

Installation

How To Plan Your Chimney 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.
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. 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. 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.

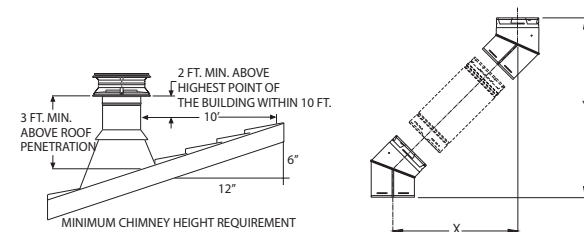


Figure 1

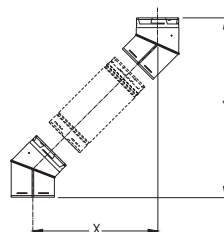
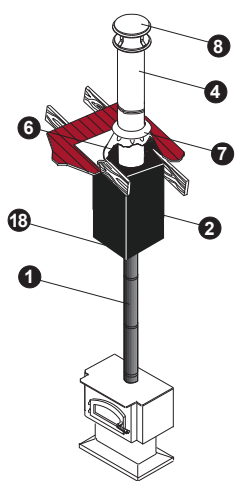
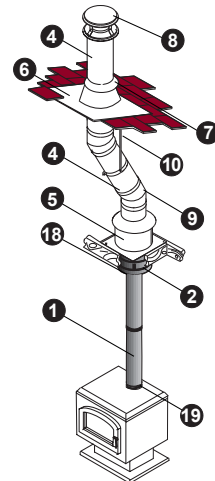


Figure 2

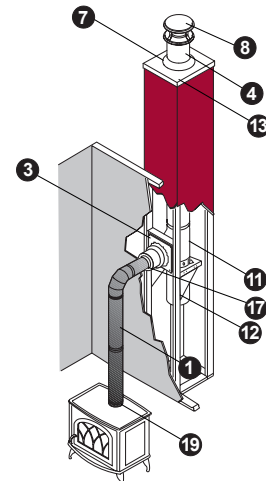
Typical Installations



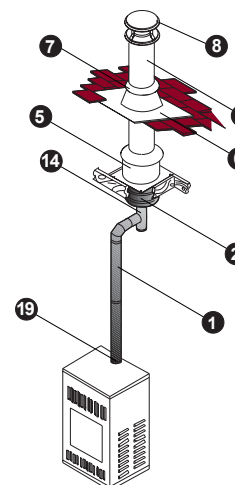
Cathedral Ceiling w/ Support Box



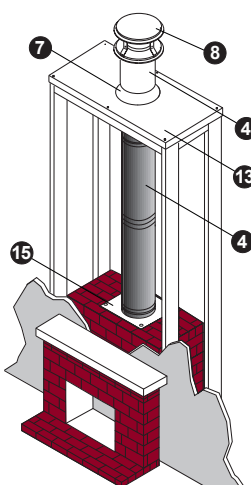
Attic Offset



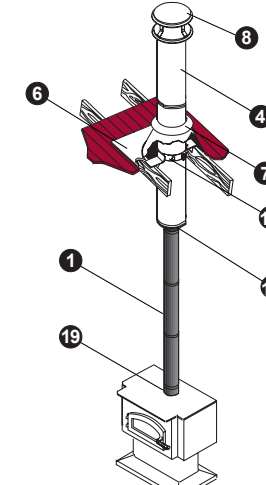
Through-the-Wall



Oil Furnace



Fireplace (New or retrofit)



Cathedral Ceiling

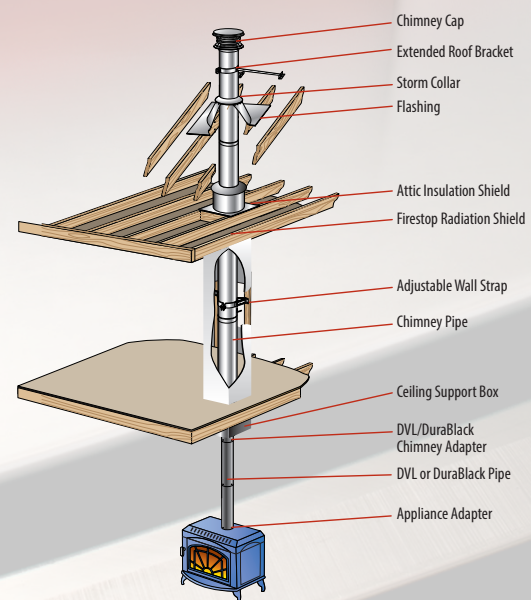
DuraTech	
1	DVL or DuraBlack
2	Ceiling Support
3	Wall Thimble
4	Chimney Pipe
5	Attic Insulation Shield
6	Flashing
7	Storm Collar
8	Chimney Cap
9	Elbow
10	Elbow Strap
11	Tee with Tee Cap
12	Tee Support
13	Chase Top Flashing
14	Base Tee / Double Tee
15	Anchor Plate or Anchor Plate with Damper
16	Roof Support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

- 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.

How It Works

The chimney system allows your stove or fireplace to exhaust flue gases while a draft creates the draw that pulls fresh combustion air into the stove. A well balanced system provides an even, hot fire when it has good draft. The draft suction keeps smoke from coming into the room. Insulation in the chimney pipe is important because it helps keep the exhaust hot until it is expelled outside. Heat in the chimney makes draft, which pulls in more combustion air. This creates a hotter fire, delivering more heat to the chimney, resulting in more draft. The size of the flue is important for the system to work efficiently. The appliance manufacturers installation instructions will indicate how to size the flue to match the stoves flue collar.

Stovepipe connects to the stove. It is the usually black interior pipe that transitions from the stove to the chimney pipe with an adapter. It is not insulated and cannot penetrate ceilings or walls. Chimney pipe is an insulated pipe that is rated to pass through walls and ceilings. In addition to the chimney pipe, supports to hold the system in place, and shields to protect areas from combusting, are needed for the system. The flashing, storm collar and chimney cap are required to seal the system from moisture penetration.



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 technical questions.

Monday – Friday
5:30am – 4pm PST | 8:30am – 7pm EST

Tel: 800-835-4429
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DuraTech®
All-fuel, double-wall
chimney system.
UL 103 HT, UL 103 and
ULC S604.

DuraTech®

DuraVent®

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 (refractory) blanket insulation is encased between walls. Stainless steel end rings seal the pipe.

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

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 oil-burning installations in Canada).



DuraTech 5"-8"


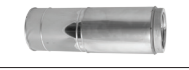



With a Thermal Tech blanket insulation encased between dual walls, DuraTech offers the optimum in safety and performance. It keeps the outer wall of the chimney cool while ensuring high flue gas temperatures for optimum draft performance.





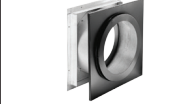




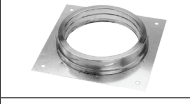

The inner wall is 25% thicker than competitive chimneys for an extra margin of safety. No locking bands or mechanical fasteners required.









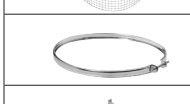
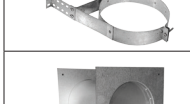


DuraTech's sleek 1" wall design provides for easy installations through 16" on-center framing. For tight installations, a Reduced Clearance Square Ceiling Support Box is available (6" diameter DuraTech only).

Designed for normal, continuous operation at 1000° F flue gas temperatures, DuraTech is subjected to rigorous and stringent high temperature requirements of the standard UL 103 HT.

Product List

	Chimney Pipe 5" to 8" diameters. Stainless steel inner walls. Outer-casing in galvalume or stainless steel. 6", 9", and 12" lengths available in black outer-casings.
	Adjustable Pipe Use to add length to chimney. Adjusts from 14"-21".
	Elbow Kit Kit includes: 2 elbows and 1 elbow strap. 15° or 30° elbows swivel on 5" to 8" diameters. Stainless steel inner wall. Outer-casing available in stainless steel and galvalume.
	Adjustable Elbow Strap Used to support the chimney where an offset is required.
	Square Ceiling Support Box Supports up to 60 ft. of chimney. Use with flat or cathedral ceilings, in 11", 24" or 36" lengths. Includes trim collar.
	Reduced Clearance Square Ceiling Support Box Supports up to 60 ft. of chimney. Fits between standard 12" on center joists and most manufactured home applications. Use with flat or cathedral ceilings, in 24" lengths. Includes trim collar.
	Combustion Air Square Ceiling Support Box Supports chimney pipe and provides a positive connection between support box and chimney with a built-in twist-lock.
	Square Ceiling Support Box w/ Collar Supports up to 40' of chimney.
	Reduced Square Ceiling Support Box w/ Collar Supports up to 40' of chimney.
	Round Ceiling Support Box 5 - 8" diameters support up to 60 ft. of chimney. Use only for a flat ceiling.
	Trim Collar for Round Support Box Conceals the gap between the round ceiling support box and the ceiling cutout. Round or square.

	Flat Ceiling Support Box Designed for installation in flat ceilings only. Supports up to 60 ft. of chimney.
	Adjustable Roof Support Supports DuraTech chimney and allows it to extend down from the ceiling. Adjustable to different roof pitches. Supports up to a maximum total chimney length of 45' above and 20' chimney below Roof Support.
	Support Box Rails Attach to outside of Square Ceiling Support Box to provide level, temporary support. Simplifies installation.
	Trim Collar Conceals gap between chimney pipe and ceiling cut-out.
	Wall Thimble For passing chimney through a wall.
	Combustion Air Wall Thimble A direct vent for bringing fresh outside air for combustion through an air channel in wall thimble to appliance without cutting a second hole into the wall.
	Standard Tee w/ Cap For through-the-wall installations.
	Adjustable Tee Support Bracket Use as a wall support for tee and chimney. Use of straps is optional. Supports up to 50' of DuraTech Chimney without straps, and 70' of DuraTech Chimney with straps.
	Finishing Collar Decorative piece. Finishes off the end of DuraTech pipe. Provides proper connection to DVL/DuraBlack stovepipes. No other adapter is needed.
	Anchor Plate Use to attach DuraTech Chimney to an appliance or masonry fireplace.
	Transition Anchor Plate Provides easy installation of DuraLiner to DuraTech chimney when used with a slip connector and hanger.

	Firestop Radiation Shield Install when chimney passes through a floor or ceiling without a support box.
	Attic Insulation Shield Required if chimney passes through an attic.
	Roof Radiation Shield Optional. Install where a chimney passes through a roof. Required for some zero clearance fireplaces.
	Chase Top Flashing Encloses the top of a chase while providing ventilation air passage to the chase.
	Storm Collar Fits over flashing to provide a water tight seal.
	Adjustable Extended Roof Bracket Supports chimney above roof. Required every 5 ft. for 5 - 8" chimney.
	Roof Flashings Use with a Storm Collar to weather proof the penetration of chimney pipe through the roof. Flat or adjustable. Also available in dead soft aluminum.
	Chimney Cap Keeps rain, snow, and leaves out of chimney. Spark arrestor screen included.
	Spark Arrestor Use on inside of cap.
	Locking Band Extra security at pipe, elbow and tee joints. Optional.
	Adjustable Wall Strap Use to support chimney. 5 - 8" required every 8 ft.
	Chase Air Intake w/ Rodent Guard Allows required ventilation air into chase. Screen keeps rodents out.
	Snow Splitter Use to divert snow around chimney, vent, and roof flashing. Constructed of paintable galvanized material.

What Makes Us Different From The Rest?

DuraTech: The optimum in safety and performance for an all-fuel chimney.

- Wide variety of diameters available.
- Most lengths available.
- Twist-lock fittings. No locking bands or mechanical fasteners required.
- Made by the industry leader with over 50 years of manufacturing.
- Thermal Tech blanket insulation encased between two walls keeps the outer wall cool while ensuring high flue gas temperatures for optimum draft performance.
- Available with stainless or galvalume outer walls.
- Limited Lifetime Warranty

