



All-fuel, double-wall chimney system.
UL 103 HT, UL 103, and ULC S604.



Support

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 technical questions.

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Specifications

Applications
 5”-8” DuraTech is a double-wall, all-fuel chimney system for use with wood stoves, fireplaces, furnaces, boilers, ranges, water heaters, or other appliances fueled by wood, oil, coal, or gas, and zero-clearance fireplaces that are factory-built.

Materials and Construction
 5”-8” diameter pipe features inner wall of .020” 430 stainless steel. Outer wall options of .016” 430 stainless steel or .021” galvalume steel. A Thermal Tech (ceramic refractory) blanket insulation is encased between walls. Stainless steel end rings seal the pipe.

Dura Tech features light weight insulation, twist-lock fittings, support boxes with factory installed starter sections, elbows with 360° swivel base, select black finish pipe lengths, and five foot length pipe sections.

Clearances
 2” clearance to combustibles.

Shrouds
 UL Listed with DuraVent shroud specifications. Information available online at www.duravent.com or call and request L157.

Diameters
 5”-8”

Listings
 c-UL-us Listed to UL 103 HT and ULC S604 (MH7399)
 (Stainless steel outer wall required for installation in Canada).

Chimney Safety

A double-wall all-fuel chimney for appliances fueled by wood, oil, coal, or gas.

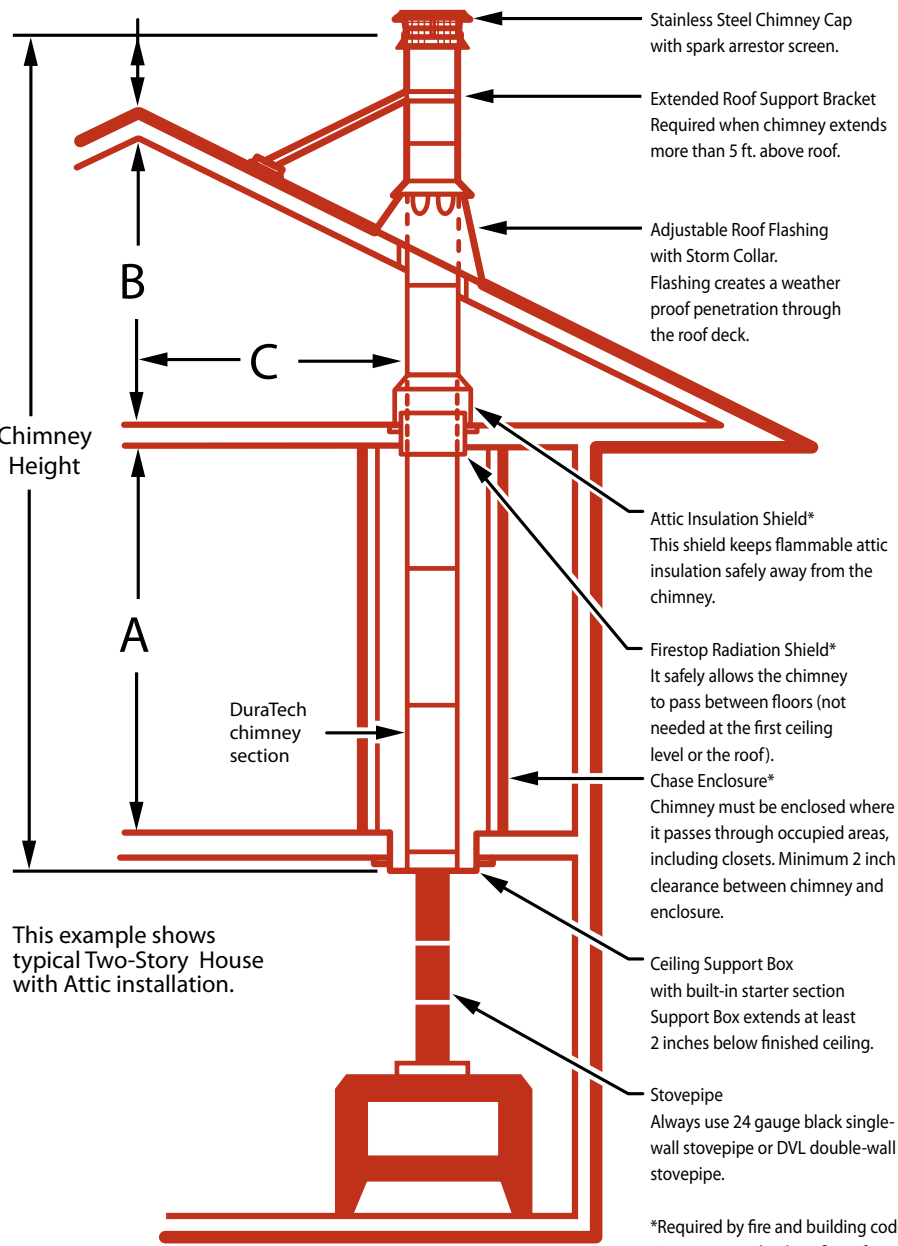
Designed to stay cool on the outside, to provide a hot draft on the inside, to boost stove efficiency, and to provide for a fire-safe design that protects both the chimney and the building. This double-wall chimney features two insulating layers (ceramic blanket, plus air space). The ceramic blanket insulation is held securely in position, eliminating hot spots common with loose-fill blanket insulations. In the event of a creosote fire, the compressible blanket insulation permits the chimney liner to expand outwards in a radial direction.

DuraVent's DuraTech for wood-burning stoves is built with a stainless or aluminized steel outer wall and a stainless steel inner liner. It is insulated with a ceramic blanket insulation. DuraVent's unique twist-lock design requires no tools and is easy to install, providing an exceptionally firm and tight connection.



How Many Lengths Will You Need?

Penetration through the roof needs to be 3-ft minimum. In addition, pipe must also be at least 2-ft higher than any portion of the building within 10-ft of it.



- 1 Assume A = 8 ft., B = 5 ft. and C = 4 ft. Chimney must extend above the roofline at least 3 ft. and at least 2 ft. higher than the roof peak if within 10 ft.
- 2 To get chimney height: A+B+C = 15 ft., plus 4 in. (attic floor thickness), plus 4 in. (ceiling thickness), plus 2 in. (chimney support box extends 2 in. below ceiling). Total: 16 ft.-3 in. or 195 in.
- 3 195 in. minus 3 in. = 192 in. of chimney sections needed. (3 in. is length of starter section).
- 4 Now divide 192 by 58.50 in. (installed length of a 60in. chimney section) Result: 3.28. (3) x 60" sections.
- 5 You can't buy .28 in of chimney section. A .28 in. is close to 12" so (1) 12" section would be needed.
- 6 Result: You need (3) 60" and (1) 12" section of chimney pipe.

*Required by fire and building codes. Does not need to be a fire safe construction.

Your Installation

- Step 1.** Measure the diameter of the appliance flue outlet. Select chimney and DVL, or DuraBlack stovepipe, with the same size flue dimension as the appliance. For fireplace installations, refer to the sizing chart in the back of this catalog.
- Step 2.** 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. See Figure 1.
- Step 3.** 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.
- Step 4.** If an offset is required to avoid rafters or other obstructions, measure the horizontal distance required and the vertical height available. Both 15° and 30° elbows are available. Please note that 45° elbows are not allowed in the United States. Refer to the offset tables in the back of this catalog. Use elbow straps to ensure adequate support. See Figure 2.
- Step 5.** Determine the total length of chimney and stovepipe required for the installation. To calculate the installed per length of 5" - 8" diameter DuraTech pipe, subtract 1 1/4" per joint. For 10" - 16" diameter lengths, subtract 3/4" per joint of pipe. Subtract 1 1/4" per joint of DuraBlack stovepipe. Subtract 1 1/2" per joint of DVL close clearance pipe. Minimum chimney height, at sea level for a 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.

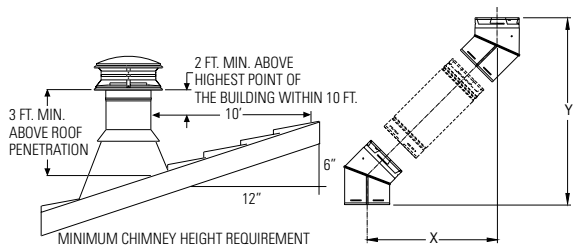
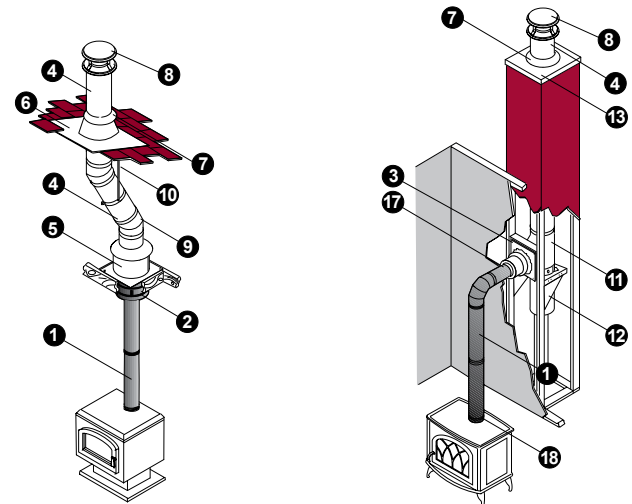


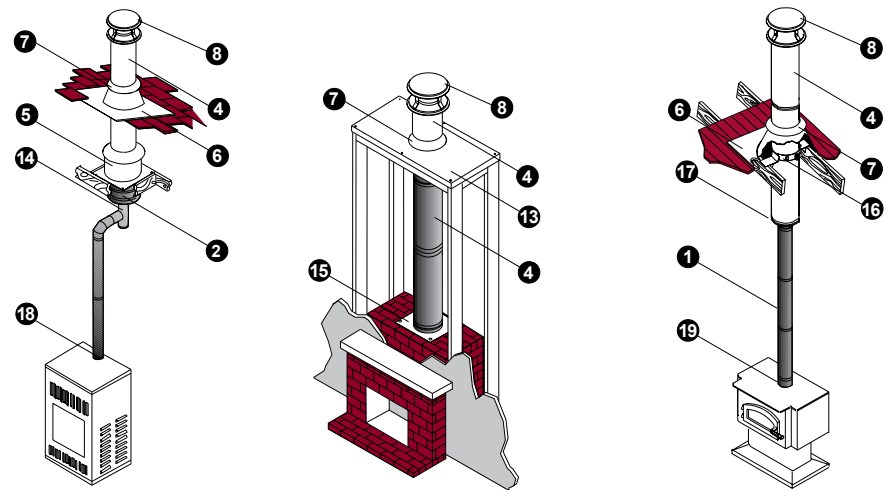
Figure 1

Figure 2



Attic Offset

Through-the-Wall



Oil Furnace

Fireplace

Cathedral Ceiling

- DVL/DuraBlack Chimney Adapter must be used when connecting DVL pipe to a Ceiling Support Box or Finishing Collar. When connecting DuraBlack pipe, a DVL/DuraBlack Chimney Adapter, DuraBlack Slip Connector, or Snap-Lock Adapter must be used.
- Wall Thimble must be installed with an appropriate length of chimney pipe for all horizontal through-the-wall installations. To accommodate thicker walls, the telescoping pieces of the Wall Thimble can be separated, and a field-fabricated extension may be installed.
- Attic Insulation Shield must be used in all installations that pass through an attic, regardless of whether the attic is insulated or not.
- Firestop Radiation Shield must be used when a chimney passes through a floor or ceiling without a support box.

1	DVL or DuraBlack
2	Ceiling Support Box
3	Wall Thimble
4	Chimney Pipe
5	Attic Insulation Shield
6	Flashing
7	Storm Collar
8	Chimney Cap
9	Elbow
10	Elbow Strap
11	Tee with Tee Cap
12	Tee Support
13	Chase Top Flashing
14	Base Tee / Double Tee
15	Anchor Plate
16	Roof Support
17	Finishing Collar
18	DVL Adapter, DuraBlack Slip Connector, or Snap-Lock Adapter
19	Stove Adapter

DuraTech® Chimney Installation

The following is a brief overview of a typical installation. Detailed installation instructions can be found at www.duravent.com.



1. Drop a plumb line to center of stove flue collar. Mark center point on ceiling, and cut and frame a 14 1/2" square opening around this center point.



2. Slide the chimney support box into the framed opening from below, and level it. At least 2" of the box should extend below finished ceiling.



3. Nail the chimney support box to the framed opening from above. Use at least two 8 penny nails on each side.



4. Screw the support box trim to the ceiling.



5. Lower the first chimney section over short piece of pipe in the bottom of the support box. Push together and twist to lock.



6. Slip insulation shield over chimney until base sits squarely on framed opening or nests in the support box. Nail to opening or screw to box.



7. Wrap insulation shield collar around chimney. Slide it down to the shield.



8. Drop a plumb line from roof to center of chimney. This establishes the centerpoint for cutting a round hole through the roof.



9. Hole in roof must provide at least a 2" clearance all around the chimney. Add more chimney sections, and twist to lock.



10. Complete the chimney installation above the roof by adding more chimney sections. Make sure the chimney is plumb.



11. Slip the flashing over the roof hole so the top edge is under the shingles above. Nail the flashing to the roof across the top and down 1/2 each side. Seal flashing and nailheads with weatherizing sealant.



12. Add more chimney sections until chimney is at least 3 ft above roof, and at least 2 ft above any part of your house within 10 ft.



13. Apply high temperature silicone sealant where storm collar will meet chimney. Slip storm collar around chimney and slide down. Seal with high temperature silicone sealant.



14. Support the chimney with an Extended Roof Bracket.



15. Press chimney cap into the last section of pipe. To clean remove the (4) screws and brush the inner sleeve.