

Komfort Zone Kit #KZK-062

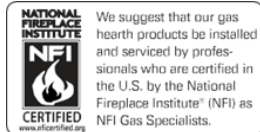
For use with Nordik 48 TL (#NDK-48TL) & Nordik 60TL
(#NDK-60-TL)

READ ALL THESE STEPS BEFORE STARTING INSTALLATION. LEAVE THESE INSTRUCTIONS WITH THE APPLIANCE.

This kit must be installed by a qualified installer, service agency, or gas supplier at the time of the heater installation.

These instructions must be used in conjunction with the installation and operation manual provided with the appliance.

Please read all appliance owner's manual completely before performing any procedures in these instructions.



English and French installation manuals are available through your local dealer. Visit our website www.kozyheat.com.

Les manuels d'installation en français et en anglais sont disponibles chez votre détaillant local. Visitez www.kozyheat.com.

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INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

IMPORTANT: Failure to read and follow these instructions may create a possible hazard and will void the fireplace warranty.

This optional convection duct kit redistributes the warm air flow away from the fireplace opening to a more desirable location using natural convection without the use of a fan. The warm air flow would be relocated to a position higher up the wall. The result is much cooler wall temperatures above the fireplace opening for locating televisions, artwork, etc.

1.0 Introduction

1.1 Kit Contents

ALL kit contents must be installed.

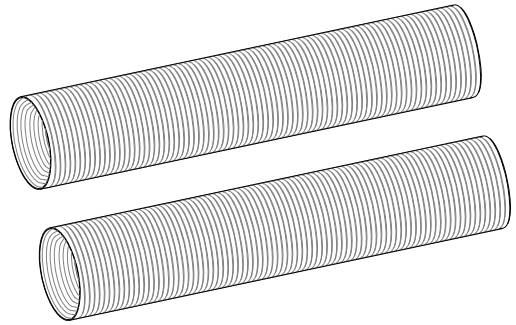
- (1) 62" plenum kit: KZK-062
- (1) plenum discharge trim: KZK-062DT
- (2) plenum support brackets
- (12) 6" collars - (6) to attach to the bottom of the plenum; (6) to attach to the unit where the cover plates are removed.

Additional Required Items

- (1) KZK-610 (sold separately) is used for a 10' vent run. If you are mounting the plenum above the fireplace 10' (3m) or less, use (1) KZK-610 kit.

Optional Items

- If you are mounting the plenum above the fireplace between 10' to 20', you will need (2) KZK-610 kit and (1) #KZK-CPL6 coupler kit. KZK-CPL6 (sold separately) is (6) 6" couplers that connect (2) KZK-610.



(6) - 10' x 6" (aluminum flex) listed to UL-181 Class 0 Air Duct (sold separately)

Figure 1.2 - #KZK-610

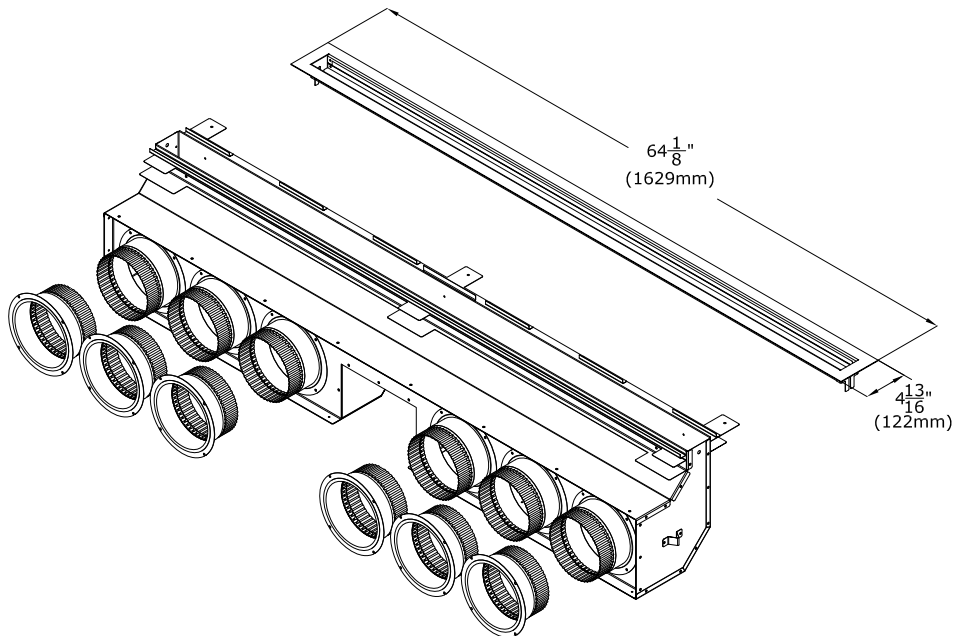


Figure 1.1 - #KZK-062

1.2 Suggested Configurations

- When installing the #KZK-062, take in consideration the fireplace venting and the plenum tube configuration.
- The #KZK-062 plenum must be installed so it discharges heat into the room the Nordik 48TL or Nordik 60TL is installed in.

Nordik 48TL

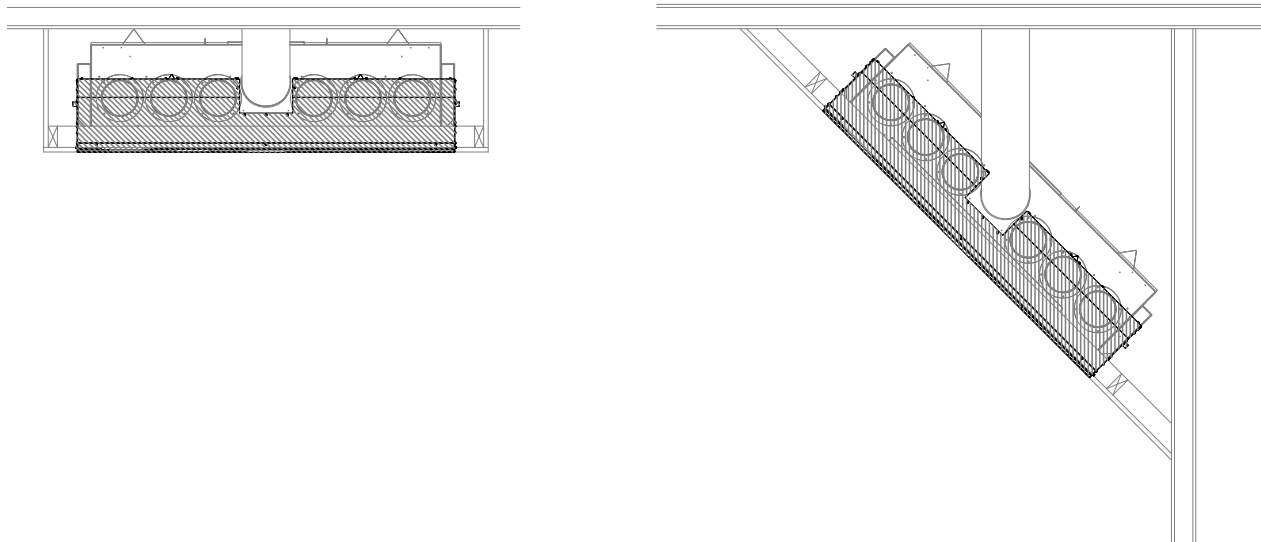


Figure 1.3 - Nordik 48TL Suggested Plenum Configurations

Nordik 60TL

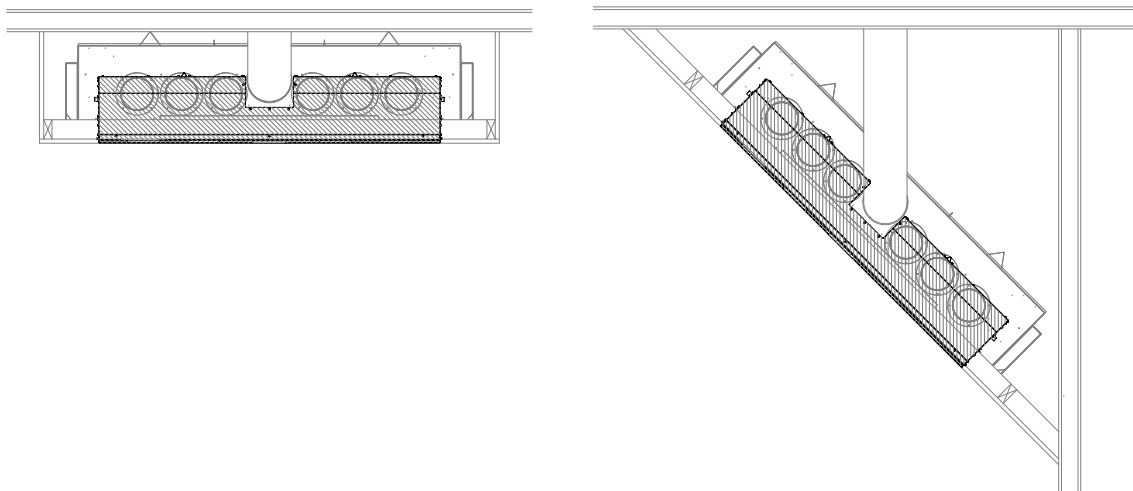


Figure 1.4 - Nordik 60TL Suggested Plenum Configurations

1.3 Dimensions and Overview

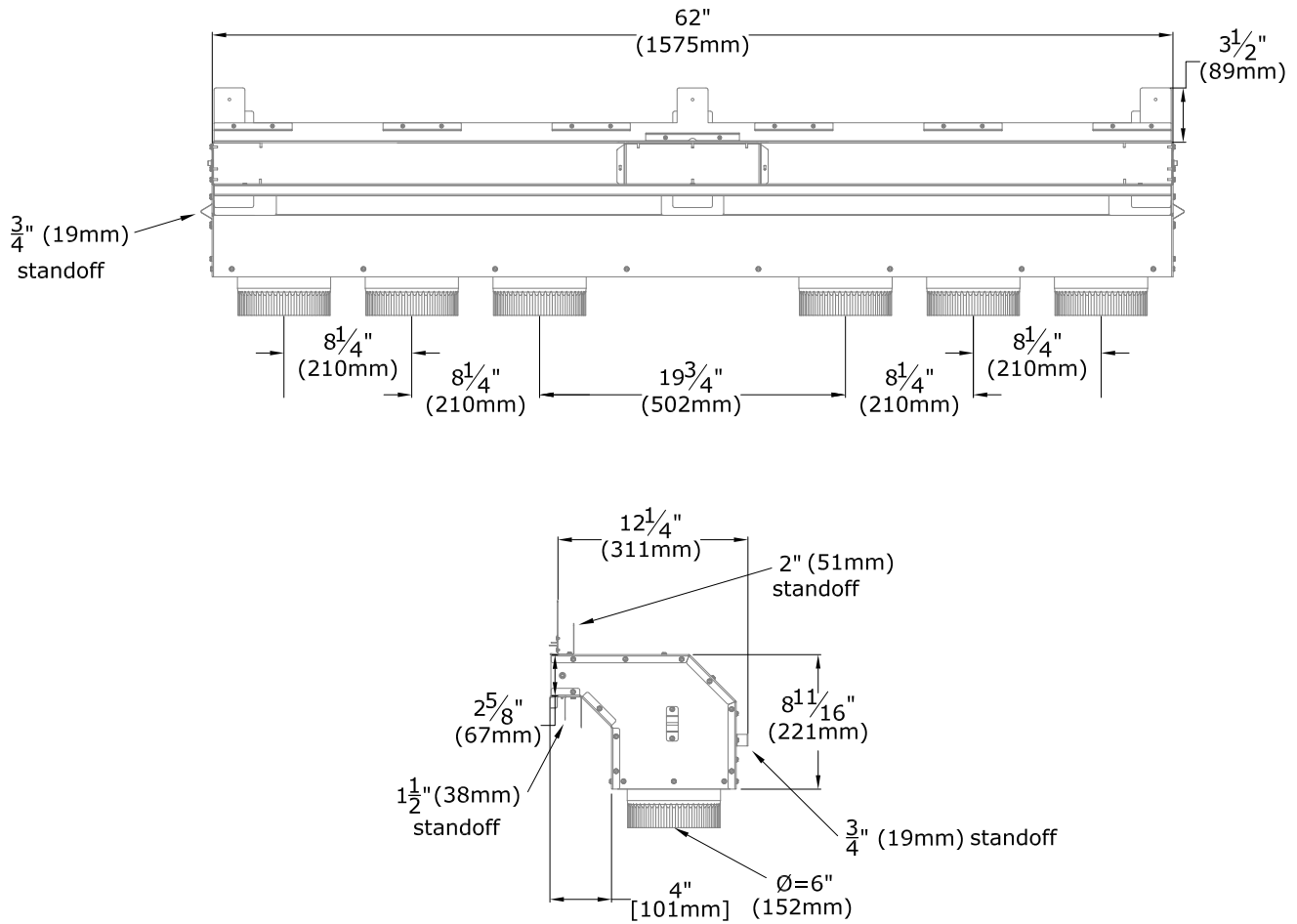


Figure 1.4 - KZK-062 Dimensions

1.4 Air Duct Run

IMPORTANT: The air duct pipe cannot run horizontally without a vertical rise.

IMPORTANT: The 1/2" clearance around the air duct pipes must be maintained.

Use #KZK-610 UL181 Class 0 Air Duct piping to connect the plenum(s) to the unit.

Hussong Mfg. Co., Inc. requires pipes to be listed as UL181 Class 0 Air Duct to connect the plenum(s) to the unit.

Maximum Vent Run: 20' (6.10m)

2.0 Framing and Clearances

2.1 Clearance to Sprinkler & Ceiling

- In a situation where a sprinkler head is installed within the proximity to a #KZK discharge opening, the diagram below MUST be followed.
- The distance between a sprinkler head and discharge opening cannot be less than 60" (1524mm) in length at every point from the origin of the discharge opening. You must also verify the sprinkler head sensor is set to the proper heat setting so it does not activate when the room heats up from the fireplace being operated normally.
- Please follow local building codes to determine what temperature setting is relevant for your installation.

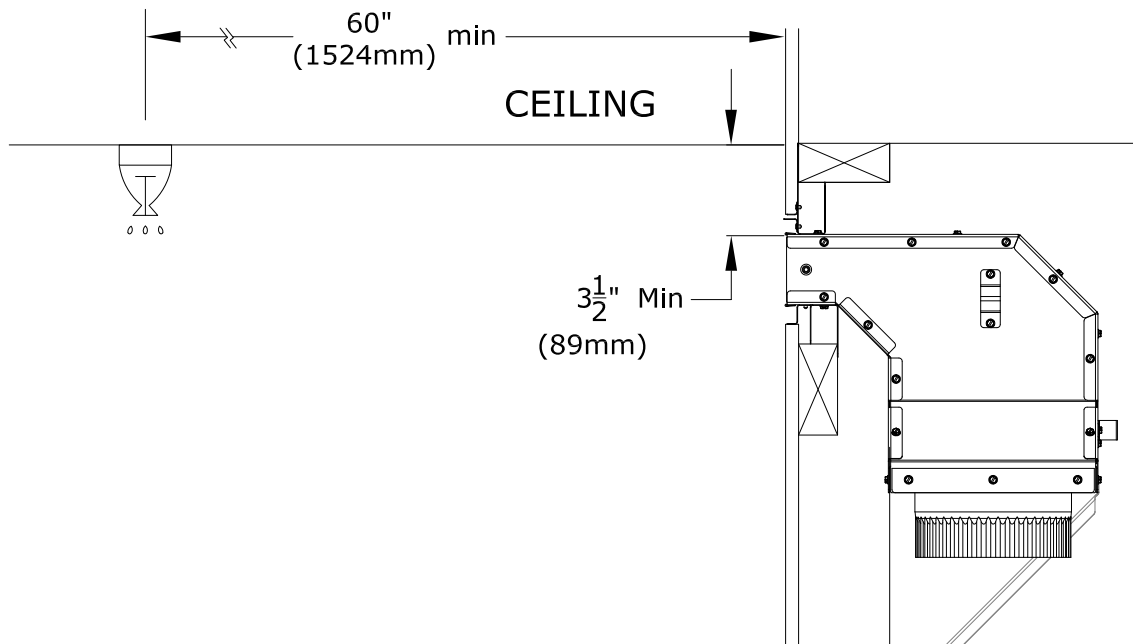


Figure 2.1 - Clearance to Sprinkler

2.2 Plenum Framing

Shown in this section are the rough opening dimensions and clearances for the plenum, unit installation, and unit installation with a TV recess construction.

Rough opening framing dimensions should allow for wall covering thickness and facing materials. Please refer to Section 3.0 for specific facing and finishing options.

Figure 2.2 shows the framing dimensions for the plenum opening. Nominal 2"x4" framing used in interior enclosure framing.

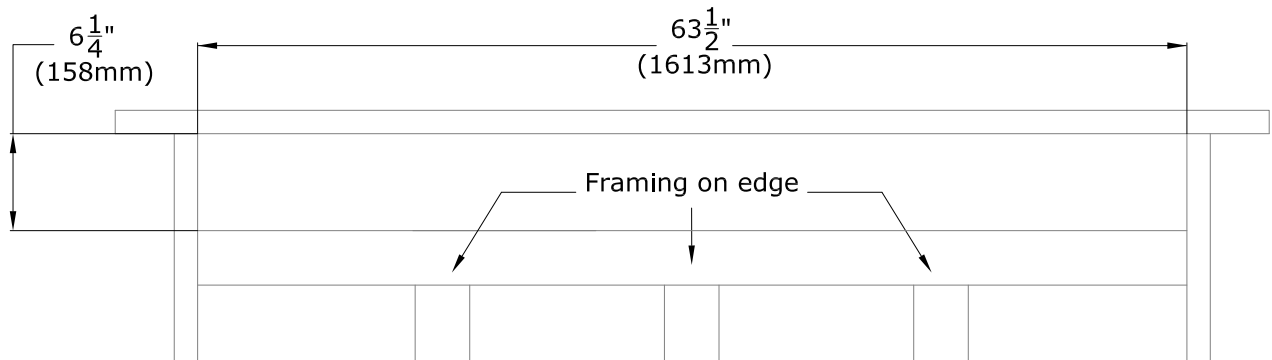
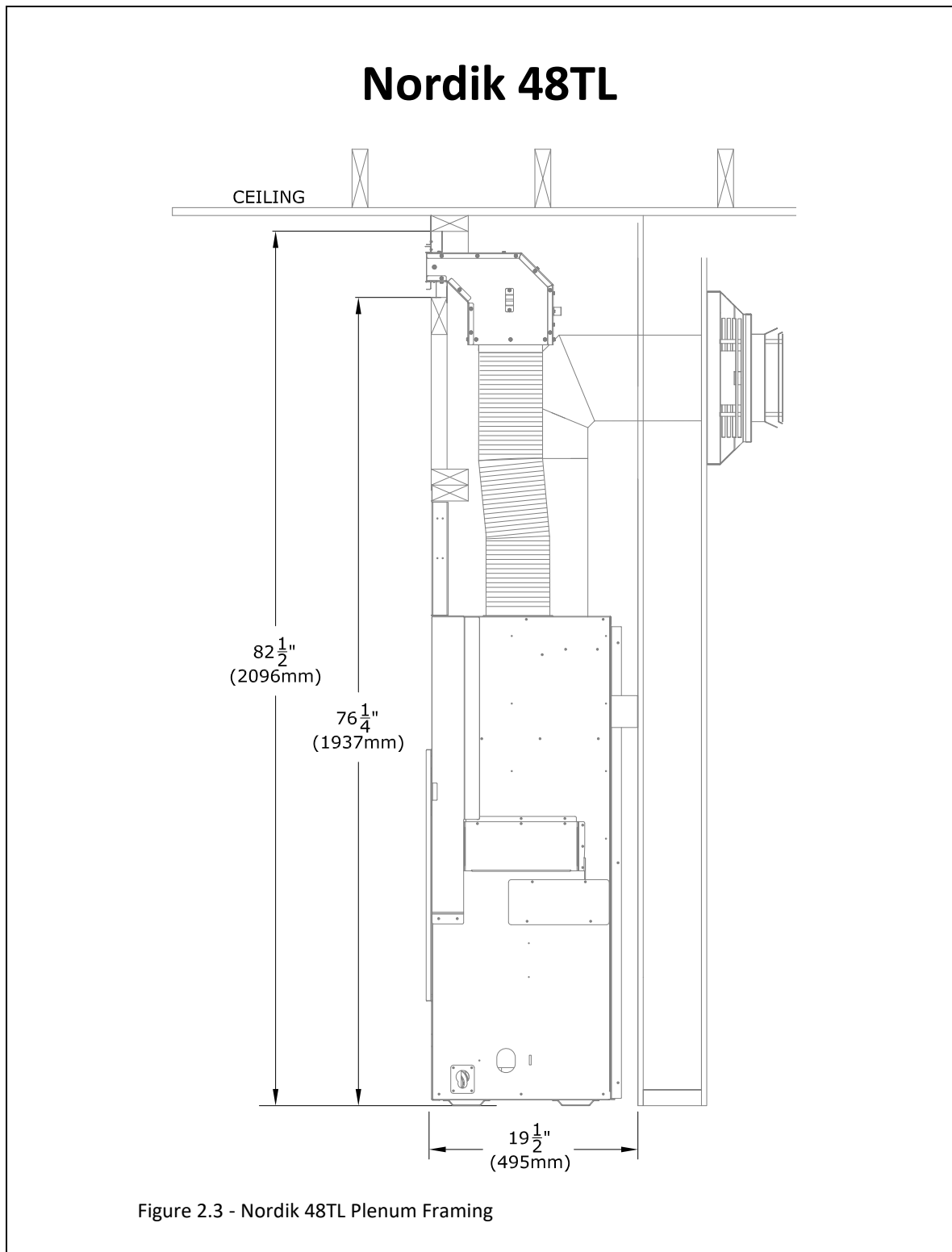


Figure 2.2 - Plenum Framing

2.2.1 Nordik 48TL Plenum Framing

The minimum height of plenum framing from the base is shown in Figure 2.3 for the Nordik 48TL.

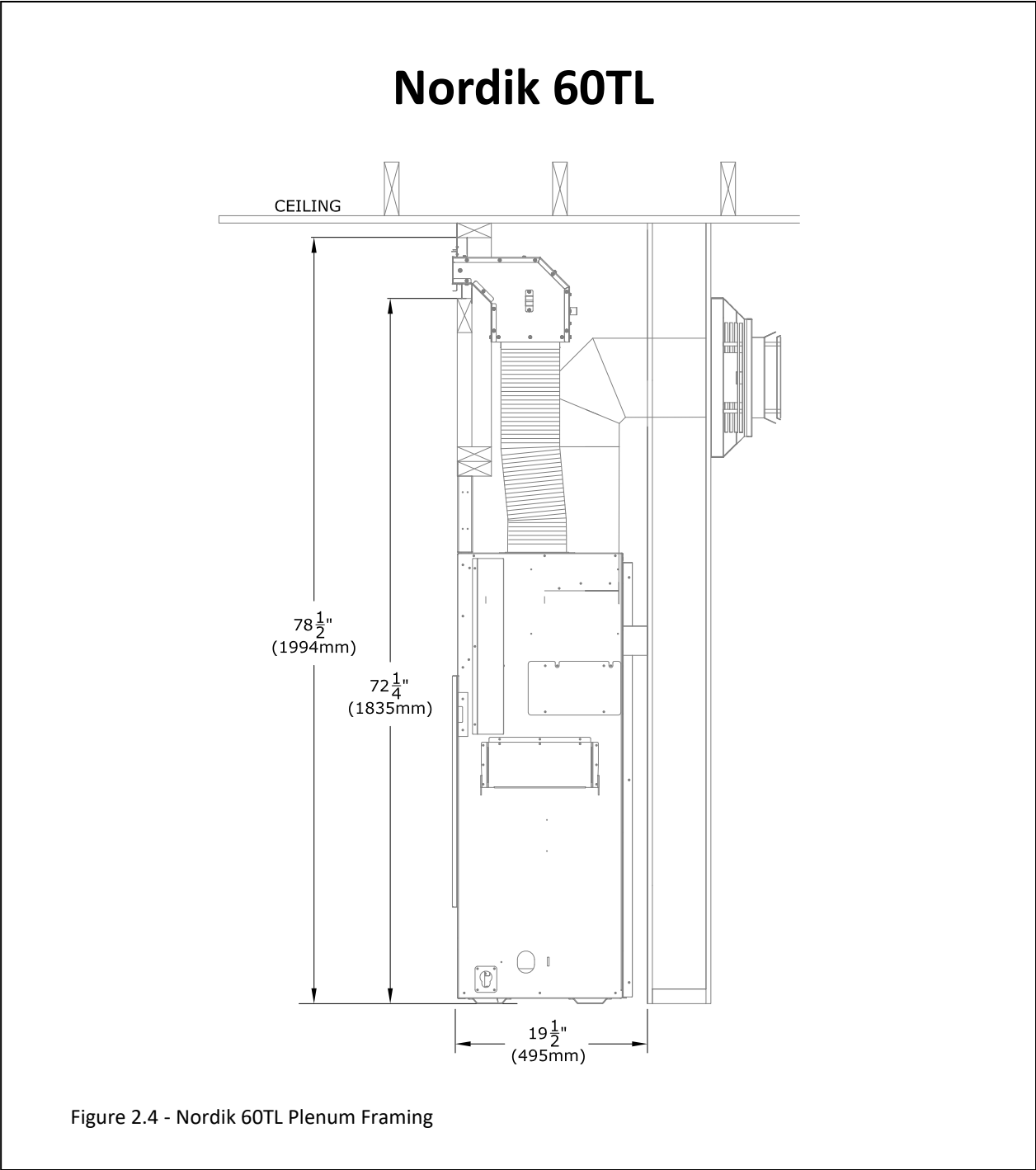
Nominal 2"x4" framing used in interior enclosure framing.



2.2.2 Nordik 60TL Plenum Framing

The minimum height of plenum framing from the base is shown in Figure 2.4 for the Nordik 60TL.

Nominal 2"x4" framing used in interior enclosure framing.



2.3 Enclosure Framing

All figures are shown using nominal 2"x4" framing used in interior enclosure framing

2.3.1 Nordik 48TL Enclosure Framing

The top image in Figure 2.5 has all the framing flush with the fireplace. The bottom image shows the minimum clearance to the recessed TV pocket from the base of the fireplace. The allowed TV recess of 4-1/4" (108mm) measures from the front of the nominal 2x4 framing to the backside of the finishing material of the pocket.

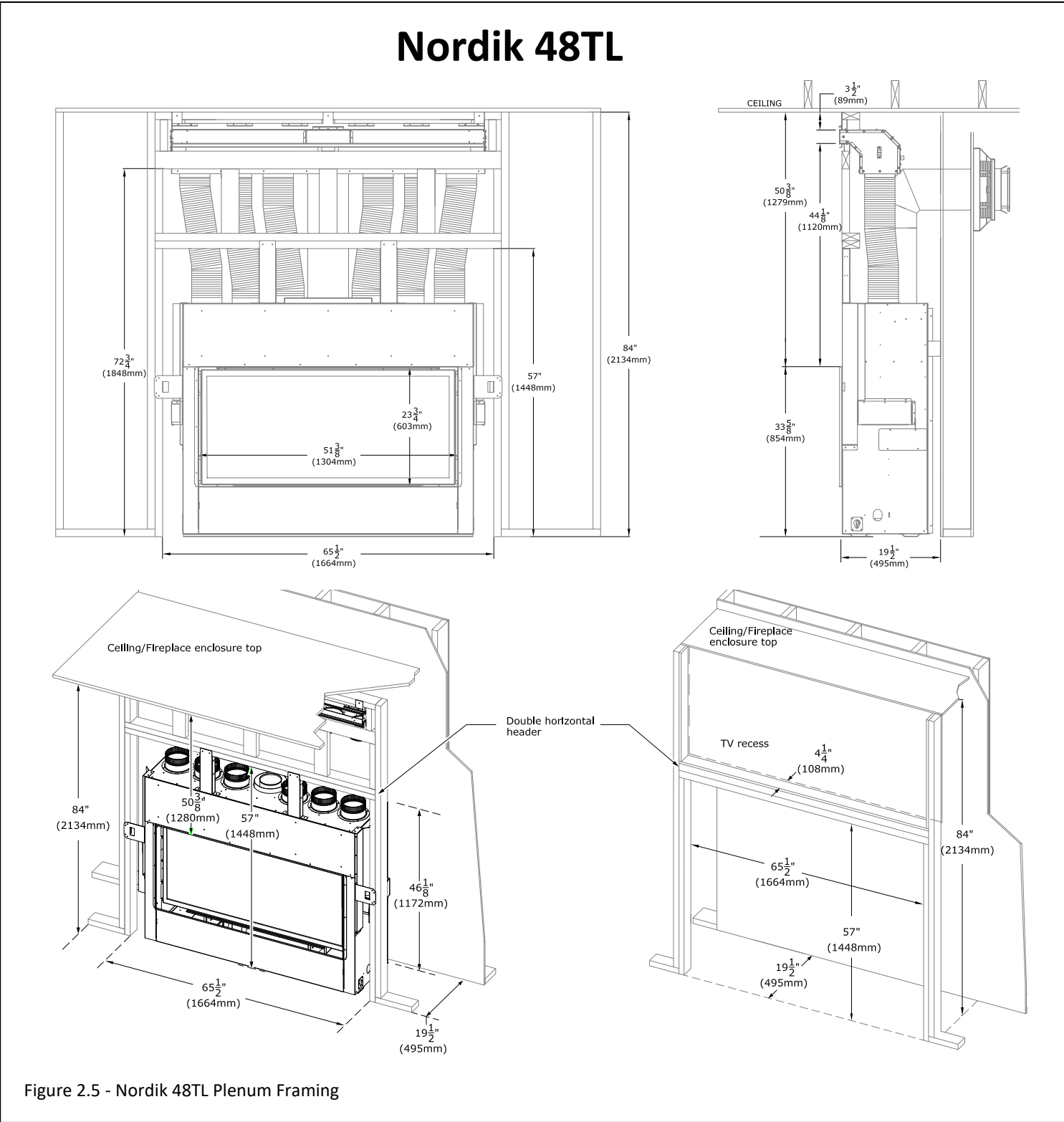


Figure 2.5 - Nordik 48TL Plenum Framing

2.3.2 Nordik 60TL Enclosure Framing

The top image in Figure 2.6 has all the framing flush with the fireplace. The bottom image shows the minimum clearance to the recessed TV pocket from the base of the fireplace. The allowed TV recess of 4-1/4" (108mm) measures from the front of the nominal 2x4 framing to the backside of the finishing material of the pocket.

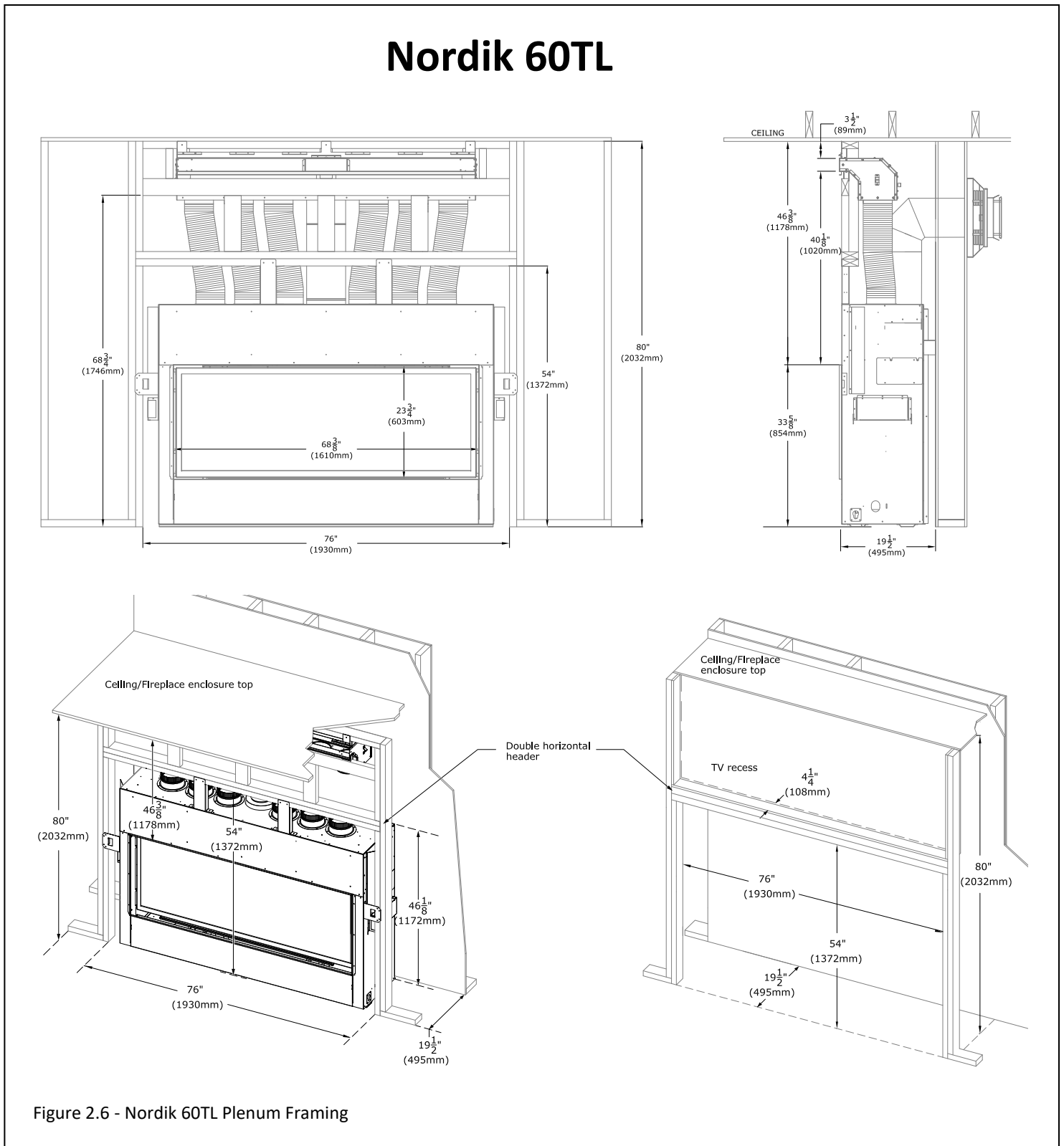


Figure 2.6 - Nordik 60TL Plenum Framing

Figure 2.7 shows the minimum distance of the top of the recessed TV pocket from the KZK plenum. This minimum clearance creates the necessary clearance for the plenum tubes to come off the plenum and bend around the recessed TV pocket.

Note: The image below is of the Nordik 48TL but the dimensions for the TV pocket is applicable to both the Nordik 48TL and Nordik 60TL.

Nordik 48TL & 60TL

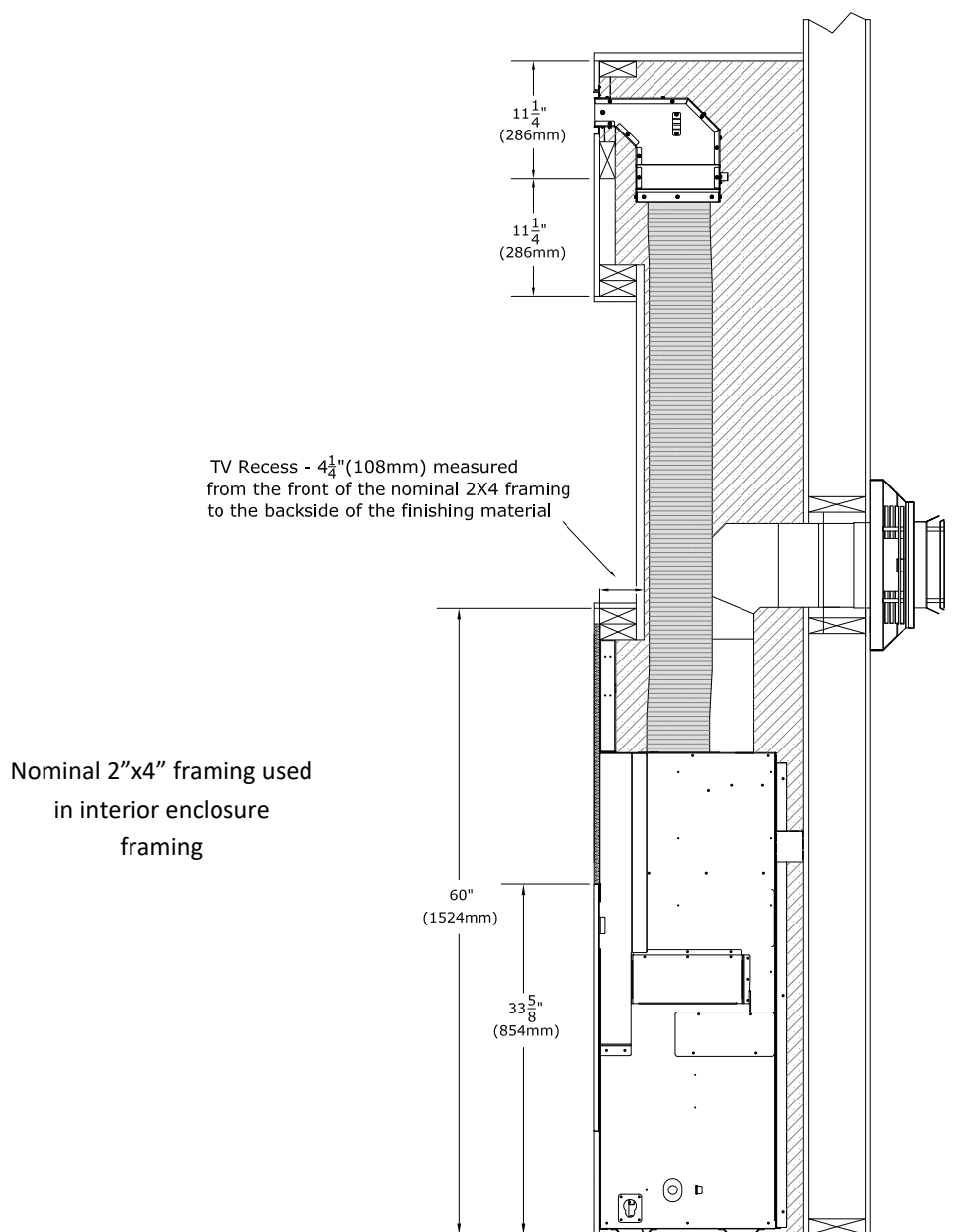
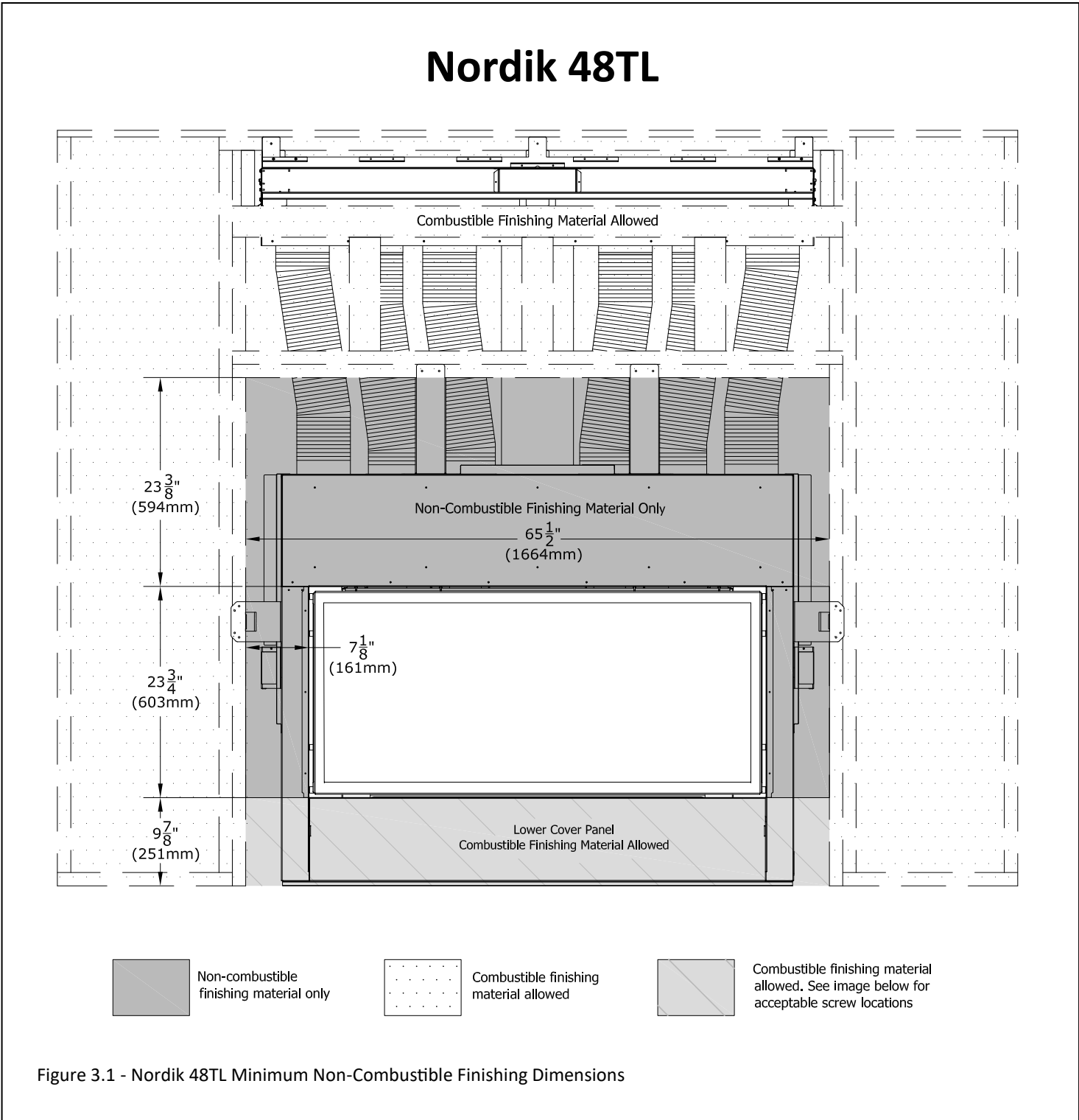


Figure 2.7 - TV Recessed Cavity Top Framing Clearance

3.0 Facing and Finishing

3.1 Non-Combustible Requirements



Nordik 60TL

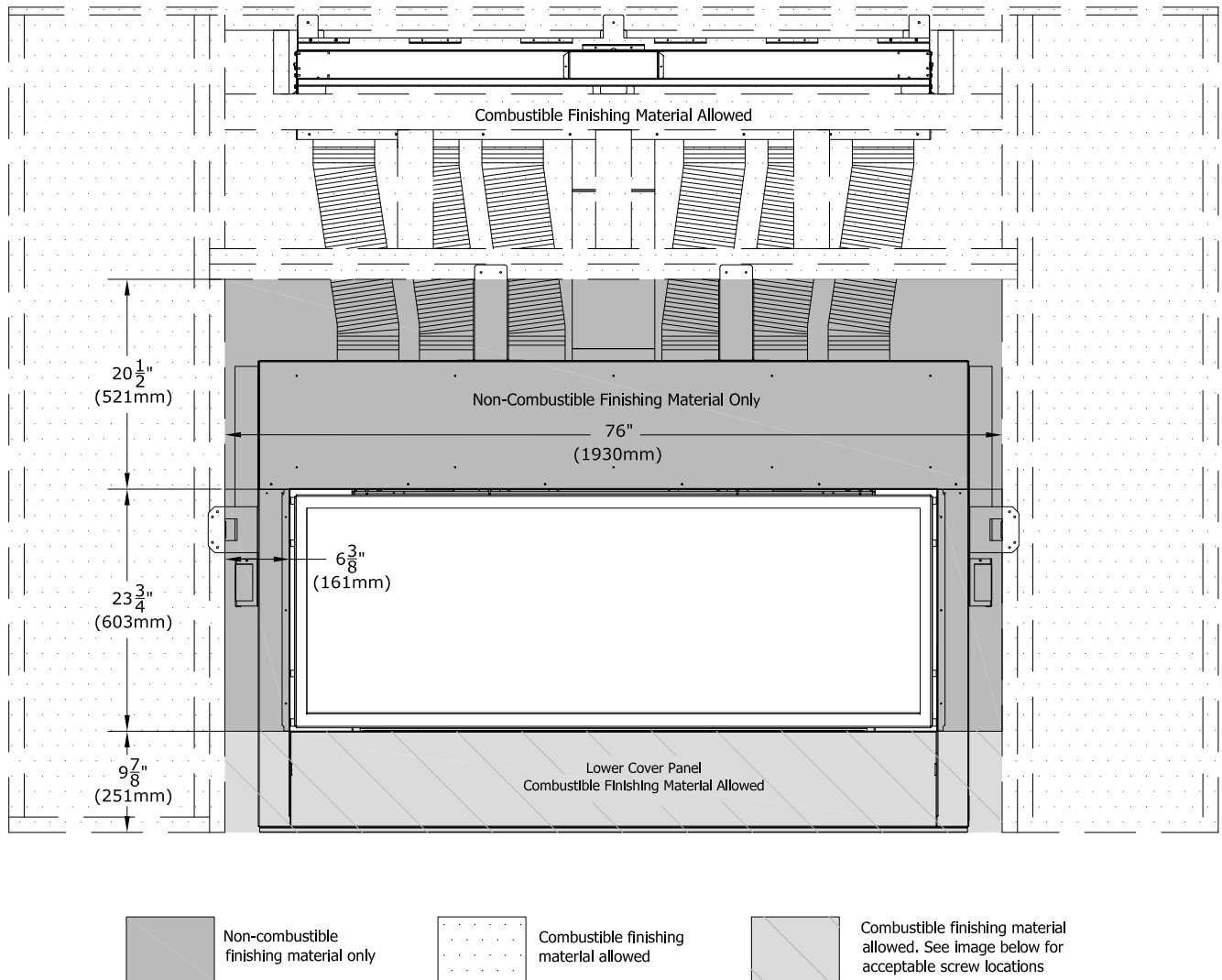


Figure 3.2 - Nordik 60TL Minimum Non-Combustible Finishing Dimensions

Figure 3.3 shows the location where no screws are allowed in the combustible or non-combustible finishing material.

Nordik 48TL

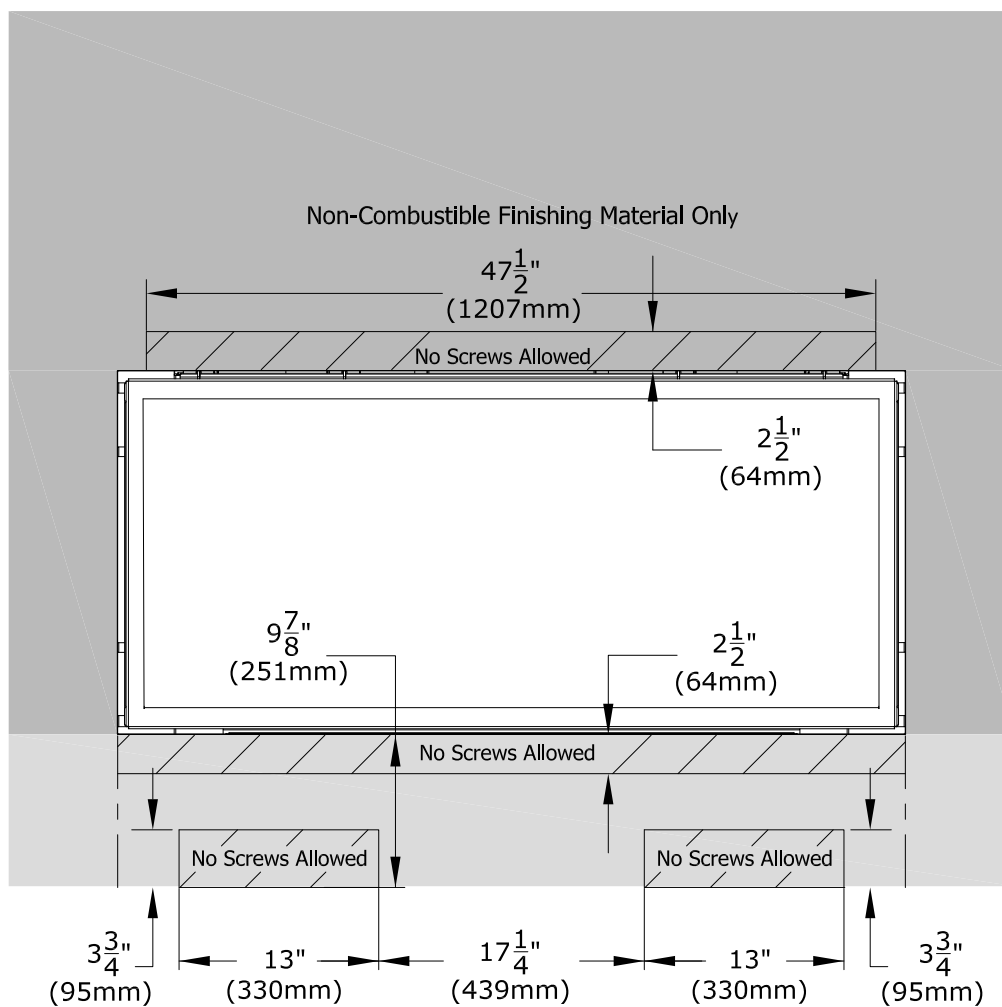


Figure 3.3 - Nordik 48TL - No Screw Location

Figure 3.4 shows the location where no screws are allowed in the combustible or non-combustible finishing material.

Nordik 60TL

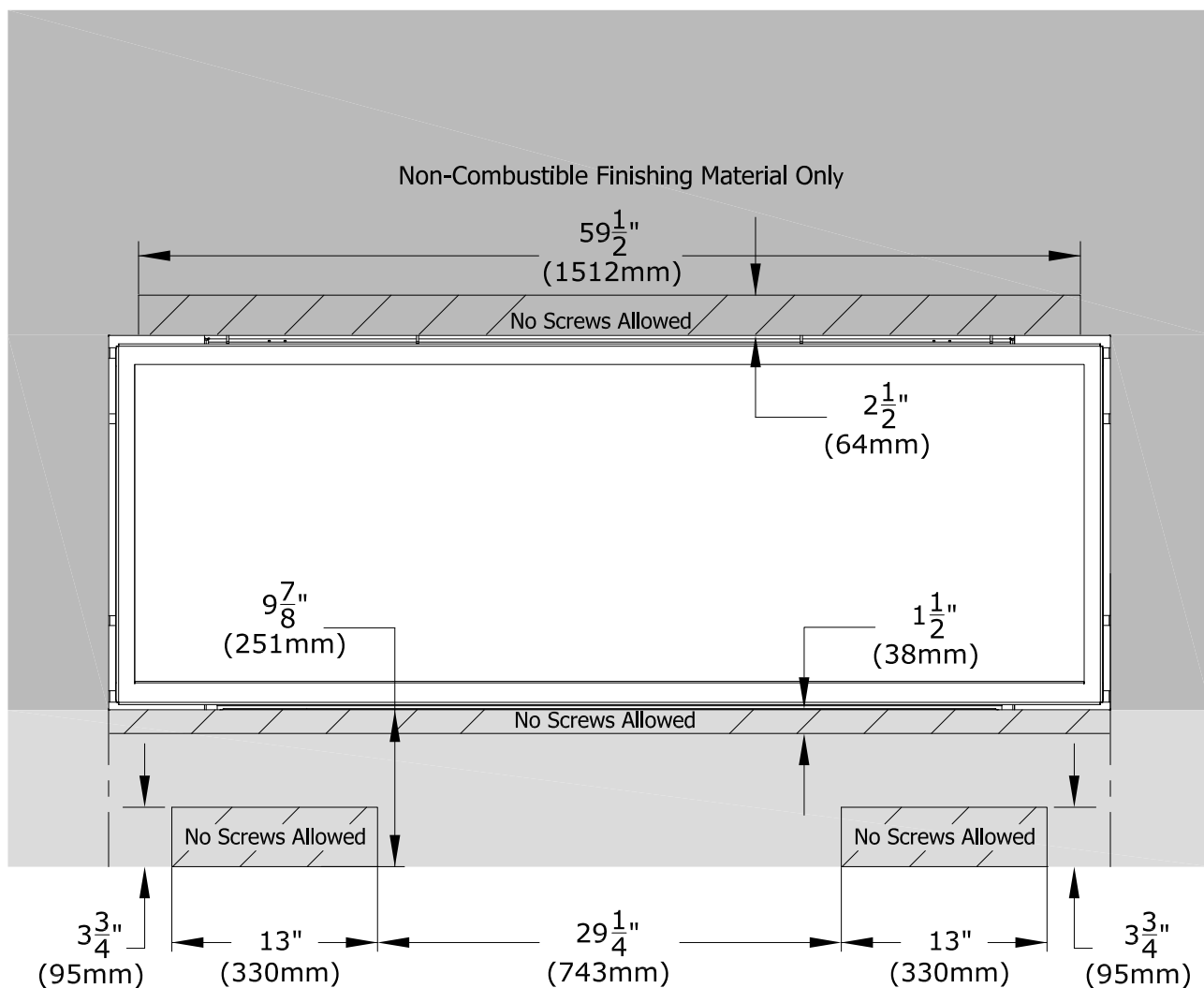


Figure 3.4 - Nordik 60TL - No Screw Location

3.2 Finishing Requirements

3.2.1 Finishing Options - Plenum Air Discharge

NOTE: It is not required to use the discharge trim (#KZK-062DT). You are allowed to run non-combustible finishing material up to the air discharge opening. See Figure 3.5 for finishing options. Finishing material must not block the opening and must be run evenly along the plenum opening.

WARNING! RISK OF OVERHEATING AND FIRE! Ensure the KZK duct system is installed in accordance to this manual

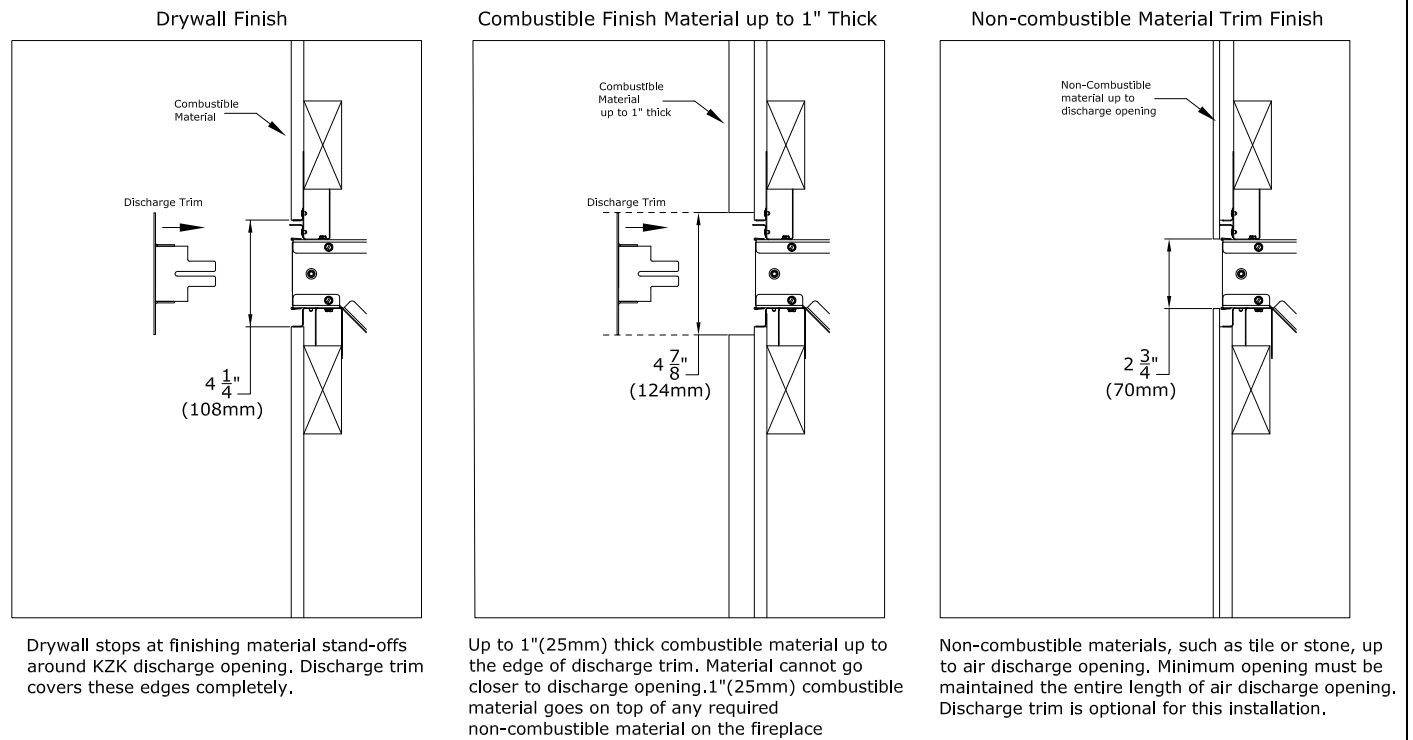
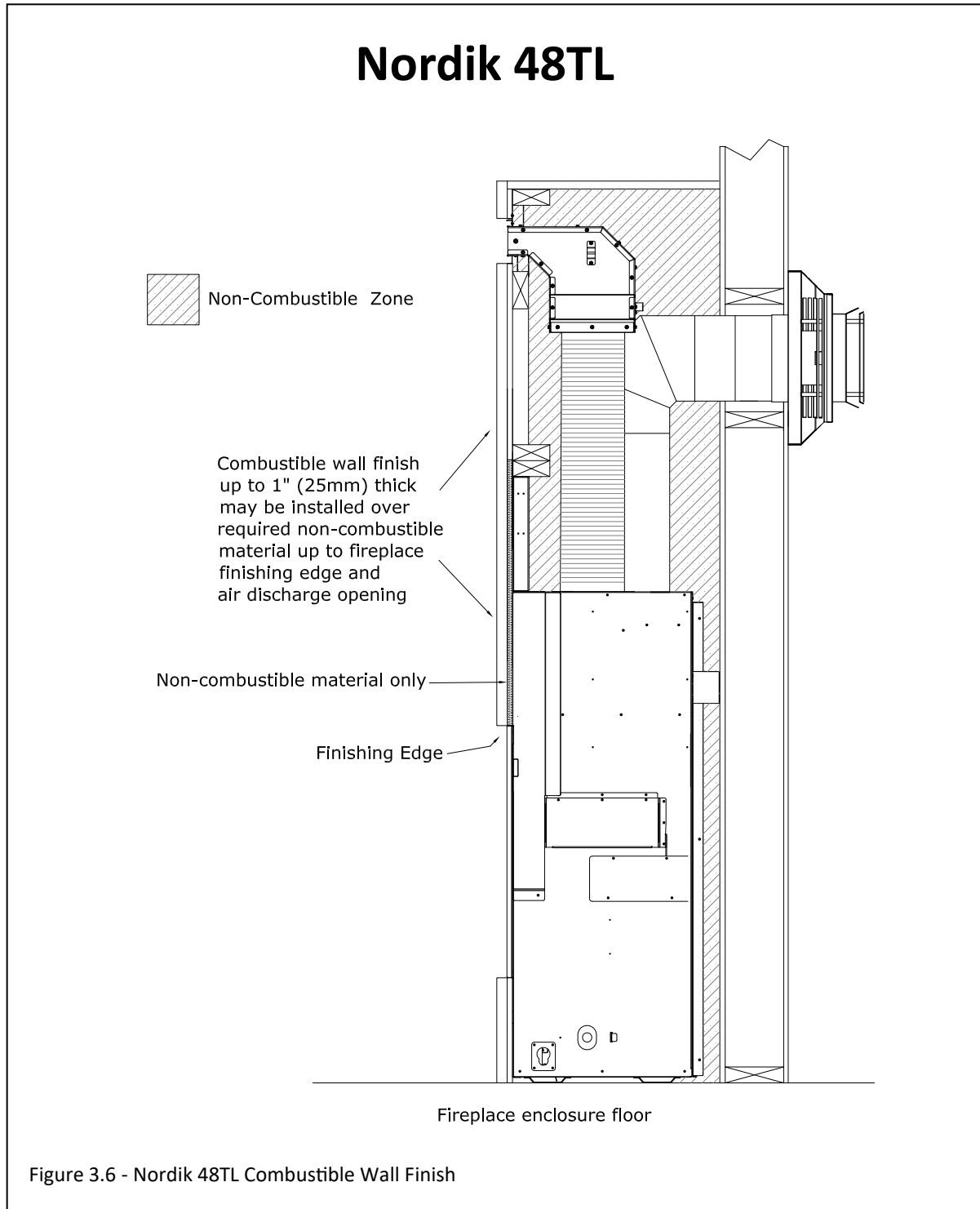


Figure 3.5 - Plenum Air Discharge Finishing Options

3.2.2 Combustible Wall Finish Requirements

- Figure 3.6 shows installation of combustible wall finish up to 1" thick for the Nordik 48TL. This combustible material goes on top of any required non-combustible materials as required in Figure 3.1.
- This 1" (25mm) combustible material is able to go down to the fireplace finishing edge.
- See Figure 3.5 (center image) for up to 1" (25mm) thick combustible material installation around the KZK air discharge trim.



- Figure 3.7 shows installation of combustible wall finish up to 1" thick for the Nordik 60TL. This combustible material goes on top of any required non-combustible materials as required in Figure 3.2.
- This 1" (25mm) combustible material is able to go down to the fireplace finishing edge.
- See Figure 3.5 (center image) for up to 1" (25mm) thick combustible material installation around the KZK air discharge trim.

Nordik 60TL

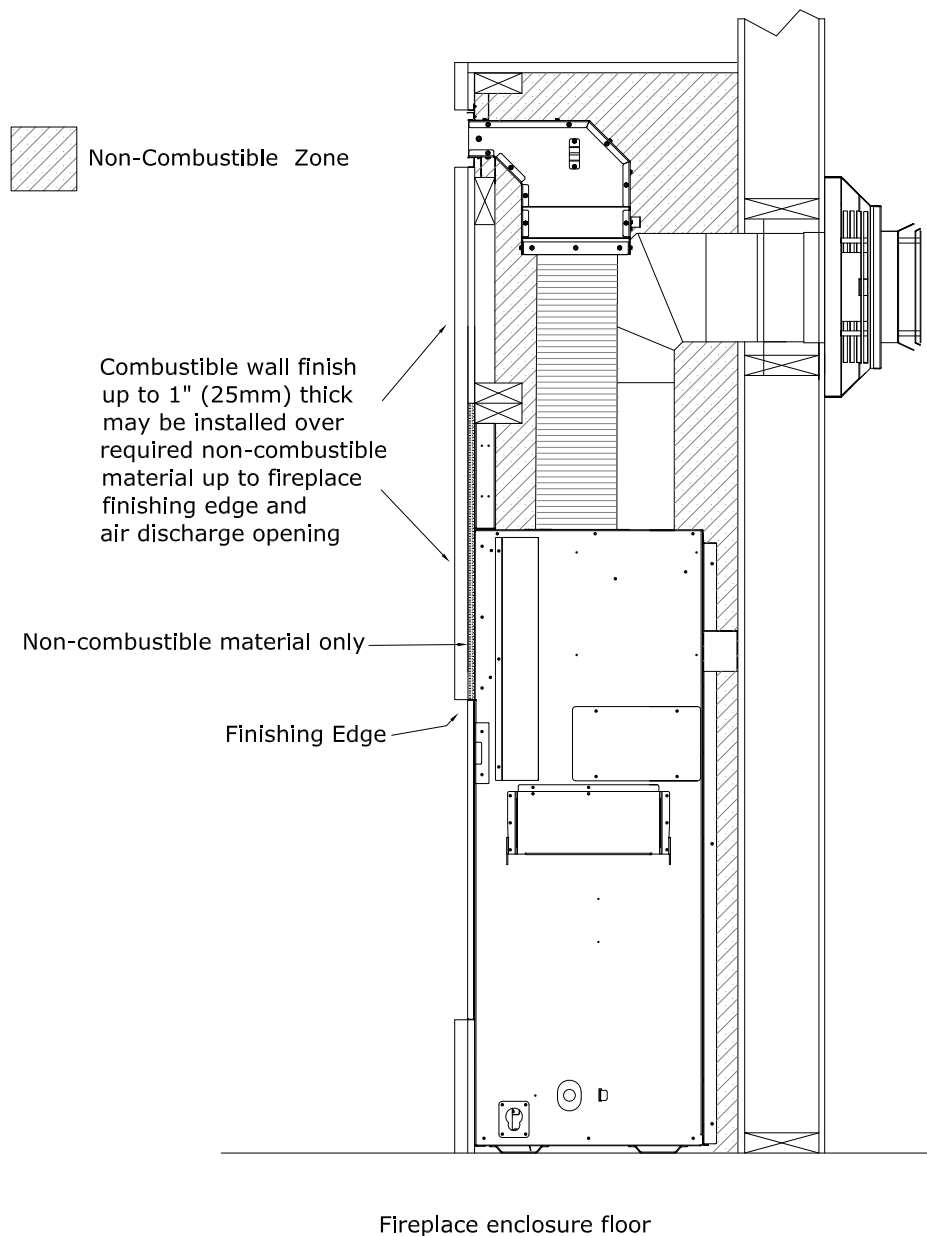


Figure 3.7 - Nordik 60TL Combustible Wall Finish

- Figure 3.8 shows the front facing view of the combustible wall finish for both the Nordik 48TL and 60TL. The 1" combustible facing material can go up to the finishing edge of the fireplace.
- 1" combustible wall finish is required to go on top of any noncombustible finishing material requirements outlined in this manual. See Figure 3.1 and 3.2.

Nordik 48TL & 60TL

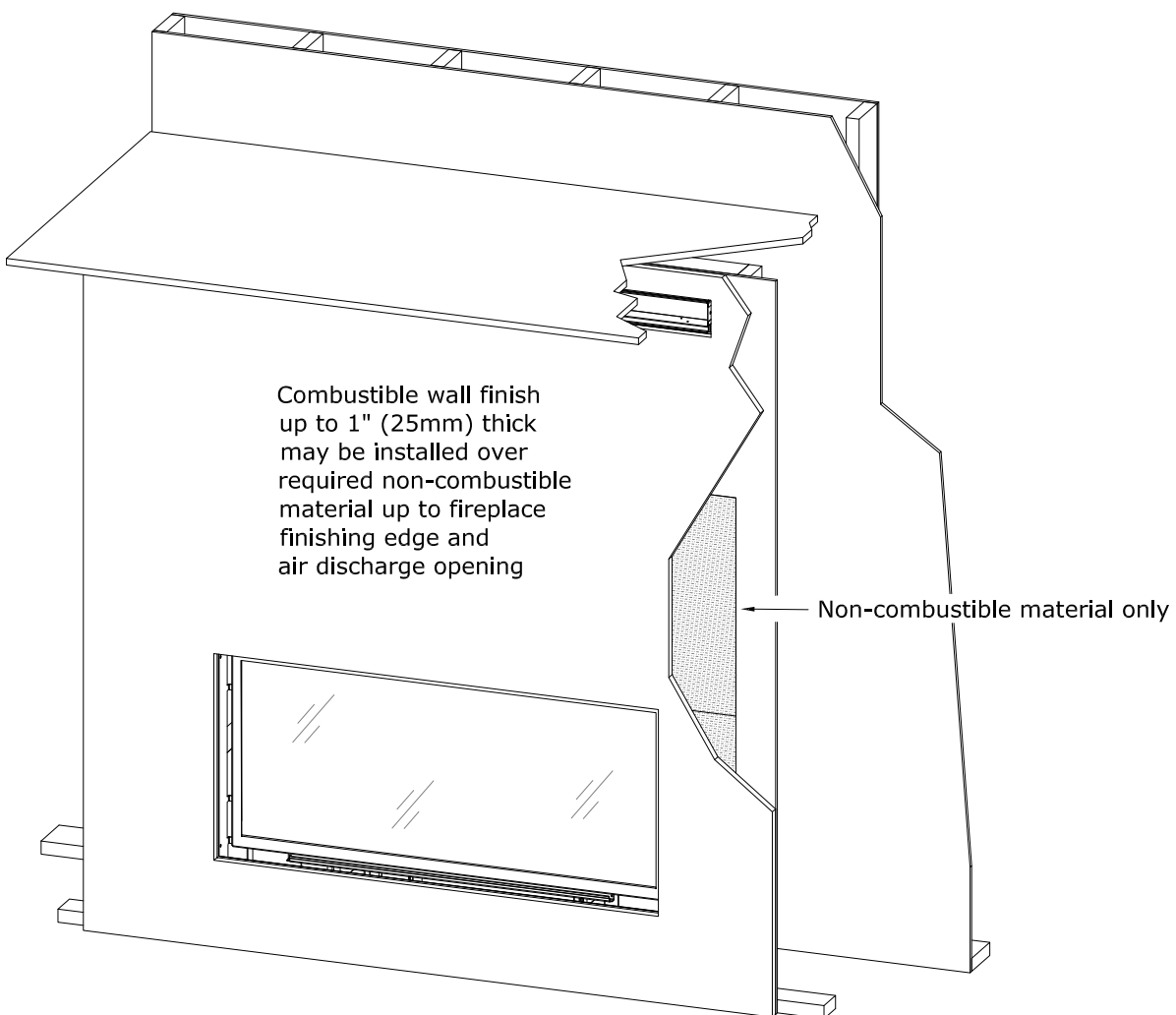


Figure 3.8 - Front View of Combustible Wall Finish

3.2.3 Non-Combustible Zone

- Figure 3.1 (Nordik 48TL) and Figure 3.2 (Nordik 60TL) show the Non-Combustible Finishing Zone for the minimum requirement of noncombustible finishing material.
- Paper faced gypsum board, commonly known as drywall; including Type X Fire Rated board is not a non-combustible material. This material is not approved for use as a non-combustible material around the fireplace.
- WonderBoard brand boards are commonly used as a backerboard for tile. WonderBoard backerboard is not a non-combustible material and is not approved for use in the non-combustible material is required around the fireplace.
- Noncombustible facing and finishing materials must meet ASTM E 136.

3.2.4 Finishing Recommendations

NOTE: The surface area above the appliance may be affected by high temperatures emitted from this appliance. To help avoid or reduce the possibility of the sheetrock to crack, Hussong Mfg. recommends the following methods:

- Ensure the non-combustible material and sheetrock is dry and dust free.
- For taping and mudding seams, we recommend heat resilient tape, mesh and joint compounds, such as Durabond. Mud must be cured as per manufacturers recommendations.
- For a painted surface, use a high quality acrylic latex primer and finish coat. Avoid flat or light-colored paints to prevent discoloring.

Disclaimer: Kozy Heat does not guarantee any materials used around the fireplace. Kozy Heat disclaims any and all liability for any damage to finishing materials including warping, discoloring, cracking, peeling or flaking. This also includes any off-gassing or unpleasant smells from materials when they are heated.

3.3 Hearth and Mantel Clearances

- Do not run any hearth or mantel projection past the fireplace finishing edge which would impede the airflow around the screen barrier.
- If you are using an optional surround ensure the mantel and/or hearth projections leave the appropriate clearance for installation of the surround. See fireplace manual for surround dimensions and installation instructions.

3.3.1 Nordik 48TL Hearth, Mantel, and Sidewall Clearances

Combustible Hearth and Mantel Requirements

WARNING: All minimum clearances to combustible material **MUST** be maintained.

- Combustible Mantel Projections (no surround): As referenced in FIGURE 3.9, the 6" (152mm) mantel can start flush with the top finishing edge. Mantel projections can increase 1" (25mm) of depth for every 1" (25mm) of height starting at the 6" (152mm) mantel.
- Combustible Hearth Projections: Combustible hearth can have an unlimited projection. Hearth can be raised flush to the bottom finishing edge.
- Mantel Leg: Follow "Combustible Sidewall Clearance" below. See Figure 3.10.

Adjacent Sidewall Requirements

- Combustible Sidewall Clearance: The adjacent sidewall projection is unlimited and starts at 6" (152mm) from the side of the fireplace. See Figure 3.10.

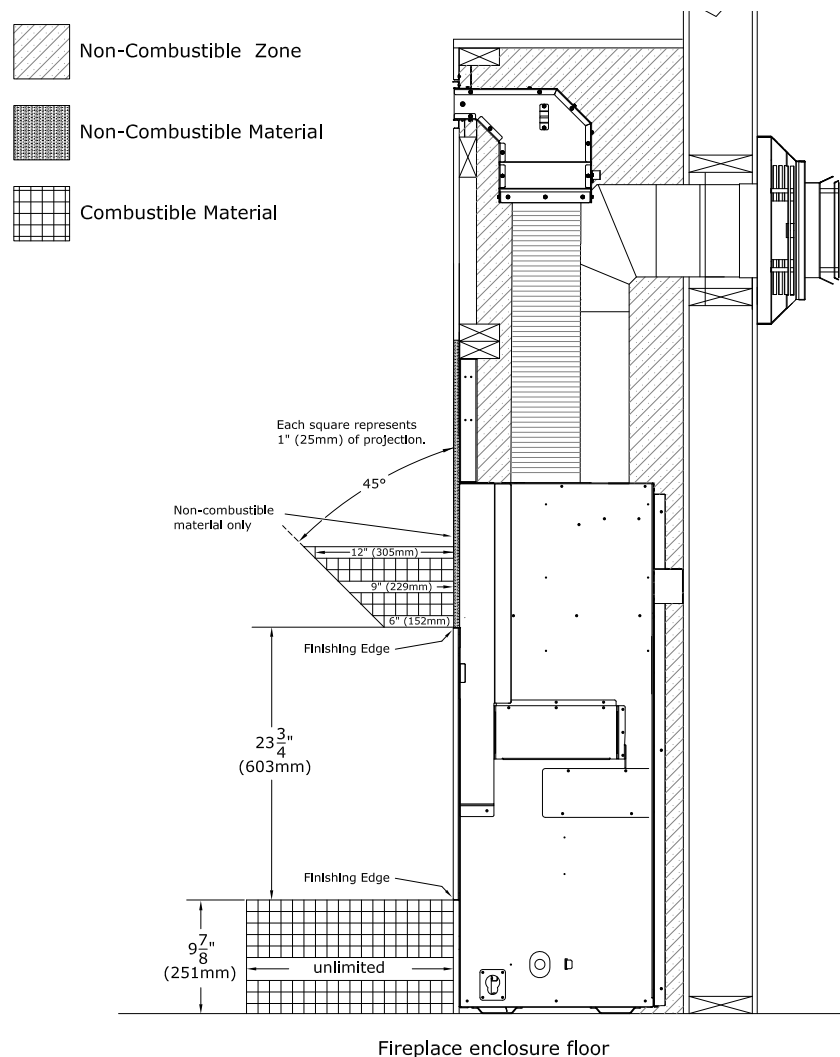


Figure 3.9 - Nordik 48TL Combustible Hearth and Mantel Requirements

- Figure 3.10 shows the unlimited sidewall projection where it is the minimum of 6" (152mm) away from the side fireplace finishing edge. This places the sidewall flush with the KZK plenum opening. If you are using the KZK discharge trim provide an extra 1/2" clearance so your sidewall would be located 6-1/2 (165mm) away from the side fireplace finishing edge.

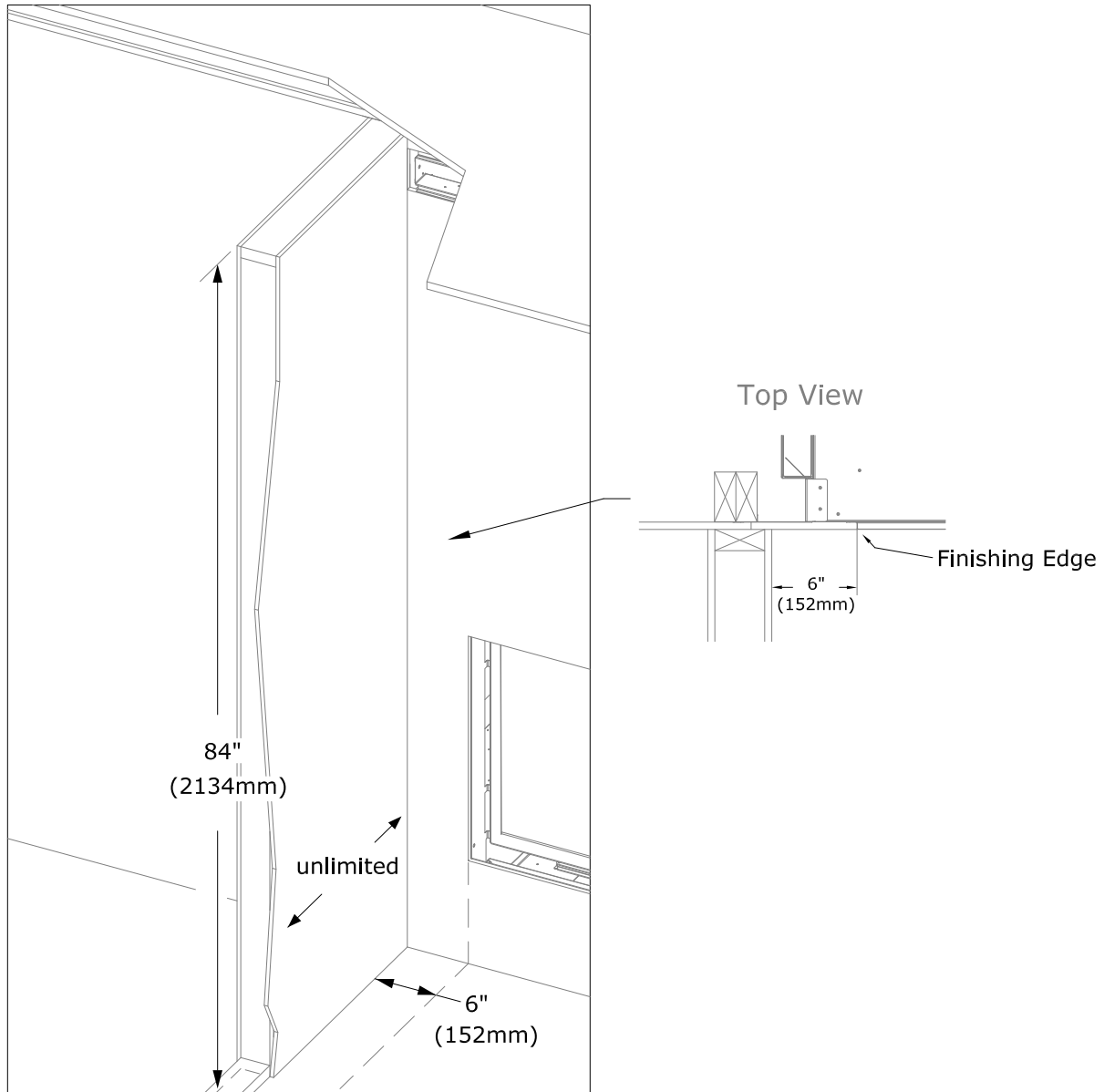


Figure 3.10 - Nordik 48TL Combustible Sidewall Requirements

3.3.2 Nordik 60TL Hearth, Mantel, and Sidewall Clearances

Combustible Hearth and Mantel Requirements

WARNING: All minimum clearances to combustible material **MUST** be maintained.

- Combustible Mantel Projections (no surround): As referenced in FIGURE 3.11, the 6" (152mm) mantel can start flush with the top finishing edge. Mantel projections can increase 1" (25mm) of depth for every 1" (25mm) of height starting at the 6" (152mm) mantel.
- Combustible Hearth: Combustible hearth can have an unlimited projection. Hearth can be raised flush to the bottom finishing edge.
- Mantel Leg: Follow "Combustible Sidewall Clearance" below. See Figure 3.12.

Adjacent Sidewall Requirements

- Combustible Sidewall Clearance: The adjacent sidewall projection is unlimited and starts at 0" (0mm) from the side of the fireplace. See Figure 3.12.

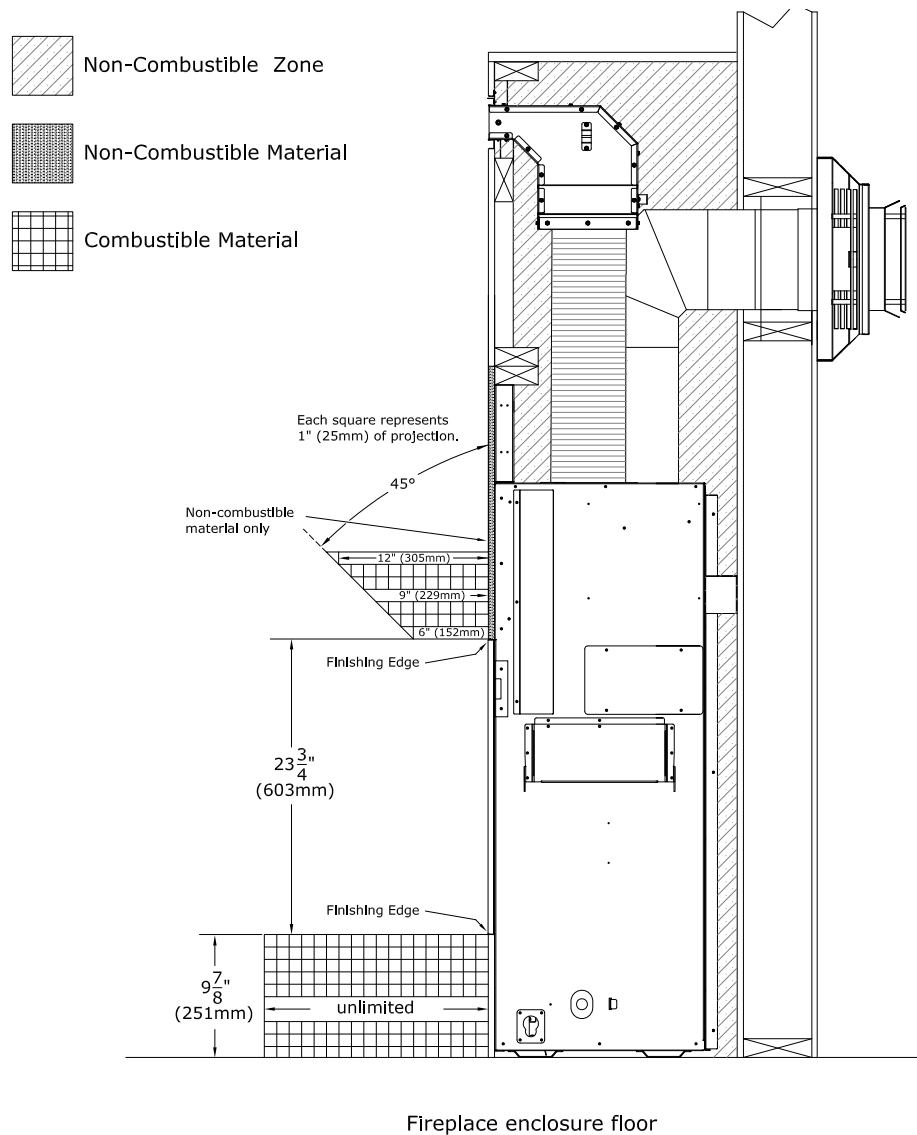


Figure 3.11 - Nordik 60TL Combustible Hearth and Mantel Requirements

- Figure 3.12 shows the unlimited sidewall projection where it is the minimum of 0" (0mm) away from the side fireplace finishing edge. This places the sidewall flush with the KZK plenum opening and flush with the side fireplace finishing edge.
- If you are using the KZK discharge trim provide an extra 1/2" (13mm) clearance so your sidewall would be located 1/2" (13mm) away from the side fireplace finishing edge. If you are using the optional rectangle surround (#NK60TL-RS) around the fireplace finishing edge provide 3/4" (19mm) clearance from the sidewall to the side fireplace finishing edge. The sidewall would be located 3/4" (19mm) away from the side fireplace finishing edge. This would provide clearance for both the KZK discharge trim and the fireplace rectangle surround.

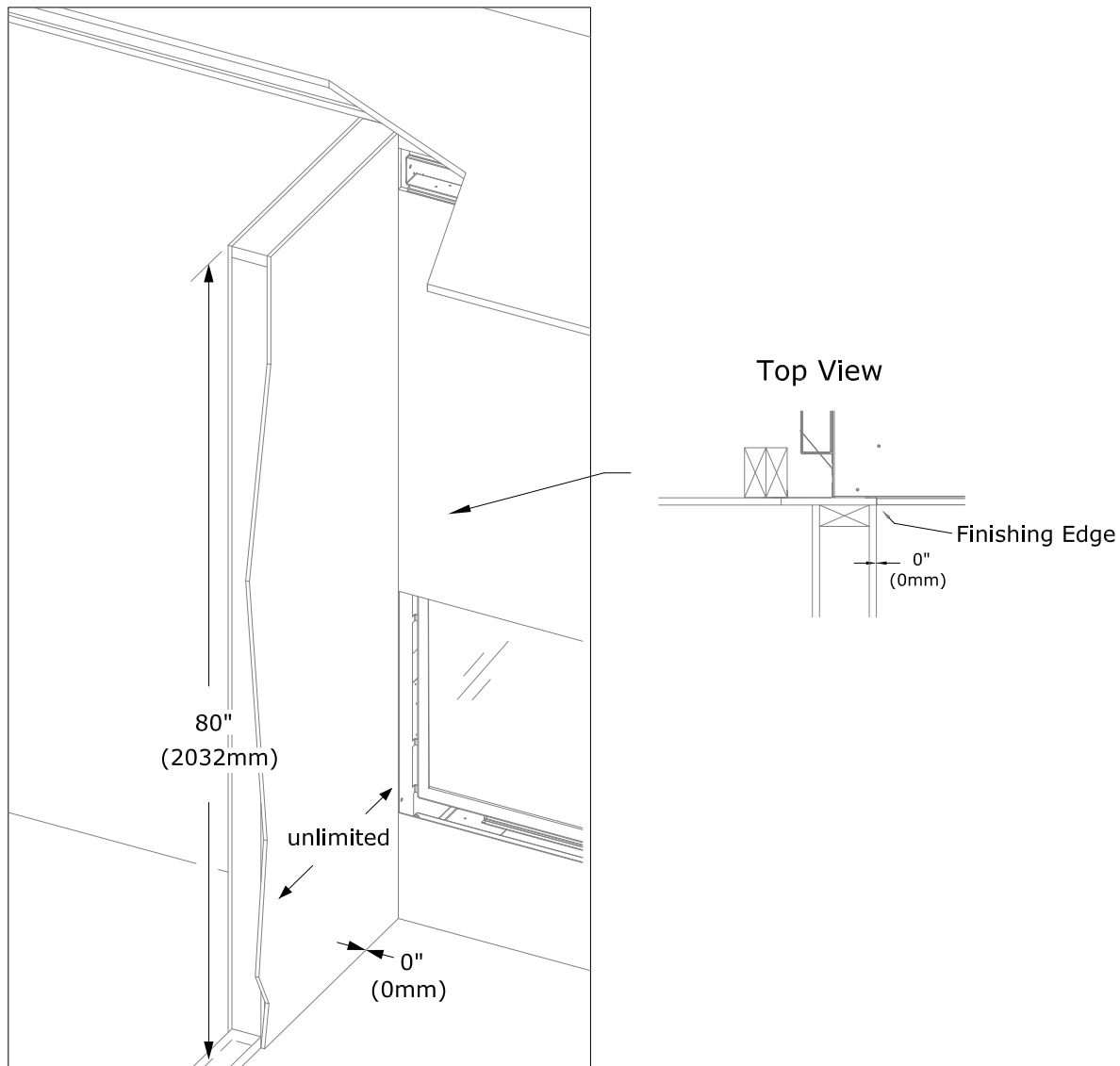


Figure 3.12 - Nordik 60TL Combustible Sidewall Requirements

4.0 Fireplace Preparation & Installation

4.1 Nordik 48TL

All contents in this kit are required and must be installed.

The Kozy Zone Kit requires to remove the cover plates and convection baffles to allow the hot airflow to convect upwards into the air ducts installed on the fireplace.

See additional requirements and installation information in the appliance manual.

1. Remove the (16) sheet metal screws that secure the (2) cover plates at the top of the fireplace shown in Figure 4.1. Discard these two cover plates. Save the sheet metal screws for the next step.
2. Install the KZK collars that were provided with KZK-062 as shown in Figure 4.2. Reuse the sheet metal screws from the previous step.
3. Locate the (3) convection baffles as shown in Figure 4.3. There are (2) screws that secure each convection baffle. Remove the screws and convection baffles from the fireplace. Discard the screws and convection baffles.
4. Frame the rough opening of the fireplace and KZK plenum. Refer to all pages of this KZK-062 manual and the Nordik 48TL manual. See previous pages of this manual for allowable plenum positions and rough frame opening sizes.

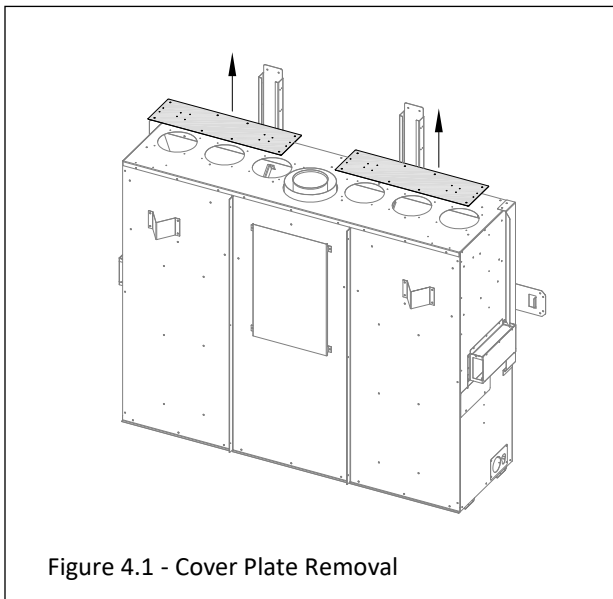


Figure 4.1 - Cover Plate Removal

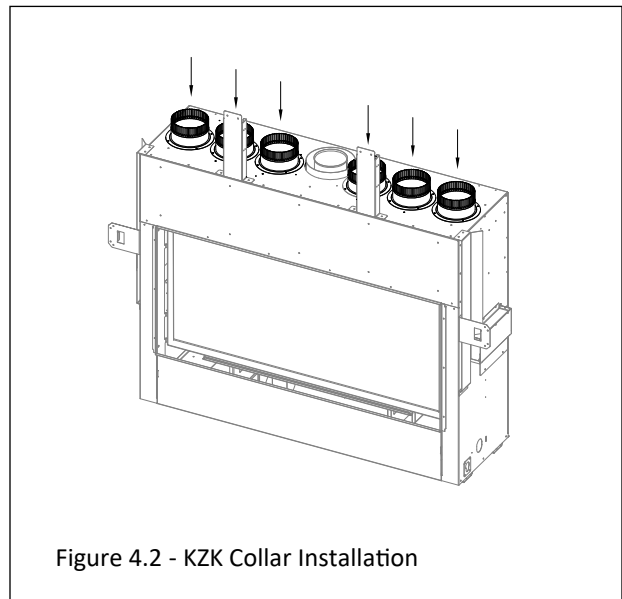


Figure 4.2 - KZK Collar Installation

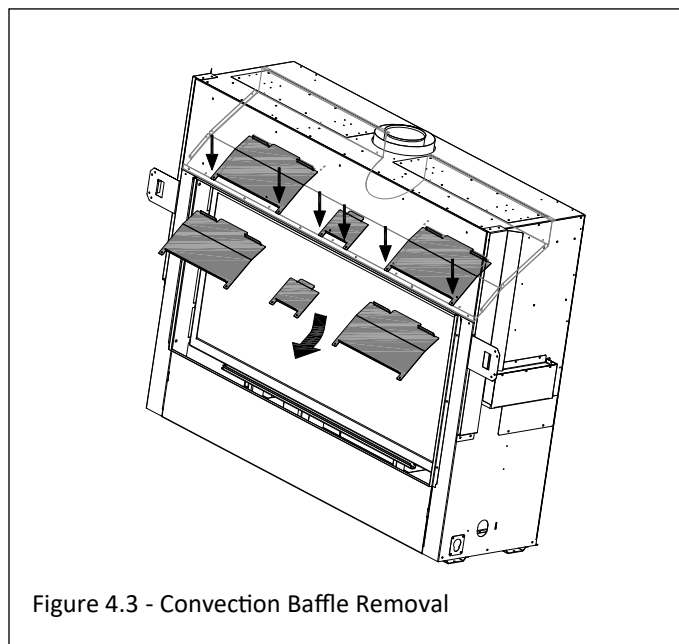


Figure 4.3 - Convection Baffle Removal

7. Install top stand-off brackets. See Figure 4.5.
8. Discard the (2) top stand-off heat shields and the top heat shield / insulation.

Note: The vent heat shields provided with the fireplace are not required. See fireplace installation manual for more information on venting requirements.

9. Install the plenum into the rough frame opening maintaining minimum clearances to combustibles as listed (see previous pages). Fix the plenum to the framing using nails or screw through the top mounting bracket.

NOTE: The supplied mounting brackets are recommended to support the plenum and pipes. Ensure the plenum is level and its outlet is not distorted. Additional metal strapping maybe needed to support the weight and tubes depending on the height of the installation.

10. Attach the piping from all (6) plenum vent collars to all (6) fireplace vent collars. If you are mounting the plenum 10' or less above the fireplace, use (1) #KZK-610 kit or UL-181 Class 0 approved air duct. If you are mounting the plenum between 10' to 20' above the fireplace then you will need (2) #KZK-610 kits and #KZK-CPL6 or UL-181 Class 0 approved air duct.
11. An upward slope must be maintained in horizontal sections of pipes for proper convection. Support horizontal sections every 24 inches.
12. Install the plenum discharge trim provided with the kit using (2) screws.

If desired, the air grille may be painted. Use high temperature paint (250°F).

Continue with fireplace installation.

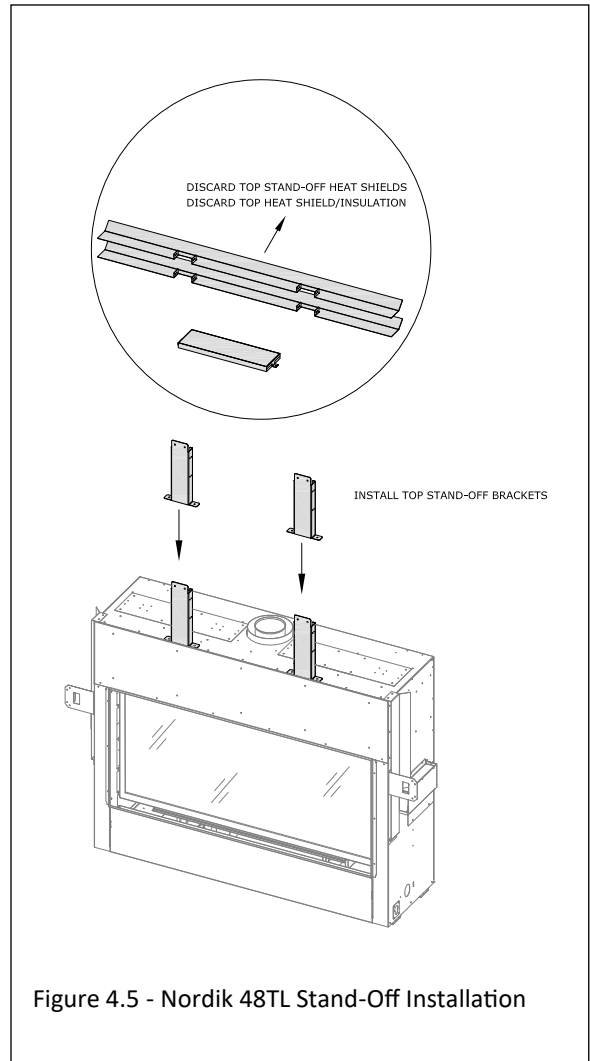


Figure 4.5 - Nordik 48TL Stand-Off Installation

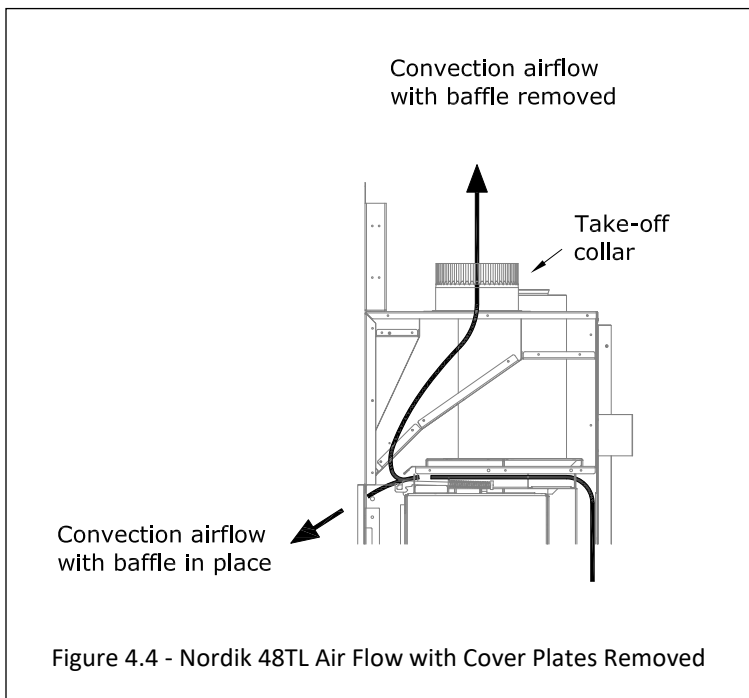


Figure 4.4 - Nordik 48TL Air Flow with Cover Plates Removed

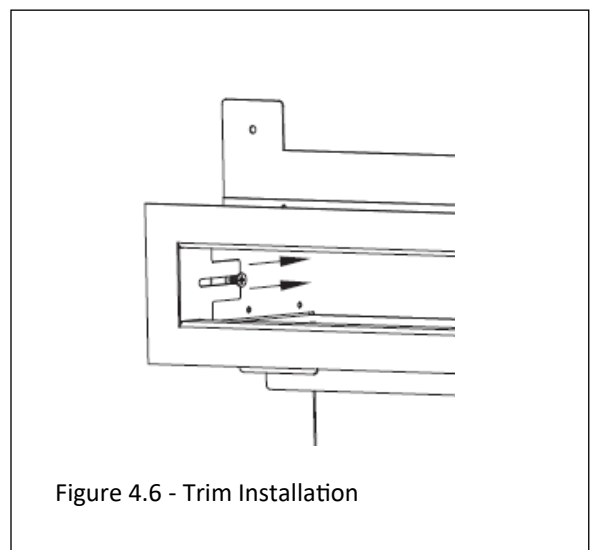


Figure 4.6 - Trim Installation

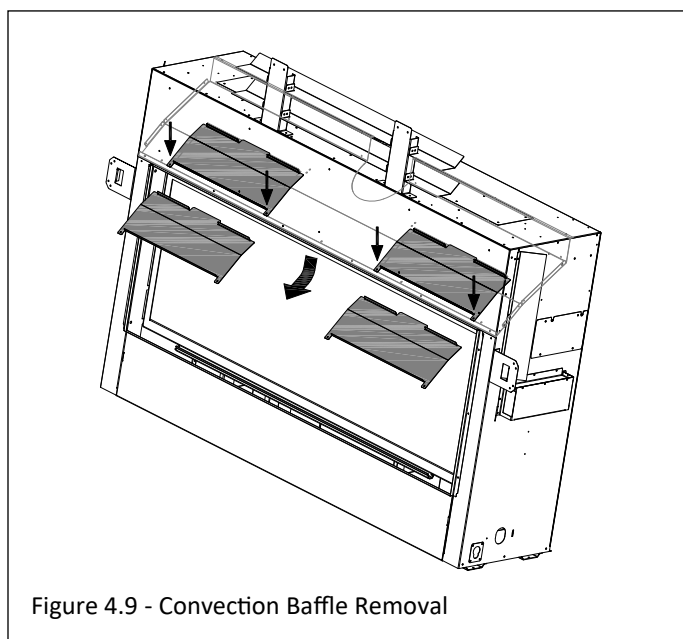
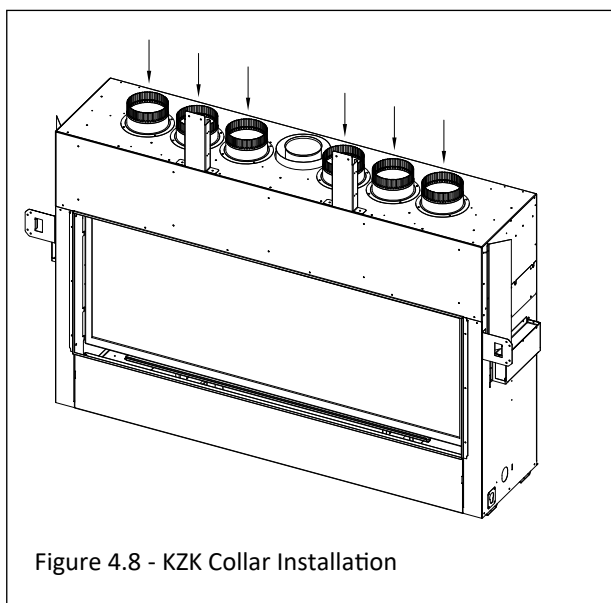
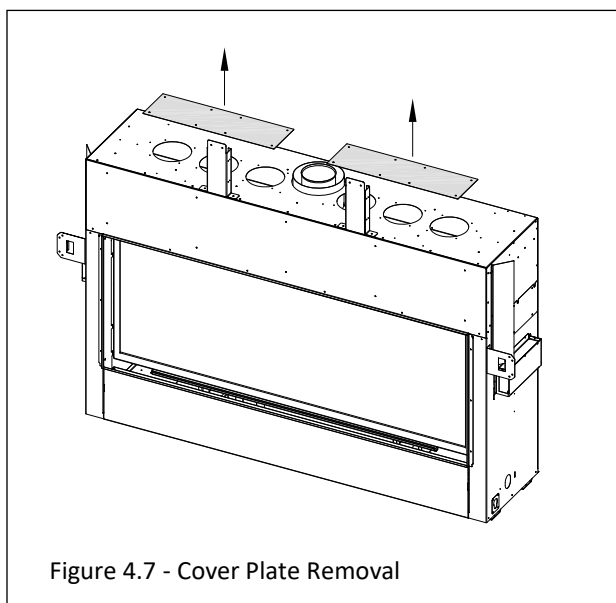
4.2 Nordik 60TL

All contents in this kit are required and must be installed.

The Kozy Zone Kit requires to remove the cover plates and convection baffles to allow the hot airflow to convect upwards into the air ducts installed on the fireplace.

See additional requirements and installation information in the appliance manual.

1. Remove the (16) sheet metal screws that secure the (2) cover plates at the top of the fireplace shown in Figure 4.7. Discard these two cover plates. Save the sheet metal screws for the next step.
2. Install the KZK collars that were provided with KZK-062 as shown in Figure 4.8. Reuse the sheet metal screws from the previous step.
3. Locate the (2) convection baffles as shown in Figure 4.9. There are (2) screws that secure each convection baffle. Remove the screws and convection baffles from the fireplace. Discard the screws and convection baffles.
4. Frame the rough opening of the fireplace and KZK plenum. Refer to all pages of this KZK-062 manual and the Nordik 60TL manual. See previous pages of this manual for allowable plenum positions and rough frame opening sizes.



7. Install top stand-off brackets. See Figure 4.11.

8. Discard the (2) top stand-off heat shields.

Note: The vent heat shields provided with the fireplace are not required. See fireplace installation manual for more information on venting requirements.

9. Install the plenum into the rough frame opening maintaining minimum clearances to combustibles as listed (see previous pages). Fix the plenum to the framing using nails or screw through the top mounting bracket.

NOTE: The supplied mounting brackets are recommended to support the plenum and pipes. Ensure the plenum is level and its outlet is not distorted. Additional metal strapping may be needed to support the weight and tubes depending on the height of the installation.

10. Attach the piping from all (6) plenum vent collars to all (6) fireplace vent collars. If you are mounting the plenum 10' or less above the fireplace, use (1) #KZK-610 kit or UL-181 Class 0 approved air duct. If you are mounting the plenum between 10' to 20' above the fireplace then you will need (2) #KZK-610 kits and #KZK-CPL6 or UL-181 Class 0 approved air duct.

11. An upward slope must be maintained in horizontal sections of pipes for proper convection. Support horizontal sections every 24 inches.

12. Install the plenum discharge trim provided with the kit using (2) screws.

If desired, the air grille may be painted. Use high temperature paint (250°F).

Continue with fireplace installation.

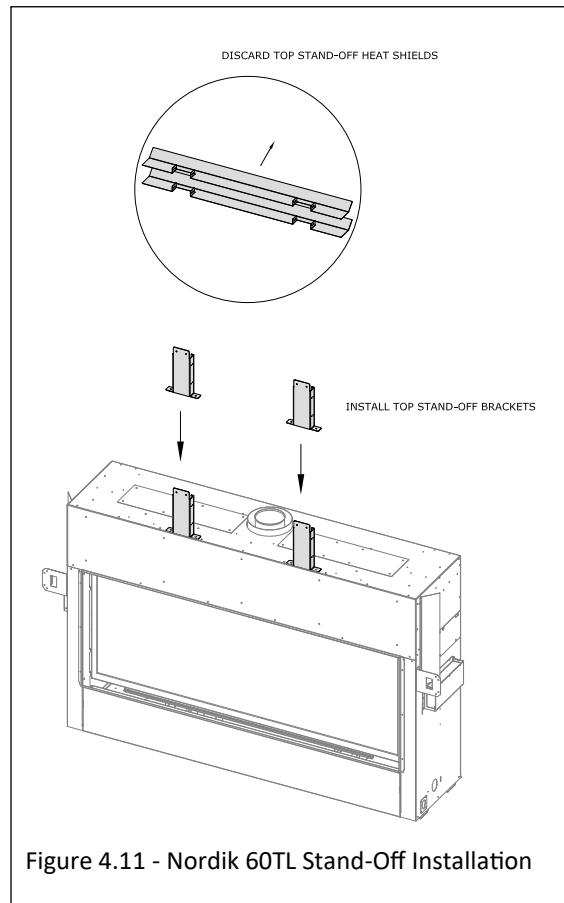


Figure 4.11 - Nordik 60TL Stand-Off Installation

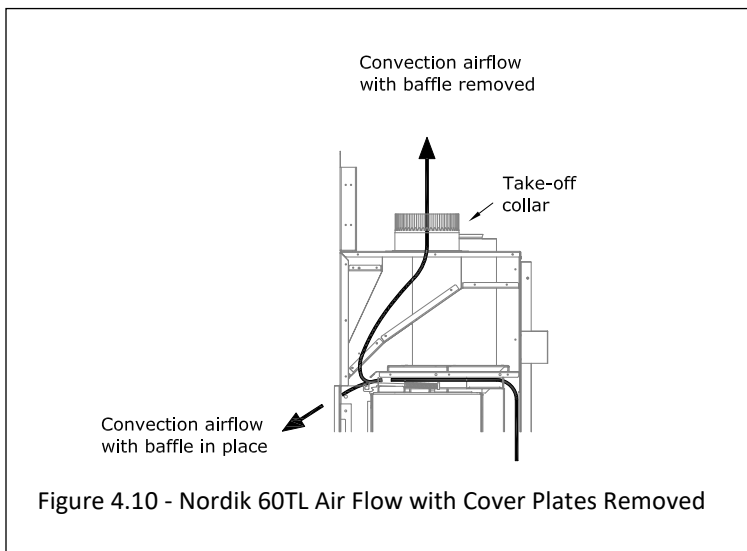


Figure 4.10 - Nordik 60TL Air Flow with Cover Plates Removed

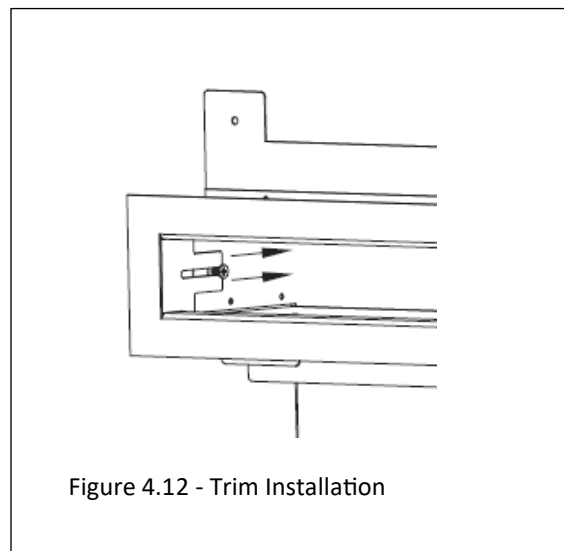


Figure 4.12 - Trim Installation