

# IN-WALL-V12, IN-WALL-S21, IN-WALL-H31



## Installation Instructions

**MODELS: Revo-V12, Revo-S21, Revo-H31, Ion-V7, Ion-S7, Ion-H7**



Leave this manual with party responsible for use and operation.

The REVO/ION may be installed recessed into the wall using the In-Wall Tub. In-Wall installation is not compatible with the Radius decorative front.

This instruction refers to figures and information located in the Installation Manual. The Installation Manual is included with the REVO/ION appliance.

### Tools and Supplies Needed

See Section 2 in the Installation Manual

#### Kit Contents

- Tub Assembly (1)
- Finishing Strips (Unpainted) (4)
- Trim Strips (Black) (4)
- Screws (14)
- Bolts (4)
- Non-Combustible Board (1)

### A. Wall and Appliance Preparation

**WARNING! Risk of Fire!** Comply with all minimum clearances as specified. Framing closer than the minimums listed must be constructed entirely of noncombustible materials (i.e., steel studs, concrete board, etc.)

1. Prepare 2 in. x 6 in. framing as shown in Figure 1.

**NOTICE:** The In-Wall application is not compatible with the Radius decorative front.

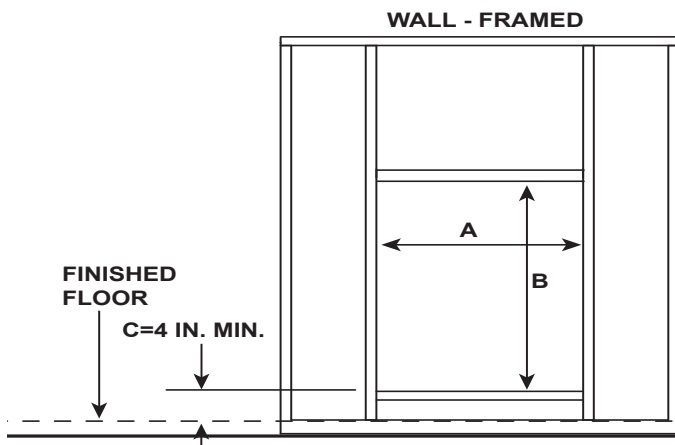
**Note:** 2 X 4 framing is not recommended in geographical regions that require an R-19 insulation value.

2. A Corrugated Template may be used to simplify the installation process. Contact your dealer or see Service Parts section in Owner's manual to order. Using the template for installations of the REVO/ION will help when locating the gas and electrical connections for the appliance. Install the corrugated template as shown in Figure 2. Use blocks to position the corrugated template in regards to depth.

3. Bring electrical and gas hookups to location designated by markings on corrugated template. Remove template and blocks when utility installation is complete.

**Note:** Hard-piped gas connections must be terminated with a specific "Z" dimension depth. See references to "Z" dimension in Figure 2. Terminating the Hard-piped gas connection with the proper "Z" dimension will simplify the process of connecting the gas to the appliance.

FRAMING DIMENSIONS	A	B	C
REVO-V12 ION-V7	20-1/8 in.	43-1/8 in.	4 in. min.
REVO-S21 ION-S7	29-3/8 in.	40-1/2 in.	4 in. min.
REVO-H31 ION-H7	39-3/8 in.	39 in.	4 in. min.



#### IN-WALL TUB CLEARANCES

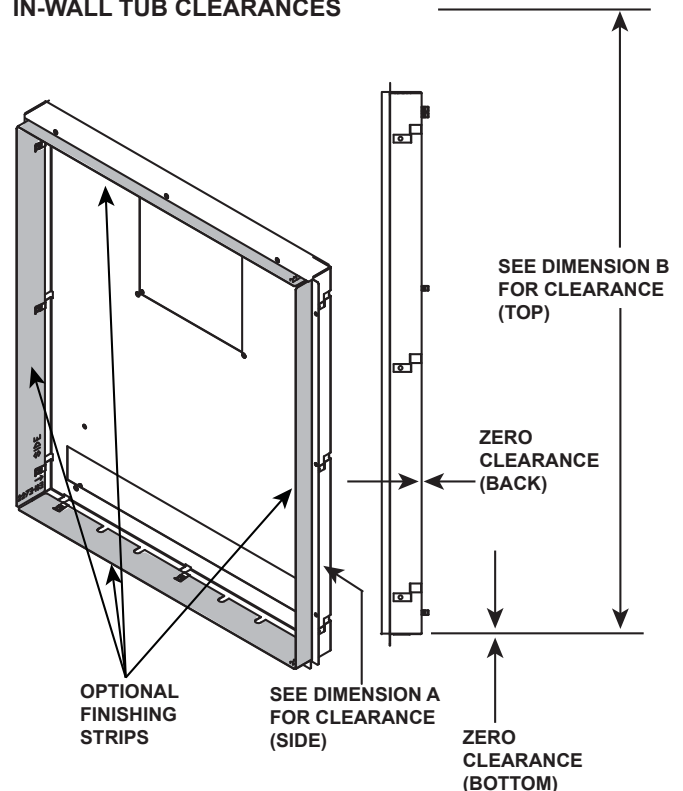


Figure 1. Framing Dimensions and In-Wall Tub - Clearances

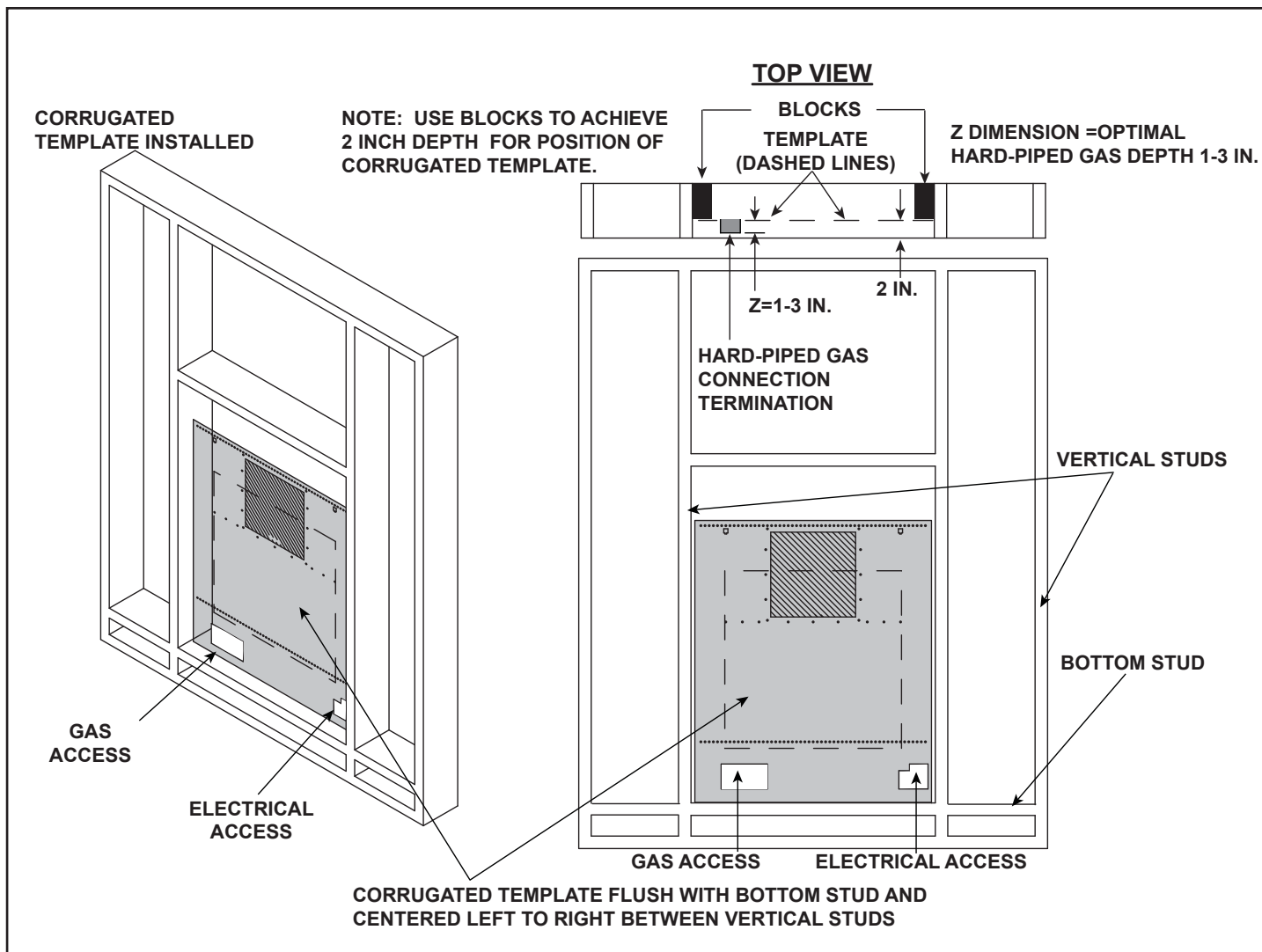


Figure 2. In-Wall with Corrugated Template

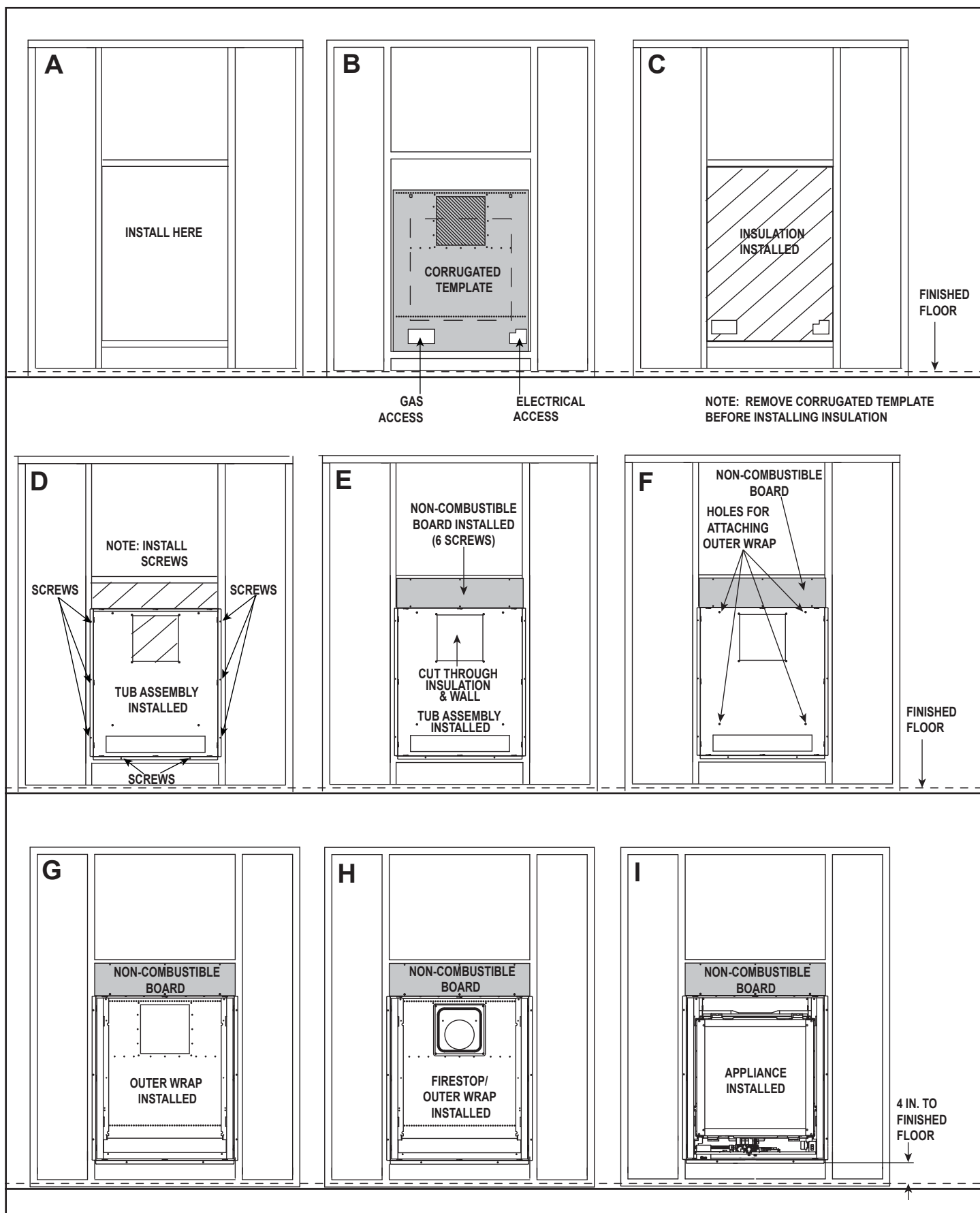


Figure 3. In-Wall Tub Installation

4. Insulate wall per local code requirements. Use Thermax where an R19 insulation value is required. See Figure 3 (C) and Figure 6.
5. Install In-Wall Tub as shown in Figure 3 (D). The tub should set on the framing. Verify hood clips are in the correct orientation. See Figure 5. Ensure tub is level. Use eight screws (supplied with In-Wall Kit) to attach the tub to the framing.

**CAUTION! In-Wall Tub and Appliance Outer Wrap MUST be installed level for proper burner operation.**

6. Install the required non-combustible board (supplied) as shown in Figure 3 (E) using six screws.

**WARNING! Risk of Fire! DO NOT apply combustible materials beyond the minimum clearances. Comply with all minimum clearances to combustibles as specified in this instruction. Overlapping materials could ignite and will interfere with doors.**

7. Cut through insulation and wall as shown in Figure 3(E). Allow space for clearance for the firestop framing discussed in step 11.
8. Remove the glass assembly from the firebox by releasing the two top glass latches and then the two bottom glass latches. See Figure 12.1 in the Installation Manual.
9. Remove firebox from outer wrap. See Figure 6.8 in the Installation Manual.
10. Install the outer wrap as shown in Figure 3 (F & G) using the four supplied bolts in the threaded holes. Additional screws may be installed to ensure the tub

and the outer wrap are secured flat to one another.

11. Frame around the edges of the firestop cut out to ensure insulation does not come into contact with the vent pipe. See Figure 6.10 and 6.12 in the appliance Installation Manual.
12. Install firestop using the four supplied screws. Refer to Section 6 of the Installation Manual, Figures 6.10 and 6.11 and Section 6.A for reference to sealing the firestop.
13. Install finishing strips if applicable. See Figure 5.

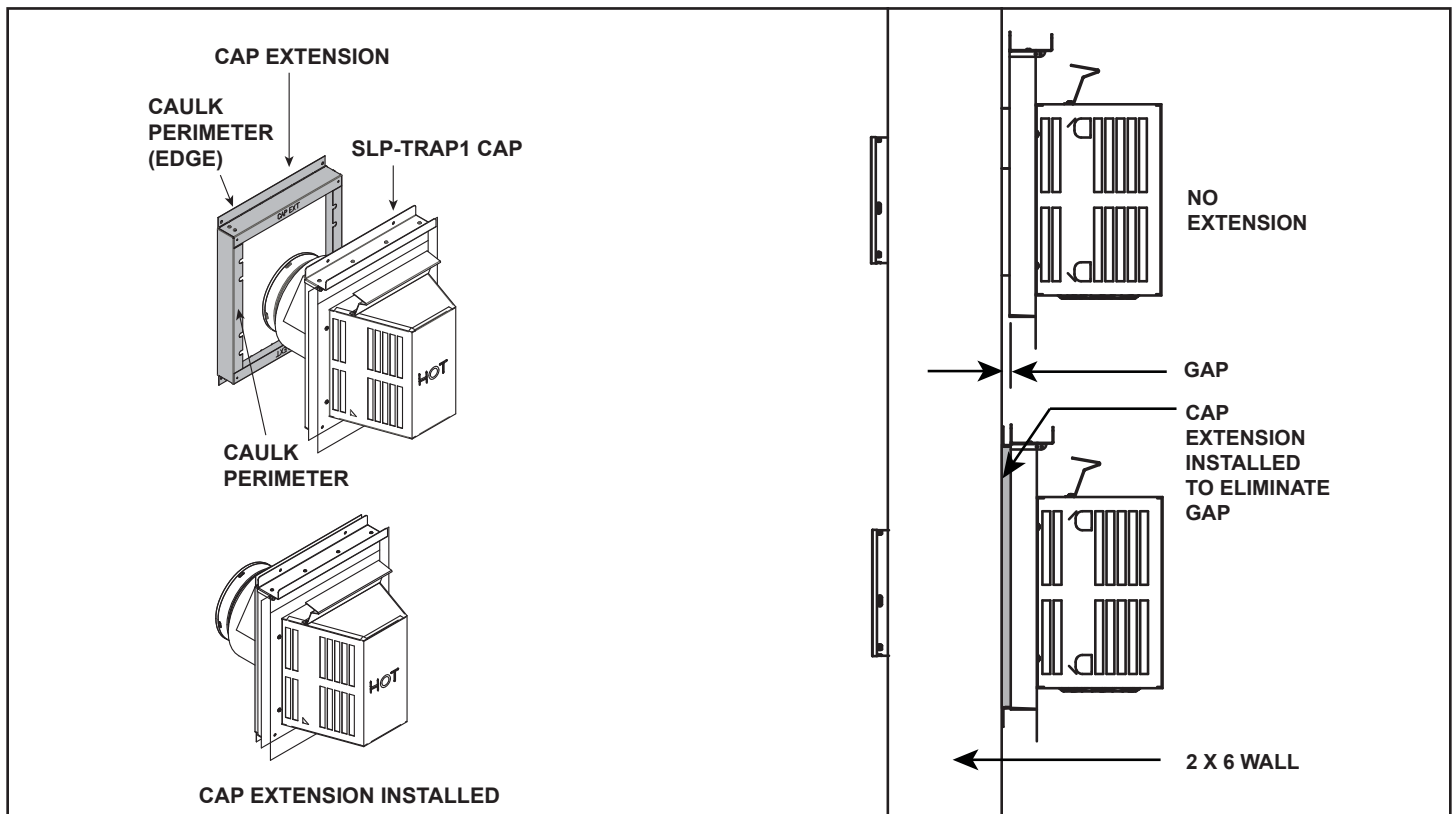
**Note:** Finishing strips are not painted.

Remove finishing strips after wall finishing is complete.

14. Reattach firebox to outer wrap. Use Figure 6.8 and 6.13 in the Installation Manual for reference.
15. Replace the glass assembly on the appliance. Latch the two bottom glass assembly latches and then the two top glass latches. See Figure 12.1 in the Installation Manual.
16. Attach the appliance vent system. See Section 6.A in the Installation Manual for reference to sealing firestop.

**NOTICE! Install a cap extension if gap exists between the wall and the back of the termination cap. See Figure 4. An SLP-TRAP1 will generally be used with In-Wall installations.**

17. Install vent and trap cap extension if a gap exists between the exterior wall and the cap. To prevent drafts, the cap extension should be sealed with caulk that has a minimum of 300°F continuous exposure rating to seal gaps of the extension. See Figure 4.



**Figure 4. Cap Extension Installation**

18. Have a qualified service technician make the connections to gas and electric service.

**WARNING! Risk of Fire or Explosion!** Gas and electric connections should be performed by a qualified service technician.

19. Gas line holes and other openings should be caulked or sealed.

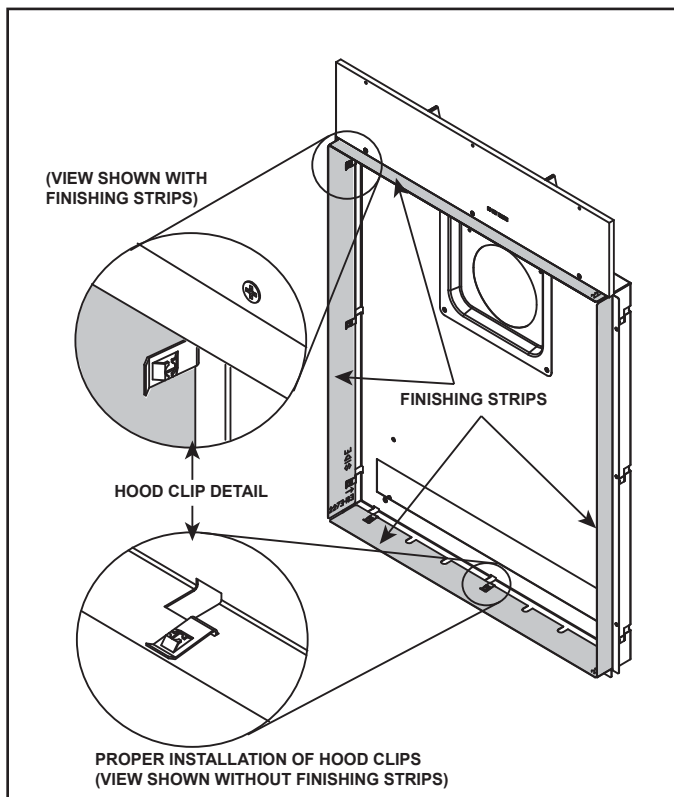


Figure 5. Finishing Strip Attachment & Proper Hood Clip Installation

## B. In-Wall - Minimum Combustible Facing Clearances

**NOTICE:** The In-Wall application is not compatible with the Radius decorative front.

1. Trim strips may be used to clean up any rough sheet rock edges. See Figure 9.

**Note:** Trim strips are painted black.

	A	D
REVO-V12 ION-V7	20-1/8 in.	43-7/8 in.
REVO-S21 ION-S7	29-3/8 in.	41-1/4 in.
REVO-H31 ION-H7	39-3/8 in.	39-3/4 in.

### WALL - FRAMED AND SHEETROCKED

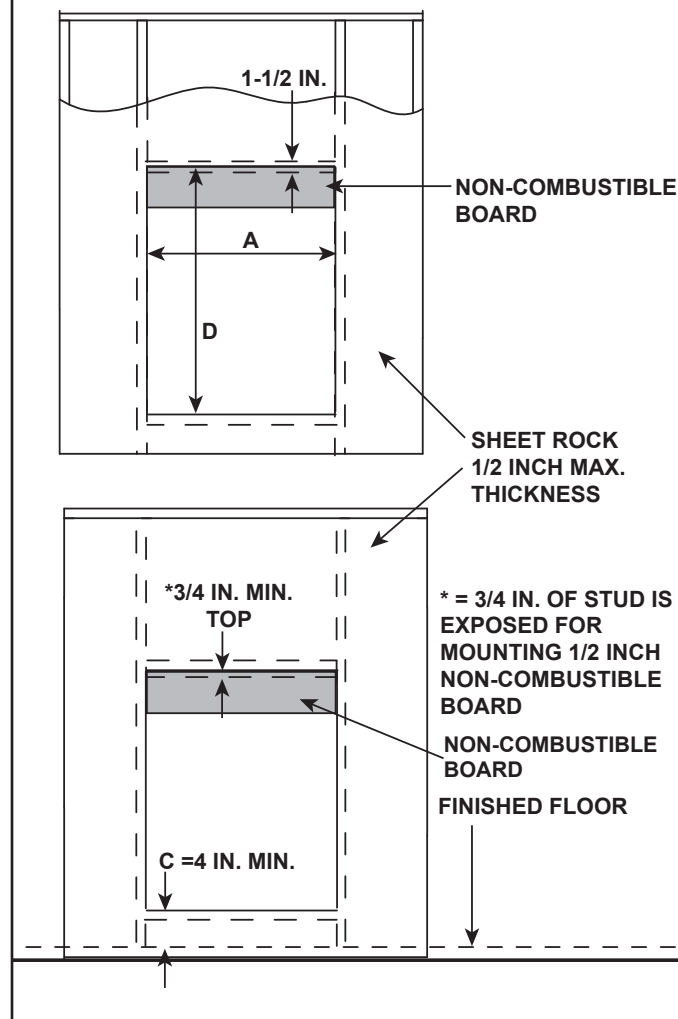


Figure 7. In-Wall Tub Installation - Sheet Rock Facing

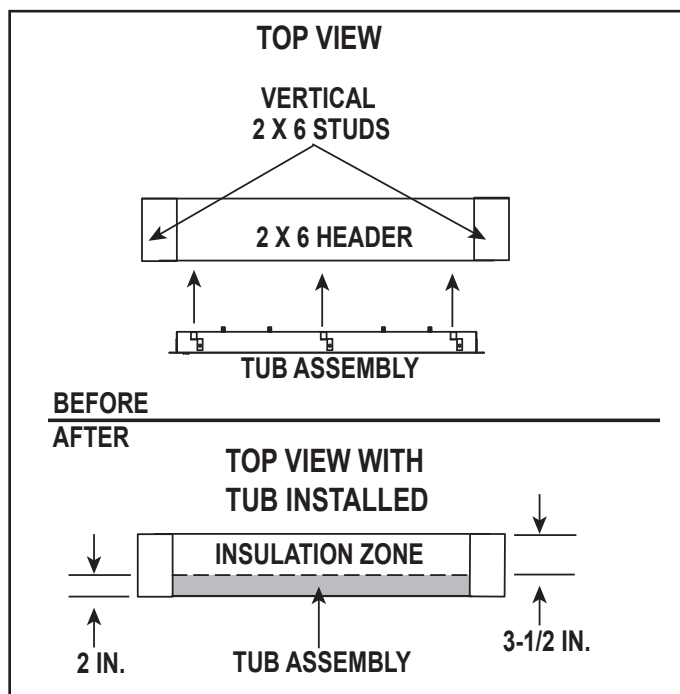


Figure 6. In-Wall Tub Installation - Top View

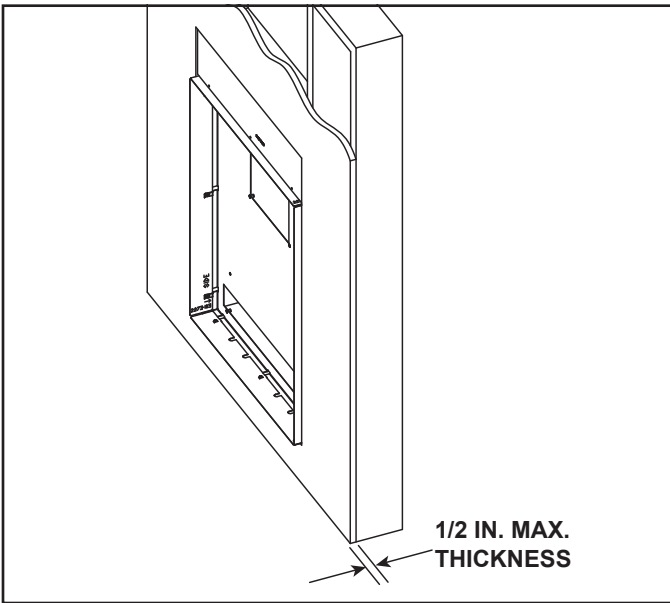


Figure 8. In-Wall Tub Installation - Sheet Rock Thickness

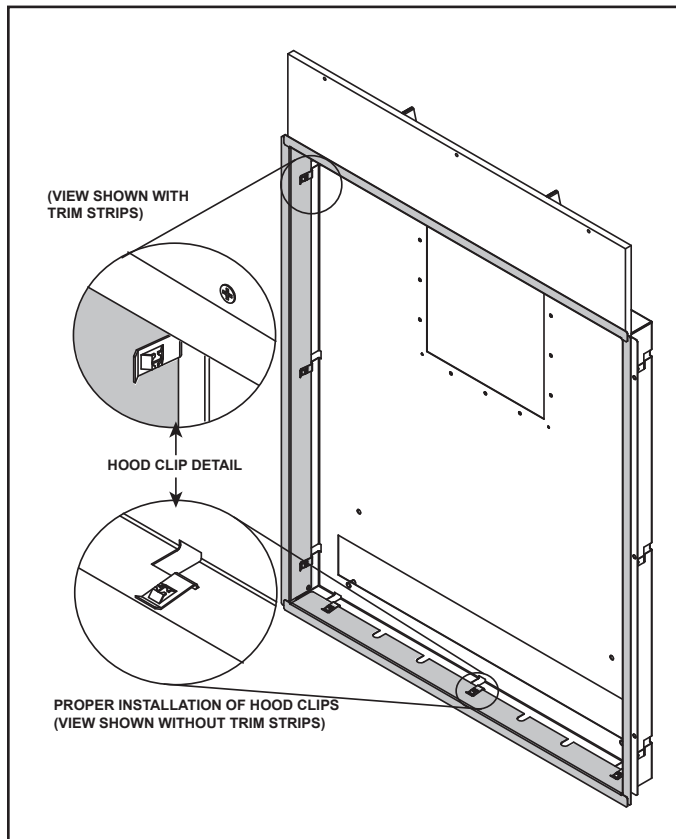


Figure 9. In-Wall Tub Installation - Trim Strips

## C. In-Wall - Minimum Non-Combustible Facing Clearances

**NOTICE:** The In-Wall application is not compatible with the Radius decorative front.

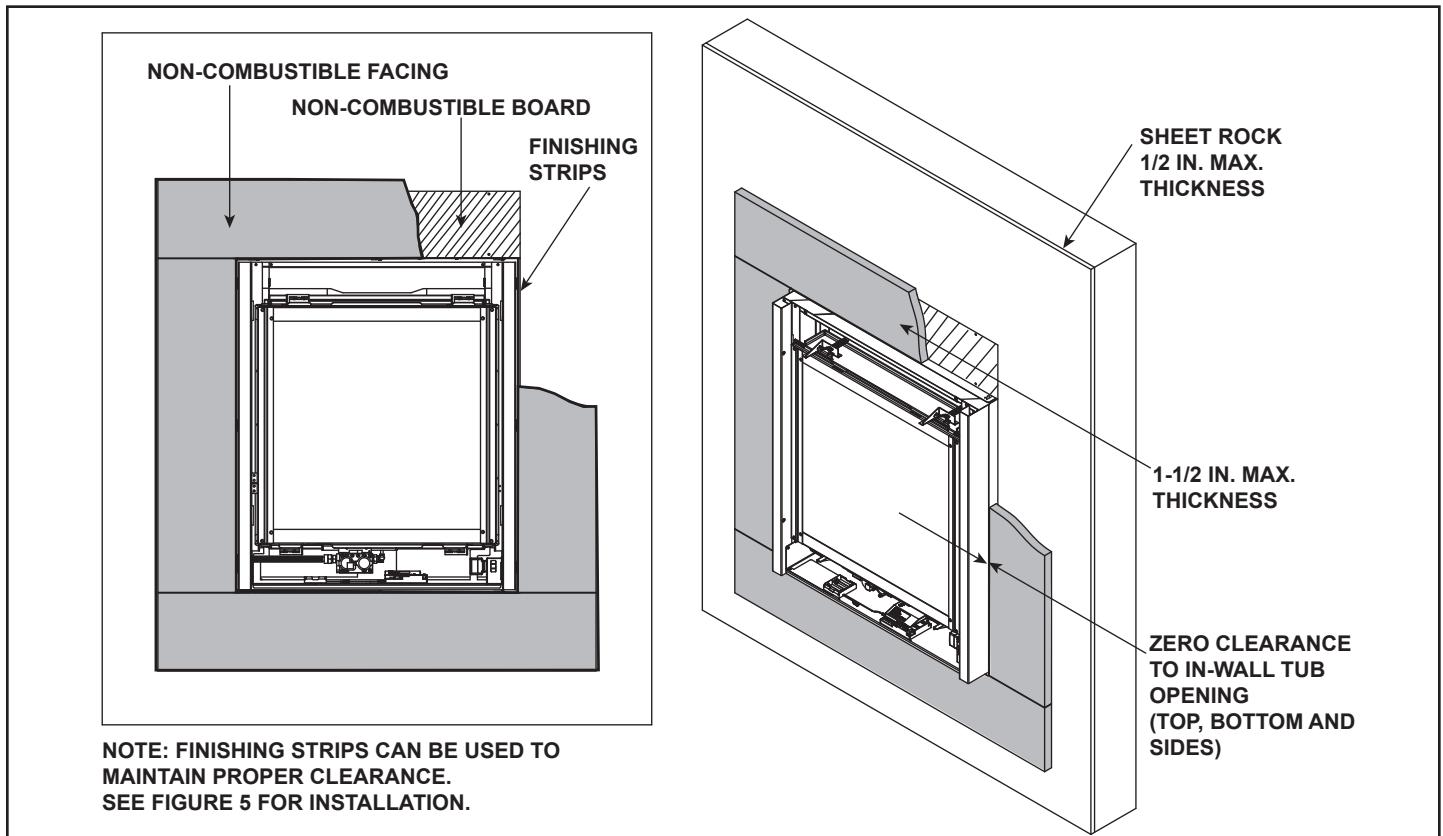


Figure 10.

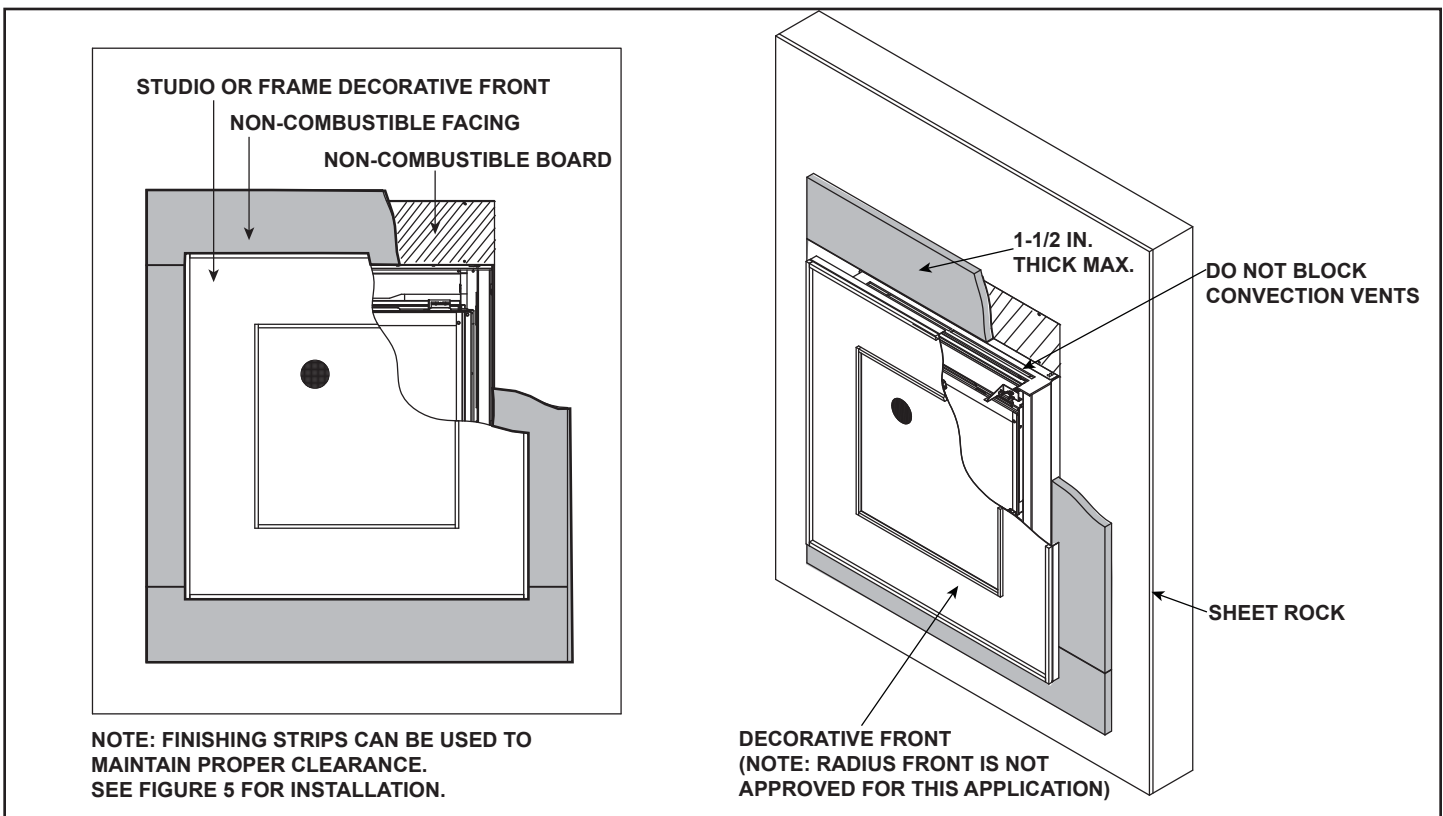


Figure 11.

## D. In-Wall Mantel and Wall Projections

### Combustible Mantel Legs or Wall Projections

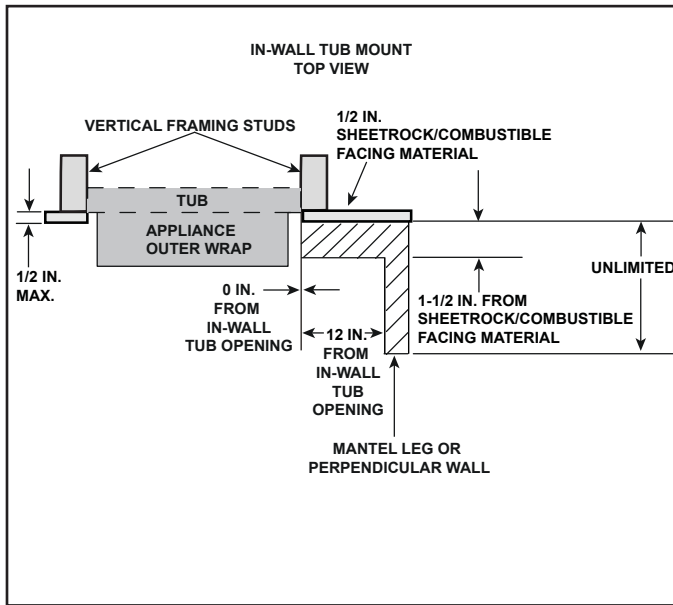


Figure 12. Combustible Mantel Leg or Wall Projections (Acceptable on both sides of opening)

### Non-Combustible Mantel Legs or Wall Projections

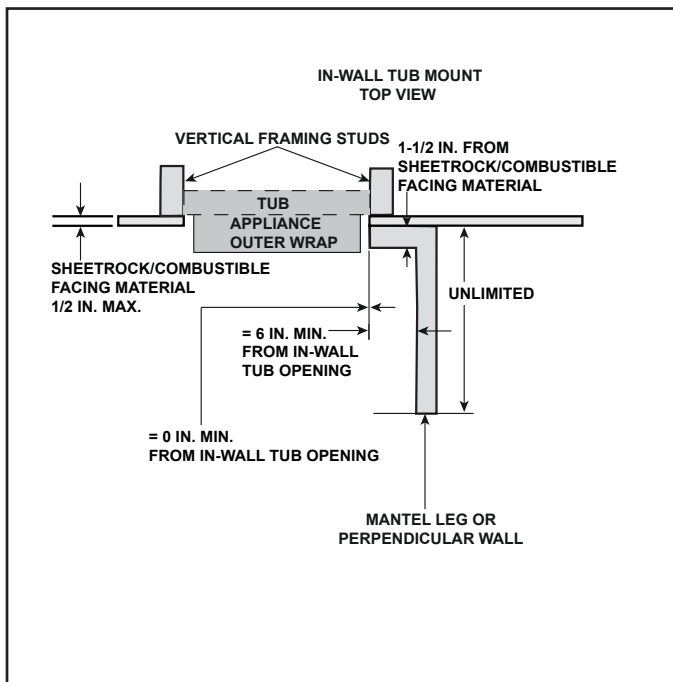


Figure 13. Non-Combustible Mantel Leg or Wall Projections (Acceptable on both sides of opening)

## Combustible Mantels Above Appliance Outer Wrap

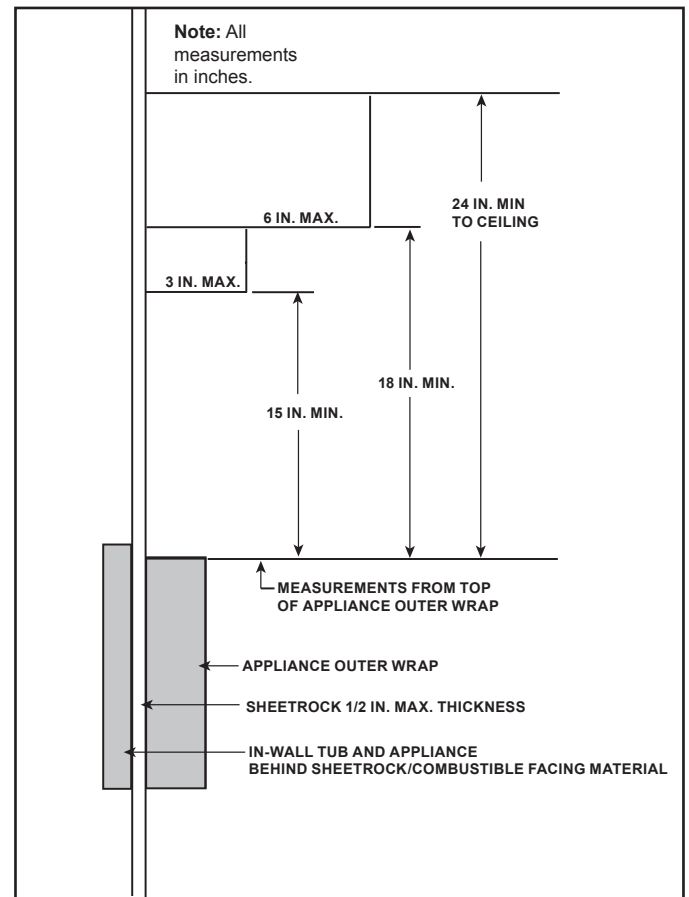


Figure 14. Minimum Vertical and Maximum Horizontal Dimensions of Combustibles

## Non-combustible Mantels Above Appliance Outer Wrap

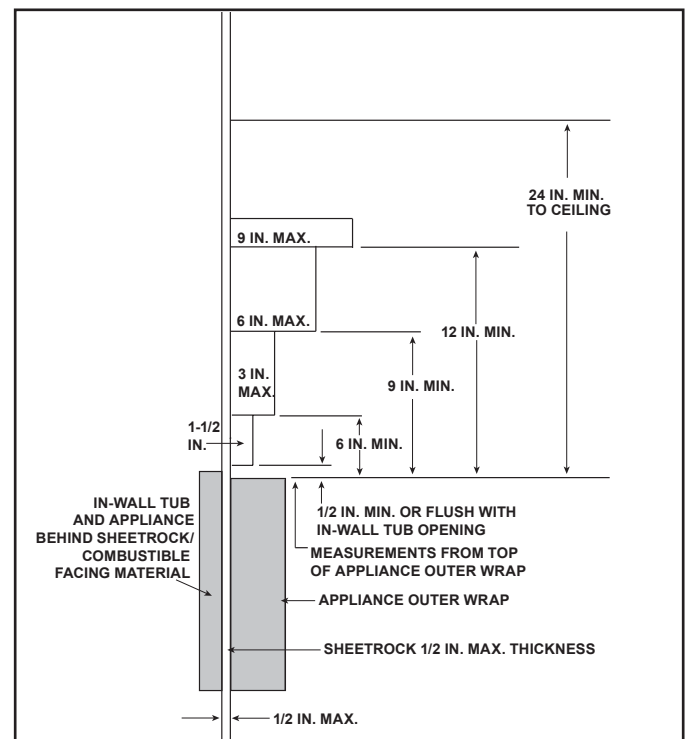


Figure 15. Minimum Vertical and Maximum Horizontal Dimensions of Non-Combustibles



## E. In Wall - Finishing

The splatter guard is a piece of corrugated material used to protect the appliance during the installation process before finishing work on the whole hearth is complete. The splatter guard is shipped with the In-Wall Kit on the REVO/ION models. Splatter guards must be removed before appliance is fired.

**WARNING! Risk of Fire!** Close the ball valve before installing the splatter guard to prevent accidental lighting. Remove the splatter guard before lighting the appliance.



Figure 16. Splatter Guard Installation

1. Install the splatter guard in the space between the tub and the top and sides of the appliance outer wrap. See Figure 16.
2. To gain access to the component tray, lift the flap on the splatter guard and crease the perforation by hand. Bend the tabs and insert them into the slots on the splatter guard. See Figures 17 and 18.

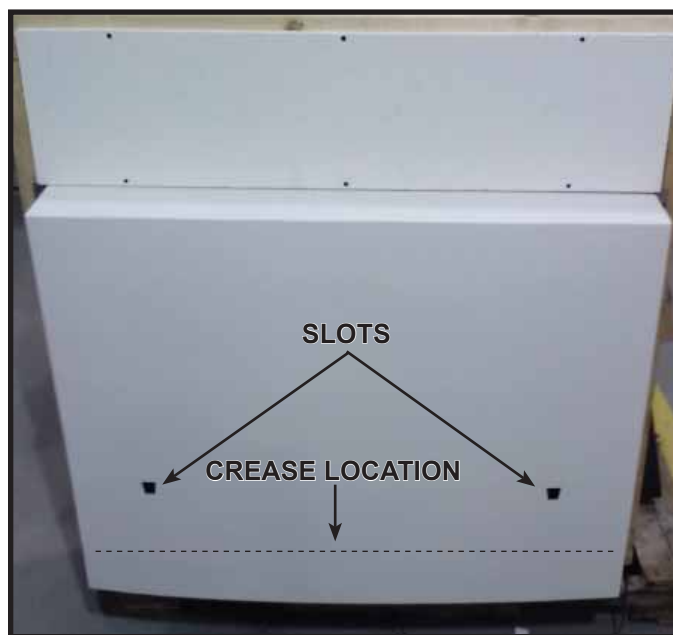


Figure 17. Splatter Guard Installed

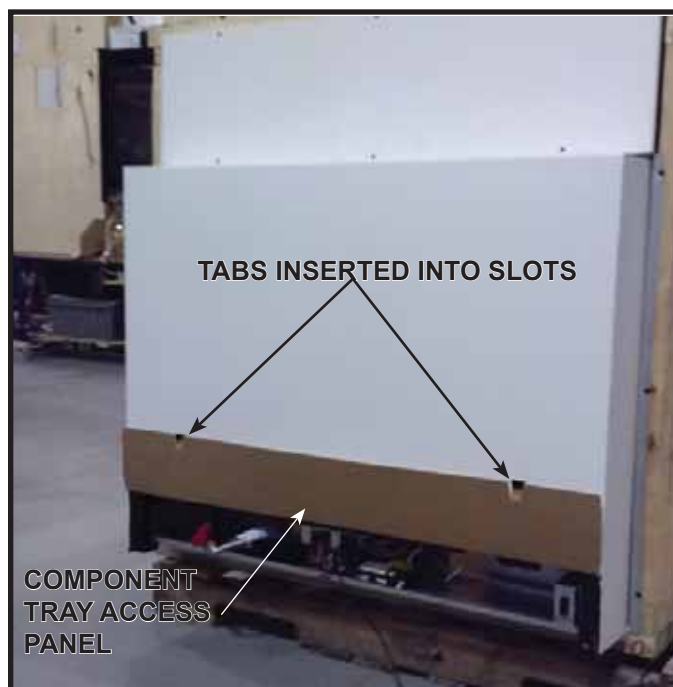


Figure 18. Component Tray Access

## F. Service Parts

	Top/Bottom Trim Strips	Side Trim Strips
IN-WALL-H31	2274-171	2274-170
IN-WALL-S21	2273-171	2273-170
IN-WALL-V12	2275-171	2275-170

Please contact your Hearth & Home Technologies dealer with any questions or concerns.  
For the location of your nearest Hearth & Home Technologies dealer, please visit [www.hearthnhome.com](http://www.hearthnhome.com).

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