

**Models:**  
**LDS33, LDS46**  
**Decorative Shroud**



These decorative shrouds have been tested for use with specific Hearth & Home Technologies Inc. fireplaces. Check with your local building code agency before you begin installation to ensure compliance with local codes, including the need for permits and follow-up inspections. If you encounter any problems regarding code approvals, or if you need clarification of any of the instructions contained here, contact your Hearth & Home Technologies Inc. dealer. For the dealer nearest you, please visit [www.hearthnhome.com](http://www.hearthnhome.com).

**Note:** An arrow (➡) found in the text signifies change in content.

**CAUTION! Risk of Cuts, Abrasions or Flying Debris.** Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

## 1 LDS33/LDS46 Installation Around Woodburning Termination Caps

The TS Series or TR Series termination caps (see Figures 1-3) are designed to be installed on an exterior chase with a decorative chimney shroud or a purchased LDS33/LDS46 decorative shroud.

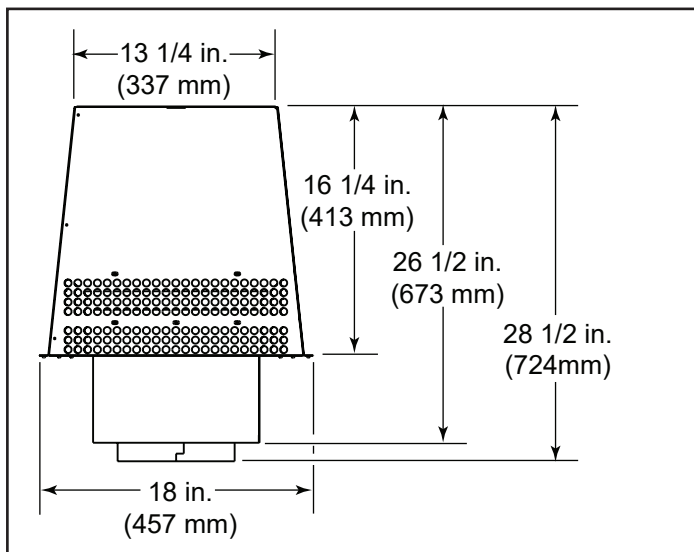


Figure 1 TS345 Square Termination Cap

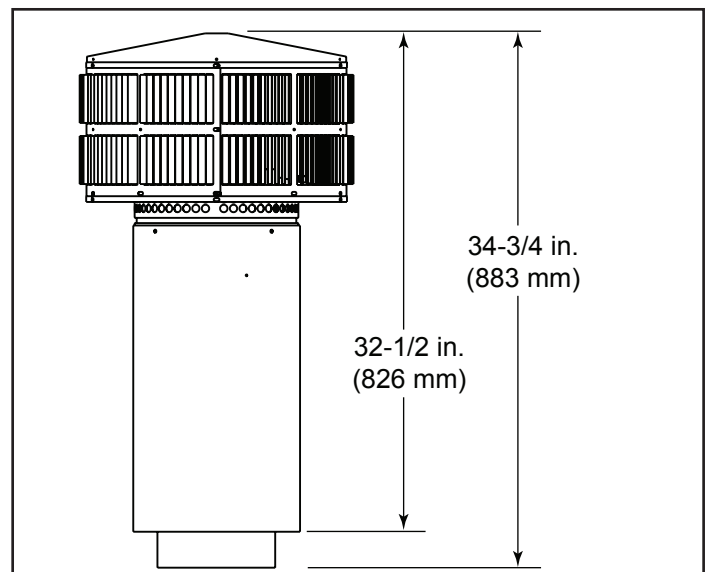


Figure 2 TR342 & TR11T

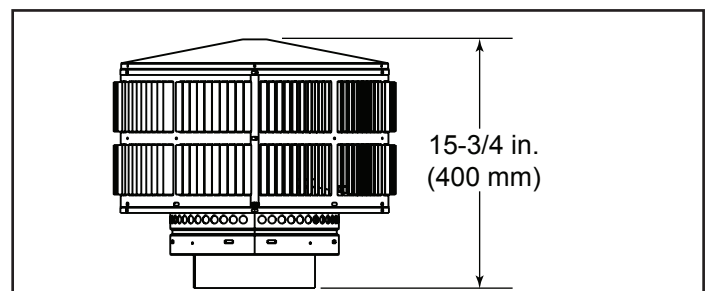


Figure 2 TR342 & TR11T

**WARNING! Risk of Fire!** You must maintain clearances to avoid overheating the chase structure.

- The TR Series cap must be raised to the minimum dimensions (or greater) above the shroud as shown in Figure 6.

A. Make sure the shroud will meet or exceed the minimum requirements for the termination cap you are going to install as shown in Figures 4-6.

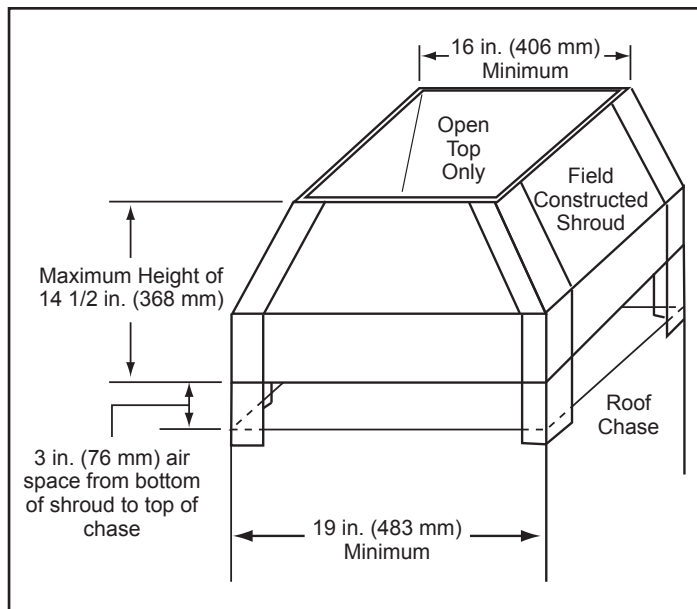


Figure 4 Minimum Dimensions of Shroud & Chase for TS345

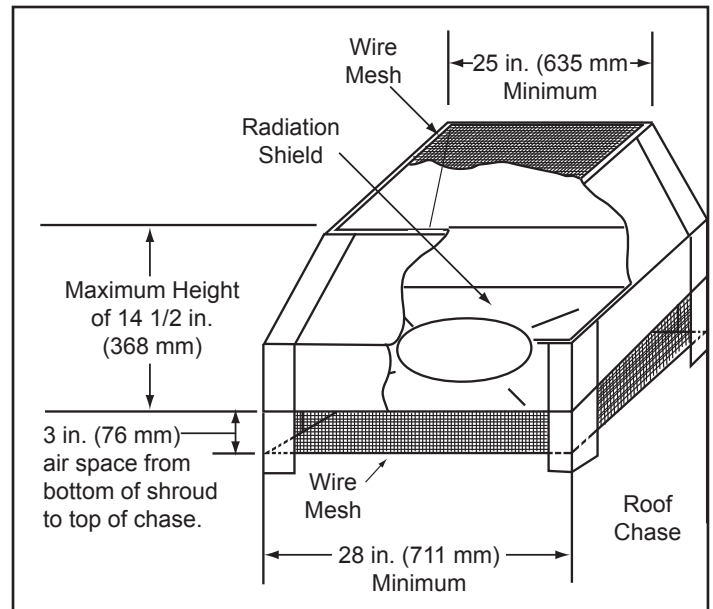


Figure 5 Minimum Dimensions of Shroud & Chase for TR Series Termination Caps

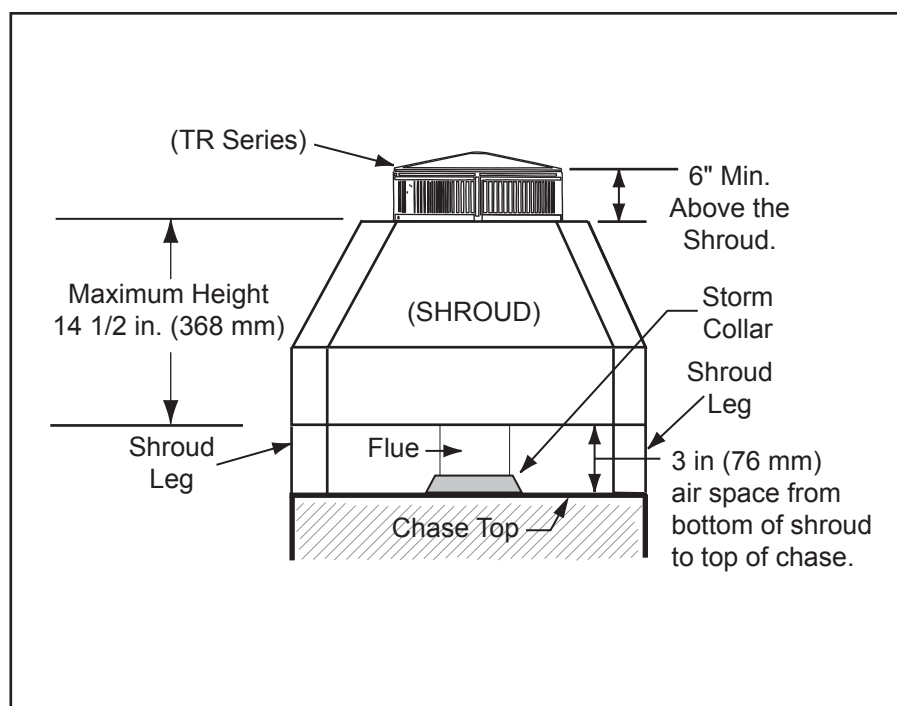


Figure 5 Shroud & TR Series cap with no Radiation Shield

- B. Determine if the legs will be secured to the side or the top of the chase. See Figures 7 and 8. Figures 9 and 10 illustrate how to prepare the legs for mounting the shroud to the chase top.

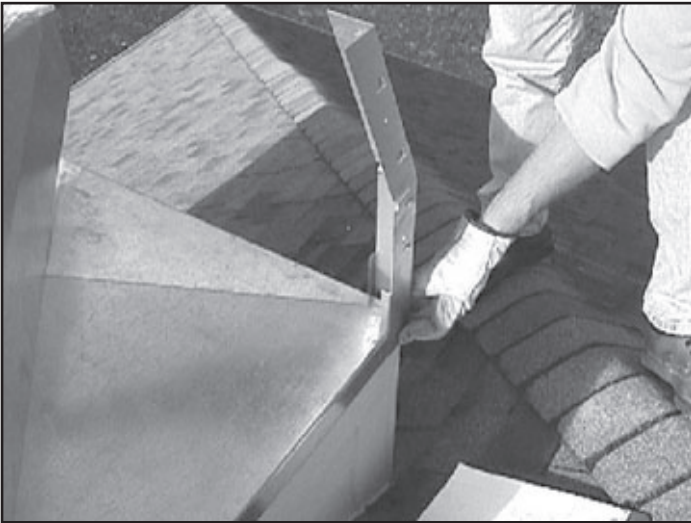


Figure 7 Secure the Legs - Side of Chase Top

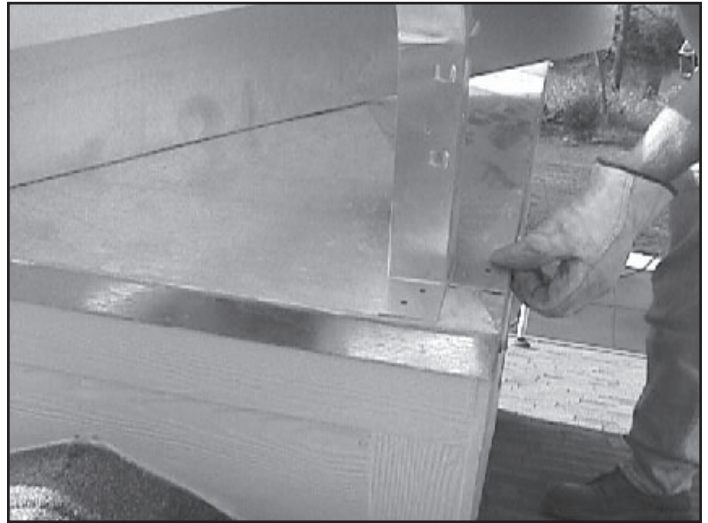


Figure 8 Secure the Legs - Top of Chase

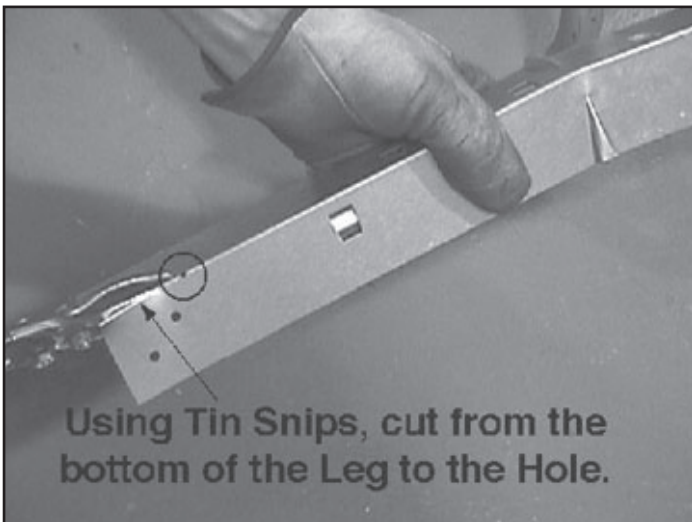


Figure 9 Cut Legs to Size

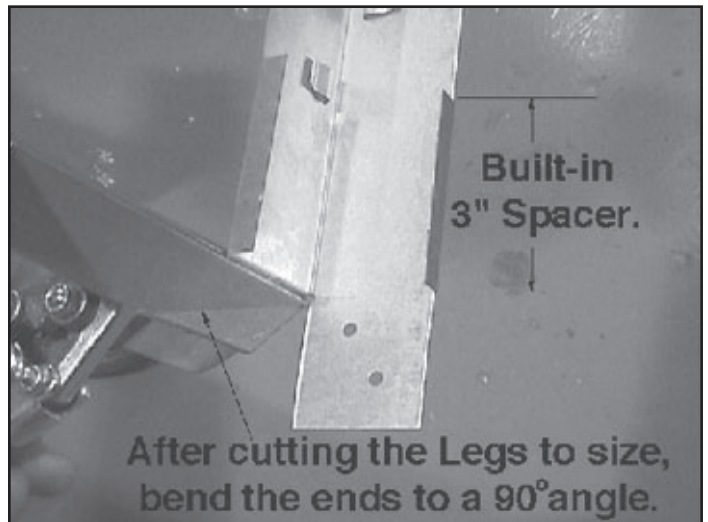


Figure 10 Bend Legs to Size

C. Measure the chase top to determine what size shroud is needed.

The shroud sides may be cut down to fit your specific size chase top. Measure the outside of the chase top then subtract that dimension from either 36 in., 48 in. or 72 in. (914 mm, 1219 mm, 1829 mm). That will give you the correct amount to cut off the shroud side.

**Example**” The chase measures 24 in. x 32 in. (610 mm x 813 mm), allowing you to use the LDS33. Subtract 24 in. from 36 in. = 12 in. (914.4 mm - 609.6 mm = 304.8 mm), and 32 in. from 36 in. = 4 in. (914.4 mm - 812.8 mm = 101.6 mm). This will tell you to cut 12 in. (305 mm) off of two sides and 4 in. (102 mm) off the other two sides.

Lay a shroud side on top of another side to use as a pattern to mark your cut line. See Figure 12.

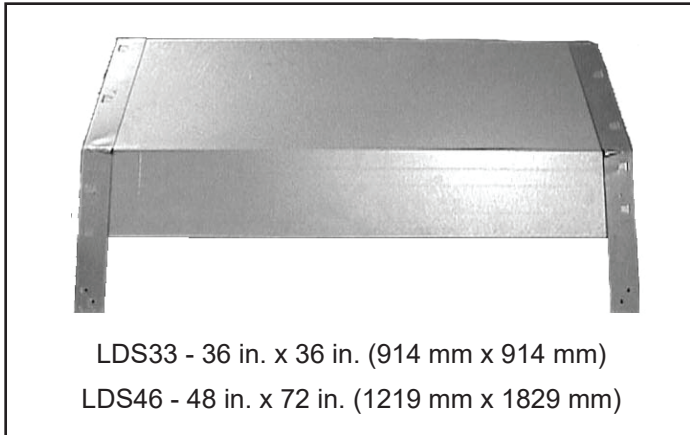


Figure 11 Shroud Sizing

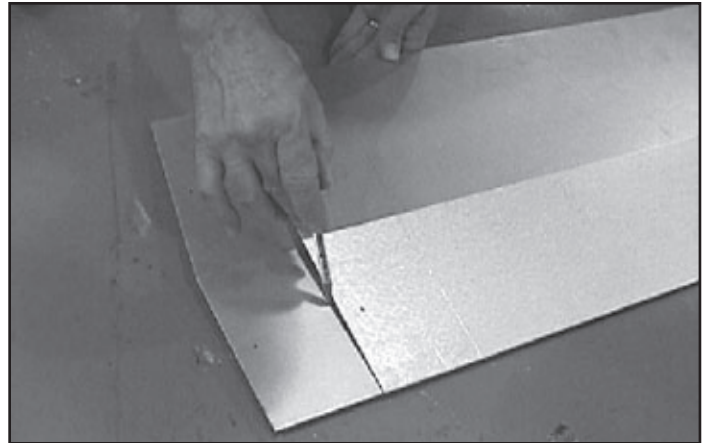


Figure 12 Mark the Cut

D. Multiple Chimneys in a Single Chase

If more than one fireplace chimney or gas appliance is terminated from a single chase and it is designed to use a decorative shroud, the following requirements must be maintained:

- A divider plate must be made and installed in the shroud to separate the different systems. This will help prevent one system that is in use from interacting with another system that may not be in use. See Figure 13.
- Using a minimum of .018 in. (.46 mm) aluminized steel, construct a plate that can be attached to the sides of the shroud to separate each termination cap. You should now be ready to assemble the shroud.

**Note:** If using the TS Series caps, NO divider plate is necessary.

- Assemble the legs to the shroud sides. Slide them together so that the sides engage into the clips on the legs. Fasten with screws where the holes line up. See Figures 14-16.

**Note:** If you cut down your sides, you will be missing the holes in one end. Just snap the leg on and use self-tapping screws through the holes in the legs.

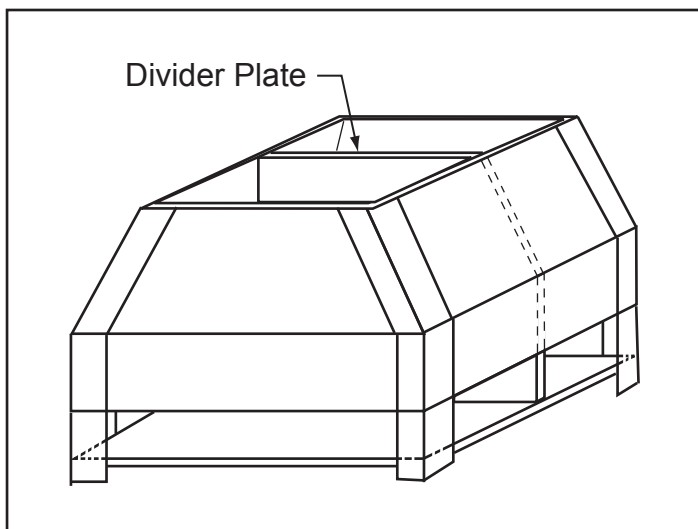


Figure 13 Divider Plate

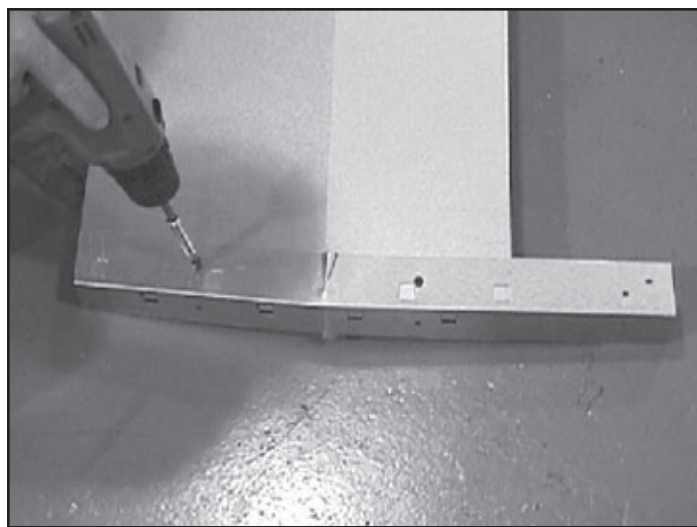


Figure 15 Secure/Screw Legs into Place

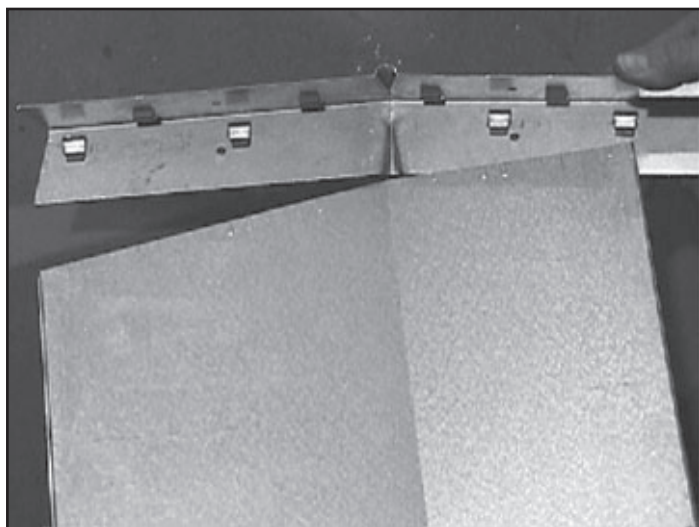


Figure 14 Snap Leg into Place

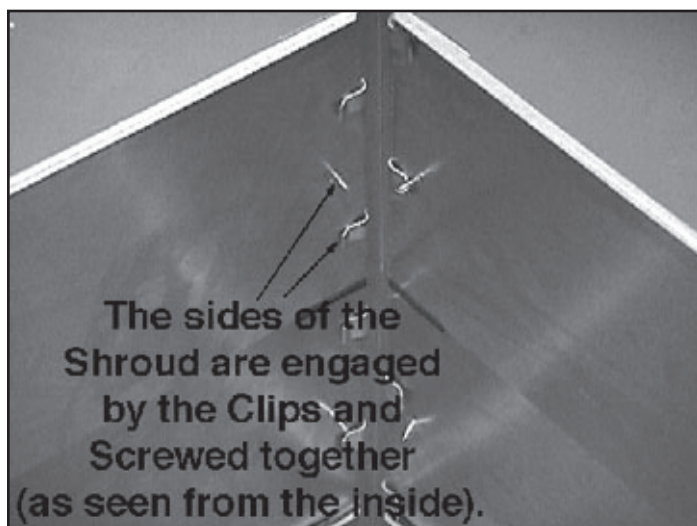


Figure 16 Shroud Clips & Screws



- Place the shroud over the termination cap(s) allowing the legs to attach to the side or top of the chase top. See Figure 18 for a view without shroud and Figures 19 and 20 for views with the shroud installed.
- If using a TR Series cap and you prefer that the cap doesn't stick out of the top of the shroud (as it does in Figure 6), use the following requirements (see Figure 17):

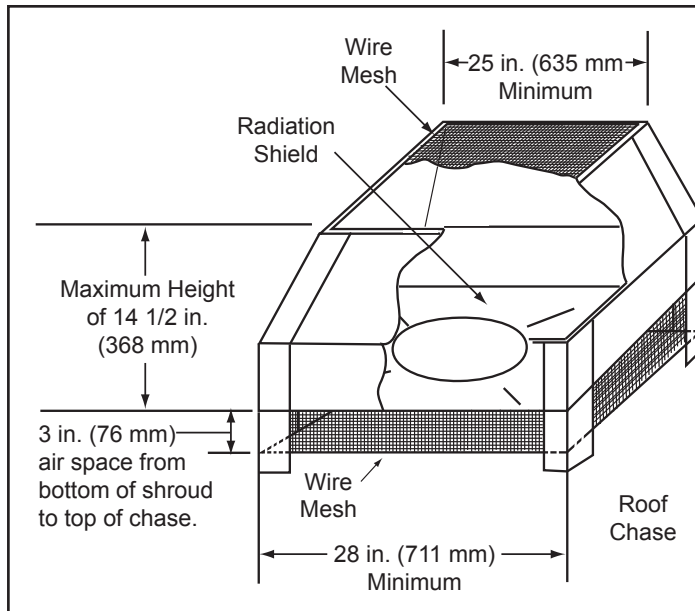


Figure 17 Cutaway View of Shroud with Radiation Shield & Wire Mesh

- Use a minimum of .018 in. (.46 mm) thick galvanized steel. Construct a bottom radiation shield that will fit in the shroud and rest on the bottom flanges.
- To place the radiation shield into the shroud, remove one side of the shroud. Lay the shield into the shroud and reinstall the shroud side. The radiation shield may be attached from the bottom side up.

**Note:** Cut a 17 1/2 in. (444.5 mm) diameter hole out of the center of the radiation shield to allow it to be installed around the termination cap.

- Secure radiation shield to flanges.
- Place shroud over termination cap and through radiation shield so shroud will rest on its legs.
- Wire mesh is recommended (but not required) to be placed over the top and around the 3 in. (76 mm) opening of the shroud. Use .018 in. (.46 mm) galvanized steel mesh with maximum 1/2 in. (13 mm) openings (or equivalent).
- Secure the shroud to the chase and caulk anywhere a leak may occur.



Figure 18 Chase Top Without Shroud



Figure 19 Shroud Attached to Top of Chase

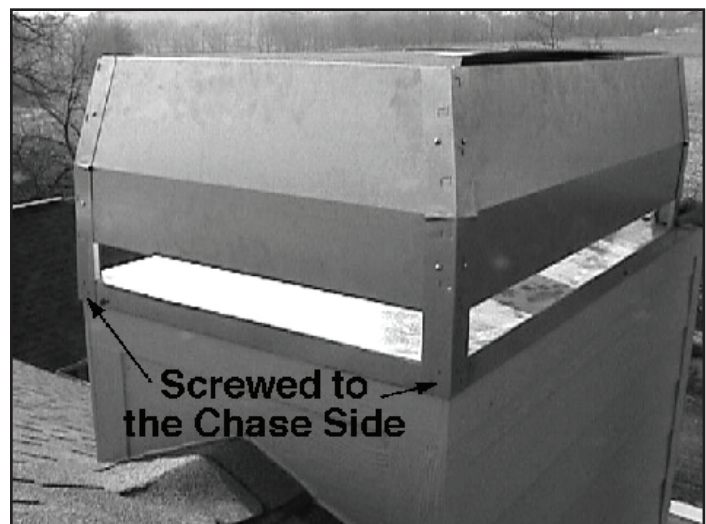


Figure 20 Shroud Attached to Sides of Chase

- When using an LDS46, you must install the adjustable wind braces, one at the top and one at the bottom of the shroud.
- Place the top brace in the center (or as close as possible) and secure it in place by screwing it to each side. See Figure 21.
- Screw the brace pieces together in order to maintain/secure the dimensions of the shroud. See Figure 22. The shroud with the top wind brace installed is shown in Figure 23.
- Install the second brace in the bottom of the shroud.

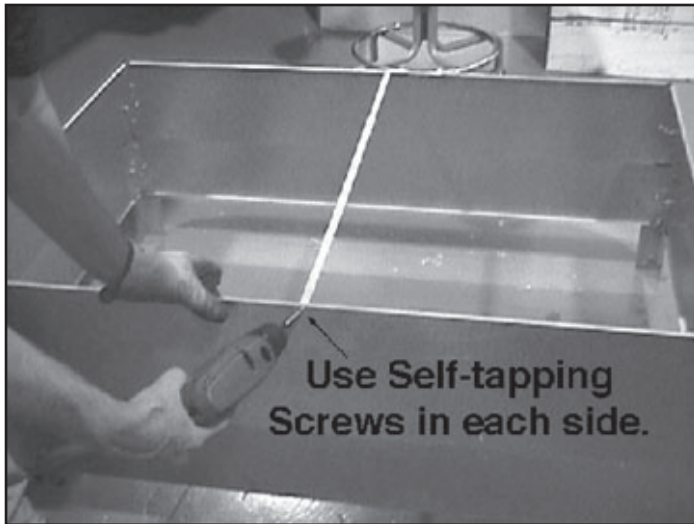


Figure 21 Attach Top Wind Brace to Shroud

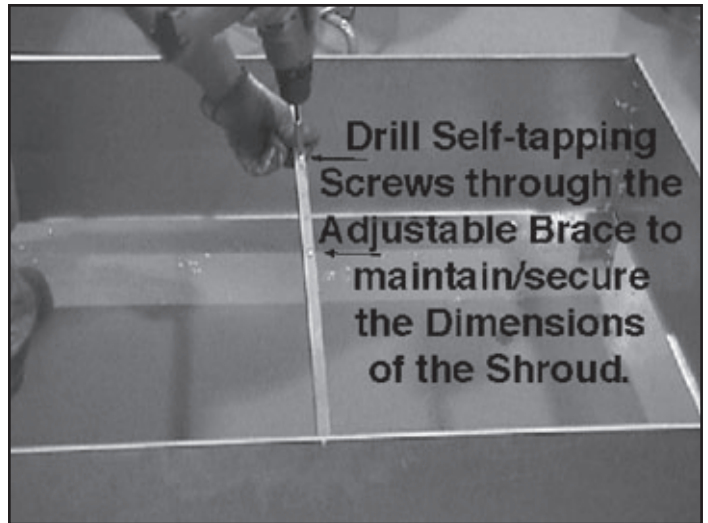


Figure 22 Secure Adjustable Brace

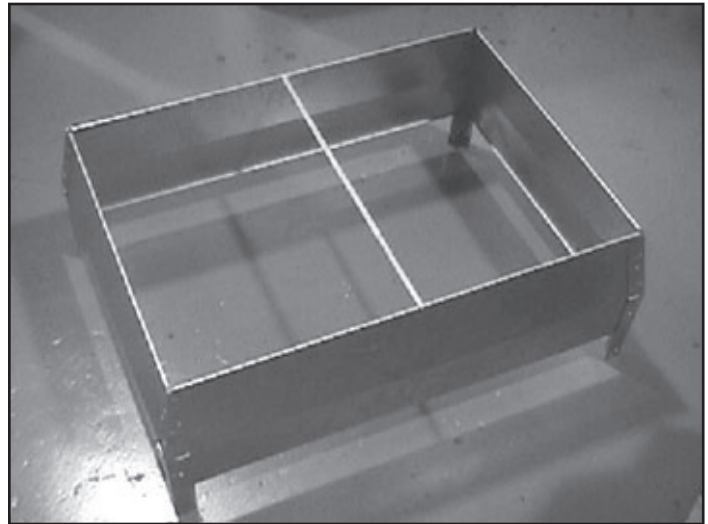


Figure 23 Shroud with Top Wind Brace Installed

## 2 LDS33/LDS46 Installation Around Direct Vent Gas Termination Caps

- The LDS33/LDS46 Decorative Shroud may also be used with the DVP-TV, DVP-TVHW or SLP-TVHW direct vent vertical termination caps (Figures 24-26).
- Minimum dimensions for the shroud are shown in Figure 27.
- After you have met or exceeded the minimum dimensional requirements, continue with Section 1.B.

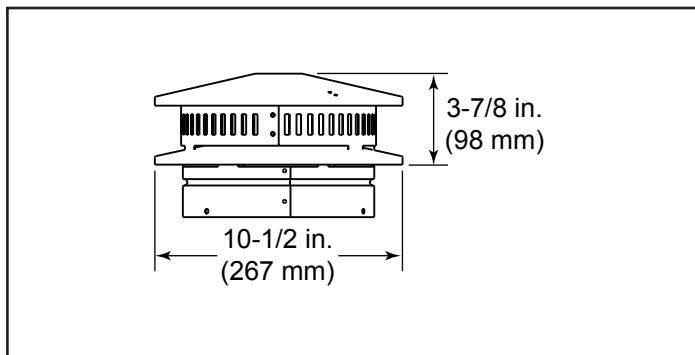


Figure 24 DVP-TV Direct Vent Vertical Termination Cap

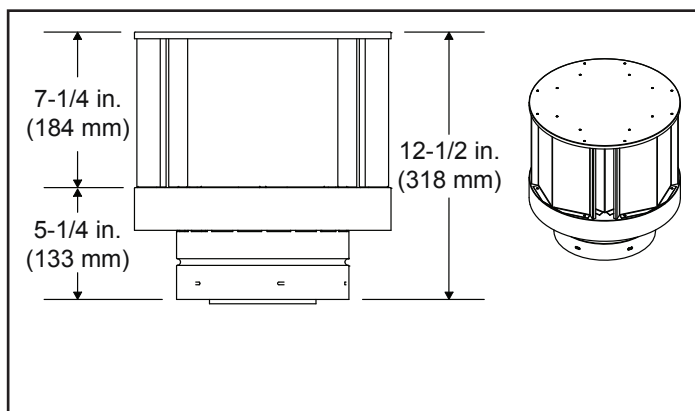


Figure 25 DVP-TVHW Direct Vent Vertical Termination Cap

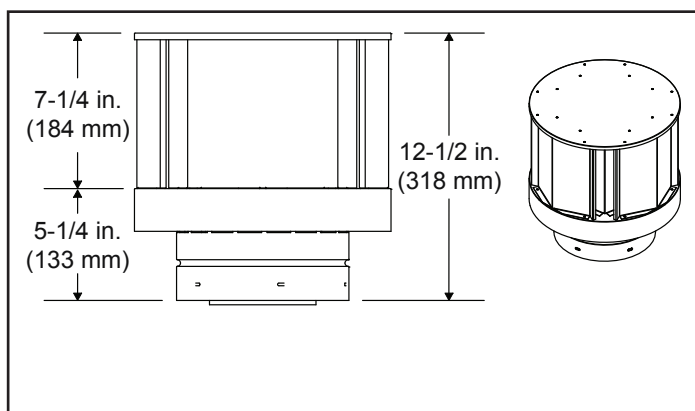


Figure 26 SLP-TVHW Direct Vent Vertical Termination Cap

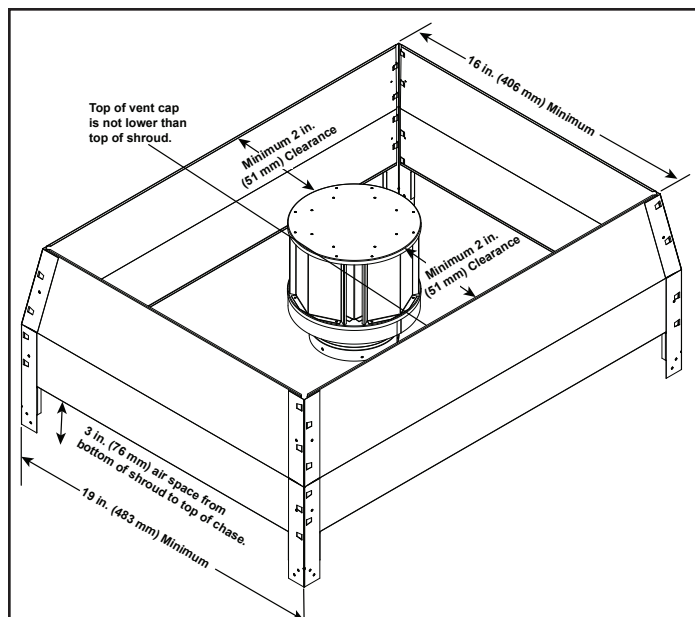


Figure 27 Minimum Dimensions of Shroud & Chase