How To Plan Your Chimney Installation

The following recommendations are a general guideline to assist in the layout and selection of the chimney components needed for your installation. Always follow DuraVent Installation instructions before installing your chimney system (enclosed with any support). Installation instructions can be viewed online at www.duravent.com under support > literature.

• The diameter of the chimney should match the exit size of the appliance. An improperly sized chimney results in poor draft and excessive creosote formation.

• Measure the diameter of the appliance flue outlet. Select the chimney and either DVL or DuraBlack connector stovepipe with the same size diameter as the appliance flue outlet.

• Determine if the installation is a through-the-roof installation or a through-the-wall installation. A through-the-wall installation will require additional components (Wall Thimble, Tee/Cap, Tee Support, Wall Straps, Flue Extension, and Decor Collar).

• Install the chimney in the interior of the structure whenever possible. A cold exterior chimney will produce less draft and will generate more creosote.

• If possible avoid offsets that serve to restrict the natural draft. A straight vertical installation is more efficient and less likely to develop creosote. If an offset is required to avoid rafter or other obstructions, measure the horizontal distance required and the vertical height available. 15°, 30° and 45° elbows are available. Elbows 45° or above are rarely needed in Canada. The maximum angle allowed in the U.S. is 30°. Maximum of two elbows. Elbow choices in a single installation are permitted. At least one suitable support if required for each offset.

• Determine the minimum chimney height above the roof line. Building codes require a minimum of 3' above the roof penetration and at least 2' higher than any portion of a building within 10'. See Figure 1. The termination cap is installed above that point. If chimney is more than 5' above the roof penetration a Roof Brace is required.

• Figure 1

• Measure the roof pitch. For example, a 6/12 pitch has a vertical rise of 6" over a horizontal distance of 12". Select the appropriate flashing.

• Determine the total length of chimney and stovepipe required for the installation. To calculate the installed length of 6"-8" DuraTech Premium chimney pipe, subtract 1" per joint. Subtract 1 ¼" per joint of DuraBlack stovepipe. Subtract 3/4" per joint of DVL stovepipe. Minimum chimney height, at sea level, of straight vertical chimney, is 10' to 15' above the appliance outlet. Higher elevations, or the use of elbows or a tee, will require approximately 30% to 60% more height to provide for an adequate draft.

• Be fire safe. Maintain at least 2" clearance to combustibles. Follow local building codes and have your chimney inspected by a certified professional.

Contact
Professional Technical Help
DuraVent prides itself on providing the best customer service and technical support in the industry.
Our Customer Support Team is available to answer installation questions.
Monday – Friday
5:30am – 4pm Pacific | 8:30am – 7pm Eastern
Tel 800-835-4429
Fax 707-446-4740
customerservice@duravent.com
technicalsupport@duravent.com

Leaders in-Venting Innovation

Safety and Precise Installations

DuraTech Premium chimney systems can be installed efficiently and precisely. The Adjustable Tee Support can be installed in many configurations to accommodate the support of the tee and chimney in many situations. The Adjustable Tee and Wall Band can also be adjusted 2-6" from the wall. Increased flexibility with chimney pipe that comes in lengths from 8 inches to 48 inches!
DuraTech® Premium

Approved by UL to UL 103HT and ULC S629 by Intertek.

Clearances

Applications

Test lock feature allows you to assemble DuraTech Premium quickly and precisely without the need for locking bands.

Designed for normal, continuous operation up to 1200°F (650°C) plus gas temperatures. DuraTech Premium meets the rigorous and stringent requirements of the ULC S629 standard, including one hour at 1700°F (925°C), plus three thirty minute chimney fire tests at 2100°F (1150°C).

Listings

Listed to UL, ITPHT and ITP S629 by Intertek.

Applications

2" of Mineral Fiber insulators encased between inner and outer walls of 0.08" Stainless Steel.

Clearances

4" to 8" for combustibles.

Listings

Listed to UL, ITPHT and ITP S629 by Intertek.

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