### Installations

**Typical Installations**

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<tr>
<th>Step 1. Determine the minimum chimney height above the roof line. Building codes require a minimum of 3’ above the roof penetration, at least 2’ higher than any portion of a building within 10’.</th>
<th>Figure 1</th>
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<tr>
<td>Step 2. 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.</td>
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<td>Step 3. Determine the total length of chimney and stovepipe required for each offset. Elbow Straps ensure adequate support. Both 15° and 30° elbows are available. Please note that 45° elbows will require approximately 30% to 60% more height and horizontal distance required and the vertical height available. If an offset is required to avoid rafters or other obstructions, measure the horizontal distance required and the vertical height available. See Figure 1.</td>
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<tr>
<td>Step 4. Roof Penetration Height from 3 FT. MINIMUM for the installation. To calculate the installed per length of 6”-8” chimney system. Aistle for your system to work efficiently.</td>
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<tr>
<td>Step 5. How To Plan Your Chimney Installation</td>
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### 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 and 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 stove flue collar.

Stovepipe connects to the stove. It is the usually black interior pipe that transitions from the stove to the chimney system. This pipe cannot penetrate ceilings or walls. Chimney pipe is an insulated pipe that is rated to pass through insulated 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 penetrations.

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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800.835.4429 | 707.446.4740 Fax | www.duravent.com

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**Figure 1**

- **Manufactured Home**: VT (stovepipe) penetrates the insulation.
- **Attic Offset**: Through-the-Wall
- **Through the Wall**: Chimney Cap
- **Through the Ceiling**: Elbow Strap, Snap-Lock Adapter, DVL/DuraBlack Chimney Adapter, DuraBlack Slip Connector
- **Through the Wall – Distance to DuraPlus Chimney Adapter**: 4" (where an outside connection is made), 12" (for the inside connection) and 17.5" for the appliance flue. Higher elevations, or the use of elevations, will require an outside connection approximately 17.5", with a minimum height of 12" when the appliance flue penetrates the wall or roof.

**DuraVent® All-fuel, triple-wall chimney system. UL 103 HT.**

### DuraPlus®

- **DuraPlus Chimney Pipe**: UL 103 HT.
- **Attic Insulation Shield**
- **Wall Thimble**
- **Snap-Lock Adapter, DVL/DuraBlack Chimney Adapter, DuraBlack Slip Connector**
- **Thimble**
- **DVL or DuraBlack Stovepipe**
- **Wall Strap, Tee Support Bracket, Tee Support Bracket, Tee with Cap, Elbow Strap, DVL or DuraBlack Tee, DVL or DuraBlack Elbow, DVL or DuraBlack Chimney Adapter, DuraBlack Slip Connector**
- **Firestop Radiation Shield**
- **Chimney Cap**
- **Roof Flashing**
- **Roof Bracket**
- **Roof Support**
- **Cathedral Ceiling**
- **Ceiling Support Box**
- **Roof Penetration**
- **Attic Offset**
- **Through the Wall**
- **Through the Ceiling**
- **Manufactured Home**
- **VT (stovepipe) penetrates the insulation.**

**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 and 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 stove flue collar.

- Stovepipe connects to the stove. It is the usually black interior pipe that transitions from the stove to the chimney system. This pipe cannot penetrate ceilings or walls. Chimney pipe is an insulated pipe that is rated to pass through insulated 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 penetrations.

**How To Plan Your Chimney Installation**

- Step 1. Determine the minimum chimney height above the roof line. Building codes require a minimum of 3’ above the roof penetration, at least 2’ higher than any portion of a building within 10’.

- Step 2. 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.

- Step 3. Determine the total length of chimney and stovepipe required for each offset. Elbow Straps ensure adequate support. Both 15° and 30° elbows are available. Please note that 45° elbows will require approximately 30% to 60% more height and horizontal distance required and the vertical height available. If an offset is required to avoid rafters or other obstructions, measure the horizontal distance required and the vertical height available.

- Step 4. Roof Penetration Height from 3 FT. MINIMUM for the installation. To calculate the installed per length of 6”-8” chimney system. Aistle for your system to work efficiently.

- Step 5. How To Plan Your Chimney Installation
DuraPlus® is designed to stay cool on the outside, to provide a short draft on the inside, to boost stove efficiency, and to provide for a file safe design that protects both the chimney and the building. The triple-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 fit type insulations. In the event of a creosote fire, the compressible blanket insulation prevents the chimney liner to expand currently in a radial direction. Designed for normal, continuous operation at 1000°F flue gas temperatures, DuraPlus is subjected to rigorous and stringent HT requirements of the UL standard, including one hour at 1400°F, plus three ten minute chimney fires. DuraPlus® tests at 2100°F one hour at 1400°F, plus three ten minute chimney firestringent HT requirements of the UL standard, including

DuraPlus Chimney is a triple-wall, all-fuel chimney for use with wood stoves, fireplaces, furnaces, boilers, stoves, ranges, water heaters, or other appliances fueled by wood, oil, coal, or gas. DuraPlus® is subjected to rigorous and stringent HT requirements of the UL standard, including one hour at 1400°F, plus three fifteen minute chimney fires. DuraPlus® tests at 2100°F one hour at 1400°F, plus three ten minute chimney fire

What Makes Us Different

- Locks tightly with a precision twist-lock connection.
- Insulated layers of ceramic blanket plus ventilated air space. Locks tightly with a precision twist-lock connection.

Clearances

- Diameters
- 2" clearance to combustibles.

Materials and Construction

- 304/316 stainless steel outer wall or 318 galvanized steel outer wall.
- 316 stainless steel outer liner.
- Insulated layers of ceramic blanket plus ventilated air space.

Applications

- DuraPlus Chimney is triple-wall, all-fuel chimney for use with wood stoves, fireplaces, furnaces, boilers, stoves, ranges, water heaters, or other appliances fueled by wood, oil, coal, or gas.

Product List

- DuraPlus® Manufactured Home Kit
  - DVL/DuraBlack Chimney Adapter, Snap-Trim collar.
  - 2 boxing Collar, Storm Collar, and (2) 24" DuraPlus Chimney Pipe (galvanized)
  - Wall Thimble (galvanized or stainless steel)
  - Round Ceiling Support (6"-8"")
  - Attic Insulation Shield (6" diameter)

- DuraPlus® Home Kit
  - DVL/DuraBlack Adapter, 24" Square Ceiling Cap, Storm Collar, and (2) 24" DuraPlus Chimney Pipe (galvanized)
  - Wall Thimble (galvanized or stainless steel)
  - Round Ceiling Support (6"-8"")
  - Attic Insulation Shield (6" diameter)

- Round Ceiling Support
  - Supports up to 35 ft. of DuraPlus Chimney. Includes trim collar. Use in interior or exterior installations to support and to stabilize the chimney while assuring a 2" clearance.

- Starter Section
  - Provides easy installation of DuraLiner to DuraPlus chimney directly off the unit. Starter Section built in.

- Elbow Kit
  - Kit includes: 2 Elbows and 1 Elbow Strap. 15° or 30° elbows swivel 360° at base.

- Base Plate
  - Designed for installation in flat ceilings only. Supports up to 35' of DuraPlus Chimney. Includes trim collar. Use only when converting from DuraLiner to DuraPlus and when used with a slip connector and hanger.

- Elbow Strap
  - Use to prevent excessive weight on the elbows by supporting the weight of the chimney. Required to be installed between support box and chimney with a built-in twist-lock.

- Wall Straps
  - Use to support the chimney when it extends more than 4' above the roof line. Requires mechanical or fasteners required every 4' on exterior of building only.

- Attic Thimble
  - Designed for installation in flat ceilings only. Supports up to 35' of chimney. Use with DuraPlus flashing to create a weatherproof chimney connection.

- Starter Section
  - Provides easy installation of DuraLiner to DuraPlus chimney directly off the unit. Starter Section built in.

- Close Clearance Shield
  - Required for installations that pass through an attic to attain normal 2" minimum clearance to roof trusses or rafters. Close Clearance Shield

- Reduce Clearances
  - Use to increase minimum clearance and to safely install the chimney in a confined area. Requires mechanical or fasteners required every 4' on exterior of building.

- Telescoping Tee Support Bracket
  - Required with DuraPlus flashing to create a weatherproof chimney connection. Use to support the chimney when it extends more than 4' above the roof line. Requires mechanical or fasteners required every 4' on exterior of building.

- Starter Section
  - Provides easy installation of DuraLiner to DuraPlus chimney directly off the unit. Starter Section built in.

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