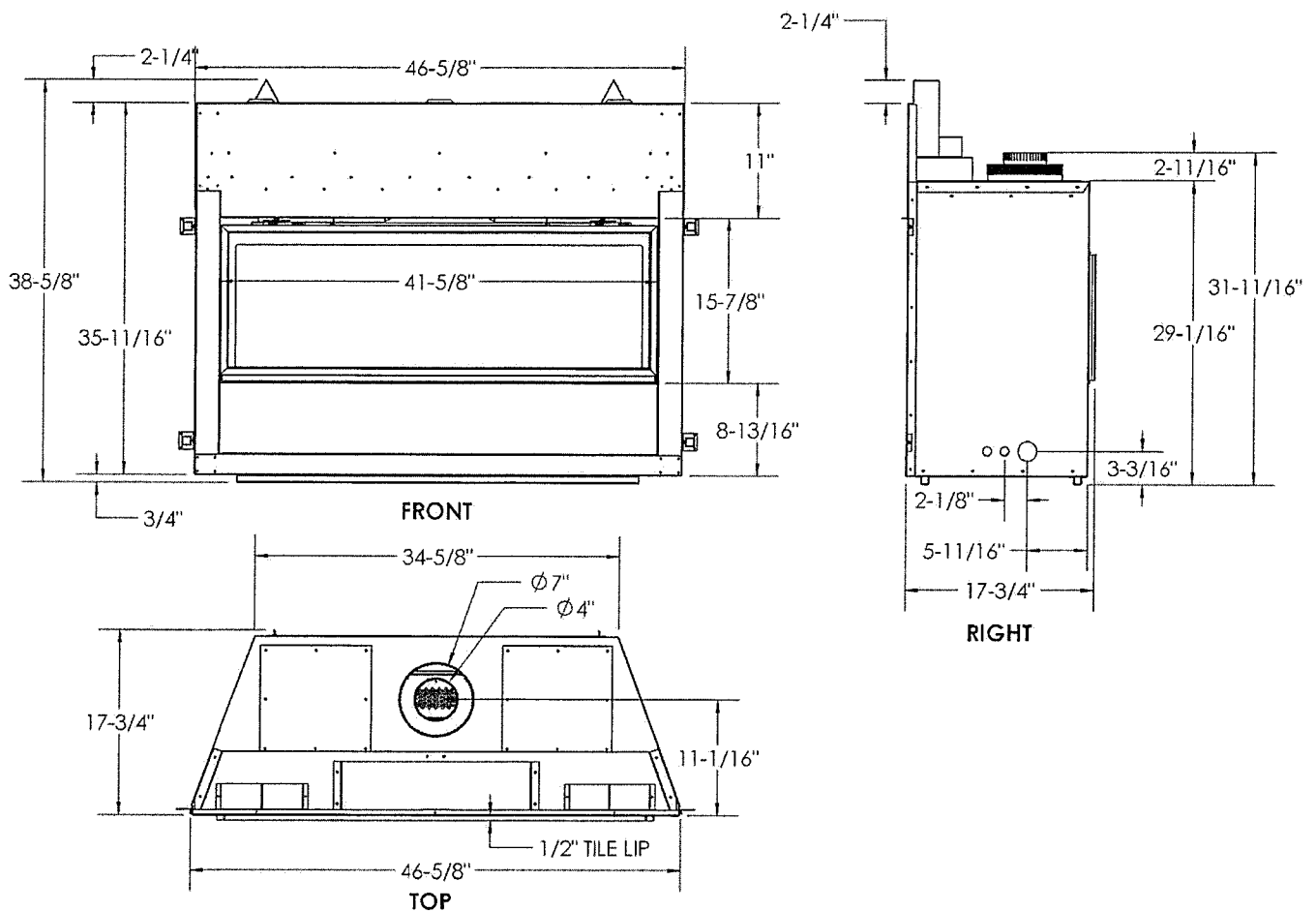
See Mantel Leg Clearances Instruction for the proper placement of fireplace.

Island installation with a top vent is possible as long as the horizontal portion of the vent system does not exceed 20 feet (6.1 m).



ZCVRB47

Fireplace Dimensions



ZCVRB47 –Unvented Chase VS Vented Chase- Choose Your Installation

Look at the following chart before you begin the installation.

	Low Enclosure	Wall Surface Temperature above front of fireplace	TV above Fireplace with Recessed Installation option	Mantel Height (From Bottom of Unit)	Heat can be directed to second room
UNVENTED CHASE	70"	Warm	Yes	2" at 41-7/16"	No
VENTED CHASE	70"	40% Cooler than unvented chase	Yes	Any size at 39-7/16"	Yes

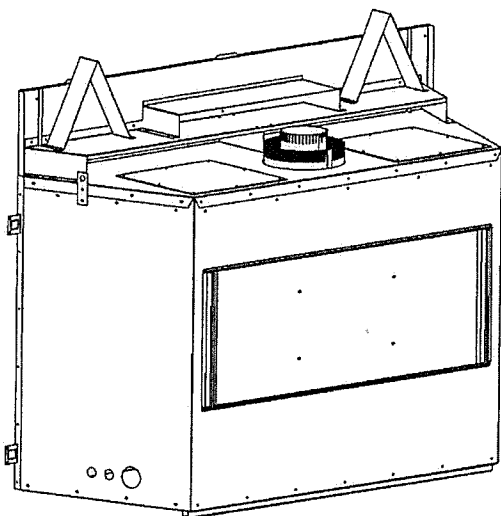
FRAMED AS

UNVENTED CHASE:

This is a traditional fireplace installation where the fireplace is built into an unvented chase.

- Wall surface temperature will be warm
- TV above Fireplace is allowed
- Mantel height is higher

Fireplace will be installed with Ventilation Plates in place (as shipped).



See "Chase Not Vented" Framing Section

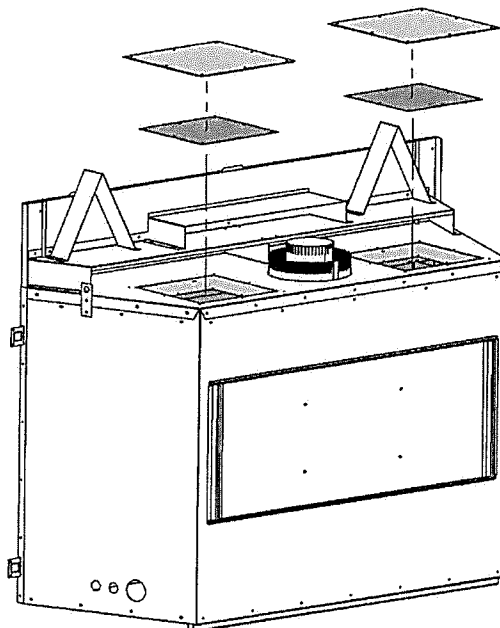
FRAMED AS

VENTED CHASE:

The fireplace is installed into a vented chase. There are many different styles of vented chase. See pages in manual for installation details and information.

- Chase walls will be cool to the touch.
- A TV is allowed above the fireplace.
- Mantel height is lower

Fireplace will be installed with **Ventilation Plates** removed (see instructions in manual).



- A minimum opening of 105 square inches of ventilation area is required.
- Kingsman **V46EG** or **VL60EGS** Grills may be used.
- If a custom grill is used, free air opening must total 105 square inches with no sloping louvers.

See "Vented Chase" Framing Section

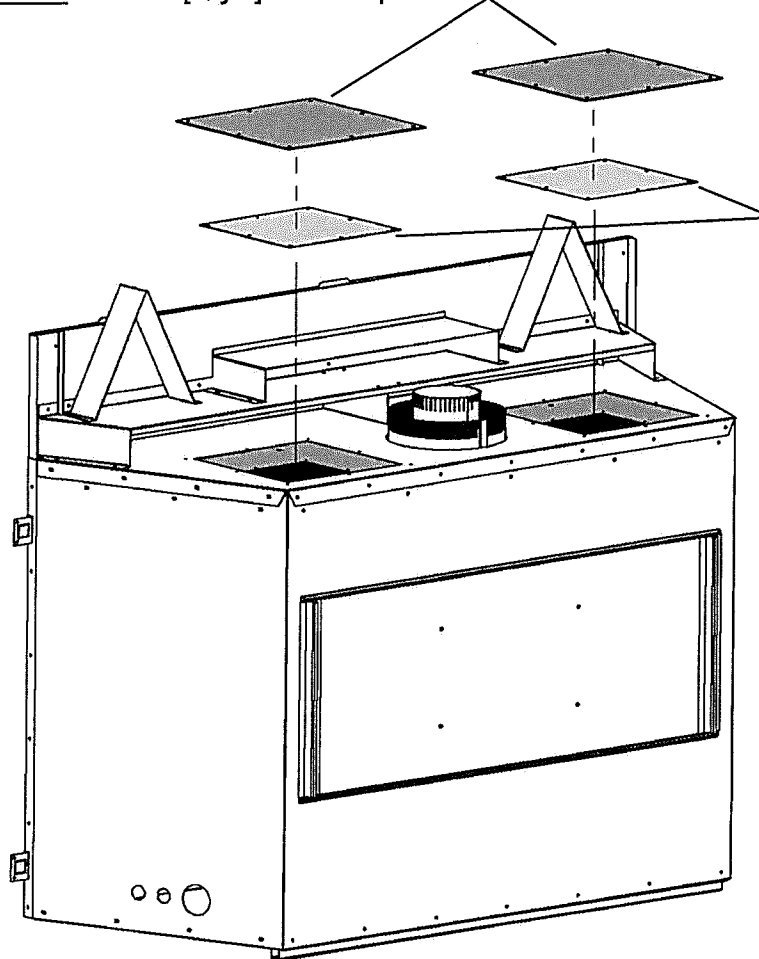
ZCVRB47 -Vented Chase –Removal of Ventilation Plates- See Framing for Vented Chase

⚠ CAUTION: Ventilation Plates must be removed before ZCVRB47 is installed into a Vented Chase.

STEP 1: Remove [Qty 2] Outer Top Covers.

STEP 2: Remove [Qty 2] Ventilation Plates inside opening.

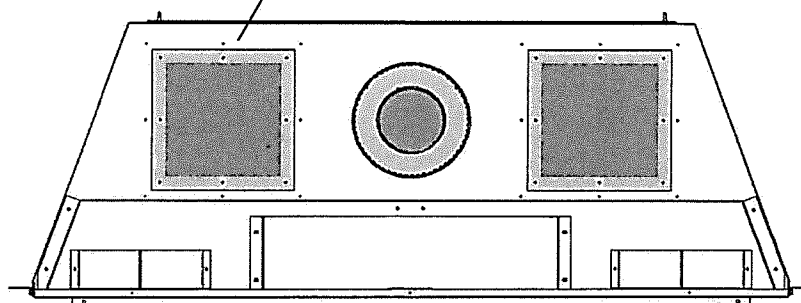
STEP 1: Remove [Qty 2] Outer Top Covers



STEP 2: Remove [Qty 2] Ventilation Plates.

Remove 1/4" drive screws and pry loose from sealant.

TOP VIEW After Outer Top Covers and Ventilation Plates have been removed.



See "Vented Chase" Framing Section

ZCVRB47 – Vented Chase – Style 1 – OPENING WITH NO GRILL

- **VENTILATION PLATES MUST BE REMOVED.**
- Minimum Enclosure Height is 70" from the bottom of the appliance.
- For vertical venting use a Firestop (ZDVFS) or Attic Insulation (ZDVAIS, Z7AIS24) Shield through enclosure top.
- Minimum Chase Opening is **105 square inches** free air.

△ NOTE:

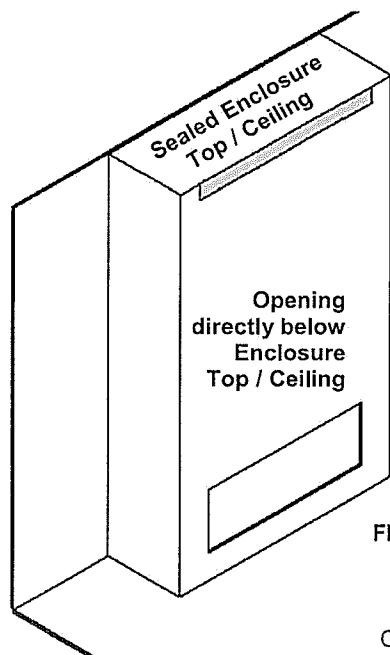
HEAT CANNOT BE DISCHARGED INTO THE WALLS, FLOOR, OR CEILING. Heat must exit through the required vented chase opening near the ceiling.

ELECTRICAL WIRES IN CHASE MUST BE PROPERLY ATTACHED TO INSIDE WALL OF CHASE. DO NOT RUN WIRES ABOVE THE APPLIANCE.

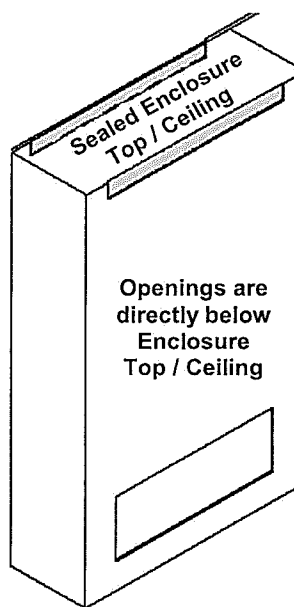
Please follow the current CSA C22.1 Canadian Electrical Code or the National Electrical Code; ANSI/NFPA 70 when installed in the United States.



If using insulation in vented chase (i.e. for outside wall), wall board / drywall is required to support all insulation. Vented chase must be clean and free of all debris (i.e. loose insulation, pieces of wood, etc.)



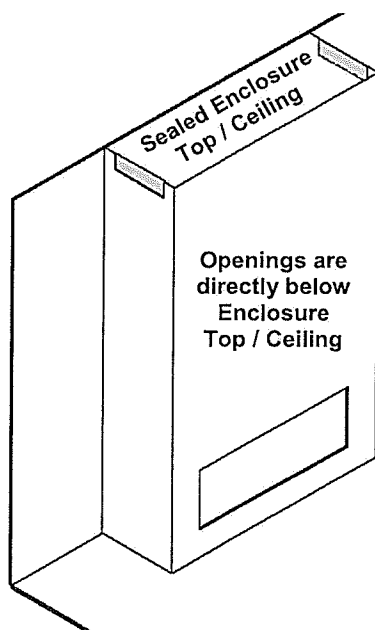
**FRAMING TO CEILING-
OPEN FRONT
NO GRILL**
Finished Minimum
Opening is **105 square
inches** of free air.



**FRAMING TO
CEILING- OPEN
FRONT AND BACK
NO GRILL**

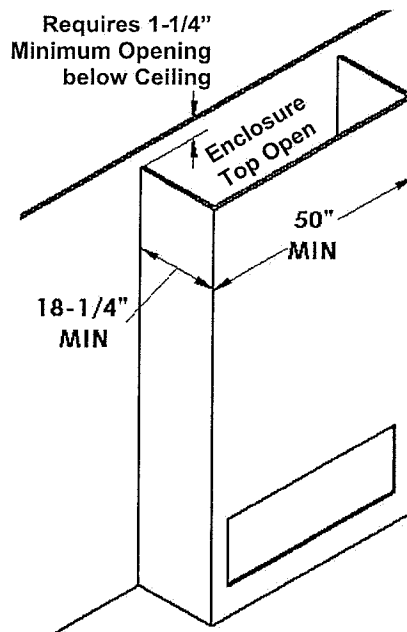
Each opening must be
105 square inches of
free air.

**Both Chase Vent
Openings Must be in
the same Pressure
Zone
(Room / Area)**



**FRAMING TO CEILING-
OPEN SIDES
NO GRILLS**
Finished Minimum
Opening is **105 square
inches** of free air.

NOTE: Sides of
enclosure must have
equal sized openings.

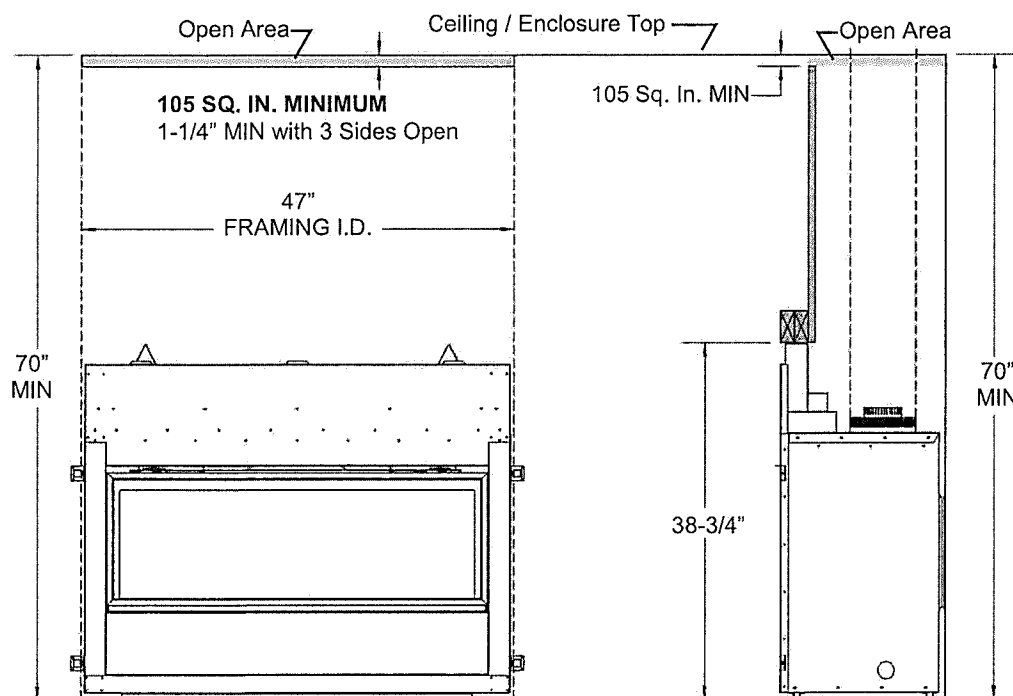


**OPEN CHASE
FRAMING-
ENCLOSURE MIN
1-1/4\"/>**

Finished Minimum
Opening is **105
square inches** of
free air.

ZCVRB47 –Vented Chase- Style 1 – OPENING WITH NO GRILL

VENTILATION PLATES MUST BE REMOVED



⚠ **NOTE:** Minimum Opening is 105 sq. inches of free air.

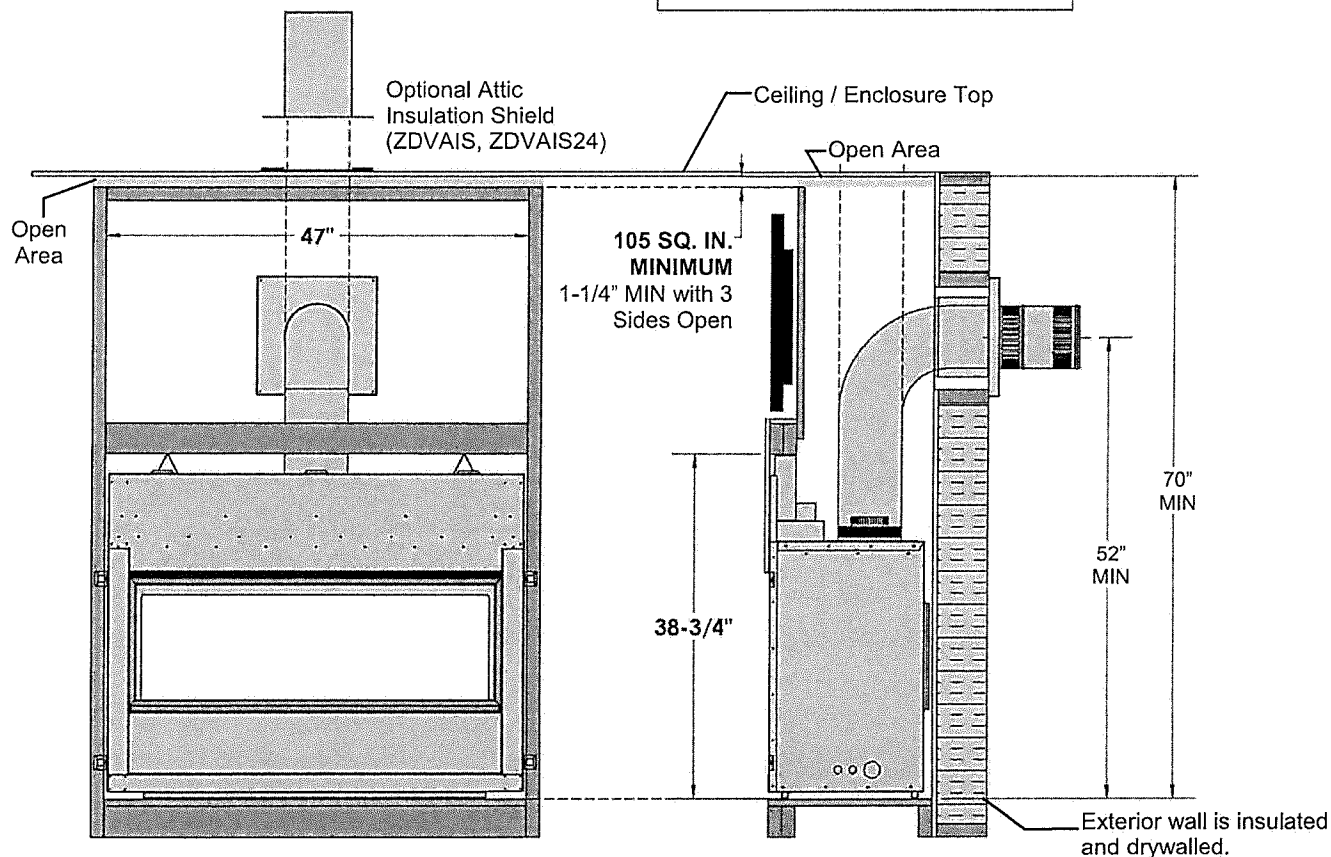
⚠ **NOTE:** If using insulation in vented chase (i.e. for outside wall), wall board / drywall is required to support all insulation.

Vented chase must be clean and free of all debris (i.e. loose insulation, pieces of wood, etc.).

⚠ **NOTE: HEAT CANNOT BE DISCHARGED INTO THE WALLS, FLOOR, OR CEILING.** Heat must exit through the required vented chase opening near the ceiling.

Vertical Venting must use Firestop Spacer (ZDVFS) or Attic Insulation Shield and Sealant

SEALED ENCLOSURE
TOP VIEW



ZCVRB47 – Vented Chase – Style 2 – OPENING WITH GRILL

- VENTILATION PLATES MUST BE REMOVED.
- Grill openings must be within 2" of enclosure top.
- Minimum Enclosure Height is 70" from the bottom of the appliance.
- For vertical venting use a Firestop (ZDVFS) or Attic Insulation (ZDVAIS, Z7AIS24) Shield through enclosure top.
- If Kingsman V46EG Grill is used, *minimum rough opening required is 2-5/8" x 46-3/4"*. Any obstacles, such as vertical studs should be notched back 1-1/2" from finished face of wall.

⚠ NOTE: HEAT CANNOT BE DISCHARGED INTO THE WALLS, FLOOR, OR CEILING. Heat must exit through the required vented chase opening near the ceiling.

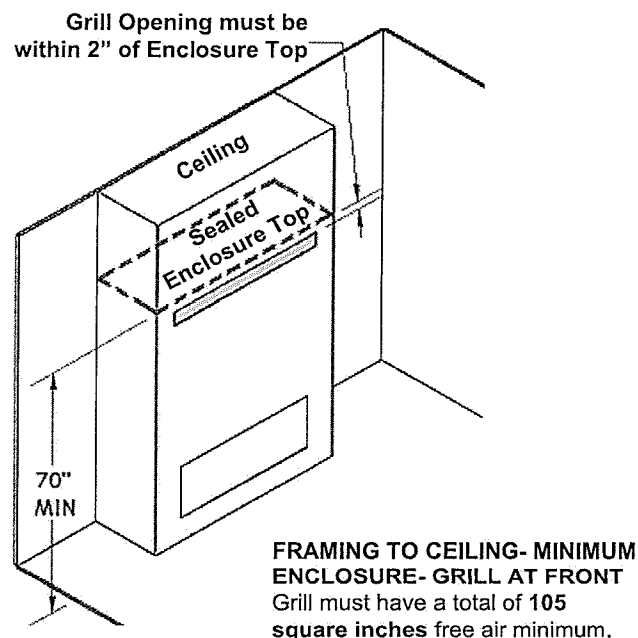
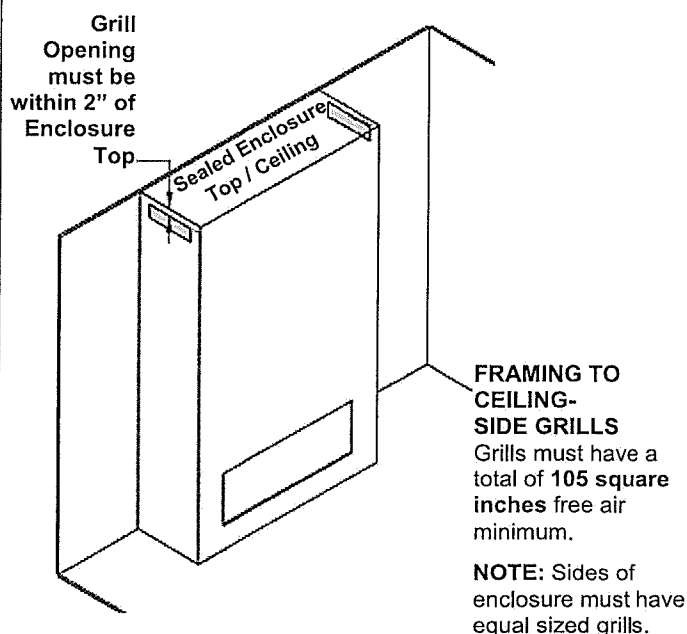
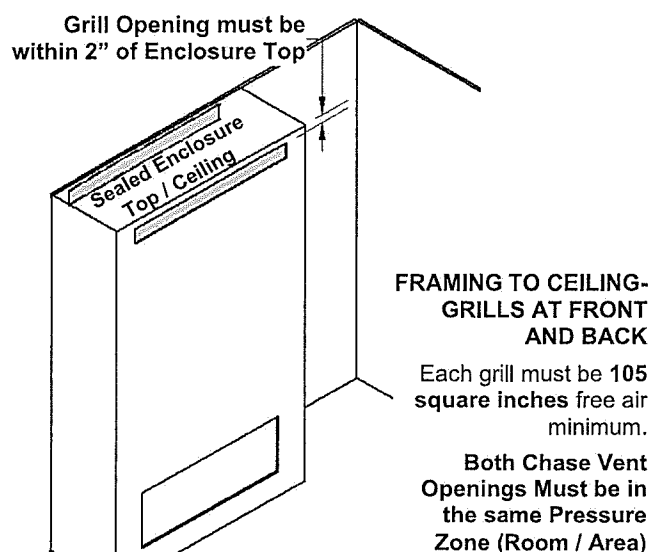
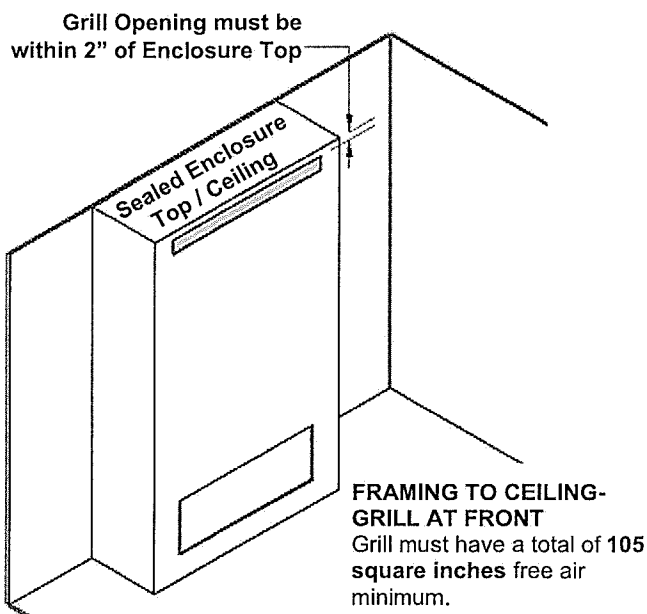
ELECTRICAL WIRES IN CHASE MUST BE PROPERLY ATTACHED TO INSIDE WALL OF CHASE. DO NOT RUN WIRES ABOVE THE APPLIANCE.

Please follow the current CSA C22.1 Canadian Electrical Code or the National Electrical Code; ANSI/NFPA 70 when installed in the United States.

⚠ NOTE: Outsourced grills must have **105 square inches minimum free air opening and no sloping louvers**



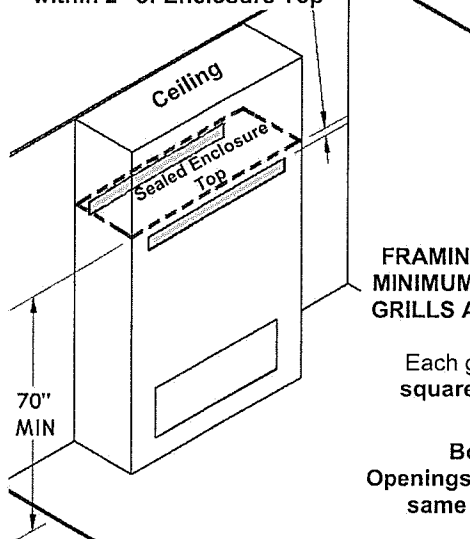
If using insulation in vented chase (i.e. for outside wall), wall board / drywall is required to support all insulation. Vented chase must be clean and free of all debris (i.e. loose insulation, pieces of wood, etc.)



ZCVRB47 – Vented Chase – Style 2 – OPENING WITH GRILL

VENTILATION PLATES MUST BE REMOVED

Grill Opening must be within 2" of Enclosure Top

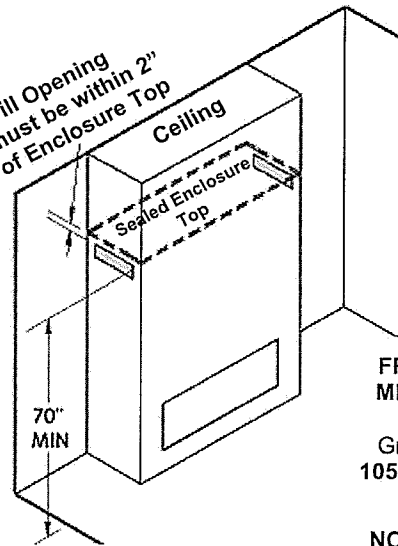


**FRAMING TO CEILING-
MINIMUM ENCLOSURE-
GRILLS AT FRONT AND
BACK**

Each grill must be 105 square inches free air minimum.

Both Chase Vent
Openings Must be in the
same Pressure Zone
(Room / Area)

Grill Opening must be within 2" of Enclosure Top

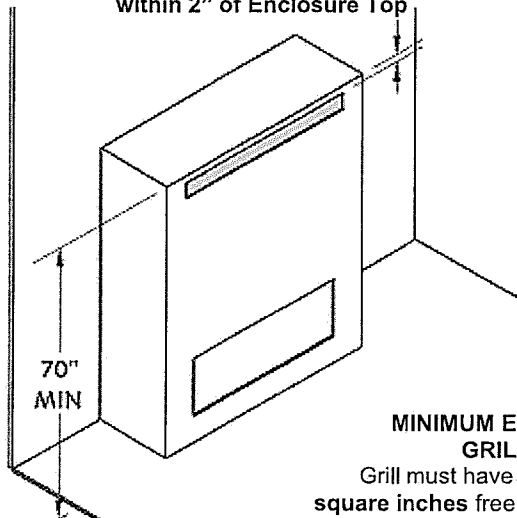


**FRAMING TO CEILING -
MINIMUM ENCLOSURE-
SIDE GRILLS**

Grills must have a total of 105 square inches free air minimum.

NOTE: Sides of enclosure must have equal sized grills.

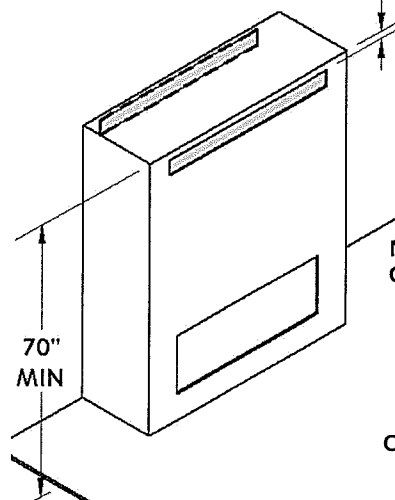
Grill Opening must be within 2" of Enclosure Top



**MINIMUM ENCLOSURE-
GRILL AT FRONT**

Grill must have a total of 105 square inches free air minimum.

Grill Opening must be within 2" of Enclosure Top

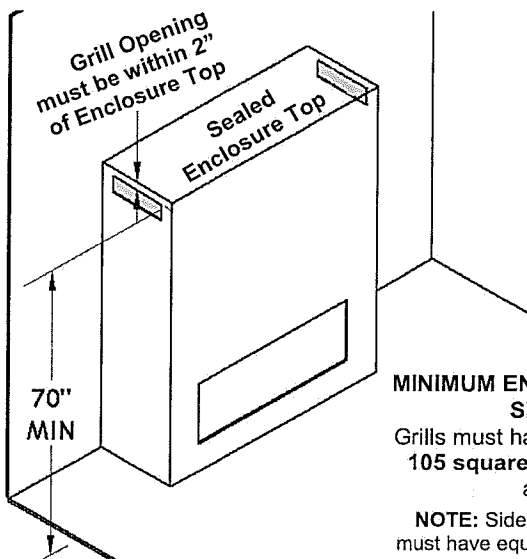


**MINIMUM ENCLOSURE-
GRILLS AT FRONT AND
BACK**

Each grill must be 105 square inches free air minimum.

Both Chase Vent
Openings Must be in the
same Pressure Zone
(Room / Area)

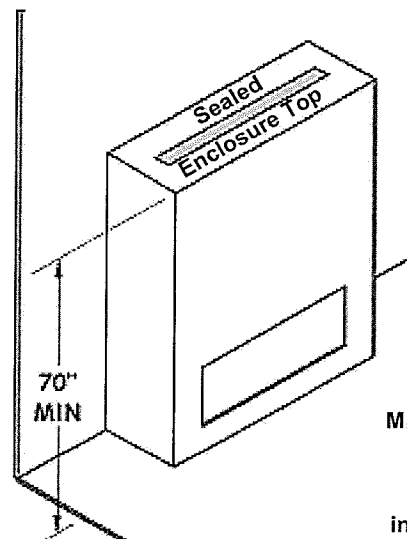
Grill Opening must be within 2" of Enclosure Top



**MINIMUM ENCLOSURE-
SIDE GRILLS**

Grills must have a total of 105 square inches free air minimum.

NOTE: Sides of enclosure must have equal sized grills.

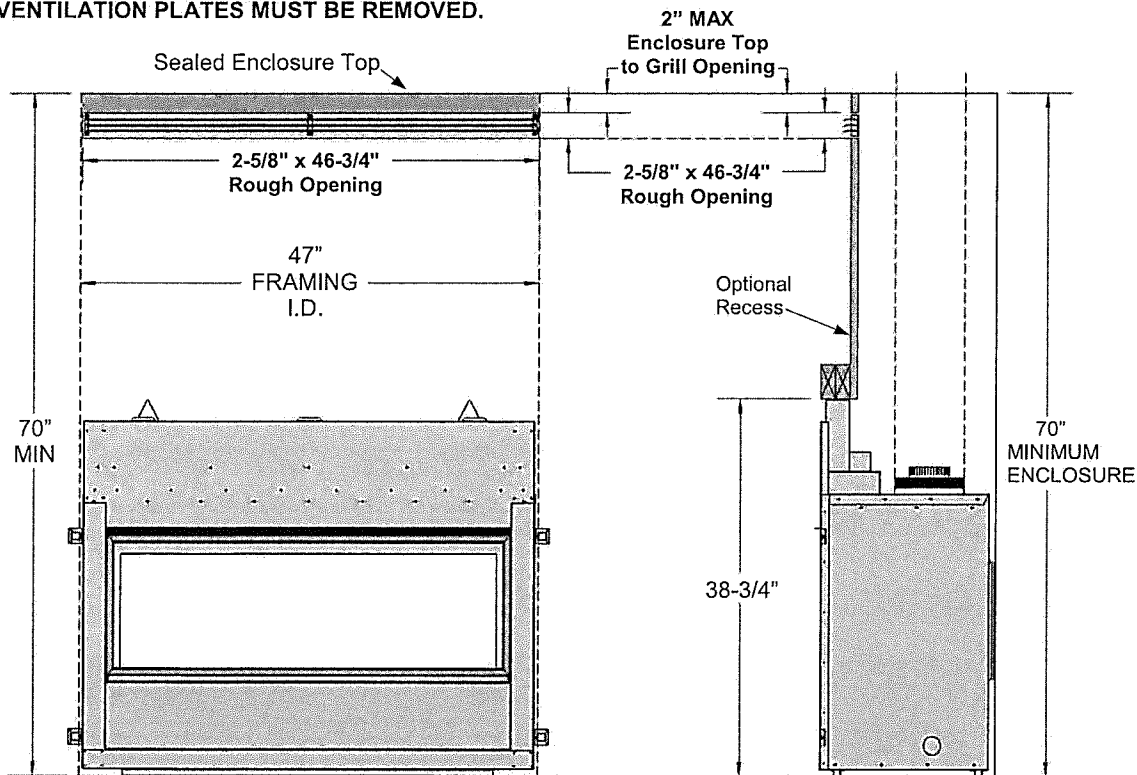


**MINIMUM ENCLOSURE-
GRILL AT TOP**

Grill area must have a total of 105 square inches free air minimum.

ZCVRB47 –Vented Chase -Style 2 – OPENING WITH GRILL - Kingsman V46EG

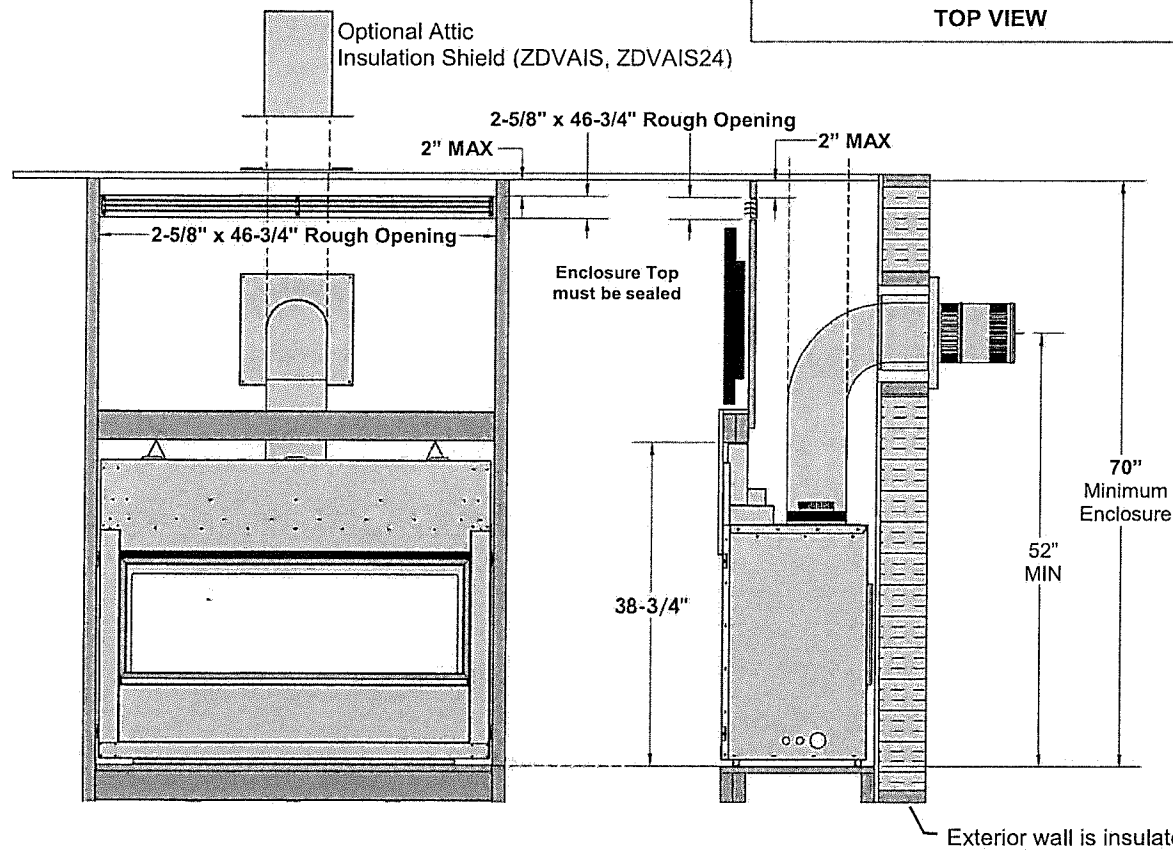
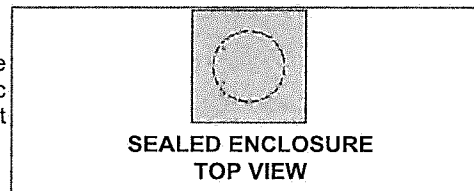
VENTILATION PLATES MUST BE REMOVED.



▲ NOTE: If using insulation in vented chase (i.e. for outside wall), wall board / drywall is required to support all insulation. Vented chase must be clean and free of all debris (i.e. loose insulation, pieces of wood, etc.).

▲ NOTE: HEAT CANNOT BE DISCHARGED INTO THE WALLS, FLOOR, OR CEILING. Heat must exit through the required vented chase opening near the ceiling.

Vertical Venting must use Firestop Spacer (ZDVFS) or Attic Insulation Shield and Sealant



Parts List:

- [1] Louver Grill (ready to paint)
- [1] Outer Trim Grill Mount (ready to paint)
- [1] Upper Frame for Hidden Grill Mount
- [1] Lower Frame for Hidden Grill Mount
- [6] #6 Black Screws

This Kit comes with two installation options:

Outer Trim Grill Mount - For a Quick and simple installation.

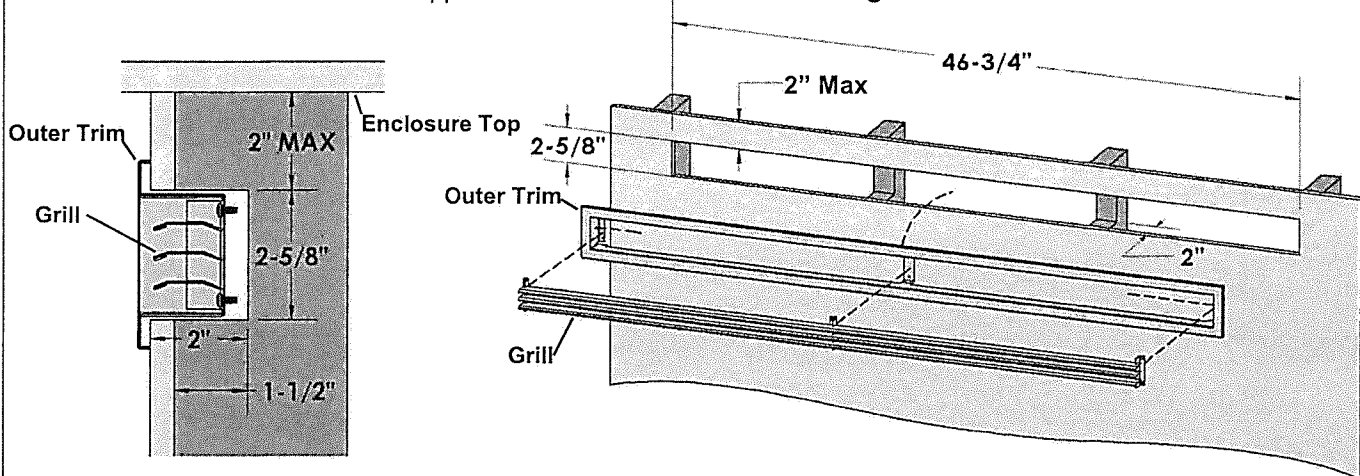
Hidden Grill Mount - For a very clean installation with only the grill visible in the finished opening.

⚠ Grill openings must be within 2" of enclosure top. This is to prevent excess heat from becoming trapped in the top of the chase. See installation section of manual.

USING OUTER TRIM MOUNT:

-Insert Trim into opening and fasten to framing with a wood screw at each end.

-Then insert Grill and attach with supplied #6 black screws. **Do not over tighten screws.**

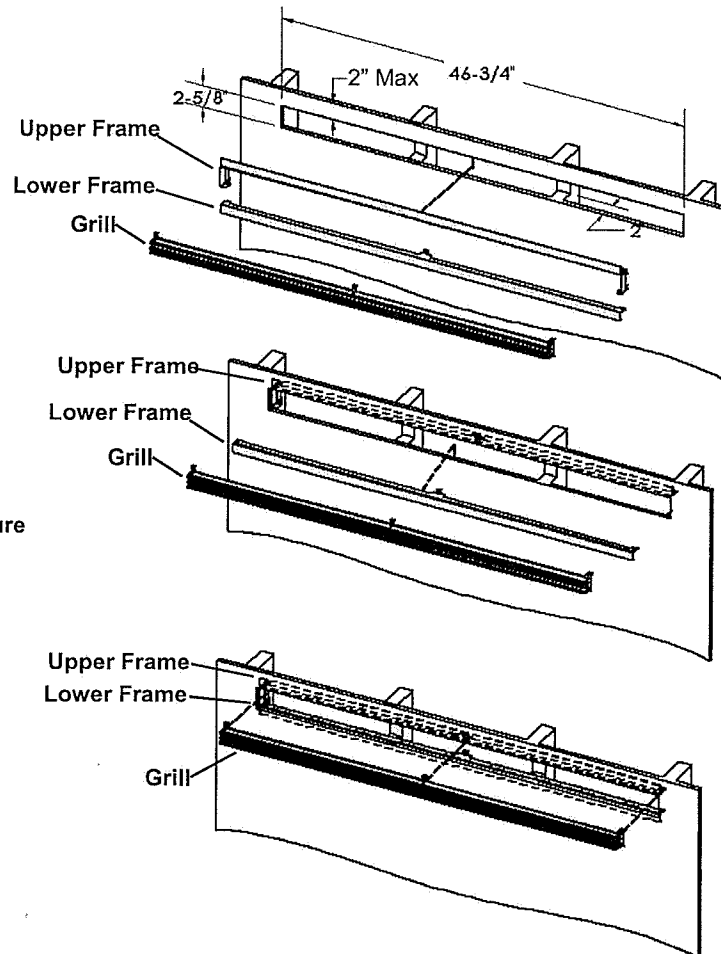
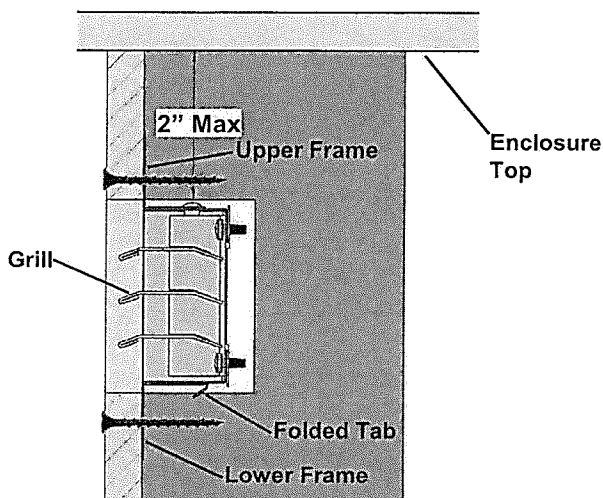
**USING HIDDEN GRILL MOUNT:**

-Insert Upper Frame into opening and push between drywall and framing studs. Attach to drywall with screws.

-Insert Lower Frame into opening and push between drywall and framing studs. Fold tabs at each of Lower Frame end to lock in place. Attach to drywall with screws.

-Completely finish wall.

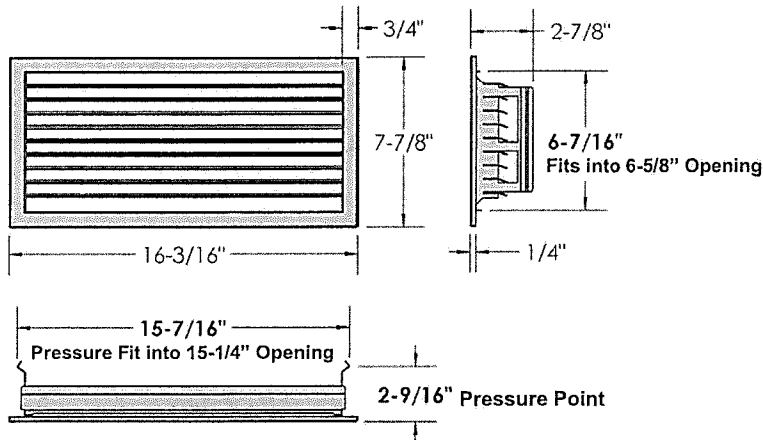
-Then insert Grill and attach with supplied #6 black screws. **Do not over tighten screws.**



VL60EGS Side Grill Installation ZCVRB47

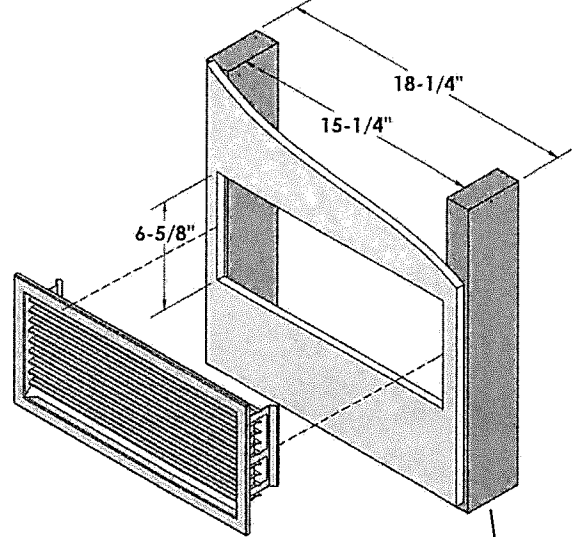
Option

Contents of Kit: [Qty 2] Side Grill assemblies (ready to paint).

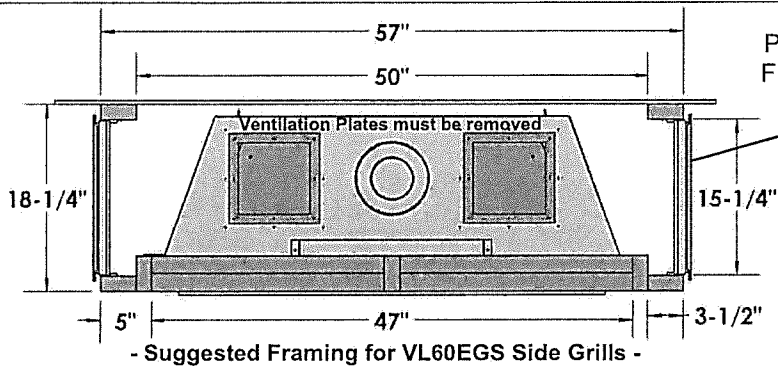


⚠ Grill openings must be within 2" of enclosure top. This is to prevent excess heat from becoming trapped in the top of the chase. See installation section of manual.

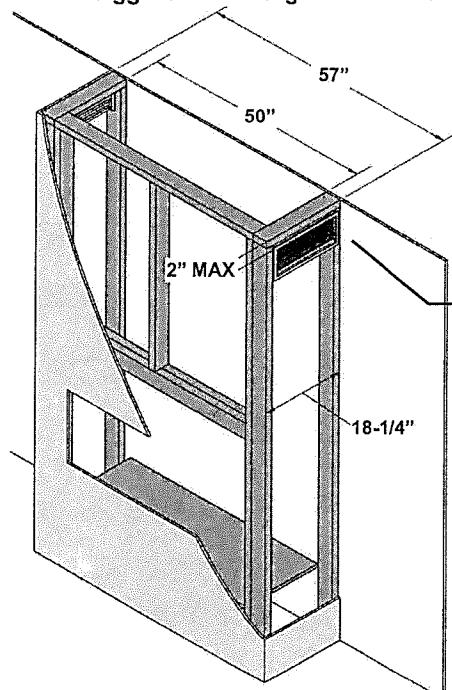
15-1/4" x 6-5/8" Tall opening required.



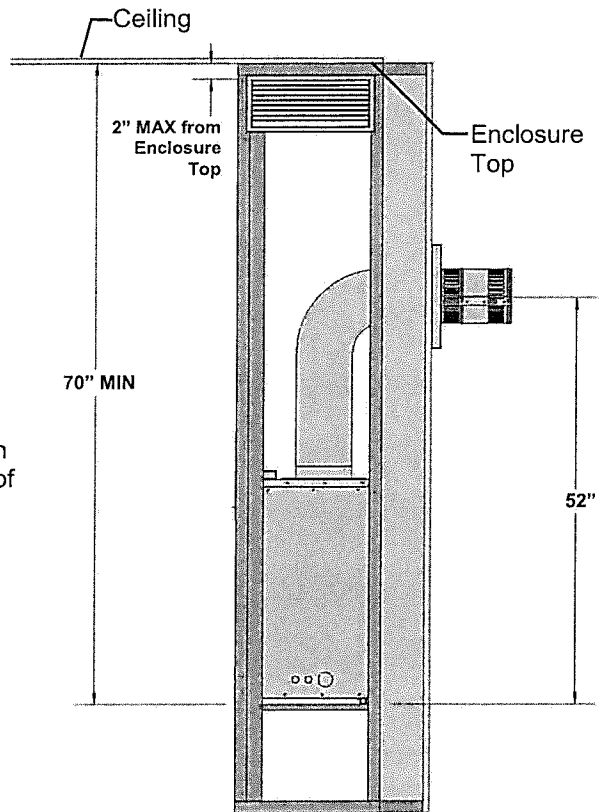
Vertical Studs are required for Pressure Fit



⚠ Grill Openings Must be within 2" of Enclosure Top.



Grills must be used on Left and Right Side of Chase

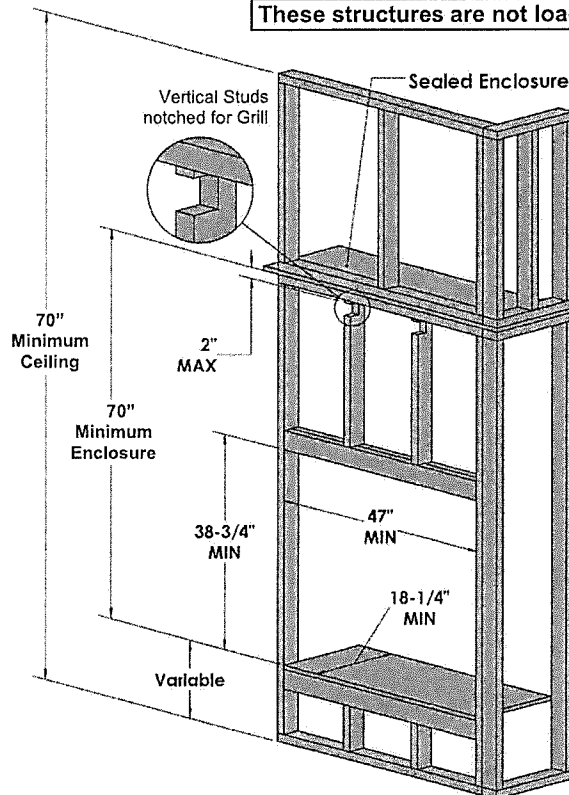


ZCVRB47 -Framing Dimensions –Vented Chase -Ventilation Plates Removed

Determine whether face of fireplace will be:

- Flush with finished wall (e.g., for surround, cultured stone or other non combustible covering).
 - Flush with framing (to be covered with concrete board for a Flat Wall appearance).
- Refer to Nailing Tab Guide section also.

These structures are not load bearing.



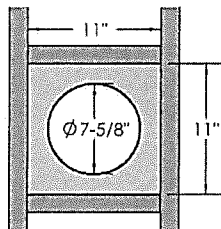
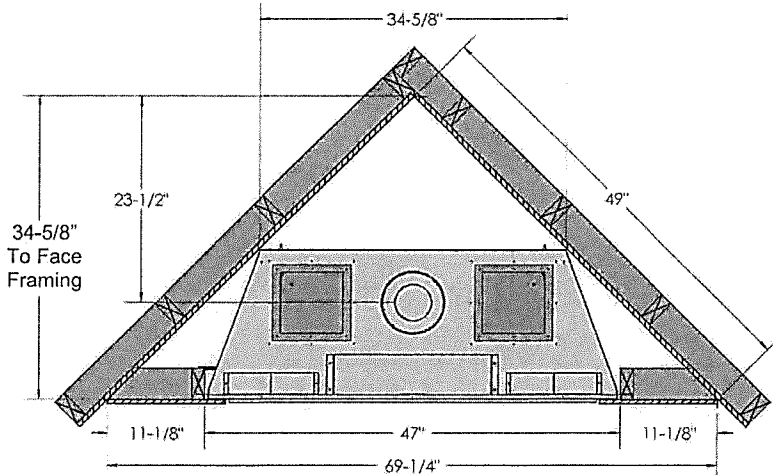
HEAT CANNOT BE DISCHARGED INTO THE WALLS, FLOOR, OR CEILING. Heat must exit through the required vented chase opening near the ceiling.

If using insulation in vented chase (i.e. for outside wall), wall board / drywall is required to support all insulation.

Vented chase must be clean and free of all debris (i.e. loose insulation, pieces of wood, etc.).

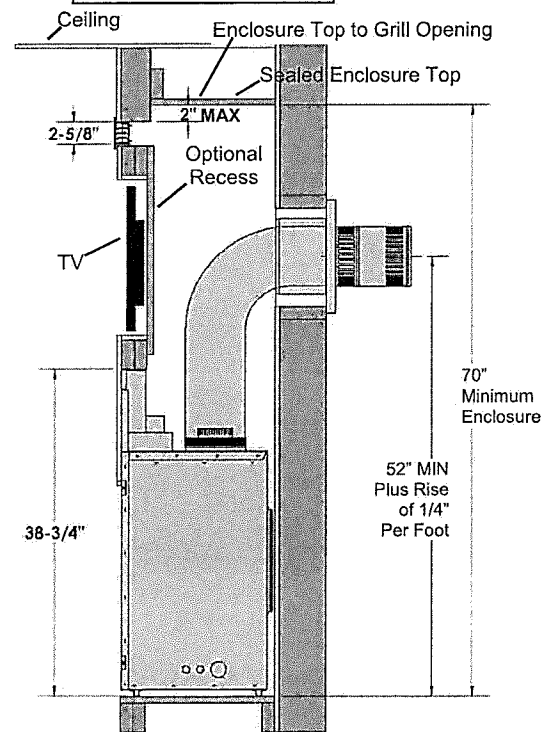
Note: If using optional surround, maximum thickness for non-combustible material is 3/4\".

Vertical Venting MUST maintain 1\" clearance to combustibles.

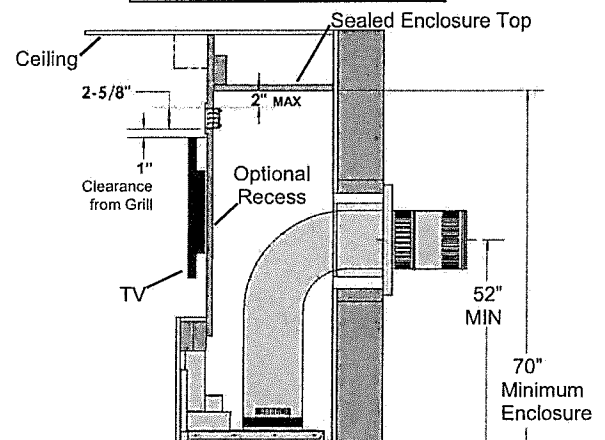


Framing for Vent Termination
(See Venting Section)

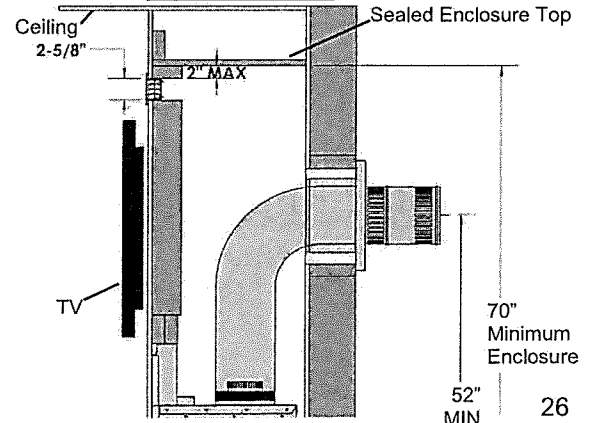
OPTIONAL RECESS



RECESSED TO CEILING

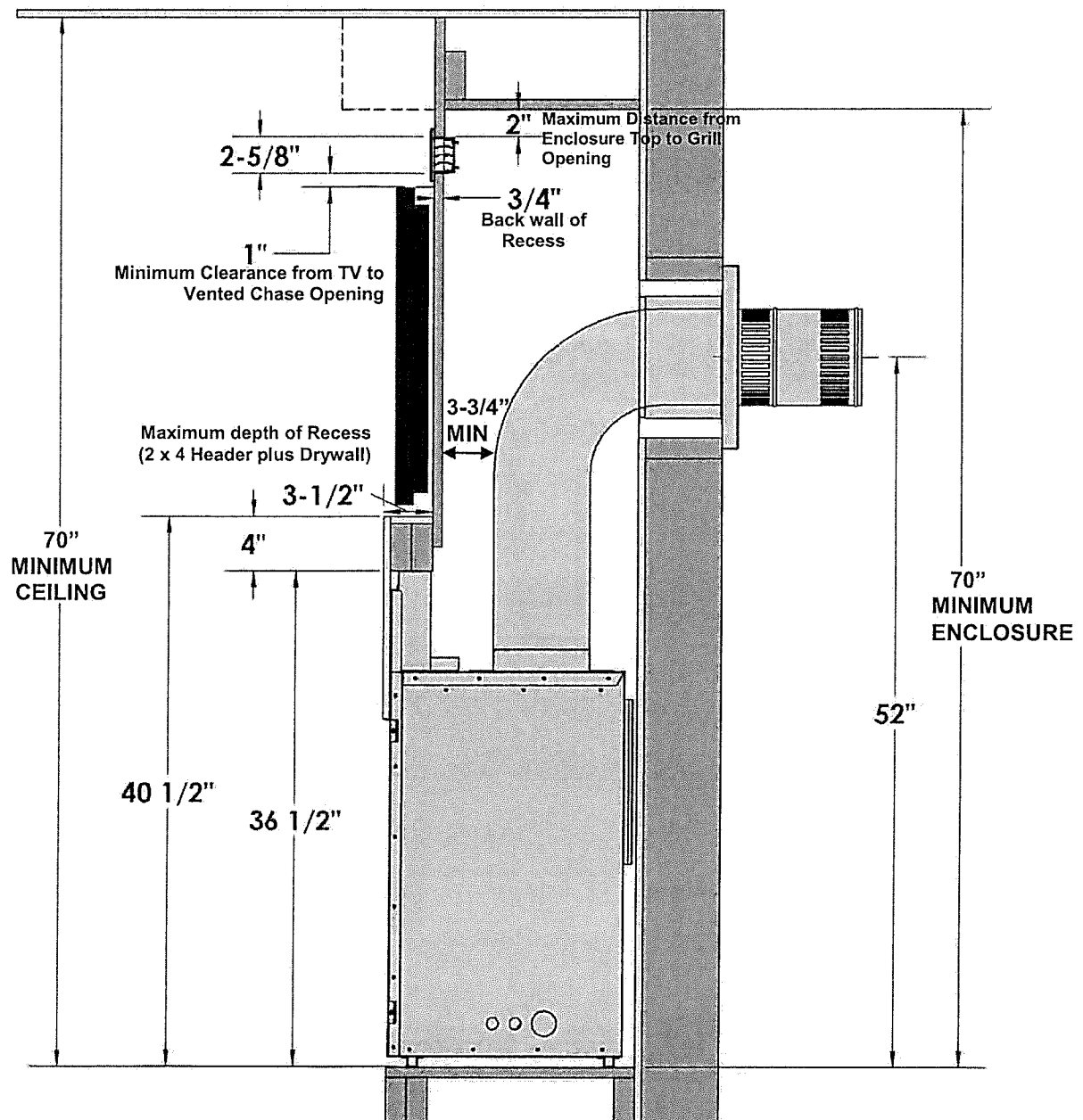


NO RECESS



ZCVRB47 – Optional Recessed Cavity Dimensions

- Recessed Cavity may begin immediately above top header (i.e. 4" for 2 x 4 with drywall).
- May be 3-1/2" deep, with up to 3/4" combustible on back wall (i.e. plywood). **NOTE:** If this surface is covered with drywall, recess will be 3" deep as shown below.
- Television should be minimum 1" away from opening of Vented Chase.



HEAT CANNOT BE DISCHARGED INTO THE WALLS, FLOOR, OR CEILING. Heat must exit through the required vented chase opening near the ceiling.

If using insulation in vented chase (i.e. for outside wall), wall board / drywall is required to support all insulation.

Vented chase must be clean and free of all debris (i.e. loose insulation, pieces of wood, etc.).

Notice: Granite, tile, or other facing materials are not covered by the fireplace warranty. Natural stone, tile, and other facing materials may crack or discolor (i.e. yellowing of lighter colored materials).

NOTE: THESE ISSUES CAN BE AVOIDED IF THE CHASE IS VENTED.

Televisions are not covered by fireplace warranty.

ZCVRB47 -Mantel Clearances –Vented Chase -Ventilation Plates Removed

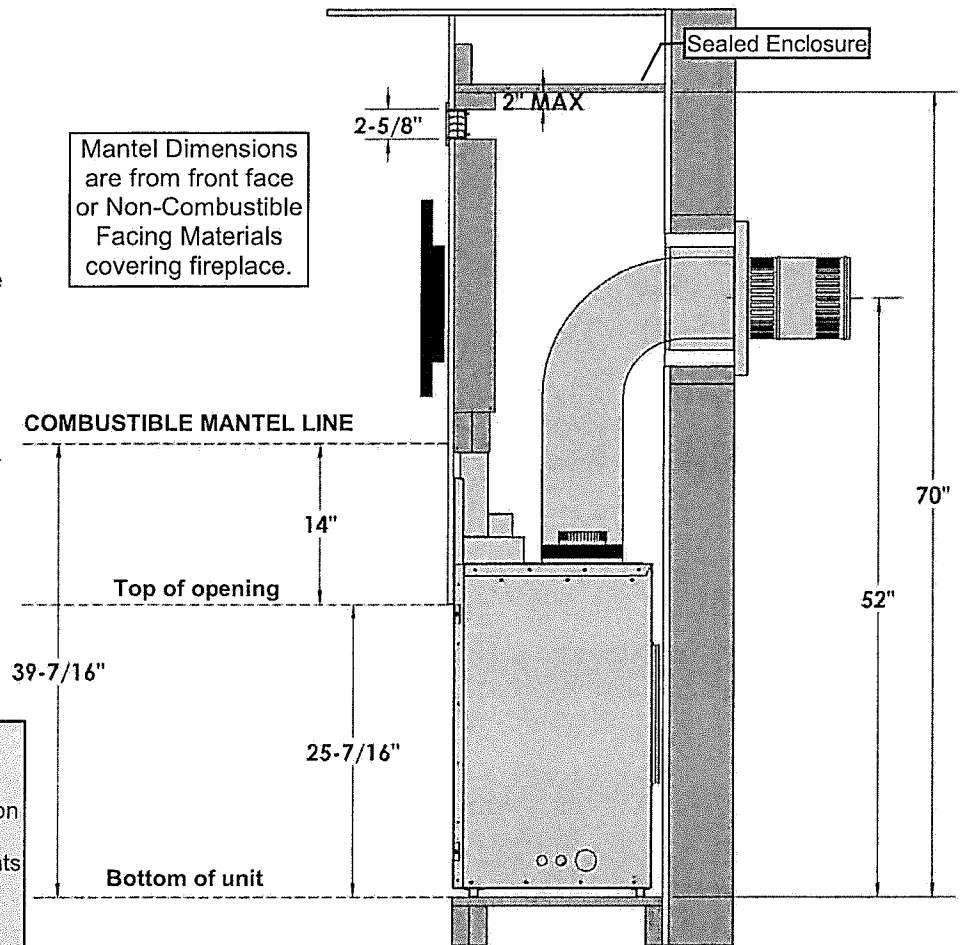
Before installing any mantels it is important to determine the combustibility of its material(s). There are two types of mantels to consider: Combustible and Non-Combustible.

A **Combustible Mantel** is one that consists of material(s) that may discolor, combust, or lose its integrity in the presence of heat. These types of mantels must strictly conform to the dimensional requirements shown.

Conversely, a **Non-Combustible Mantel** is one that is constructed with material(s) that will not combust. Check your local codes and regulations to determine whether your mantel is Combustible or Non-Combustible.

The advantage to Non-Combustible Mantels is that it may extend right up to the tile lip of the fireplace. Combustible mantels must adhere to the dimensional restrictions shown.

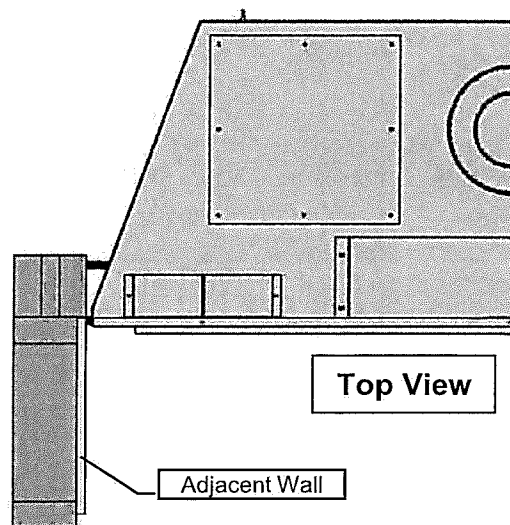
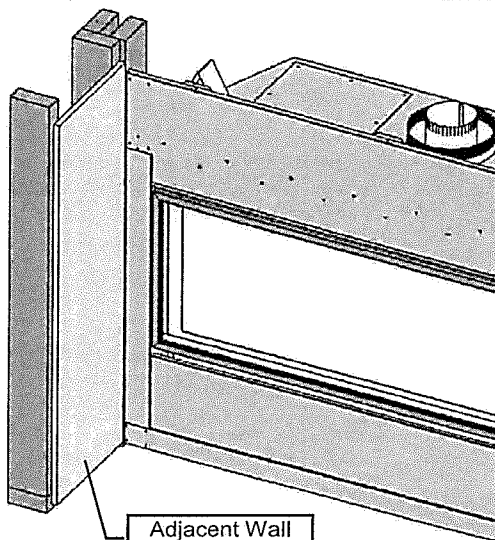
Mantel Dimensions are from front face or Non-Combustible Facing Materials covering fireplace.



⚠ -Combustible Objects on Non-Combustible Mantel Warning- Combustible objects must not be placed on a Non-combustible Mantel unless the mantel meets the dimensional requirements for a Combustible Mantel. Determine whether your mantel conforms to the requirements of a Combustible Mantel.

⚠ NOTE: If using insulation in vented chase (i.e. for outside wall), wall board / drywall is required to support all insulation. Vented chase must be clean and free of all debris (i.e. loose insulation, pieces of wood, etc.).

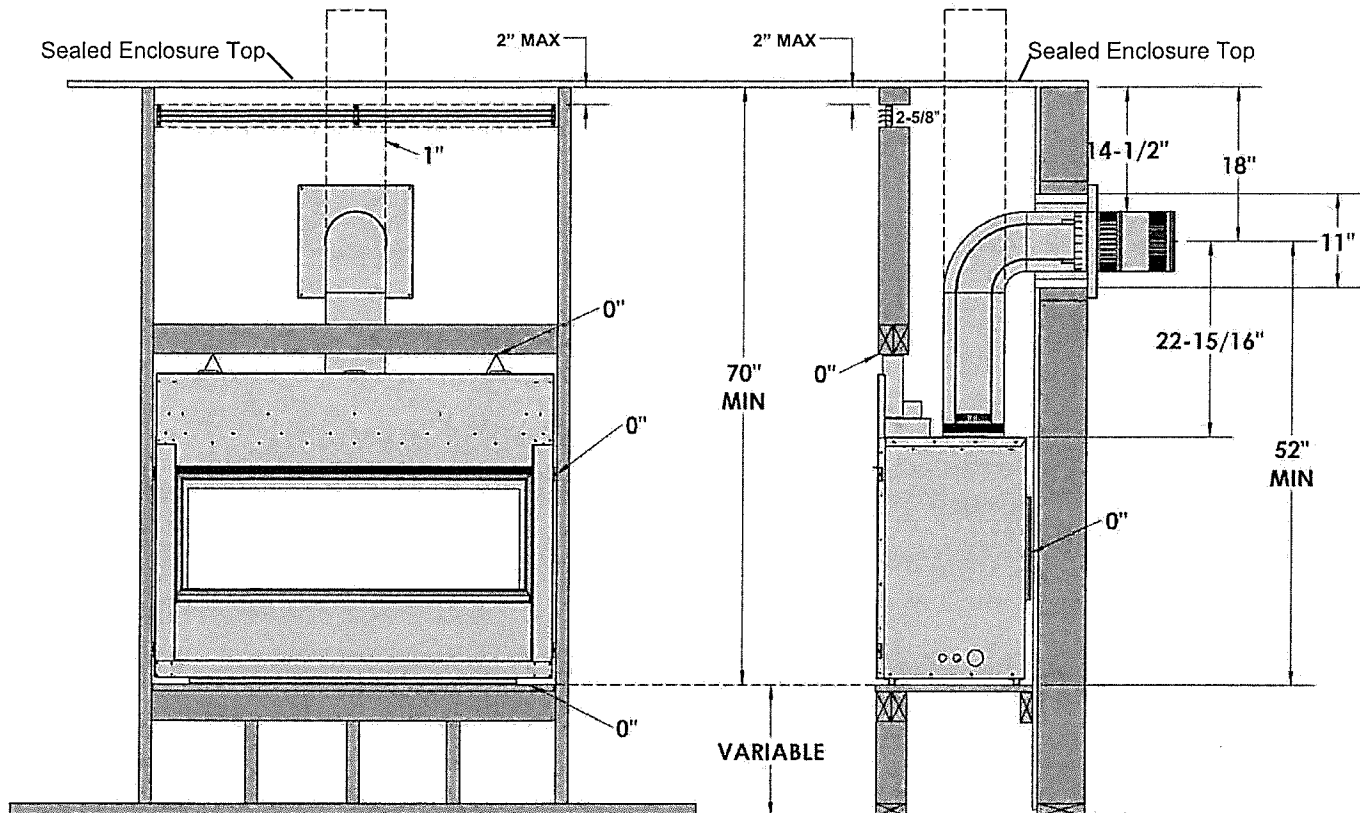
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Mantel Leg Clearances

ZCVRB47 -Clearance to Combustibles –Vented Chase -Ventilation Plates Removed-

Clearance to Combustibles	ZCVRB47 Vented Chase
Front	36" [92cm]
Back (from Stand-offs)	0" [0cm]
Side (from Stand-offs)	0" [0cm]
Floor	0" [0cm]
Minimum Ceiling Height (from bottom of fireplace)	70" [179cm]
Top (from Stand-offs)	0" [0cm]
Top of 90° Bend in minimum Enclosure of 70"	4" [10.2cm]
Top of 90° Bend in Enclosure over 70"	4" [10.2cm]
VENTING SYSTEMS	
Top of Horizontal Pipe	1/1/2" [3.8cm]
Side & Bottom of Horizontal Pipe	1" [2.5cm] All Vent Systems
Vertical Vent Pipe	1" [2.5cm] All Vent Systems
REFER TO FACING REQUIREMENTS SECTION FOR FACING MATERIALS	



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