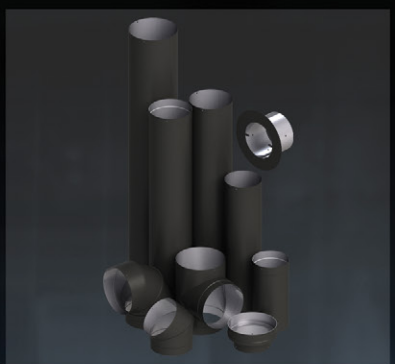
# PREMIUM

## CHIMNEY SYSTEMS

FOR PROFESSIONAL INSTALLERS

EXCEL

ULTRABlack

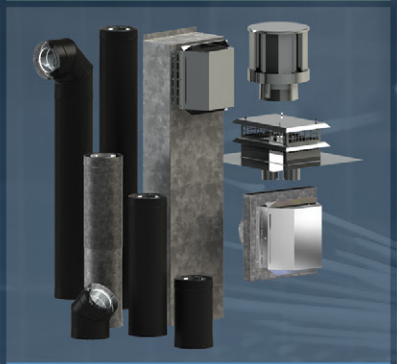


EXCELPrime

EXCELiner

Model RIS

EXCELPellet



EXCELDirect®

EXCELDirect® 3/5 DPV

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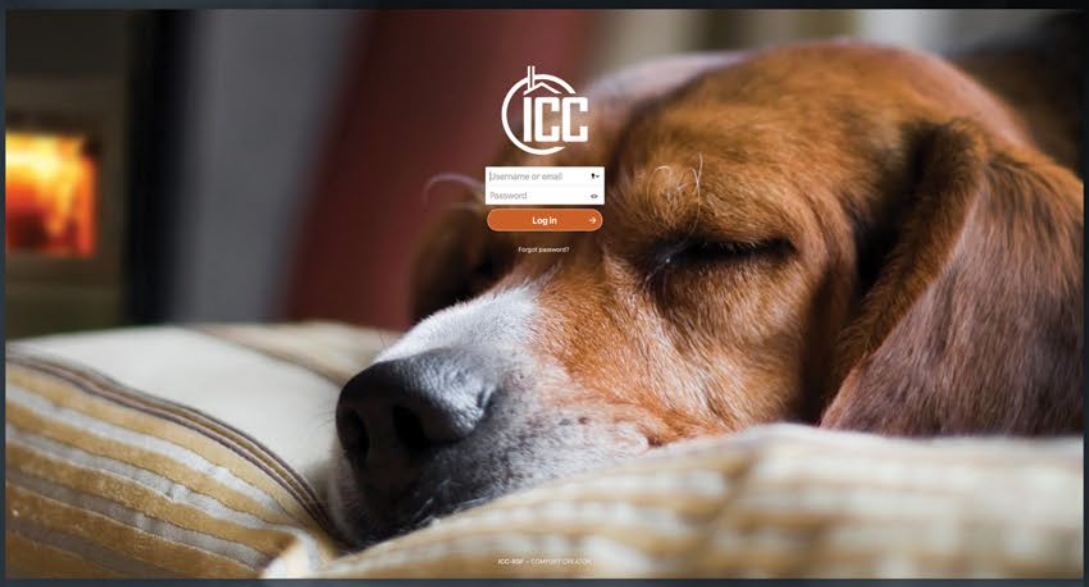
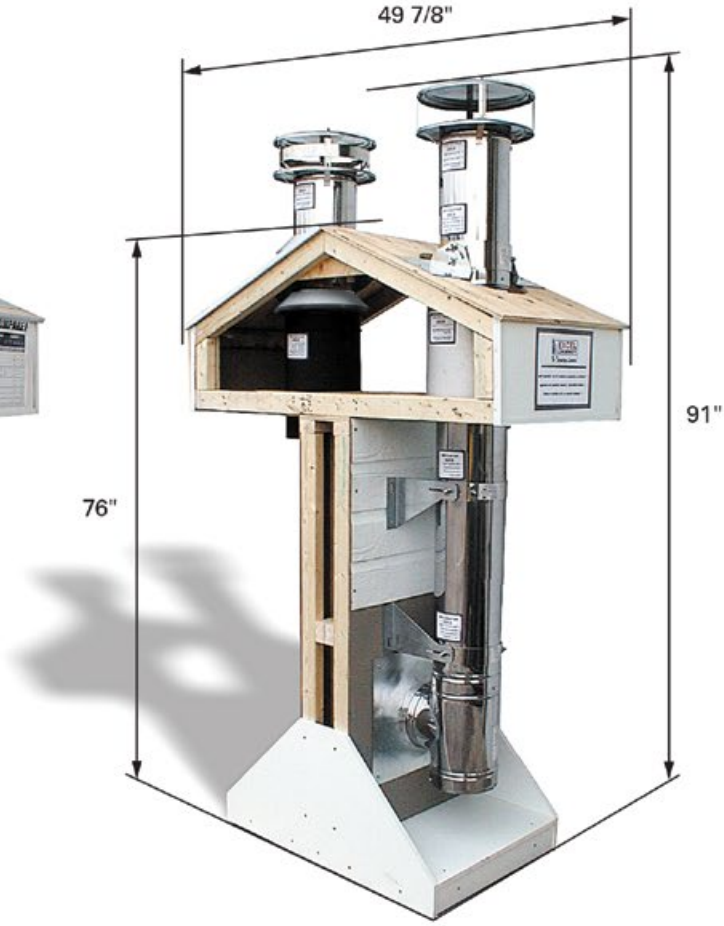
Download marketing material and product information from the dealer account on **icc-rsf.com**. Get access and check it out!




Le BOL Grill

icc-rsf.com/LeBOL



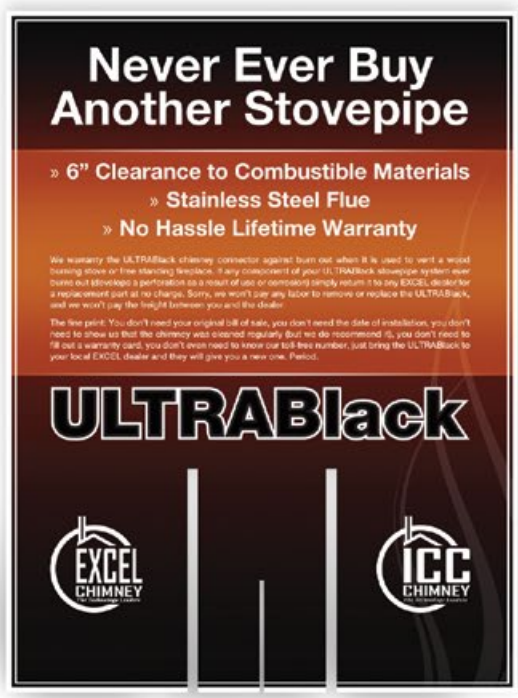

# EXCEL POINT OF PURCHASE DISPLAY
## (AD-XLPOP)

The Excel POP Display helps the customer visualize what a chimney system would look like in their home. It displays the most commonly used parts in any system, including chimney lengths, a ceiling support, a flashing, tee, radiation shield, wall and roof supports and rain caps.

The display includes all of the chimney components required. It has a small footprint and can be easily moved around the showroom. It is indispensable in demonstrating EXCEL chimney to a customer.

# EXCEL CHIMNEY POINT OF PURCHASE - POSTER (AD-XLPOP-2)

The EXCEL Chimney POP fits onto a 6" diameter length of EXCEL. It is designed to demonstrate the advantages of EXCEL over other brands of chimney. The installation examples along the edge are meant as a guide to help determine which components are required for specific installations.




# ULTRABLACK POINT OF PURCHASE - POSTER (AD-UBPOP)

The Ultra Black POP display is a must-have for any showroom with woodstoves on display. It is designed to fit directly onto a one-foot length of Ultra Black which can be inserted into the flue of a display model.

# GENERAL INFORMATION

Industrial Chimney Company was established in 1991 by a small group of partners with over 75 years combined experience in the chimney industry. Our experience convinced us that the needs of our ultimate customers (the people who live in a house with one of our chimneys) are served best when our products are sold by retailers who specialize in chimney and fireplaces. Specialty dealers understand the unique nature of our industry and are qualified to provide both technical support and installation. One of the cornerstones of our business is the conviction that hearth dealers are our essential partners in delivering the highest quality, safest chimney systems available.

From the beginning our objective has been to engineer products which enable better, faster installations while using fewer parts, thereby improving installation efficiency. This is the best way we know of to ensure that consumers benefit from safer installations and competitive pricing. Our goal is to do everything possible to help our business partners do the best installation possible for the homeowner.

We believe that our long-term accomplishments are tied to our commitment to people, both inside and outside of our company. While we are continuously investing in our plant and processes, the most gratifying returns come from the investments in people. Our greatest sense of accomplishment comes from when we see an employee or customer achieve their personal or business goals. That is why we continue to make major promotion and funding commitments to hearth industry education.

We focus our efforts in four areas. We manufacture residential venting, specifically insulated chimneys, single & double walled stove pipe and chimney liner for wood burning applications as well as venting products for pellet and gas appliances. We also manufacture two brands of wood burning fireplace with all customers needs in mind. The RSF brand is designed for heat and efficiency, while the Renaissance Fireplaces brand is designed for ambiance. In addition we manufacture commercial and industrial venting - everything from chimney liners to 48" diameter pressure stacks, which we sell through specialty reps in that market. From the beginning, our residential, commercial, and industrial venting products have enabled us to secure leadership roles in each segment of the industry.

Thanks to the strong support we have received from our distributors and dealers, our strategy is working. We have grown dramatically over recent years. Our 120,000 sq. ft. factory runs 24/7 all year round. It is located on more than 20 acres of prime industrial property and is filled with state-of-the-art machinery. We currently employ over 200 people.

This catalog contains information on our residential venting products and we have done our best to ensure it is complete and up-to-date. If you have any questions or concerns regarding any of our products please feel free to contact us directly. We will be pleased to assist you.

The ICC team

# THE KEY TO OUR SUCCESS IS OUR PEOPLE

Making great, innovative products requires great, innovative minds. It is easy to look at a competing product and reproduce it; however, everything we do at ICC is the result of time, testing and engineering. We will make 50 different versions of one part, to make sure it satisfies the customer purchasing it and the dealer installing it.

We occasionally glance at our competitors' catalogs, only to find our components in their product lines. That's fine, because while they're following our lead, we're pushing forward with ideas and designs they haven't even dreamed of.

ICC's laboratory is DAP certified by UL, permitting us to test our new ideas without having to book independent lab time. This gives us freedom to be more creative and revolutionary.

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# LIMITED LIFETIME WARRANTY FOR ICC VENTING PRODUCTS

Industrial Chimney Company (ICC) warrants all its venting products to be free from functional failure due to defects in material or workmanship for as long as the original consumer owns the chimney system (limited to 5 years for EXCELPrime). This warranty provides replacement of any components which fail as a result of normal use and includes replacement of any components damaged as a result of a chimney fire. (Note: Chimney fires are dangerous and preventable. We strongly encourage you to have your chimney cleaned regularly.) ICC warrants all stainless steel chimney components against perforation as a result of corrosion. This warranty does not cover damage caused to the building by chimney fires or misuse of the product.

No claims under this warranty will be honored unless ICC is notified of the potential claim and is given the opportunity to have one of its agents examine the chimney prior to replacement.

ICC will only be responsible for repair or replacement of any components found to be defective under this warranty. In no event shall ICC be responsible for any incidental or consequential damage caused by defects.

During the first ten years of the warranty (five years for EXCELPellet & EXCELDirect), ICC will provide replacement components except rain caps at no charge. During the balance of the warranty, ICC will provide replacement chimney components at 50% of the current retail price at the time of the warranty claim. This applies to all ICC venting products except for ULTRABlack Double Wall Stove Pipe and EXCEL Deluxe Rain Caps (EDRC), both of which are covered 100% for life.

ICC will not be responsible for labor of any kind required in the removal or replacement of any system replaced under this warranty.

Each venting product is designed to vent specific fuels only. This warranty is void if the venting is used in an application for which it is not designed.

**EXCEL, EXCELiner, EXCELPrime, RIS and ULTRABlack:**
Continuous 650°C (1200°F) temperature
**Fuel:** Wood, oil, coal, gas, charcoal

**EXCELPellet:**
Continuous 300°C (570°F)
**Fuel:** Wood pellet and agricultural products, natural gas, propane and liquid fuel

**EXCELDirect®:**
Gas-Fired Direct Vent appliances certified with EXCELDirect®
**Fuel:** Natural or LP gas

**Model RIS:**
Continuous 540°C (1000°F) temperature
**Fuel:** wood, oil, coal, gas, charcoal

All ICC systems must be installed according to the Installation Instructions which are included with every system at the time of purchase. If you do not have a set of installation instructions, they are available free upon request or online at:

**https://icc-rsf.com/chimney/residential/excel**

This warranty is void if the chimney is not installed according to the installation instructions.
This warranty may not be extended or modified by our agents or representatives.
This warranty is in lieu of all other express warranties or guarantees, of any kind.

# EXCEL

ALL FUEL, INSULATED CHIMNEY SYSTEM 5" – 8"

# EXCEL Technical Information

## Certification

EXCEL is tested and listed by Intertek Testing Services to two safety standards:

**UL 103HT - The standard for solid and liquid fuel chimneys installed in the USA.** Along with many other tests the UL 103HT Standard requires the chimney to withstand three 10 minute chimney fires at 2100°F (1150°C).

**ULC S-629 - The standard for solid and liquid fuel chimneys installed in Canada.** Along with many other tests the ULC S-629 Standard requires the chimney to withstand three 30 minute chimney fires at 2100°F (1150°C).

## Applications

EXCEL chimney is suitable for use on appliances that burn:

- Wood
- Oil
- Coal
- Gas
- Charcoal

It is specifically engineered for wood burning stoves, fireplaces and residential furnaces.

## Allowable Flue Gas Temperatures

| | **ULCS629 (Canadian)** | **UL103HT (USA)** |
|---|---|---|
| Max Continuous | 650°C (1200°F) | 538°C (1000°F) |
| Brief Forced Firing | 925°C (1700°F) | 760°C (1400°F) |
| Tested To | 1150°C (2100°F) | 1150°C (2100°F) |

## Clearance to Combustible Materials

2" clearance except in areas protected by factory-built supports certified for reduced clearance. EXCEL round and square supports permit the chimney to be installed with approximately 1 inch of clearance - in the area shielded by the support.

## Construction

**Flue:** .016" 304 or FW2 stainless steel
**Casing:** .016" 430 stainless steel
**Seam:** Interior and exterior seams are continuous seam welded
**Insulation:** Thermoplus continuous blanket
**Wall thickness:** 1"
**Paint:** All black EXCEL components are painted with Forrest "Stove Bright" *flat black* paint

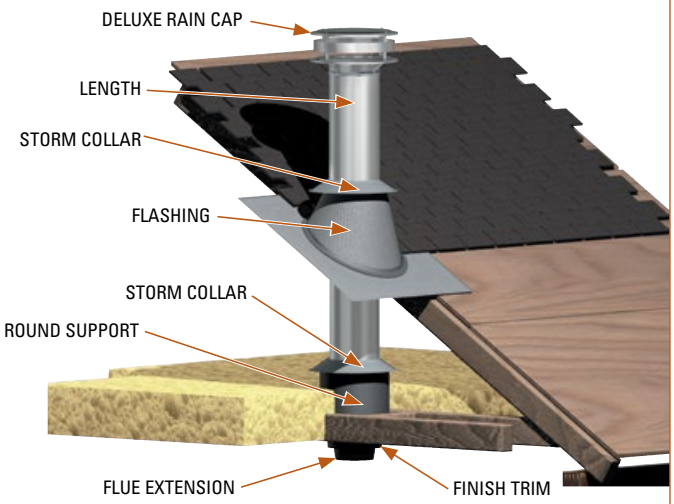
**EXCEL Dimensions and Support Capacities**

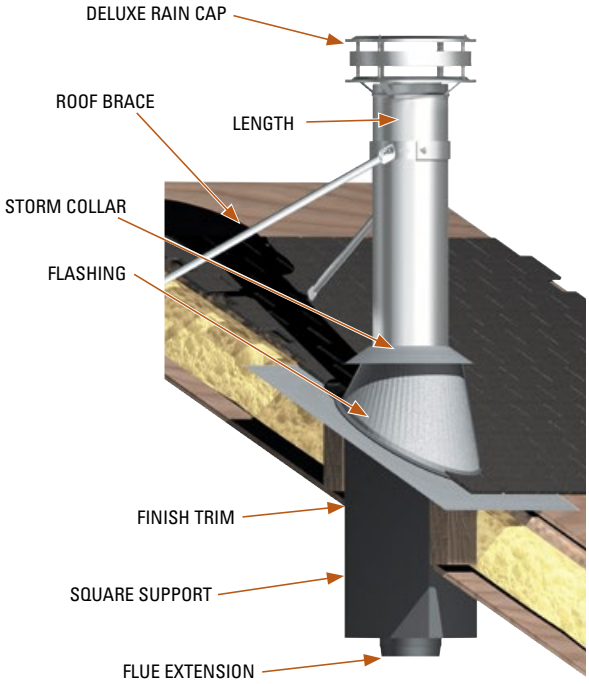
| **Chimney size** | **5"** | **6"** | **7"** | **8"** |
|---|---|---|---|---|
| **Rough opening required** | | **(INCHES)** | | |
| Round support (ERDS) | 10 x 10 | 10 x 10 | 11 x 11 | 12 x 12 |
| Square support (ESS) | N/A | 10 x 10 | 11 x 11 | 12 x 12 |
| Roof support (ESR) | 11 x 11 | 12 x 12 | 13 x 13 | 14 x 14 |
| Offset support (EOS) | 11 x 11 | 12 x 12 | 13 x 13 | 14 x 14 |
| Radiation shield (ERS, ERSA & ERSC) | 11 x 11 | 12 x 12 | 13 x 13 | 14 x 14 |
| Wall radiation shield (EWRS) | 10 x 10 | 10 x 10 | 11 x 11 | 12 x 12 |
| **Maximum height per support** | | **(FEET)** | | |
| Round support (ERDS) | 65 | 55 | 50 | 45 |
| Square support (ESS) | N/A | 55 | 50 | 45 |
| Roof support (ESR) | 65 | 55 | 50 | 45 |
| Wall support (EWS) | 50 | 44 | 37 | 35 |
| Offset support (EOS) | 35 | 30 | 27 | 25 |
| **Radiation shields must be used at all floor joist and ceiling areas** | | | | |

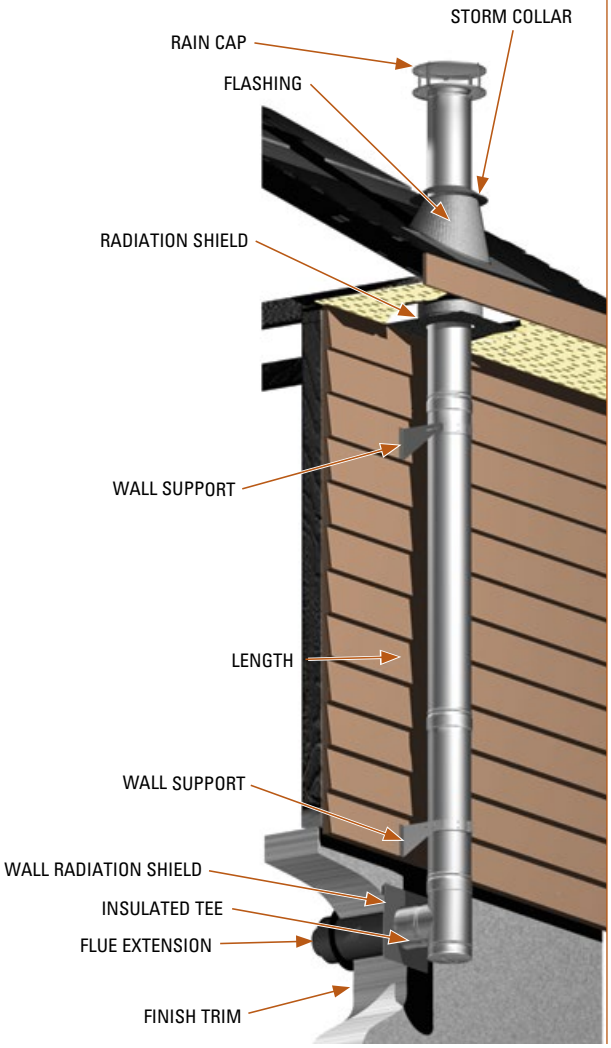
**EXCEL has been tested and listed to the UL 103HT and ULC S-629 chimney standards by INTERTEK.**

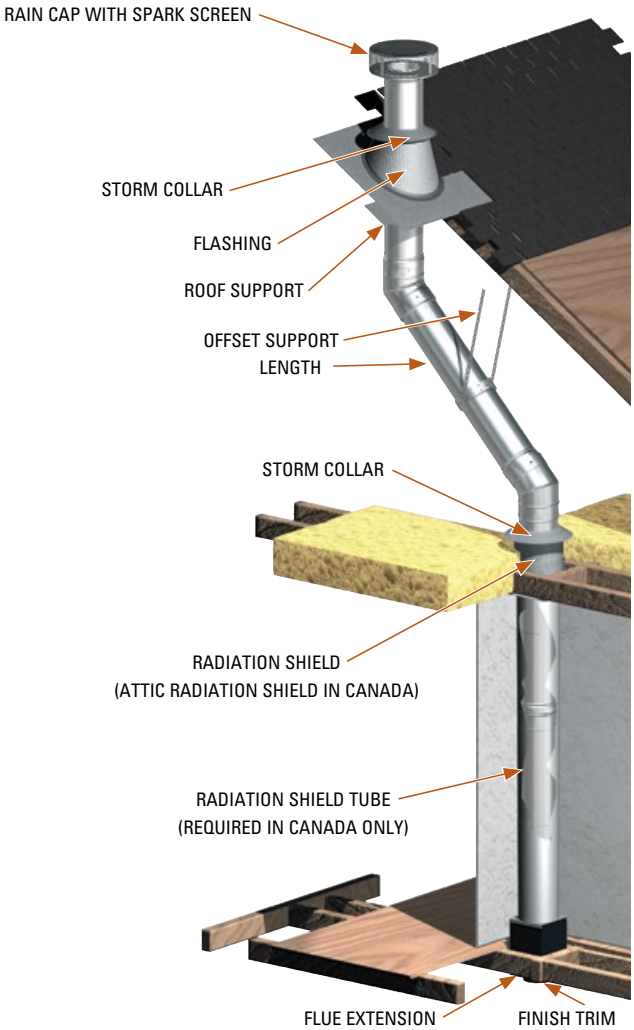
# EXCEL Typical Installations

*NOTE: The following information is provided to assist you in selecting the chimney components required for your installation. It is intended to be a guideline only. These are not the installation instructions.*



# EXCEL Product Descriptions

## Insulated Lengths
(EL48, EL36, EL24, EL18, EL12, EL6)

EXCEL chimney lengths are available in 48", 36", 24", 18", 12" & 6" lengths. To determine the installed length deduct 1 1/2" from the overall length.

INCHES

| Insulated Lengths | | | | | | |
|---|---|---|---|---|---|---|
| **Inside diameter** | | | **5** | **6** | **7** | **8** |
| Outside diameter | Nominal | | 7 | 8 | 9 | 10 |
| | Outside of Bead | | 7 1/4 | 8 1/4 | 9 1/4 | 10 1/4 |
| Weight - lbs/foot | | | 3.6 | 4.2 | 4.9 | 5.3 |
| Nominal length | 48 | 36 | 24 | 18 | 12 | 6 |
| Installed length | 46 1/4 | 34 1/4 | 22 1/4 | 16 1/4 | 10 1/4 | 4 1/4 |

## Insulated Adjustable Lengths
(ELA18)

The most common applications for the adjustable length are:

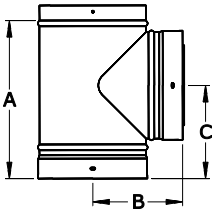
- Between elbows so that any required centre-to-centre offset can be achieved.
- When it is necessary to balance the chimney height so that the caps line up for functional or aesthetic reasons.
- When a specific horizontal offset is required.

The adjustable length must be installed above a straight chimney length. It will not adjust into an elbow or tee. To determine the installed length deduct 1 1/2" from the overall length. To adjust the length, remove the screws, slide the sections of the outer casing together to the desired length and cut away the excess insulation. Do not cut the inner flue, it will slide inside the next chimney length.

INCHES

| Insulated Adjustable Lengths | |
|---|---|
| Nominal length | 18" ajustable |
| Installed length | 9 1/2 - 16 1/4 |

## Insulated Tees
(ETI)

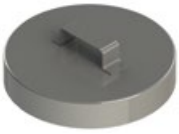



The insulated tee can be used on the interior or exterior of a building. The tee is designed to be used in combination with a wall support assembly. The EXCEL tee cap has a handle on the bottom to simplify removal for cleaning. An ETC Tee Cap is included.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 5ETI | 11 1/4 | 6 3/4 | 6 1/4 |
| 6ETI | 12 1/4 | 7 1/4 | 6 3/4 |
| 7ETI | 13 1/4 | 7 3/4 | 7 1/4 |
| 8ETI | 14 1/4 | 8 1/4 | 7 3/4 |

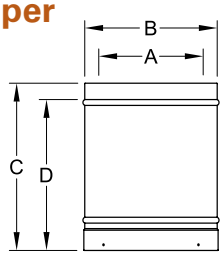
## Tee Cap
(ETC, EITC)



ETC

An ETC Tee Cap is included with the EXCEL Insulated Tee and an EITC Insulated Tee Cap is optional. If a replacement tee cap is required, either version tee cap can be ordered. The EITC Insulated Tee Cap has an insulated plug that reduces heat loss from the bottom of the chimney system. The Insulated Tee Cap does not reduce clearance to combustibles, but will help maintain higher flue temperatures.

## Chimney Top Damper
(ETD)

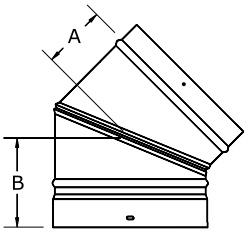



Adding this "Top Damper" to a system seals it right at the top of the chimney. The "Chimney Top Damper" is placed directly below the cap and is designed to prevent any cold air infiltration into the house through the chimney. It functions on a chain that hangs down to the firebox and comes with 30' of wire.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 7ETD | 7 | 9 | 12 | 10 1/4 |
| 8ETD | 8 | 10 | 12 | 10 1/4 |

## Elbows
(EE15, EE30 & EE45)

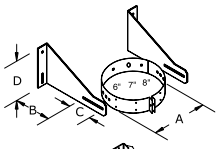


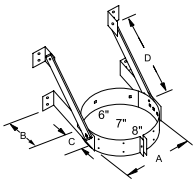

EXCEL 15° and 30° elbows are tested and listed to UL 103HT and ULC S629 Standards. EXCEL 45° elbows are certified to ULC S629 only.

INCHES

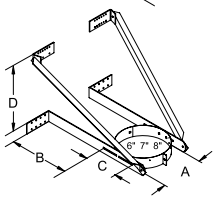
| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 5EE15 | 1 7/8 | 2 7/8 |
| 6EE15 | 1 7/8 | 2 7/8 |
| 7EE15 | 2 | 3 |
| 8EE15 | 2 | 3 |
| 5EE30 | 2 3/8 | 3 3/8 |
| 6EE30 | 2 1/2 | 3 1/2 |
| 7EE30 | 2 5/8 | 3 5/8 |
| 8EE30 | 2 3/4 | 3 3/4 |
| **Canada only** | | |
| 5EE45 | 2 7/8 | 3 7/8 |
| 6EE45 | 3 | 4 |
| 7EE45 | 3 1/4 | 4 1/4 |
| 8EE45 | 3 1/2 | 4 1/2 |

## Wall supports - Wall Bands (EWS)
## Extended Wall Supports (EWSE)




Old Style Wall support (EWS-R)



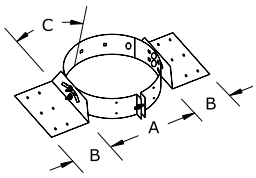

Extended Wall support (EWSE)

The wall support (EWS) is used to support a vertical chimney on a through-the-wall installation. The EXCEL Wall Support installs on the first length of chimney above the tee, (not below the tee, thus making it easier to fasten the support to framing, instead of into concrete). The Wall Support utilizes the universal band to fit 6, 7, & 8 inch chimneys. It is designed to slide in and out to fit a variety of wall profiles. The Wall Support is also used as a lateral support every 8 feet in height. The Extended Wall Support (EWSE) will allow the chimney to pass by a 12" overhang. It often eliminates the need to either offset a chimney around the overhang or cut and finish the soffit and fascia. One support is required every 8', minimum of two per system. The Old Style Wall Support (EWS-R) is generally more complicated to install than the EWS. However it simplifies installations on irregular surfaces like vinyl siding.

INCHES

| EWS Dimensions (Fits 6", 7" & 8" chimney) | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| EWS | 7, 8, 9 or 10 | 5 | 3 1/2 | 6 |
| EWS-R | 8, 9 or 10 | 5 | 3 1/2 | 16 |
| **EWSE Dimensions (Fits 6", 7" & 8" chimney)** | | | | |
| **Code** | **A** | **B** | **C** | **D** |
| EWSE | 8, 9 or 10 | 12 1/4 | 6 1/2 | 13 |

## Roof Support
(ESR)

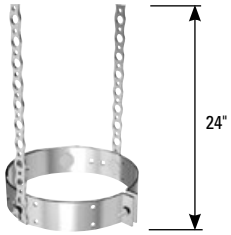



The roof support is primarily used when it is difficult to use a round or square support in a cathedral ceiling. It can also be used above an offset, or to provide additional support when the chimney height exceeds the capacity of the primary support. The roof support utilizes a universal band, so that the same support fits 6, 7, & 8 inch chimneys. It is made with adjustable brackets, which allows it to adjust easily to any roof pitch.

INCHES

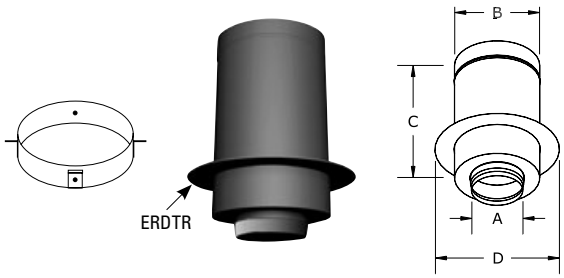
| Dimensions (Fits 5", 6", 7" & 8" chimney) | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| ESR | 7, 8, 9 or 10 | 6 | Fits flat - 24 / 12 |

## Offset Support
(EOS)




The offset support is primarily used to re-support the chimney above an offset. However, it can also be used to provide additional support when the chimney height exceeds the capacity of the primary support. The offset support straps are 24 inches long.

## Round Support
(ERDS)




EXCEL's ceiling supports are suitable for use on flat or sloping ceilings. They must project into the room a minimum of 3 inches on a flat ceiling. For sloping ceilings, see the EXCEL installation manual.

These supports are designed to act as a combination of support and attic radiation shield. To use a support as an attic radiation shield, simply close the open area at the top of the support (in the attic) with a storm collar. Clearance to the exterior of EXCEL chimney is reduced to 1" while inside the support or support extension.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 5ERDS | 5 | 10 | 24 | 14 1/4 |
| 6ERDS | 6 | 10 | 24 | 14 1/4 |
| 7ERDS | 7 | 11 | 24 | 15 3/4 |
| 8ERDS | 8 | 12 | 24 | 17 |

Storm collar (ESC-X) ordered separately.

## Insulated Round Support
(ERDSI)

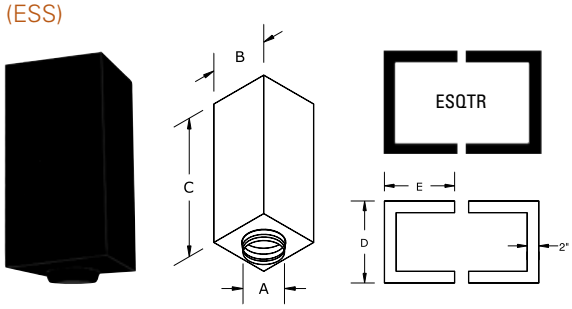
The Insulated round support includes an insulation wrap for the chimney length inside the support and an insulated firestop to be sealed to the vapor barrier.

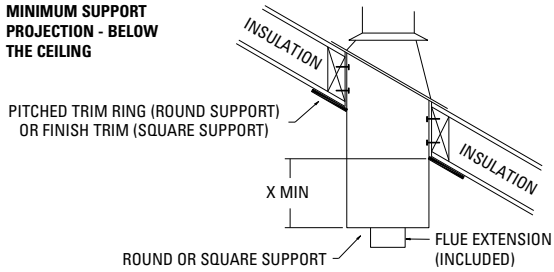
INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 6ERDSI | 6 | 10 | 24 | 14 1/4 |
| 7ERDSI | 7 | 11 | 24 | 15 3/4 |
| 8ERDSI | 8 | 12 | 24 | 17 |

Storm collar (ESC-X) ordered separately.

## Square Support
(ESS)




Square Supports are ideal for installation in sloped ceilings but can be installed in flat ceilings as well.

Like Round Supports, Square Supports act as a combination of support and attic radiation shield. To use a Square Support as an attic radiation shield, the top of the support (in the attic) must be covered with an **ESQSC (Square Support Storm Collar)** or an **ESQSC-X (EXCEL Square Support Storm Collar - Universal)** because a standard storm collar is not wide enough to fully cover the opening. Clearance to the exterior of EXCEL chimney is reduced to 1" while inside the support or support extension.

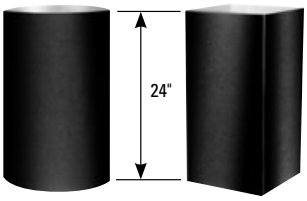
INCHES

| Dimensions | | | | | |
|---|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** | **E** |
| 6ESS | 6 | 10 | 24 | 14 | 12 |
| 7ESS | 7 | 11 | 24 | 15 | 12 |
| 8ESS | 8 | 12 | 24 | 16 | 12 |
| 6ESS12 | 6 | 12 | 24 | 16 | 12 |

The ESQSC and ESQSC-X storm collars are ordered separately.

| Slope | X |
|---|---|
| 0/12 | 3 |
| 2/12 | 5 1/2 |
| 7/12 | 6 3/4 |
| 12/12 | 7 1/2 |
| 24/12 | 12 1/2 |

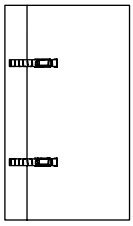
## Support Extensions
(ERDSE & ESSE)




Support extensions are available to facilitate installations on very steep pitched ceilings, or where the chimney must project unusually far into the room. Both the round and square support extensions are 24" long. Clearance to the exterior of EXCEL chimney is reduced to 1" while inside the support or support extension. Thus, there is zero clearance to the exterior of the support or support extensions.

## Insulation Sleeve For Support Box

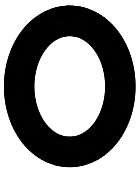
(EIS)

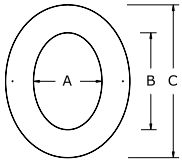


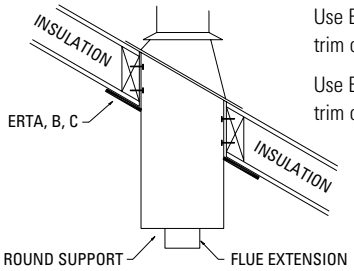
The Insulation Sleeve can be combined with any standard Square Support or Round Support. It wraps around the first section of chimney installed inside the support box and helps ensure the home remains airtight while also preventing condensation. This is the same sleeve that is included with the Insulated Round Support (ERDSI). The EIS Insulation Sleeve is available in 6", 7" and 8" diameters.

## Pitched Trim Rings

(ERTA, B, C & ECTA, B, C)






Use ERTA, B, C for pitched trim on Round Support.

Use ECTA, B, C for pitched trim on EXCEL lengths.

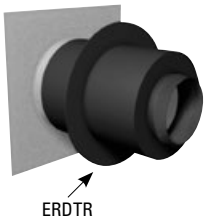
If you are installing a round support on a sloping ceiling, or passing EXCEL through a pitched ceiling without a support, you will require a pitched trim ring. Use the following table to determine the correct trim ring for your installation. Pitched trim rings are not available in 5" Ø. The finish trim which comes with the square support, is adjustable for any ceiling pitch from flat to 24/12. Not available in 5" Ø.

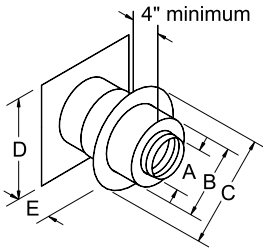
INCHES

| Pitched Trim Ring Dimensions | | | | | |
|---|---|---|---|---|---|
| **Trim For** | **Code** | **A** | **B** | **C** | **Pitch Range** |
| ERDS/ERDSI | 6ERTA | 9 13/16 | 10 1/8 | 18 1/2 | 0/12 - 4/12 |
| ERDS/ERDSI | 7ERTA | 10 13/16 | 11 3/16 | 18 1/2 | 0/12 - 4/12 |
| ERDS/ERDSI | 8ERTA | 11 13/16 | 12 1/4 | 18 1/2 | 0/12 - 4/12 |
| ERDS/ERDSI | 6ERTB | 9 13/16 | 11 3/8 | 18 1/2 | 4/12 - 8/12 |
| ERDS/ERDSI | 7ERTB | 10 13/16 | 12 1/2 | 18 1/2 | 4/12 - 8/12 |
| ERDS/ERDSI | 8ERTB | 11 13/16 | 13 5/8 | 18 1/2 | 4/12 - 8/12 |
| ERDS/ERDSI | 6ERTC | 9 13/16 | 13 7/8 | 18 1/2 | 8/12 - 12/12 |
| ERDS/ERDSI | 7ERTC | 10 13/16 | 15 1/4 | 21 1/4 | 8/12 - 12/12 |
| ERDS/ERDSI | 8ERTC | 11 13/16 | 16 11/16 | 21 1/4 | 8/12 - 12/12 |
| EXCEL | 6ECTA | 8 1/16 | 8 3/8 | 16 3/8 | 0/12 - 4/12 |
| EXCEL | 7ECTA | 9 1/16 | 9 3/8 | 17 3/8 | 0/12 - 4/12 |
| EXCEL | 8ECTA | 10 1/16 | 10 7/16 | 18 1/2 | 0/12 - 4/12 |
| EXCEL | 6ECTB | 8 1/16 | 9 5/16 | 17 3/8 | 4/12 - 8/12 |
| EXCEL | 7ECTB | 9 1/16 | 10 1/2 | 18 1/2 | 4/12 - 8/12 |
| EXCEL | 8ECTB | 10 1/16 | 11 5/8 | 19 5/8 | 4/12 - 8/12 |
| EXCEL | 6ECTC | 8 1/16 | 11 3/8 | 19 3/8 | 8/12 - 12/12 |
| EXCEL | 7ECTC | 9 1/16 | 12 13/16 | 20 7/8 | 8/12 - 12/12 |
| EXCEL | 8ECTC | 10 1/16 | 14 1/4 | 22 1/4 | 8/12 - 12/12 |

## Wall Radiation Shields

(EWRS & EWRSI)




The wall radiation shield is used when the chimney passes horizontally through a combustible wall. The EWRS telescopes to adjust for wall thickness from 6" – 12", so no painting is required. The inside finish trim is removable from the EWRS, allowing for easy installation before or after the wall finish is applied. The Insulated Wall Radiation Shield (EWRSI) is designed for installations in energy efficient houses which have tightly sealed vapour barriers.

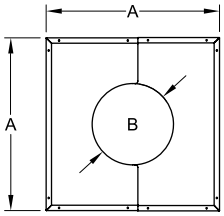
**Insulated Wall Radiation Shield (EWRSI)**

The EWRSI is fully insulated and has a flange to permit an airtight seal to the vapour barrier. It can be installed into an existing home but since it must be installed under the drywall it is most often used for new construction. Flue extension and trim ring included.

INCHES

| Dimensions | | | | | |
|---|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** | **E** |
| 5EWRS/EWRSI | 5 | 10 | 14 1/4 | 16 X 16 | 6-12 |
| 6EWRS/EWRSI | 6 | 10 | 14 1/4 | 16 X 16 | 6-12 |
| 7EWRS/EWRSI | 7 | 11 | 15 3/4 | 16 X 16 | 6-12 |
| 8EWRS/EWRSI | 8 | 12 | 17 | 16 X 16 | 6-12 |

## Stainless Trim for EWRS (EST)

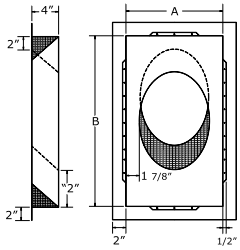



A decorative trim cover for the exterior wall plate of the Wall Radiation Shield that prevents water infiltration while providing adequate heat ventilation. It is constructed from two separated pieces and can be added at any point.

INCHES

| Dimensions | | |
|---|---|---|
| **ø** | **A** | **B** |
| 6" | 16 1/4 | 8" |
| 7" | 16 1/4 | 9" |
| 8" | 16 1/4 | 10" |

## Insulated Angled Wall Radiation Shields (EWRSI30 & EWRSI45)




The insulated angled wall radiation shield is used when the chimney goes through a combustible exterior wall, with a 30 or 45 degree angle. A radiation shield is installed on the exterior side of the wall to complete the installation. This part is used for fireplace installations only. *Note: 45° are approved for use in Canada only.*

INCHES

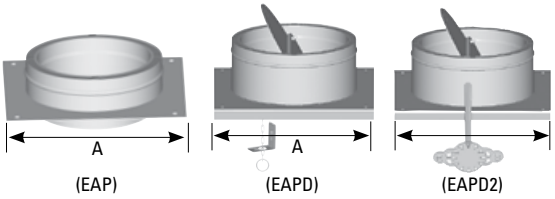
| Required Opening Dimensions | | | | |
|---|---|---|---|---|
| **Angle** | **30°** | | **45°** | |
| **ø** | **A** | **B** | **A** | **B** |
| 6" | 11 3/4 | 38 | 11 3/4 | 27 7/16 |
| 7" | 12 3/4 | 40 | 12 3/4 | 28 7/8 |
| 8" | 13 3/4 | 42 | 13 3/4 | 30 1/4 |

## Anchor Plate (EAP)

It is used to connect EXCEL Chimney to an appliance, masonry fireplace or heater.

## Anchor Plate Dampers (EAPD, EAPD2)

Combines the anchor plate with a heavy gauge stainless steel damper to simplify masonry fireplace construction, reduces installation cost and provides a superior seal.



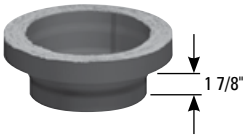

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **Diameter** | **A** |
| EAP | 5 | 12" X 12 |
| EAP - EAPD - EAPD2 | 6 | 12" X 12 |
| EAP - EAPD - EAPD2 | 7 | 13" X 13 |
| EAP - EAPD - EAPD2 | 8 | 14" X 14 |

## Hardware Kit
(HK)

Includes over 50 pieces of exclusive hardware for EXCEL installations - carriage bolts, thumbscrews, wingnuts and washers.

## Flue Extension
(EX)

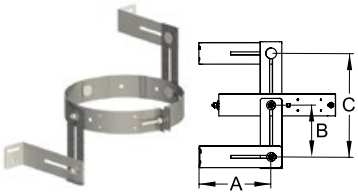



The flue extension fastens to the bottom of the first chimney length with three screws. It makes it possible to connect a stove pipe, or other type of connector, to the chimney. It is sometimes used to connect an EXCEL chimney directly to an appliance. The flue extension is designed to fit a variety of stove pipes. However, due to variations from one manufacturer to another, some modifications may be required in the field.

## Locking Band
(ELB)

EXCEL insulated components are designed to be fastened together with the stainless steel screws provided with each part. In some cases, it may be desirable to install a locking band for aesthetic purposes. The locking band is designed to overlap the two beads immediately above and below the chimney joint. Fastens with a 1/4" bolt. All three screws are required even when the ELB is installed.

## Gable End Guide
(EGEG)

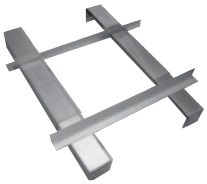



The purpose of the Gable End Guide is to assist in the stabilization of chimney as it passes the gable end of a home. The EGEG has adjustable arms to fit up to a 12/12 pitch. It is important to note the EGEG is a guide and it is does NOT replace a support. Utilizes universal band to fit 6, 7 and 8" Chimneys.

INCHES

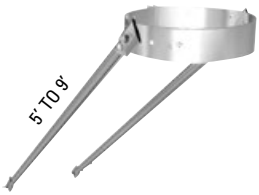
| Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| **Code** | **A min** | **B min** | **C min** | **A max** | **B max** | **C max** |
| XM-EGEG | 2 3/4 | 1 1/2 | 3 | 6 3/4 | 4 3/4 | 9 1/2 |

## Adjustable Stud Support
(EAS)



Allows you to install a round or square support (ERDS, ES & ESS) without using wood framing. The maximum support capacity is 30 feet of chimney. The maximum joist spacing is 24" center to center.

## Roof Brace
(ERB, ESRB)



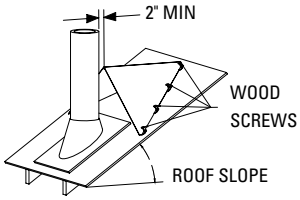

**Stainless steel roof brace poles (ESRB) are now available;** the roof brace is used to provide lateral support for a chimney which extends more than 5 feet above a roof. The roof brace utilizes a universal band to fit 6, 7 and 8 inch chimneys. The arms on the roof brace telescope from 5 ft. to 9 ft. long.

## Roof Brace Stiffener
(ERBS)

Prevents roof brace poles bending under the weight of snow. Recommended for metal roofs.

## Snow Wedge
(ESW)

For roof pitches of 4/12 to 12/12.




## Snow Wedge Roof Brace
(ESWRB)

This shortened roof brace is mounted directly to the snow wedge itself, which keeps the poles out of the snow. This makes damage to the poles less likely. Their short length, and the cross-brace provided for the snow wedge makes this system a robust option in regions with heavy snowfall. Ideal for metal roofs. Snow wedge not included.

NEW

## Wall Channel
(EWC)

The wall channel enables a wall support or wall band to be fastened solidly to the framing when the framing centers do not line up with the chimney opening. The wall channel is 24" long.

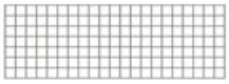
## Universal Vinyl Siding Trim (EVT)

This piece comes as two sections of galvanized metal. There are tabs cut into the strips that allow for easy bending at key points. Assembling these brackets will create a vinyl siding trim for any size of wall thimble in the wood, pellet or gas venting products.

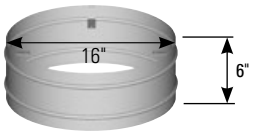
## Rain Caps
(ERC, EDRC, ERCS, ERCW, ERCB, ERRC)

Regular Rain Cap (ERC)

Rain Cap Deluxe (EDRC)



Spark Screen (ERCS)




Rain/Wind Shield (ERCW)

Rain Cap Base (ERCB)

Revolving Rain Cap (ERRC)

**All EXCEL chimneys must be installed with an EXCEL rain cap (any model) to prevent water from entering the chimney.**

**ERC:** The regular rain cap is made from .016" thick type 304 stainless steel and carries a one year warranty.

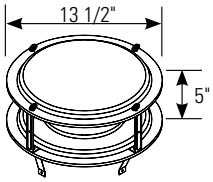
**EDRC:** The deluxe cap is made from .025" thick type 304 stainless steel and carries a **lifetime 100% full replacement warranty**.

**ERCS:** An optional stainless steel spark screen is available for installations where sparks can pose a safety problem.

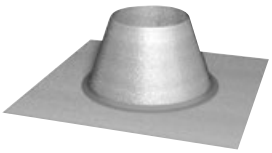
**ERCW:** The optional wind and rain shield improves draft by up to 40% in windy conditions and is very effective at preventing wind driven rain from entering the chimney. It bolts to the existing holes in either the regular or deluxe cap.

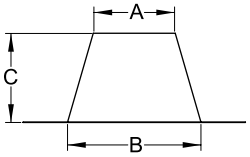
**ERCB:** The rain cap base is designed to cover the end of the chimney in applications where a rain cap is not practical but it does not keep rain from entering the chimney.

**ERRC:** The revolving rain cap helps to prevent the entry of wind driven rain and helps to prevent wind induced downdrafts.

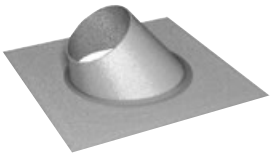


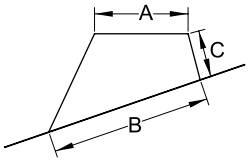
## Flashings
(EF, ESF)



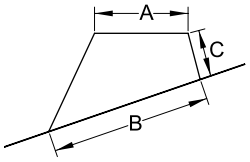



Flat Flashing
(EF)






Adjustable Flashing
(EFA, EFB, EFC)




Stainless Steel Flashing
(ESF)

These flashings are made from either galvalume steel, which is considerably more corrosion resistant than galvanized, or from stainless steel for applications where maximum corrosion resistance is desired. They are made to cover the entire range of roof pitches.

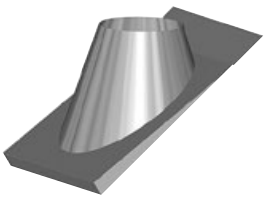
INCHES

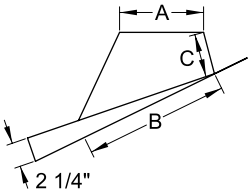
| Flashing Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Pitch** | **Flue I.D.** | **Galvalume** | **Stainless** | **Base W x L** | **A** | **B** | **C** |
| Flat - 2/12 | 5" | 5EF | 5ESF | 20 x 20 | 7 3/8 | 12 | 8 |
| | 6" | 6EF | 6ESF | 24 x 24 | 8 3/8 | 14 1/16 | 8 |
| | 7" | 7EF | 7ESF | 24 x 24 | 9 3/8 | 14 1/8 | 8 |
| | 8" | 8EF | 8ESF | 24 x 24 | 10 3/8 | 16 | 8 |
| 1/12 - 7/12 | 5" | 5EFA | 5ESFA | 20 x 20 | 7 3/8 | 12 5/8 | 3 3/4 |
| | 6" | 6EFA | 6ESFA | 24 x 24 | 8 3/8 | 13 7/8 | 3 3/4 |
| | 7" | 7EFA | 7ESFA | 24 x 24 | 9 3/8 | 14 1/4 | 3 3/4 |
| | 8" | 8EFA | 8ESFA | 24 x 24 | 10 3/8 | 15 3/8 | 3 3/4 |
| 8/12 - 12/12 | 5" | 5EFB | 5ESFB | 24 x 28 | 7 3/8 | 17 1/16 | 3 3/4 |
| | 6" | 6EFB | 6ESFB | 24 x 26 | 8 3/8 | 16 1/2 | 3 3/4 |
| | 7" | 7EFB | 7ESFB | 24 x 28 | 9 3/8 | 18 1/16 | 3 3/4 |
| | 8" | 8EFB | 8ESFB | 26 x 30 | 10 3/8 | 19 7/8 | 3 3/4 |
| 12/12 - 21/12 | 5" | 5EFC | 5ESFC | 24 x 34 | 7 3/8 | 21 | 7 3/4 |
| | 6" | 6EFC | 6ESFC | 24 x 40 | 8 3/8 | 23 3/16 | 7 3/4 |
| | 7" | 7EFC | 7ESFC | 26 x 41 | 9 3/8 | 25 1/16 | 7 3/4 |
| | 8" | 8EFC | 8ESFC | 26 1/2 x 43 | 10 3/8 | 27 1/4 | 7 3/4 |

| All Flashings include a Storm Collar | | |
|---|---|---|
| **Flashing** | **Storm Collar included*** | **Material** |
| EF | ESC-X | Galvalume |
| EFA | ESC-X | Galvalume |
| EFB | ESC-X | Galvalume |
| EFC | ESC-X | Galvalume |
| ESF | ESSC | Stainless |
| ESFA | ESSC | Stainless |
| ESFB | ESSC | Stainless |
| ESFC | ESSC | Stainless |

* *Storm collars for 5" diameter EXCEL are not universal. Refer to the Storm Collar info on page 18 for details.*

## Metal Roof Flashings
(EMF)






"US Patent 7114301,
Can Patent 2460044"

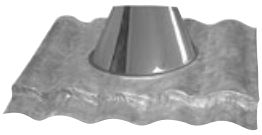
These flashings are specifically designed for metal roofs and greatly simplify metal roof installations. They are made from galvalume steel only. Due to the raised lip at the bottom edge of the Metal Roof Flashing, it cannot be installed on a roof pitch less than 3/12.

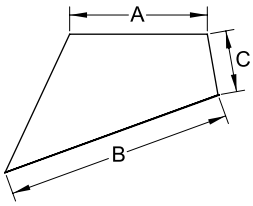
INCHES

| Flashing Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| **Pitch** | **Flue I.D.** | **Code** | **Base W x L** | **A** | **B** | **C** |
| 3/12 - 7/12 | 5" | 5EMFA | 24 3/4 x 21 3/4 | 7 3/8 | 12 9/16 | 3 3/4 |
| | 6" | 6EMFA | 24 3/4 x 21 3/4 | 8 3/8 | 13 13/16 | 3 3/4 |
| | 7" | 7EMFA | 24 3/4 x 21 3/4 | 9 3/8 | 14 1/8 | 3 3/4 |
| | 8" | 8EMFA | 24 3/4 x 23 3/4 | 10 3/8 | 15 5/16 | 3 3/4 |
| 8/12 - 12/12 | 5" | 5EMFB | 25 15/16 x 25 3/4 | 7 3/8 | 17 1/16 | 3 3/4 |
| | 6" | 6EMFB | 24 3/4 x 23 3/4 | 8 3/8 | 16 7/16 | 3 3/4 |
| | 7" | 7EMFB | 26 15/16 x 26 1/4 | 9 3/8 | 18 1/16 | 3 3/4 |
| | 8" | 8EMFB | 27 5/16 x 27 15/16 | 10 3/8 | 19 3/4 | 3 3/4 |
| 12/12 - 21/12 | 5" | 5EMFC | 26 3/4 x 31 3/4 | 7 3/8 | 21 | 7 13/16 |
| | 6" | 6EMFC | 26 3/4 x 37 3/4 | 8 3/8 | 23 3/16 | 7 13/16 |
| | 7" | 7EMFC | 36 3/4 x 38 3/4 | 9 3/8 | 25 1/16 | 7 13/16 |
| | 8" | 8EMFC | 26 3/4 x 40 3/4 | 10 3/8 | 27 1/4 | 7 13/16 |

| All Flashings include a Storm Collar | | |
|---|---|---|
| **Flashing** | **Storm Collar included** | **Material** |
| EMFA | ESC-X | Galvalume |
| EMFB | ESC-X | Galvalume |
| EMFC | ESC-X | Galvalume |

## Flexible Base Flashings
(ELFA, ELFB, ELFC)





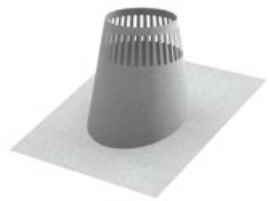

| All Flashings include a Storm Collar | | |
|---|---|---|
| **Flashing** | **Storm Collar included** | **Material** |
| ELFA | ESSC | Stainless |
| ELFB | ESSC | Stainless |
| ELFC | ESSC | Stainless |

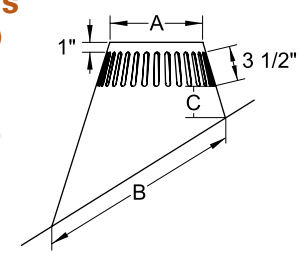
The flexible base flashing combines a stainless steel cone with a flexible lead base which can be easily formed on site to match virtually any roof profile. It was designed for masonry tile roofs but can be used wherever a flexible base is required except for metal roofs.

INCHES

| Flashing Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| **Pitch** | **Flue I.D.** | **Code** | **Base W x L** | **A** | **B** | **C** |
| 1/12 - 7/12 | 6" | 6ELFA | 13 1/8 x 13 7/8 | 8 3/8 | 13 13/16 | 3 3/4 |
| | 7" | 7ELFA | 13 1/2 x 14 1/4 | 9 3/8 | 14 1/8 | 3 3/4 |
| | 8" | 8ELFA | 14 1/2 x 15 3/8 | 10 3/8 | 15 5/16 | 3 3/4 |
| 8/12 - 12/12 | 6" | 6ELFB | 13 3/4 x 16 1/2 | 8 3/8 | 16 7/16 | 3 3/4 |
| | 7" | 7ELFB | 15 x 18 1/16 | 9 3/8 | 18 1/16 | 3 3/4 |
| | 8" | 8ELFB | 16 1/16 x 19 7/8 | 10 3/8 | 19 3/4 | 3 3/4 |
| 12/12 - 21/12 | 6" | 6ELFC | 13 15/16 x 23 3/16 | 8 3/8 | 23 3/16 | 7 13/16 |
| | 7" | 7ELFC | 15 x 25 1/16 | 9 3/8 | 25 1/16 | 7 13/16 |
| | 8" | 8ELFC | 16 3/8 x 27 1/4 | 10 3/8 | 27 1/4 | 7 13/16 |

## Vented Flashings
(EVF, EVFA, EVFB, EVFC)





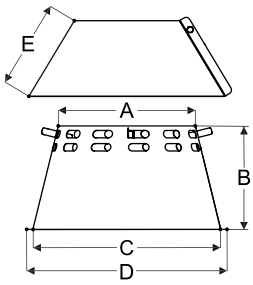

| All Flashings include a Storm Collar | | |
|---|---|---|
| **Flashing** | **Storm Collar included** | **Material** |
| EVF | EVSC | Galvalume |
| EVFA | EVSC | Galvalume |
| EVFB | EVSC | Galvalume |
| EVFC | EVSC | Galvalume |

Vented Flashings are required in certain applications where additional airflow is required.

INCHES

| Flashing Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| **Pitch** | **Flue I.D.** | **Code** | **Base W x L** | **A** | **B** | **C** |
| Flat - 2/12 | 6" | 6EVF | 24 x 24 | 9 1/4 | 14 1/4 | 6 |
| | 7" | 7EVF | 26 x 26 | 10 1/4 | 15 1/4 | 6 |
| | 8" | 8EVF | 26 x 26 | 11 1/4 | 16 1/4 | 6 |
| 1/12 - 7/12 | 6" | 6EVFA | 26 x 26 | 9 1/4 | 14 13/16 | 6 |
| | 7" | 7EVFA | 26 x 26 | 10 1/4 | 15 15/16 | 6 |
| | 8" | 8EVFA | 26 x 26 | 11 1/4 | 17 1/16 | 6 |
| 8/12 - 12/12 | 6" | 6EVFB | 28 x 28 | 9 1/4 | 20 5/16 | 6 |
| | 7" | 7EVFB | 28 x 28 | 10 1/4 | 21 13/16 | 6 |
| | 8" | 8EVFB | 30 x 30 | 11 1/4 | 23 3/8 | 6 |
| 12/12 - 21/12 | 6" | 6EVFC | 28 x 40 | 9 1/4 | 26 13/16 | 7 |
| | 7" | 7EVFC | 29 x 41 | 10 1/4 | 28 5/16 | 7 |
| | 8" | 8EVFC | 30 x 43 | 11 1/4 | 30 1/16 | 7 |

## Ventilated Chase Cone
(EVCC)



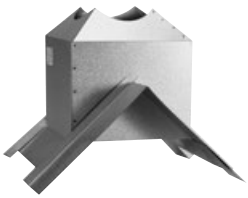

**EVCC Ventilated Chase Cone**

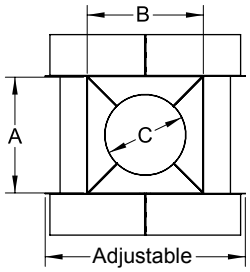
Designed to be mounted to custom chase top covers where the chimney is enclosed in a chase and the appliance requires a vented flashing. This vented cone provides the ventilation required without the cumbersome flashing base. This makes it easy to meet the vented flashing requirements, even with a custom chase top cover. Extra wide storm collar included.

INCHES

| EVCC Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| **Code** | **Flue I.D.** | **A** | **B** | **C** | **D** | **E** |
| EVCC | 6" | 10 ½" | 7 7/8" | 14 ¼" | 15 ¼" | 7" |
| | 7" | 11 ½" | 7 7/8" | 15 ¼" | 16 ¼" | 7" |
| | 8" | 12 ½" | 7 7/8" | 16 ¼" | 17 ¼" | 7" |

## Adjustable Peak Flashing
(EFP)






The adjustable peak flashing is designed to be used when the chimney passes through the peak of the home. It will fit any peak between 2/12 and 12/12.

INCHES

| Flashing Dimensions | | | | | |
|---|---|---|---|---|---|
| **Pitch** | **Flue I.D.** | **Code** | **A** | **B** | **C** |
| 2/12 - 12/12 Peak | 6" | 6EFP | 12 | 12 3/16 | 8 3/8 |
| | 7" | 7EFP | 13 | 13 3/16 | 9 3/8 |
| | 8" | 8EFP | 14 | 14 3/16 | 10 3/8 |

| All Flashings include a Storm Collar | | |
|---|---|---|
| **Flashing** | **Storm Collar included** | **Material** |
| EFP | ESQSC or ESQSC-X | Galvalume |

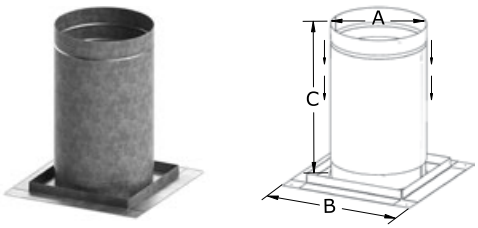
## Storm Collar
(ESC-X, ESQSC, ESQSC-X, EVSC)

These storm collars fit 6, 7 and 8 inch EXCEL chimneys. The EXCEL Universal Storm Collar (ESC) is now the EXCEL Black Label Universal Storm Collar (ESC-X). It is slightly wider at 3 ¾" to accommodate Black Label Radiation Shields and it has both white and black listing labels.

To form an attic insulation shield assembly in an insulated space, use a storm collar in combination with a support box or radiation shield. Either the ESQSC or ESQSC-X are required to form an attic insulation shield on a Square Support (ESS), all other supports and radiation shields can use either collar.

The square design of the Square Support Storm Collar (ESQSC) offers a tighter fit and provides better coverage to prevent cellulose from entering the support box. If installing 5" EXCEL, use the storm collar for EXCELDirect (TM-SC). Use the EVSC Storm Collar for vented flashing.

## Radiation Shield
(ERS)



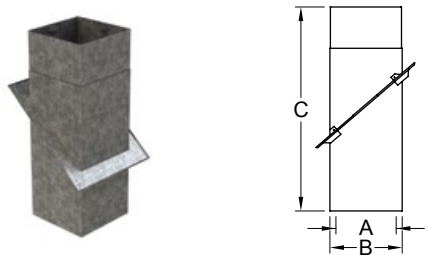

The radiation shield protects combustible framing in the floor or ceiling adjacent to the chimney and also acts as a firestop spacer. When the chimney passes through the radiation shield into an insulated space a universal storm collar must also be installed to prevent the entry of insulation. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **Framing** |
| 5ERS | 10 1/2 | 16 X 16 | 15 3/4 - 28 | 12 x 12 |
| 6ERS | 10 1/2 | 16 X 16 | 15 3/4 - 28 | 12 x 12 |
| 7ERS | 11 1/2 | 16 X 16 | 15 3/4 - 28 | 13 x 13 |
| 8ERS | 12 1/2 | 16 X 16 | 15 3/4 - 28 | 14 x 14 |

Storm collar (ESC-X) ordered separately.

## Radiation Shield for Cathedral Ceiling (ERSC)

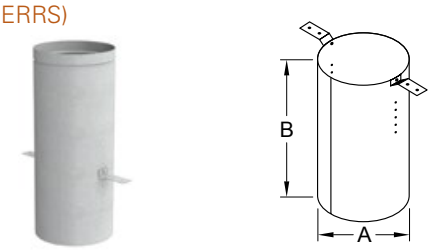



For installations where EXCEL chimney extends through a pitched ceiling. The firestop trim is adjustable to accommodate any pitch and has spacers to ensure that proper clearances are met. In Canada, this part can be used in combination with factory built fireplaces only. For woodstove installations in Canada, the Attic Radiation Shield for Cathedral Ceilings (ERSCA) is required in combination with a Radiation Shield Tube. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **Framing** |
| 6ERSC | 8 1/4 | 10 1/4 | 24-38 | 12 x 12 |
| 7ERSC | 9 1/4 | 11 1/4 | 24-38 | 13 x 13 |
| 8ERSC | 10 1/4 | 12 1/4 | 24-38 | 14 x 14 |

## Roof Radiation Shield
(ERRS)



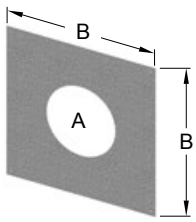

The roof radiation shield is required with some roof support and outside chase installations. Position of the mounting brackets is adjustable for roof pitch. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

INCHES

| Roof Radiation Shield Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6ERRS | 10" | 18" |
| 7ERRS | 11" | 18" |
| 8ERRS | 12" | 18" |

NEW

## Flat Firestop
(EFS)




Available in 5" to 8" diameters. The Flat Firestop is UL Listed for installations in non-combustible construction only (e.g. concrete slab). **It cannot be used as a firestop through floors or walls containing combustibles**. For wood-frame construction, use a standard Radiation Shield or Wall Radiation Shield.

INCHES

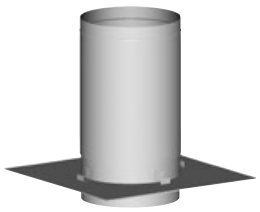
| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 5EFS | 7 3/8" | 18" |
| 6EFS | 8 3/8" | 18" |
| 7EFS | 9 3/8" | 18" |
| 8EFS | 10 3/8" | 18" |

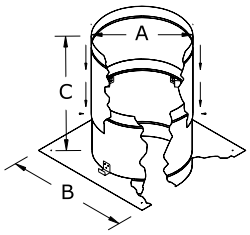
# Canadian Components:

The following components are for Canadian installations only and are not available in the USA.

## Attic Radiation Shields

(ERSA)






The radiation shield protects combustible framing in the floor or ceiling adjacent to the chimney and also acts as a firestop spacer. When the chimney passes through the radiation shield into an insulated space a universal storm collar must be installed on top of the ERSA to prevent the entry of insulation. The ERSA has a flange on the bottom to fasten the radiation shield tube. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

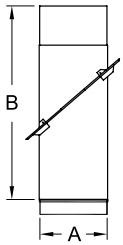
INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 5ERSA | Ø 10 1/2 | 16 X 16 | 13 3/4 - 26 |
| 6ERSA | Ø 10 1/2 | 16 X 16 | 13 3/4 - 26 |
| 7ERSA | Ø 11 1/2 | 16 X 16 | 13 3/4 - 26 |
| 8ERSA | Ø 12 1/2 | 16 X 16 | 13 3/4 - 26 |

*Canada Only, not available in USA*

## Attic Radiation Shield for Cathedral Ceiling

(ERSCA)




Similar to the Attic Radiation Shield (ERSA), only this component is designed for freestanding woodstove installations where insulated chimney passes through a cathedral ceiling. The ERSCA has a flange at its base to connect a Radiation Shield Tube. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

INCHES

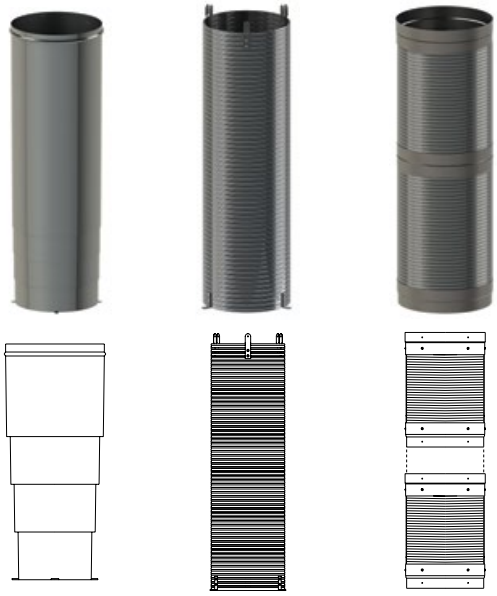
| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6ERSCA | 10 5/8 | 24 – 38 |
| 7ERSCA | 11 5/8 | 24 – 38 |
| 8ERSCA | 12 5/8 | 24 – 38 |

*Canada Only, not available in USA*

## Radiation Shield Tubes

(ERST, ERSF & ERSF10)

ERST ERSF10* ERSF



The radiation shield tube is only used where the chimney is enclosed in the interior of the building (e.g. between the basement ceiling and the attic). It is not required in the attic or on exterior chase installations. It is not required when EXCEL is installed on a fireplace, gas or oil appliance. The ERST or ERSF10 are for straight installations, the ERSF is used when an offset is required in the chimney. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

***ERSF10 does not include a Square Support Adapter (ESQSA); please order one separately for square support installations.***

INCHES

| ERST Dimensions† | | | |
|---|---|---|---|
| **Chimney** | **Diameter** | **Min. Length** | **Max. Length** |
| 6" Ø | 9 3/4 - 10 3/4 | 32 1/4 | 98 1/4 |
| 7" Ø | 10 3/4 - 11 3/4 | 32 1/4 | 98 1/4 |
| 8" Ø | 11 3/4 - 12 3/4 | 32 1/4 | 98 1/4 |
| **ERSF10 Dimensions†** | | | |
| **Chimney** | **Inside diameter** | **Min. Length** | **Max. Length** |
| 6" Ø | 9 3/4 | 36 | 120 |
| 7" Ø | 10 3/4 | 36 | 120 |
| 8" Ø | 11 3/4 | 36 | 120 |
| **ERSF Dimensions†** | | | |
| **Chimney** | **Inside diameter** | **Min. Length** | **Max. Length** |
| 6" Ø | 9 3/4 | 45 | 137 1/2 |
| 7" Ø | 10 3/4 | 45 | 137 1/2 |
| 8" Ø | 11 3/4 | 45 | 137 1/2 |

*†Canada Only, not available in USA*

# EXCEL Offset Tables

Use this table if you are not installing an adjustable length between the elbows.

| LENGTH BETWEEN OFFSETS | 15° Elbows | | 30° Elbows | | 45° Elbows | |
|---|---|---|---|---|---|---|
| | RISE | OFFSET | RISE | OFFSET | RISE | OFFSET |
| **5 INCH Ø** | | | | | | |
| NO LENGTH | 9 1/4 | 1 1/4 | 10 1/2 | 2 3/4 | 11 1/4 | 4 3/4 |
| 6" Length | 13 1/4 | 2 1/4 | 14 1/4 | 5 | 14 1/4 | 7 3/4 |
| 12" Length | 19 | 3 3/4 | 19 1/4 | 8 | 18 1/2 | 12 |
| 18" Length | 25 | 5 1/2 | 24 1/2 | 11 | 22 3/4 | 16 1/4 |
| 24" Length | 30 3/4 | 7 | 29 3/4 | 14 | 27 | 20 1/2 |
| 36" Length | 38 1/2 | 10 | 33 3/4 | 20 | 35 1/2 | 29 |
| 48" Length | 53 3/4 | 13 1/4 | 50 1/2 | 26 | 44 | 37 1/2 |
| 48" + 12" | 63 3/4 | 15 3/4 | 59 1/2 | 31 | 51 1/4 | 44 3/4 |
| 48" + 18" | 69 1/2 | 17 1/2 | 64 1/2 | 34 | 55 1/2 | 49 |
| 48" + 24" | 75 1/4 | 19 | 69 3/4 | 37 | 59 3/4 | 53 1/4 |
| 48"+24"+12" | 85 1/4 | 21 1/2 | 78 3/4 | 42 1/4 | 67 | 60 1/2 |
| 48" + 48" | 98 1/2 | 25 1/4 | 90 1/2 | 49 | 76 3/4 | 70 |
| **6 INCH Ø** | | | | | | |
| NO LENGTH | 9 1/2 | 1 1/4 | 11 | 3 | 12 | 5 |
| 6" Length | 13 1/2 | 2 1/4 | 14 3/4 | 5 | 15 | 8 |
| 12" Length | 19 1/4 | 4 | 19 3/4 | 8 | 19 1/4 | 12 1/4 |
| 18" Length | 25 1/4 | 5 1/2 | 25 | 11 | 23 1/2 | 16 1/2 |
| 24" Length | 31 | 7 | 30 1/4 | 14 | 27 3/4 | 20 3/4 |
| 36" Length | 42 1/2 | 10 | 40 3/4 | 20 | 36 1/4 | 29 1/4 |
| 48" Length | 54 | 13 1/4 | 51 | 26 | 44 3/4 | 37 3/4 |
| 48" + 12" | 64 | 15 3/4 | 60 | 31 1/4 | 52 | 45 |
| 48" + 18" | 69 3/4 | 17 1/2 | 65 | 34 1/4 | 56 1/4 | 49 1/4 |
| 48" + 24" | 75 1/2 | 19 | 70 1/4 | 37 1/4 | 60 1/2 | 53 1/2 |
| 48"+24"+12" | 85 1/2 | 21 3/4 | 79 1/4 | 42 1/4 | 67 3/4 | 60 3/4 |
| 48" +48" | 98 3/4 | 25 1/4 | 91 | 49 1/4 | 77 1/2 | 70 1/2 |
| **7 INCH Ø** | | | | | | |
| NO LENGTH | 9 3/4 | 1 1/4 | 11 1/2 | 3 | 12 3/4 | 5 1/4 |
| 6" Length | 13 3/4 | 2 1/2 | 15 1/4 | 5 1/4 | 15 3/4 | 8 1/4 |
| 12" Length | 19 1/2 | 4 | 20 1/4 | 8 1/4 | 20 | 12 1/2 |
| 18" Length | 25 1/2 | 5 1/2 | 25 1/2 | 11 1/4 | 24 1/4 | 16 3/4 |
| 24" Length | 31 1/4 | 7 | 30 3/4 | 14 1/4 | 28 1/2 | 21 |
| 36" Length | 42 3/4 | 10 1/4 | 41 1/4 | 20 1/4 | 37 | 29 1/2 |
| 48" Length | 54 1/2 | 13 1/4 | 51 1/2 | 26 1/4 | 45 1/2 | 38 |
| 48" + 12" | 64 1/4 | 16 | 60 1/2 | 31 1/4 | 52 3/4 | 45 1/4 |
| 48" + 18" | 70 | 17 1/2 | 65 1/2 | 34 1/4 | 57 | 49 1/2 |
| 48" + 24" | 75 3/4 | 19 | 70 3/4 | 37 1/4 | 61 1/4 | 53 3/4 |
| 48"+24"+12" | 85 3/4 | 21 3/4 | 79 3/4 | 42 1/2 | 68 1/2 | 61 |
| 48" + 48" | 99 | 25 1/4 | 91 1/2 | 49 1/4 | 78 1/4 | 70 3/4 |
| **8 INCH Ø** | | | | | | |
| NO LENGTH | 10 | 1 1/4 | 12 | 3 1/4 | 13 1/2 | 5 1/2 |
| 6" Length | 14 | 2 1/2 | 15 3/4 | 5 1/4 | 16 1/2 | 8 1/2 |
| 12" Length | 19 3/4 | 4 | 20 3/4 | 8 1/4 | 20 3/4 | 12 3/4 |
| 18" Length | 25 3/4 | 5 1/2 | 26 | 11 1/4 | 25 | 17 |
| 24" Length | 31 1/2 | 7 | 31 1/4 | 14 1/4 | 29 1/4 | 21 1/4 |
| 36" Length | 43 | 10 1/4 | 41 3/4 | 20 1/4 | 37 3/4 | 29 3/4 |
| 48" Length | 54 3/4 | 13 1/4 | 52 | 26 1/4 | 46 1/4 | 38 1/4 |
| 48" + 12" | 64 1/2 | 16 | 61 | 31 1/2 | 53 1/2 | 45 1/2 |
| 48" + 18" | 70 1/4 | 17 1/2 | 66 | 34 1/2 | 57 3/4 | 49 3/4 |
| 48" + 24" | 76 1/4 | 19 | 71 1/4 | 37 1/2 | 62 | 54 |
| 48"+24"+12" | 86 | 21 3/4 | 80 1/4 | 42 1/2 | 69 1/4 | 61 1/4 |
| 48" + 48" | 99 1/4 | 25 1/4 | 92 | 49 1/2 | 79 | 71 |

All measurements are in inches

Use this table when an 18 inch adjustable length is required.

| LENGTH BETWEEN OFFSETS | 15° Elbows | | 30° Elbows | | 45° Elbows | |
|---|---|---|---|---|---|---|
| | RISE | OFFSET | RISE | OFFSET | RISE | OFFSET |
| **5 INCH Ø** | | | | | | |
| 6" Length | 23 - 28 3/4 | 5 - 6 1/2 | 22 3/4 - 28 | 10 - 13 | 21 1/2 - 25 3/4 | 14 3/4 - 19 |
| 12" Length | 28 3/4 - 34 1/2 | 6 1/2 - 8 | 28 - 33 1/4 | 13 - 16 | 25 3/4 - 30 | 19 - 23 1/4 |
| 18" Length | 34 1/2 - 40 1/4 | 8 - 9 1/2 | 33 1/4 - 38 1/2 | 16 - 19 | 30 - 34 1/4 | 23 1/4 - 27 1/2 |
| 24" Length | 40 1/4 - 46 1/4 | 9 1/2 - 11 | 38 1/2 - 43 1/2 | 19 - 22 | 34 1/4 - 38 1/2 | 27 1/2 - 31 3/4 |
| 36" Length | 52 - 57 3/4 | 12 3/4 - 14 1/4 | 48 3/4 - 54 | 25 - 28 | 42 3/4 - 47 | 36 - 40 1/4 |
| 48" Length | 63 1/2 - 69 1/4 | 15 3/4 - 17 1/4 | 59 1/4 - 64 1/2 | 31 - 34 | 51 1/4 - 55 1/4 | 44 1/2 - 48 3/4 |
| 48" + 12" | 73 1/2 - 79 1/4 | 18 1/2 - 20 | 68 - 73 1/4 | 36 - 39 | 58 1/4 - 62 1/2 | 51 3/4 - 56 |
| 48" + 18" | 79 1/4 - 85 | 20 - 21 1/2 | 73 1/4 - 78 1/2 | 39 - 42 | 62 1/2 - 66 3/4 | 56 - 60 1/4 |
| 48" + 24" | 85 - 90 3/4 | 21 1/2 - 23 | 78 1/2 - 83 3/4 | 42 - 45 | 66 3/4 - 71 | 60 1/4 - 64 1/2 |
| 48"+24"+12" | 95 - 100 3/4 | 24 1/4 - 25 3/4 | 87 1/4 - 92 1/2 | 47 1/4 - 50 1/4 | 74 - 78 1/4 | 67 1/2 - 71 3/4 |
| 48" + 48" | 108 1/4 - 114 | 27 3/4 - 29 1/4 | 99 1/4 - 104 1/2 | 54 - 57 | 83 3/4 - 88 | 77 1/4 - 81 1/2 |
| **6 INCH Ø** | | | | | | |
| 6" Length | 23 1/4 - 29 | 5 - 6 1/2 | 23 1/4 - 28 1/2 | 10 - 13 | 22 1/4 - 26 1/2 | 15 - 19 1/4 |
| 12" Length | 29 - 34 3/4 | 6 1/2 - 8 | 28 1/2 - 33 3/4 | 13 - 16 | 26 1/2 - 30 1/2 | 19 1/4 - 23 1/2 |
| 18" Length | 34 3/4 - 40 1/2 | 8 - 9 1/2 | 33 3/4 - 39 | 16 - 19 | 30 1/2 - 34 3/4 | 23 1/2 - 27 3/4 |
| 24" Length | 40 1/2 - 46 1/2 | 9 1/2 - 11 1/4 | 39 - 44 | 19 - 22 | 34 3/4 - 39 | 27 3/4 - 32 |
| 36" Length | 52 1/4 - 58 | 12 3/4 - 14 1/4 | 49 1/4 - 54 1/2 | 25 - 28 | 43 1/4 - 47 1/2 | 36 1/4 - 40 1/2 |
| 48" Length | 63 3/4 - 69 1/2 | 15 3/4 - 17 1/4 | 59 3/4 - 65 | 31 - 34 | 51 3/4 - 56 | 44 3/4 - 49 |
| 48" + 12" | 73 3/4 - 79 1/2 | 18 1/2 - 20 | 68 1/2 - 73 3/4 | 36 1/4 - 39 1/4 | 59 - 63 1/4 | 52 - 56 1/4 |
| 48" + 18" | 79 1/2 - 85 1/4 | 20 - 21 1/2 | 73 3/4 - 79 | 39 1/4 - 42 1/4 | 63 1/4 - 67 1/2 | 56 1/4 - 60 1/2 |
| 48" + 24" | 85 1/4 - 91 | 21 1/2 - 23 | 79 - 84 1/4 | 42 1/4 - 45 1/4 | 67 1/2 - 71 3/4 | 60 1/2 - 64 3/4 |
| 48"+24"+12" | 95 1/4 - 101 | 24 1/4 - 25 3/4 | 87 3/4 - 93 | 47 1/4 - 50 1/4 | 74 3/4 - 79 | 67 3/4 - 72 |
| 48" +48" | 108 1/2 - 114 1/4 | 27 3/4 - 29 1/4 | 99 3/4 - 105 | 54 1/4 - 57 1/4 | 84 1/2 - 88 3/4 | 77 1/2 - 81 3/4 |
| **7 INCH Ø** | | | | | | |
| 6" Length | 23 1/2 - 29 1/4 | 5 - 6 1/2 | 23 3/4 - 29 | 10 1/4 - 13 1/4 | 22 3/4 - 27 | 15 1/4 - 19 1/2 |
| 12" Length | 29 1/4 - 35 | 6 1/2 - 8 | 29 - 34 1/4 | 13 1/4 - 16 1/4 | 27 - 31 1/4 | 19 1/2 - 23 3/4 |
| 18" Length | 35 - 40 3/4 | 8 - 9 1/2 | 34 1/4 - 39 1/2 | 16 1/4 - 19 1/4 | 31 1/4 - 35 1/2 | 23 3/4 - 28 |
| 24" Length | 40 3/4 - 46 3/4 | 9 1/2 - 11 1/4 | 39 1/2 - 44 1/2 | 19 1/4 - 22 1/4 | 35 1/2 - 39 3/4 | 28 - 32 1/4 |
| 36" Length | 52 1/2 - 58 1/4 | 12 3/4 - 14 1/4 | 49 3/4 - 55 | 25 1/4 - 28 1/4 | 44 - 48 1/4 | 36 1/2 - 40 3/4 |
| 48" Length | 64 - 69 3/4 | 15 3/4 - 17 1/2 | 60 1/4 - 65 1/2 | 31 1/4 - 34 1/4 | 52 1/2 - 56 3/4 | 45 - 49 1/4 |
| 48" + 12" | 74 - 79 3/4 | 18 1/2 - 20 | 69 - 74 1/4 | 36 1/4 - 39 1/4 | 59 3/4 - 64 | 52 1/4 - 56 1/2 |
| 48" + 18" | 79 3/4 - 85 1/2 | 20 - 21 1/2 | 74 1/4 - 79 1/2 | 39 1/4 - 42 1/4 | 64 - 68 1/4 | 56 1/2 - 60 3/4 |
| 48" + 24" | 85 1/2 - 91 1/4 | 21 1/2 - 23 1/4 | 79 1/2 - 84 3/4 | 42 1/4 - 45 1/4 | 68 1/4 - 72 1/2 | 60 3/4 - 65 |
| 48"+24"+12" | 95 1/2 - 101 1/4 | 24 1/4 - 25 3/4 | 88 1/4 - 93 1/2 | 47 1/2 - 50 1/2 | 75 1/2 - 79 3/4 | 68 - 72 1/4 |
| 48" + 48" | 108 3/4 - 114 1/2 | 27 3/4 - 29 1/4 | 100 1/4 - 105 1/2 | 54 1/4 - 57 1/4 | 85 1/4 - 89 1/2 | 77 3/4 - 82 |
| **8 INCH Ø** | | | | | | |
| 6" Length | 23 3/4 - 29 1/2 | 5 - 6 1/2 | 24 1/4 - 29 1/2 | 10 1/4 - 13 1/4 | 23 1/2 - 27 3/4 | 15 3/4 - 20 |
| 12" Length | 29 1/2- 35 1/4 | 6 1/2 - 8 | 29 1/2 - 34 3/4 | 13 1/4 - 16 1/4 | 27 3/4 - 32 | 20 - 24 1/4 |
| 18" Length | 35 1/4 - 41 | 8 - 9 3/4 | 34 3/4 - 40 | 16 1/4 - 19 1/4 | 32 - 36 1/4 | 24 1/4 - 28 1/2 |
| 24" Length | 41 - 47 | 9 3/4 - 11 1/4 | 40 - 45 | 19 1/4 - 22 1/4 | 36 1/4 - 40 1/2 | 28 1/2 - 32 3/4 |
| 36" Length | 52 3/4 - 58 1/2 | 12 3/4 - 14 1/4 | 50 1/4 - 55 1/2 | 25 1/4 - 28 1/4 | 44 3/4 - 49 | 36 3/4 - 41 |
| 48" Length | 64 1/4 - 70 | 15 3/4 - 17 1/2 | 60 3/4 - 66 | 31 1/4 - 34 1/4 | 53 1/4 - 57 1/2 | 45 1/4 - 49 1/2 |
| 48" + 12" | 74 1/4 - 80 | 18 1/2 - 20 | 69 1/2 - 74 3/4 | 36 1/2 - 39 1/2 | 60 1/2 - 64 3/4 | 52 1/2 - 56 3/4 |
| 48" + 18" | 80 - 85 3/4 | 20 - 21 3/4 | 74 3/4 - 80 | 39 1/2 - 42 1/2 | 64 3/4 - 69 | 56 3/4 - 61 |
| 48" + 24" | 85 3/4 - 91 1/2 | 21 3/4 - 23 1/4 | 80 - 85 1/4 | 42 1/2 - 45 1/2 | 69 - 73 1/4 | 61 - 65 1/4 |
| 48"+24"+12" | 95 3/4 - 101 1/2 | 24 1/4 - 25 3/4 | 88 3/4 - 94 | 47 1/2 - 50 1/2 | 76 1/4 - 80 1/2 | 68 1/4 - 72 1/2 |
| 48" + 48" | 109 - 114 3/4 | 27 3/4 - 29 1/2 | 100 3/4 - 106 | 54 1/2 - 57 1/2 | 86 - 90 1/4 | 78 - 82 1/4 |

All measurements are in inches

# ULTRABlack

DOUBLE WALL STOVE PIPE

# ULTRABlack Technical Information

## Certification

ULTRABlack has been tested and listed by Intertek Testing Services to ULC S641 standards.

## Applications

ULTRABlack is designed to be used as a connector between a freestanding oil, wood or coal burning stove and a masonry or metal chimney. There are four primary advantages to ULTRABlack over single wall connector pipes:

- It offers reduced clearance to combustible materials.
- It is designed to last the lifetime of the stove and/or chimney system.
- It offers reduced creosote formation.
- It is certified for use with mobile home stoves.

## Allowable Flue Gas Temperatures

| | |
|---|---|
| Max Continuous | 650°C (1200°F) |
| Brief Forced Firing | 925°C (1700°F) |
| Tested To | 1150°C (2100°F) |

## Clearance to Combustible Materials

ULTRABlack is certified for 6" clearance with the following exception. When ULTRABlack is used as the connector on a mobile home certified stove the clearance is determined by the installation instructions for the specific stove model being installed.

## Construction

**Flue:** .016" stainless steel.
**Casing:** .019" satin coat steel. Satin coat is specifically designed to be painted.
**Seam:** Interior and exterior seams are seam welded.
**Wall thickness:** Approximately 3/8"
**Paint:** Forrest "Stove Bright" *flat black*

# ULTRABlack Engineering and Design Considerations

## Maximum allowable overall height:

There is no maximum requirement however, as a general guideline we recommend that the length of ULTRABlack not exceed 20 feet.

ULTRABlack assembles like a regular single wall stove pipe - no complicated, unsightly twist lock connectors or spot welds. There is no cutting required and all the screw holes are predrilled. Just put one piece on top of the other and screw together using the black oxide screws provided. Easily fits most stoves, including cast iron stoves and stoves with oval collars. ULTRABlack is approved for mobile home installation on most major stove brands, when installed with EXCEL insulated chimney. For mobile home installations follow the stove manufacturer's installation instructions.

## EXCEL ULTRABlack

Fully Shielded Stove pipe with smooth, clean lines.

- Requires just 6" clearance to combustibles in all diameters - even when installed in a corner, or parallel with a ceiling*.
- Has a smooth, clean appearance to compliment any stove installation.
- Maximizes flue gas temperature, ensuring good draft.
- Minimizes creosote buildup.

* Some stoves may require greater clearances.

Intertek
4005717

# ULTRABlack Product Descriptions

## Lengths (UB5F, UB1F, UB18F, UB2F & UB3F)

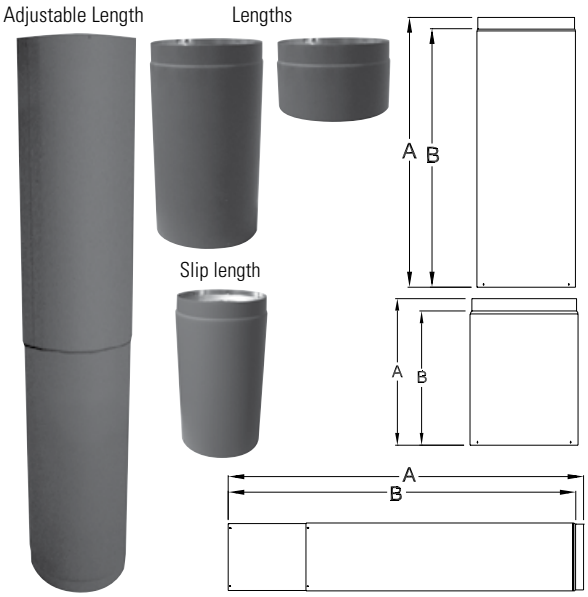
## Adjustable Lengths (UBAF)

## Slip Lengths (UB6SF, UB1SF & UB18SF)

Lengths are available in 5", 12", 18", 24" and 36".

Adjustable Lengths combine a 36" length and a 36" slip length in one box. The UBAF fits all brands of insulated chimney and most brands of wood burning stoves without a stove or chimney adapter. A UBTC trim collar is included with the UBAF.

Slip Lengths slide over a regular straight length allowing you to adjust the overall length of a straight run without cutting. The minimum adjustment can be reached only if the length used below the slip length is long enough to accept it.




INCHES

| Length Dimensions (6-7-8") | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6-7-8 UB5F | 5 | 4 |
| 6-7-8 UB1F | 12 | 11 |
| 6-7-8 UB18F | 18 | 17 |
| 6-7-8 UB2F | 24 | 23 |
| 6-7-8 UB3F | 36 | 35 |

INCHES

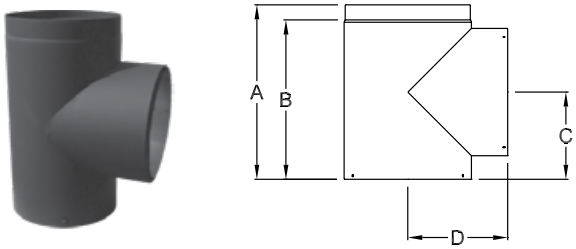
| Slip Length Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A MIN.** | **A MAX.** | **B MIN.** | **B MAX.** |
| UB6SF | 2 | 6 | 1 | 5 |
| UB1SF | 2 | 12 | 1 | 11 |
| UB18SF | 2 | 18 | 1 | 17 |

INCHES

| Adjustable Length Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A MIN.** | **A MAX.** | **B MIN.** | **B MAX.** |
| 6UBAF | 40 | 68 | 39 | 67 |
| 7UBAF | 40 | 68 | 39 | 67 |
| 8UBAF | 40 | 68 | 39 | 67 |

## Tees (UBT)

Combines a 90° transition with a clean out. Includes a tee cap (SE-ØSWTP).



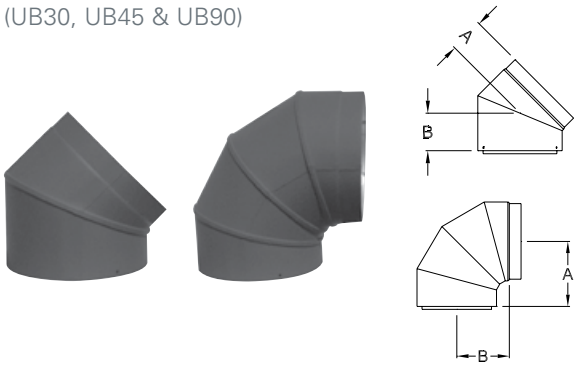

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 6UBT | 12 | 11 | 6 | 5 7/8 |
| 7UBT | 12 | 11 | 6 | 6 3/8 |
| 8UBT | 12 | 11 | 6 | 6 7/8 |

## Elbows

(UB30, UB45 & UB90)

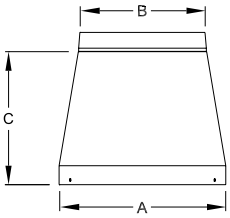
Are available in 30°, 45° and 90° (15° in 6" only).




INCHES

| Dimensions (30°, 45°, 90°) | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6UB15 | 1 3/4 | 2 |
| 6UB30 | 2 5/16 | 2 9/16 |
| 7UB30 | 2 7/16 | 2 11/16 |
| 8UB30 | 2 9/16 | 2 13/16 |
| 6UB45 | 2 3/4 | 3 |
| 7UB45 | 2 15/16 | 3 3/16 |
| 8UB45 | 3 1/8 | 3 3/8 |
| 6UB90 | 5 9/16 | 4 1/2 |
| 7UB90 | 6 1/16 | 5 |
| 8UB90 | 6 9/16 | 5 1/2 |

## Reducers
(UBR)



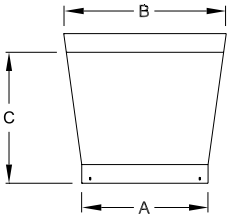

Large end crimped/male end

Designed to reduce the diameter of a system to accommodate a range of flue sizes, appliances and installations. *Note: Decreasing chimney diameter even 1" can have a serious negative impact of chimney performance. Be careful to use these components only when appropriate.*

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| UBR65 | 6 13/16 | 5 1/8 | 7 |
| UBR76 | 7 | 6 | 7 |
| UBR86 | 8 | 6 | 7 |
| UBR87 | 8 | 7 | 7 |

## Increasers
(UBI)



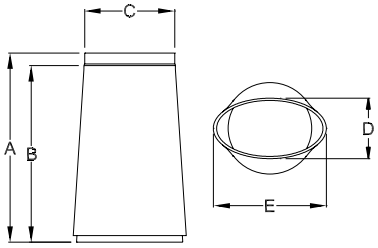

Small end male

Designed to increase the diameter of a system to accommodate a range of flue sizes, appliances and installations. *Note: Increasing chimney diameter can reduce draft and increase creosote formation. Be careful to use these components only when appropriate.*

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| UBI56 | 5 | 6 | 7 |
| UBI67 | 6 | 7 | 7 |
| UBI68 | 6 | 8 | 7 |
| UBI78 | 7 | 8 | 7 |

## Oval to Round Adapter
(UBORF)

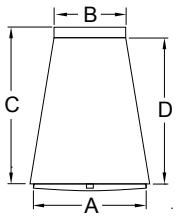



Adapters are designed to connect ULTRABlack to stoves with oval flue collars - such as a Vermont Castings Defiant Encore. Available in 8" oval to 8" round only.

INCHES

| Dimensions (8" only) | | | | | |
|---|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** | **E** |
| 8UBORF | 18 | 17 | 8 | 5 3/4 | 10 3/4 |

## 8" - 6" Oval to Round Adapter
(86UBORF)

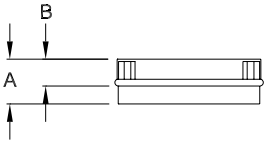



Connects to Vermont Castings Defiant 8" oval flue collar and reduces to 6" ULTRABlack.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 86UBORF | 10 3/8 | 6 | 14 3/8 | 13 3/8 |

## Stove Adapters
(UBSE)

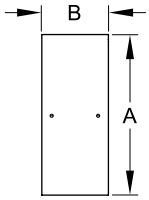



Primarily used with cast iron flue collars. Connect ULTRABlack to stoves with flue collars that do not project above the top of the stove. It can also be used to connect to stoves with irregular shaped or sized flue collars.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6UBSE | 2 1/2 | 1 1/2 |
| 7UBSE | 2 1/2 | 1 1/2 |
| 8UBSE | 2 1/2 | 1 1/2 |

## Barometric Damper Adapter
(SWBA)

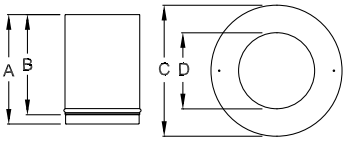



This adapter simplifies the connection between a barometric damper and an EXCELPrime or ULTRABlack tee.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6SWBA | 6 1/16 | 2 3/8 |
| 7SWBA | 7 1/16 | 2 3/8 |
| 8SWBA | 8 1/16 | 2 3/8 |

## Masonry Adapter
(UBM)

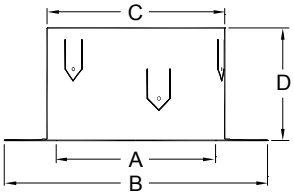



This part acts as a thimble sleeve to secure ULTRABlack or Prime to a masonry chimney that does not have a thimble or has an oversize one. *Note: ULTRABlack is not certified to pass through a combustible wall. An EXCELiner Insulated Thimble (ITH) must be used where there is a combustible wall between the stove and the masonry chimney. Flat trim collar included.*

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 6UBM | 11 7/8 | 10 7/8 | 12 | 6 1/8 |
| 7UBM | 11 7/8 | 10 7/8 | 13 | 7 1/8 |
| 8UBM | 11 7/8 | 10 7/8 | 14 | 8 1/8 |

## Masonry Thimble Adapter
(UBMA)

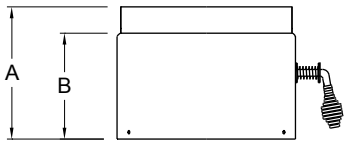



Connect ULTRABlack to a masonry chimney with an existing 8" thimble. *Note: ULTRABlack is not certified to pass through a combustible wall. An EXCELiner Insulated Thimble (ITH) must be used where there is a combustible wall between the stove and the masonry chimney.*

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 6UBMA | 6 7/8 | 11 1/8 | 7 1/2 | 4 3/4 |

## Damper Section
(UBD)




Butterfly type in line damper. They are recommended by some stove manufacturers to help control draft.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| UBD | 5 | 4 |

## Trim Collars
(UBTC)

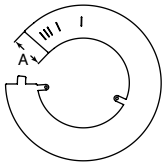
Covers the crimped (top) end of ULTRABlack where it connects to the insulated chimney. A UBTC is included with every UBAF so they rarely need to be purchased separately.

INCHES

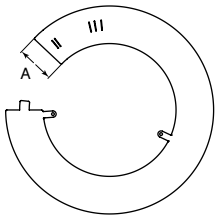
| Dimensions | |
|---|---|
| **Code** | |
| 6UBTC | 22 x 2 |
| 7UBTC | 25 3/8 x 2 |
| 8UBTC | 28 1/2 x 2 |

## Conical Trim Ring

(UBTR)




6UBTR



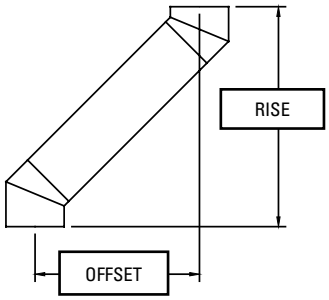

8UBTR

Adjustable to fit the exterior of regular ULTRABlack lengths and slip lengths. There are also slots to fit EXCELPrime single wall pipe. Available in 6" or 8".

INCHES

| Dimensions | |
|---|---|
| **Code** | **A** |
| UBTR | 3" |

# ULTRABlack Offset Tables




Use this table if you are not installing an adjustable length between the elbows.

| LENGTH BETWEEN OFFSETS | 15° Elbows | | 30° Elbows | | 45° Elbows | |
|---|---|---|---|---|---|---|
| | RISE | OFFSET | RISE | OFFSET | RISE | OFFSET |
| **6 INCH Ø** | | | | | | |
| NO LENGTH | 3 3/4 | 1/2 | 7 1/4 | 2 | 8 1/4 | 3 1/2 |
| 5" Length | 7 1/2 | 1 1/2 | 10 1/2 | 4 | 11 | 6 1/4 |
| 6" Slip Length | 7 1/2 | 1 1/2 | - | - | - | - |
| 12" Length | 14 1/4 | 3 1/4 | 16 3/4 | 7 1/2 | 16 | 11 1/4 |
| 18" Length | 20 | 4 3/4 | 21 3/4 | 10 1/2 | 20 1/4 | 15 1/2 |
| 24" Length | 26 | 6 1/2 | 27 | 13 1/2 | 24 1/2 | 19 3/4 |
| 36" Length | 37 1/2 | 9 1/2 | 37 1/2 | 19 1/2 | 33 | 28 1/4 |
| UBAF min | 42 1/4 | 10 3/4 | - | - | - | - |
| UBAF max | 69 1/4 | 18 | - | - | - | - |
| **7 INCH Ø** | | | | | | |
| NO LENGTH | 3 3/4 | 1/2 | 7 3/4 | 2 | 9 | 3 3/4 |
| 5" Length | 7 1/2 | 1 1/2 | 11 | 4 | 11 3/4 | 6 1/2 |
| 6" Slip Length | 7 1/2 | 1 1/2 | - | - | - | - |
| 12" Length | 14 1/4 | 3 1/4 | 17 1/4 | 7 1/2 | 16 3/4 | 11 1/2 |
| 18" Length | 20 | 4 3/4 | 22 1/4 | 10 1/2 | 21 | 15 3/4 |
| 24" Length | 26 | 6 1/2 | 27 1/2 | 13 1/2 | 25 1/4 | 20 |
| 36" Length | 37 1/2 | 9 1/2 | 38 | 19 1/2 | 33 3/4 | 28 1/2 |
| UBAF min | 42 1/4 | 10 3/4 | - | - | - | - |
| UBAF max | 69 1/4 | 18 | - | - | - | - |
| **8 INCH Ø** | | | | | | |
| NO LENGTH | 3 3/4 | 1/2 | 8 1/4 | 2 1/4 | 9 3/4 | 4 |
| 5" Length | 7 1/2 | 1 1/2 | 11 3/4 | 4 1/4 | 12 1/2 | 7 |
| 6" Slip Length | 7 1/2 | 1 1/2 | - | - | - | - |
| 12" Length | 14 1/4 | 3 1/4 | 17 3/4 | 7 3/4 | 17 1/2 | 11 3/4 |
| 18" Length | 20 | 4 3/4 | 23 | 10 3/4 | 21 3/4 | 16 |
| 24" Length | 26 | 6 1/2 | 28 1/4 | 13 3/4 | 26 | 20 1/4 |
| 36" Length | 37 1/2 | 9 1/2 | 38 1/2 | 19 3/4 | 34 1/2 | 28 3/4 |
| UBAF min | 42 1/4 | 10 3/4 | - | - | - | - |
| UBAF max | 69 1/4 | 18 | - | - | - | - |

All measurements are in inches

Use this table if you are installing an adjustable length between the elbows.

| LENGTH BETWEEN OFFSETS | 15° Elbows | | 30° Elbows | | 45° Elbows | |
|---|---|---|---|---|---|---|
| | RISE | OFFSET | RISE | OFFSET | RISE | OFFSET |
| **6 INCH Ø** | | | | | | |
| NO LENGTH + UB6SF | 7 1/2 - 7 1/2 | 1 1/2 - 1 1/2 | 8 1/4 - 10 1/2 | 2 3/4 - 4 | 9 1/4 - 11 | 4 1/2 - 6 1/4 |
| 5" Length + UB6SF | 8 3/4 - 11 1/2 | 1 3/4 - 2 1/2 | 11 3/4 - 14 | 4 3/4 - 6 | 12 - 14 | 7 1/4 - 9 1/4 |
| 5" Length + UB12SF | 14 1/4 - 17 1/4 | 3 1/4 - 4 | 16 3/4 - 19 1/4 | 7 1/2 - 9 | 16 - 18 1/4 | 11 1/4 - 13 1/2 |
| 12" Length + UB12SF | 15 1/2 - 24 | 3 1/2 - 6 | 17 3/4 - 25 1/4 | 8 1/4 - 12 1/2 | 17 - 23 | 12 1/4 - 18 1/4 |
| 18" Length + UB12SF | 21 1/4 - 29 3/4 | 5 1/4 - 7 1/2 | 23 - 30 1/2 | 11 1/4 - 15 1/2 | 21 1/4 - 27 1/4 | 16 1/2 - 22 1/2 |
| 24" Length + UB18SF | 27 - 41 1/4 | 6 3/4 - 10 1/2 | 28 1/4 - 41 | 14 1/4 - 21 1/2 | 25 1/2 - 35 3/4 | 20 3/4 - 31 |
| UBAF | - | - | 41 3/4 - 66 | 22 - 36 | 36 1/2 - 56 1/4 | 31 3/4 - 51 1/2 |
| UBAF + 18" Length | - | - | 55 1/2 - 79 3/4 | 30 - 44 | 47 3/4 - 67 3/4 | 43 - 63 |
| UBAF min + UB6SF | 43 1/2 - 46 1/4 | 11 1/4 - 11 3/4 | - | - | - | - |
| UBAF min + UB18SF | 43 1/2 - 57 3/4 | 11 1/4 - 15 | - | - | - | - |
| UBAF max + UB18SF | 70 1/2 - 84 3/4 | 18 1/2 - 22 1/4 | - | - | - | - |
| 36" + 36" + 12" + UB18SF | 83 1/4 - 97 1/2 | 21 3/4 - 25 1/2 | 78 1/4 - 91 1/4 | 43 1/4 - 50 1/2 | 66 1/2 - 76 3/4 | 61 3/4 - 72 |
| 36" + 36" + 24" + UB18SF | 94 3/4 - 109 | 24 3/4 - 28 3/4 | 88 3/4 - 101 1/2 | 49 1/4 - 56 1/2 | 75 - 85 1/4 | 70 1/4 - 80 1/2 |
| 36" + 36" + 36" + UB18SF | 106 1/4 - 120 1/2 | 28 - 31 3/4 | 99 1/4 - 112 | 55 1/4 - 62 1/2 | 83 1/2 - 93 3/4 | 78 3/4 - 89 |
| **7 INCH Ø** | | | | | | |
| NO LENGTH + UB6SF | 7 1/2 - 7 1/2 | 1 1/2 - 1 1/2 | 8 3/4 - 11 | 2 3/4 - 4 | 10 - 11 3/4 | 4 3/4 - 6 1/2 |
| 5" Length + UB6SF | 8 3/4 - 11 1/2 | 1 3/4 - 2 1/2 | 12 1/4 - 14 1/2 | 4 3/4 - 6 | 12 3/4 - 14 3/4 | 7 1/2 - 9 1/2 |
| 5" Length + UB12SF | 14 1/4 - 17 1/4 | 3 1/4 - 4 | 17 1/4 - 19 3/4 | 7 1/2 - 9 | 16 3/4 - 19 | 7 1/2 - 13 3/4 |
| 12" Length + UB12SF | 15 1/2 - 24 | 3 1/2 - 6 | 18 1/4 - 25 3/4 | 8 1/4 - 12 1/2 | 17 3/4 - 23 3/4 | 12 1/2 - 18 1/2 |
| 18" Length + UB12SF | 21 1/4 - 29 3/4 | 5 1/4 - 7 1/2 | 23 1/2 - 31 | 11 1/4 - 15 1/2 | 22 - 28 | 16 3/4 - 22 3/4 |
| 24" Length + UB18SF | 27 - 41 1/4 | 6 3/4 - 10 1/2 | 28 3/4 - 41 1/2 | 14 1/4 - 21 1/2 | 26 1/4 - 36 1/2 | 21 - 31 1/4 |
| UBAF | - | - | 42 1/4 - 66 1/2 | 22 – 36 | 37 1/4 - 57 | 32 - 51 3/4 |
| UBAF + 18" Length | - | - | 56 – 80 1/4 | 30 – 44 | 48 1/2 - 68 1/2 | 43 1/4 - 63 1/4 |
| UBAF min + UB6SF | 43 1/2 - 46 1/4 | 11 1/4 - 11 3/4 | - | - | - | - |
| UBAF min + UB18SF | 43 1/2 - 57 3/4 | 11 1/4 - 15 | - | - | - | - |
| UBAF max + UB18SF | 70 1/2 - 84 3/4 | 18 1/2 - 22 1/4 | - | - | - | - |
| 36" + 36" + 12" + UB18SF | 83 1/4 - 97 1/2 | 21 3/4 - 25 1/2 | 78 3/4 - 91 3/4 | 43 1/4 - 50 1/2 | 67 1/4 - 77 1/2 | 62 - 72 1/4 |
| 36" + 36" + 24" + UB18SF | 94 3/4 - 109 | 24 3/4 - 28 3/4 | 89 1/4 - 102 | 49 1/4 - 56 1/2 | 75 3/4 - 86 | 70 1/2 - 80 3/4 |
| 36" + 36" + 36" + UB18SF | 106 1/4 - 120 1/2 | 28 - 31 3/4 | 99 3/4 - 112 1/2 | 55 1/4 - 62 1/2 | 84 1/4 - 94 1/2 | 79 - 89 1/4 |
| **8 INCH Ø** | | | | | | |
| NO LENGTH + UB6SF | 7 1/2 - 7 1/2 | 1 1/2 - 1 1/2 | 9 1/4 - 11 3/4 | 3 - 4 1/4 | 10 1/2 - 12 1/2 | 5 - 7 |
| 5" Length + UB6SF | 8 3/4 - 11 1/2 | 1 3/4 - 2 1/2 | 12 3/4 - 15 1/4 | 5 - 6 1/4 | 13 1/2 - 15 1/4 | 7 3/4 - 9 3/4 |
| 5" Length + UB12SF | 14 1/4 - 17 1/4 | 3 1/4 - 4 | 17 3/4 - 20 1/4 | 7 3/4 - 9 1/4 | 17 1/2 - 19 1/2 | 7 3/4 - 14 |
| 12" Length + UB12SF | 15 1/2 - 24 | 3 1/2 - 6 | 18 3/4 - 26 1/2 | 8 1/2 - 12 3/4 | 18 1/4 - 24 1/2 | 12 3/4 - 19 |
| 18" Length + UB12SF | 21 1/4 - 29 3/4 | 5 1/4 - 7 1/2 | 24 - 31 3/4 | 11 1/2 - 15 3/4 | 22 1/2 - 28 3/4 | 17 - 23 1/4 |
| 24" Length + UB18SF | 27 - 41 1/4 | 6 3/4 - 10 1/2 | 29 1/4 - 42 | 14 1/2 - 21 3/4 | 26 3/4 - 37 1/4 | 21 1/4 - 31 3/4 |
| UBAF | - | - | 43 – 67 1/4 | 22 1/4 - 36 1/4 | 38 - 57 3/4 | 32 1/4 - 52 1/4 |
| UBAF + 18" Length | - | - | 56 3/4 - 81 | 30 1/4 - 44 1/4 | 49 1/4 - 69 | 43 3/4 - 63 1/2 |
| UBAF min + UB6SF | 43 1/2 - 46 1/4 | 11 1/4 - 11 3/4 | - | - | - | - |
| UBAF min + UB18SF | 43 1/2 - 57 3/4 | 11 1/4 - 15 | - | - | - | - |
| UBAF max + UB18SF | 70 1/2 - 84 3/4 | 18 1/2 - 22 1/4 | - | - | - | - |
| 36" + 36" + 12" + UB18SF | 83 1/4 - 97 1/2 | 21 3/4 - 25 1/2 | 79 1/2 - 92 1/4 | 43 1/2 - 50 3/4 | 67 3/4 - 78 1/4 | 62 1/4 - 72 3/4 |
| 36" + 36" + 24" + UB18SF | 94 3/4 - 109 | 24 3/4 - 28 3/4 | 89 3/4 - 102 3/4 | 49 1/2 - 56 3/4 | 76 1/4 - 86 3/4 | 70 3/4 - 81 1/4 |
| 36" + 36" + 36" + UB18SF | 106 1/4 - 120 1/2 | 28 - 31 3/4 | 100 1/4 - 113 | 55 1/2 - 62 3/4 | 84 3/4 - 95 1/4 | 79 1/4 - 89 1/2 |

All measurements are in inches

# REVOLUTIONARY NEW STOVE PIPE

THE ONLY STOVE PIPE LISTED FOR **4" CLEARANCE** WITH SHIELDING

# EXCELPrime

SINGLE WALL STOVE PIPE

# EXCELPrime Technical Information

## Certification

EXCELPrime has been tested and listed by Intertek Testing Services

## Applications

EXCELPrime is designed to be used as a connector between a freestanding oil, wood or coal burning stove and a masonry or metal chimney.

## Allowable Flue Gas Temperatures

| | |
|---|---|
| Max Continuous | 650°C (1200°F) |
| Brief Forced Firing | 925°C (1700°F) |
| Tested To | 1150°C (2100°F) |

## Clearance to Combustible Materials

EXCELPrime is certified for 18" clearance to combustible materials or otherwise specified by appliance manufacturer instructions.

With the addition of a listed EXCELPrime Heat Shield, the clearance can be reduced to:

| | |
|---|---|
| 6" dia. | - 4" clearance from the shield |
| 7" & 8" dia. | - 6" clearance from the shield |

## Construction

**Single Wall:** 24ga steel
**Seam:** Laser seam welded
**Paint:** Forrest "Stove Bright" flat black

# EXCELPrime Engineering and Design Considerations

## Maximum allowable overall height:

EXCELPrime must not exceed 10 feet in length and a maximum of two 90-degree elbows are permitted.

To assemble EXCELPrime, ensure that the shrunken end is facing down. Place one length on top of another and screw them together using the screws provided. There is no cutting required and all the screw holes are predrilled. EXCELPrime easily fits most stoves including cast iron stoves and stoves with oval collars.

## EXCELPrime

Single wall stove pipe with smooth, clean lines.

- Heavy wall, 24ga steel.
- Laser welded to be perfectly round and does not require assembly like snap lock pipes.
- Has a 5 year, no questions asked replacement warranty.
- Without shielding, EXCELPrime requires 18" clearance to combustibles in all diameters.
- With an EXCELPrime UL Listed Heat Shield, clearance to combustibles can be reduced to 4" from the exterior of the shield for 6" EXCELPrime or 6" clearance for 7 & 8" EXCELPrime.

C ETL US LISTED
Intertek
4005717

EXCELPrime has been tested and listed by Intertek Testing Services as per Standard ULC-S641 ETL Listing #4005717

## Length (SW1, SW18, SW2, SW3, SW4)

## Slip Length (SW1S)

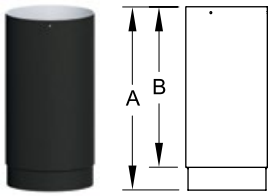
## Adjustable Length (SWA)

Lengths are available in 12", 18", 24", 36" and 48" lengths; 6", 7" and 8" diameter.

Slip Length will slide into a regular straight length allowing you to adjust the overall length of a straight run without cutting. The minimum adjustment can be reached only if the length used below the slip length is long enough to accept it.

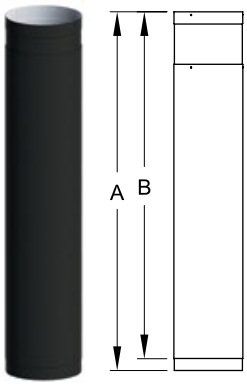
Adjustable Lengths combine a 36" length and a 36" slip length in one box. The SWA provides enough range that it is often the only component required for vertical installations.

Length




Slip length

Adjustable Length




INCHES

| Length Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| SW1 | 12 | 10 5/8 |
| SW18 | 18 | 16 5/8 |
| SW2 | 24 | 22 5/8 |
| SW3 | 36 | 34 5/8 |
| SW4 | 48 | 46 5/8 |

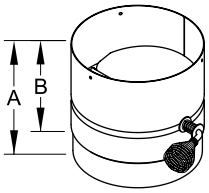
INCHES

| Slip Length Dimensions | | |
|---|---|---|
| **Code** | **Min. Installed Length** | **Max. Installed Length** |
| SW1S | 1 3/8 | 10 5/8 |
| SW6S | 1 3/8 | 4 5/8 |

INCHES

| Adjustable Length Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A MIN.** | **A MAX.** | **B MIN.** | **B MAX.** |
| SWA | 40 | 68 | 38 5/8 | 66 5/8 |

## Damper Section
(SWD)

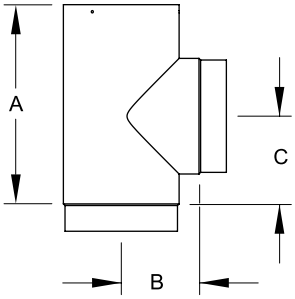



Acts as a 5" length and has a butterfly type incorporated damper. In the closed position, the damper is still 20% open so as not to completely block the chimney.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| SWD | 6 | 4 5/8 |

## Tee
(SWT)

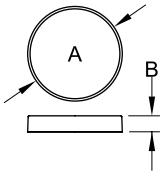



Combines a 90° transition with a clean out. Tee Cap (SWTP) **not included.**

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 6SWT | 10 5/8 | 4 1/4 | 4 3/4 |
| 7SWT | 10 5/8 | 4 3/4 | 4 3/4 |
| 8SWT | 10 5/8 | 5 1/4 | 4 3/4 |

## Tee Cap
(SWTP)

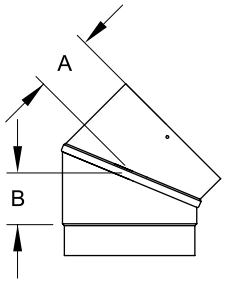


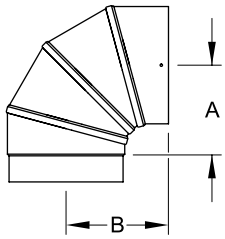

Caps off the open portion of a Tee.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6SWTP | 6 | 1 |
| 7SWTP | 7 | 1 |
| 8SWTP | 8 | 1 |

## Elbow
(SW45, SW90)



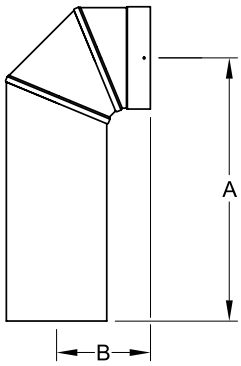



Are available in 45° and 90°

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6SW45 | 2 5/8 | 2 1/4 |
| 7SW45 | 2 7/8 | 2 1/4 |
| 8SW45 | 3 1/8 | 2 1/2 |
| 6SW90 | 4 3/4 | 5 3/8 |
| 7SW90 | 5 1/4 | 5 7/8 |
| 8SW90 | 5 3/4 | 6 3/8 |

## Slip Elbow 90°
(SW90S)

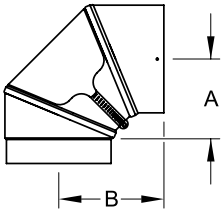



Combines a 90° elbow and a slip length in one piece.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A max.** | **A min.** | **B** |
| 6SW90S | 19 3/4 | 4 | 5 5/8 |
| 7SW90S | 19 3/8 | 4 1/2 | 6 1/8 |
| 8SW90S | 19 1/8 | 5 | 6 5/8 |

## Clean Out Elbow 90°
(SW90C)

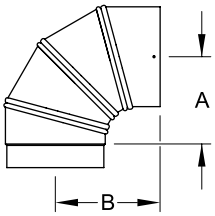



Incorporates an easily removable inspection port that is large enough for a chimney brush.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6SW90C | 4 5/8 | 6 |
| 7SW90C | 5 1/8 | 6 1/2 |
| 8SW90C | 5 5/8 | 7 |

## Adjustable Elbow 90°
(SWA90)

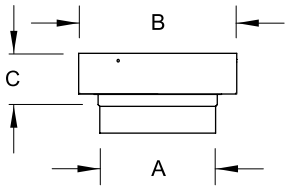



The angle of this elbow is variable between 90° and straight. Patent Pending.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6SWA90 | 5 3/8 | 6 3/8 |

## Increaser
(SWSI)



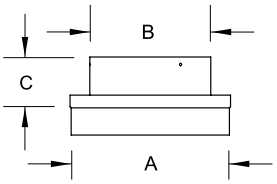

Small end male

Designed to increase the diameter of a system to accommodate a range of flue sizes, appliances and installations. *Note: Increasing chimney diameter can reduce draft and increase creosote formation. Be careful to use these components only when appropriate.*

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| SWSI67 | 6 | 7 1/8 | 2 5/8 |
| SWSI68 | 6 | 8 1/8 | 2 5/8 |

## Reducer
(SWSR)



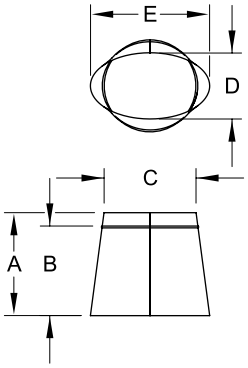

Large end crimped/male end

Designed to reduce the diameter of a system to accommodate a range of flue sizes, appliances and installations. *Note: Decreasing chimney diameter even 1" can have a serious negative impact on chimney performance. Be careful to use these components only when appropriate.*

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| SWSR76 | 7 | 6 1/8 | 2 1/2 |
| SWSR87 | 8 | 7 1/8 | 2 1/2 |
| SWSR86 | 8 | 6 1/8 | 2 1/2 |

## Oval to Round Adapter
(8SWOR)

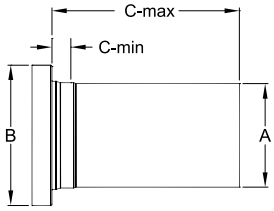



Connects EXCELPrime to stoves with oval flue collars. Available in 8" only.

INCHES

| Dimensions | | | | | |
|---|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** | **E** |
| 8SWOR | 9 | 7 7/8 | 8 | 5 3/4 | 10 3/8 |

## 12" Slip Flue Extension
(SWEX)

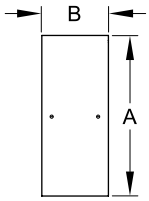



Can be used to replace the EXCEL Flue Extension (EX) in EXCELPrime installations. This 12" long version will slip into a standard length, eliminating the need for a slip length.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C MIN.** | **C MAX.** |
| 6SWEX | 5 7/8 | 8 | 1/2 | 10 - 3/4 |

## Barometric Damper Adapter
(SWBA)

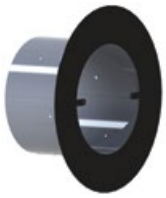


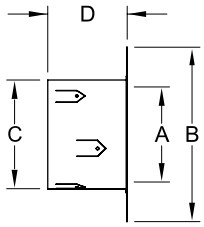

This adapter simplifies the connection between a barometric damper and an EXCELPrime or ULTRABlack tee.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 6SWBA | 6 1/16 | 2 3/8 |
| 7SWBA | 7 1/16 | 2 3/8 |
| 8SWBA | 8 1/16 | 2 3/8 |

## Masonry Adapter
(SWM)





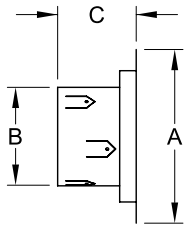

Connects 6" EXCELPrime to a 7" or 8" masonry chimney thimble. *Note: EXCELPrime is not certified to pass through a combustible wall. An EXCELiner Insulated Thimble (ITH, page 41) must be used where there is a combustible wall between the stove and the masonry chimney.*

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 6SWM | 6 1/4 | 10 1/2 | 6 5/8 | 4 3/4 |

See 6UBM for use with 6" Masonry Chimney Thimbles

## Masonry Plug
(SWMP)

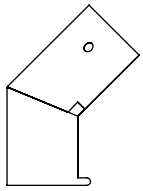


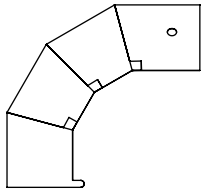

Plugs the opening into an existing masonry chimney that had been previously used to vent another appliance. The Masonry Plug is capable of plugging a round opening up to 8" diameter and is lined with insulation to prevent cold drafts.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| SWMP | 10 1/2 | 5 7/8 | 4 3/4 |

## Heat Shield
(SW1HS, SW2HS, SW3HS, SW45HS, SW90HS)

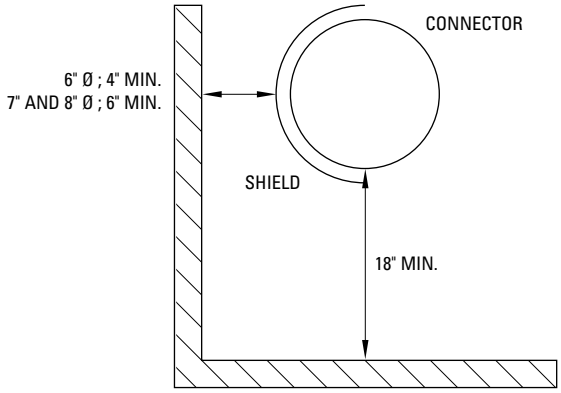




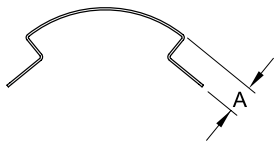
Reduces clearance required from combustible walls and ceilings. EXCELPrime heat shields are UL listed in combination with EXCELPrime only and will not reduce the clearance of other brands of stove pipe (each heatshield includes installed heatshield spacers). For other brands of single wall stove pipe, clearances will be reduced to those of an unlisted heat shield installation. Available in 12", 24", 36", 45° and 90° designs.

INCHES

| Clearance | |
|---|---|
| **Diameter** | **Clearance to Combustibles from Shielding** |
| 6" | 4" |
| 7" | 6" |
| 8" | 6" |




## Heat Shield Spacer
(SWHSS)




Used to maintain 7/8" spacing where shields do not overlap.

INCHES

| Dimensions | |
|---|---|
| **Code** | **A** |
| SWHSS | 7/8 |

# EXCELPrime Offset Tables

Use this table if you are not installing an adjustable length between the elbows.

| LENGTH BETWEEN OFFSETS | 45° Elbows | |
|---|---|---|
| | RISE | OFFSET |
| **6 INCH Ø** | | |
| NO LENGTH | 8 1/4 | 3 1/2 |
| 6" SLIP LENGTH | 11 1/2 | 6 3/4 |
| 12" LENGTH | 15 3/4 | 11 |
| 18" LENGTH | 20 | 15 1/4 |
| 24" LENGTH | 24 1/4 | 19 1/2 |
| 36" LENGTH | 32 3/4 | 28 |
| SWA min | 35 3/4 | 30 3/4 |
| SWA max | 55 1/2 | 50 1/2 |
| **7 INCH Ø** | | |
| NO LENGTH | 8 3/4 | 3 1/2 |
| 6" SLIP LENGTH | 12 | 7 |
| 12" LENGTH | 16 1/4 | 11 1/4 |
| 18" LENGTH | 20 1/2 | 15 1/2 |
| 24" LENGTH | 24 3/4 | 19 1/2 |
| 36" LENGTH | 33 1/4 | 28 |
| SWA min | 36 | 31 |
| SWA max | 55 3/4 | 50 3/4 |
| **8 INCH Ø** | | |
| NO LENGTH | 9 1/2 | 4 |
| 6" SLIP LENGTH MAX | 12 3/4 | 7 1/4 |
| 12" LENGTH | 17 | 11 1/2 |
| 18" LENGTH | 21 1/4 | 15 3/4 |
| 24" LENGTH | 25 1/2 | 20 |
| 36" LENGTH | 34 | 28 1/2 |
| SWA min | 37 | 31 1/4 |
| SWA max | 56 3/4 | 51 |

All measurements are in inches

Use this table if you are installing an adjustable length between the elbows.

| LENGTH BETWEEN OFFSETS | 45° Elbows | |
|---|---|---|
| | RISE | OFFSET |
| **6 INCH Ø** | | |
| NO LENGTH + L6S | - 11 1/2 | - 6 3/4 |
| 12" LENGTH + L6S | 16 3/4 - 19 | 12 - 14 1/4 |
| 12" LENGTH + L12S | 16 3/4 - 23 1/4 | 12 - 18 1/2 |
| 18" LENGTH + L12S | 21 - 27 1/2 | 16 1/4 - 22 3/4 |
| 24" LENGTH + L12S | 25 1/4 - 31 3/4 | 20 1/2 - 27 |
| 18" + 12" LENGTH + L12S | 28 1/2 - 35 | 23 3/4 - 30 1/4 |
| 36" LENGTH + L12S | 33 3/4 - 40 1/4 | 29 - 35 1/2 |
| SWA | 36 1/2 - 55 1/2 | 31 3/4 - 50 1/2 |
| **7 INCH Ø** | | |
| NO LENGTH + L6S | - 12 | - 7 |
| 12" LENGTH + L6S | 17 1/4 - 19 1/2 | 12 - 14 1/2 |
| 12" LENGTH + L12S | 17 1/4 - 23 3/4 | 12 - 18 3/4 |
| 18" LENGTH + L12S | 21 1/2 - 28 | 16 1/4 - 23 |
| 24" LENGTH + L12S | 25 3/4 - 32 1/4 | 20 1/2 - 27 1/4 |
| 18" + 12" LENGTH + L12S | 29 - 35 1/2 | 23 3/4 - 30 1/2 |
| 36" LENGTH + L12S | 34 1/4 - 40 3/4 | 29 - 35 1/2 |
| SWA | 37 - 55 3/4 | 32 - 50 3/4 |
| **8 INCH Ø** | | |
| NO LENGTH + L6S | - 12 3/4 | - 7 1/4 |
| 12" LENGTH + L6S | 18 - 20 1/2 | 12 1/2 - 14 3/4 |
| 12" LENGTH + L12S | 18 - 24 3/4 | 12 1/2 - 19 |
| 18" LENGTH + L12S | 22 1/4 - 28 3/4 | 16 3/4 - 23 1/4 |
| 24" LENGTH + L12S | 26 1/2 - 33 | 21 - 27 1/2 |
| 18" + 12" LENGTH + L12S | 29 3/4 - 36 1/2 | 24 1/4 - 30 3/4 |
| 36" LENGTH + L12S | 35 - 41 1/2 | 29 1/2 - 36 |
| SWA | 38 - 56 3/4 | 32 1/4 - 51 |

All measurements are in inches

# EASY TO INSTALL
# EASY TO MAINTAIN
# SUPERIOR QUALITY PRODUCT

Manufactured using Type 304 stainless steel, EXCELiner is listed to UL and ULC standards by Intertek Testing Services to be used as a liner in a new chimney or to reline an existing chimney. Designed to withstand chimney fires without damage and to facilitate installation, its perfectly round, smooth shape allows lengths to fit together effortlessly. Simply line up the pre-punched holes, fasten with the stainless steel rivets provided and you're done!

EXCELiner offers versatility and a cost-effective solution, with a large range of lengths, connections and diameters, making it an excellent option when used:

- to replace clay tile liners or to reline clay tile liners which have become cracked, misused, or had chimney fires;
- to improve the safety, performance and efficiency of wood or gas-burning stoves and fireplace inserts by reducing the chimney to the correct size for the appliance;
- to improve draft, reduce fuel consumption, and help to ensure consistent appliance operation;
- as the flue in a new masonry chimney or in an unlined chimney.

EXCELiner can be used in combination with EXCELFlex liner to install in difficult to maneuver places.

# EXCELiner

RIGID LINER FOR MASONRY CHIMNEYS

# EXCELiner Technical Information

## Certification

EXCELiner is tested and listed by Intertek Testing Services to the following standards:

**ULC S-635 - Standard for relining existing masonry chimneys in Canada.**

**ULC S-640 - Standard for liners for new masonry chimneys in Canada.**

**UL 1777 - Standard for liners in new and existing masonry chimneys in the USA.**

The installation requirements vary depending on which standard your installation must meet, particularly with respect to the requirements for insulation and clearance from the liner. You must ensure that your EXCELiner is installed in accordance with your local building codes.

EXCELiner is available in 5", 5.5", 6", 7" and 8" diameters.

EXCELiner is certified for installation in combination with all certified brands of flexible chimney liner.

## Applications

EXCELiner is certified as a chimney liner for use on appliances that burn:

- Wood
- Oil
- Natural or LP Gas

## Allowable Flue Gas Temperatures

| | |
|---|---|
| Max Continuous | 650°C (1200°F) |
| Brief Forced Firing | 925°C (1700°F) |
| Tested To | 1150°C (2100°F) |

## Clearance to Combustible Materials

The clearance between EXCELiner and surrounding combustible and non-combustible materials varies with the type of installation. Please refer to the installation instructions for specific details for your application.

## Construction

**Single wall:** .016" or .025" stainless steel (all tees are heavy gauge .025").
**Seam:** Continuous seam welded.
**Insulation:** Optional (required for some applications) Foil backed ceramic liner.

# EXCELiner Engineering and Design Considerations

## EXCELiner is a fast, cost effective solution to the following chimney situations:

To repair cracked or damaged clay tile liners. EXCELiner is designed and approved to replace clay tile liners which have become cracked from age, misuse, or chimney fires. EXCELiner can be used to reline structurally sound masonry chimneys where the liners have deteriorated due to chimney fires, spalled tiles, moisture damage or eroded mortar joints.

To improve the safety, performance and efficiency of wood or gas burning stoves and fireplace inserts. By reducing the chimney to the correct size for the appliance EXCELiner improves draft, reduces fuel consumption, and helps ensure consistent operation. There is less creosote formation in a properly sized flue which decreases the probability of a chimney fire.

EXCELiner is listed to UL and ULC standards by Intertek Testing Services to be used as stainless steel liner in a new chimney, instead of a clay tile liner. Unlike clay tile liners, EXCELiner can withstand chimney fires without damage and comes with a lifetime warranty.

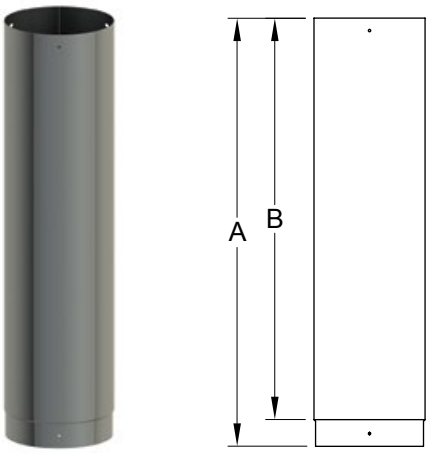
## EXCELiner is easier to clean

EXCELiner's smooth surface accumulates less creosote than a flexible liner and is much easier to clean.

**EXCELiner has been tested and listed to the ULC S-635 ULC S-640 and UL 1777 chimney liner standards by INTERTEK.**

# EXCELiner Product Descriptions

## Lengths
(LL4, LL3, LL2 & LL1)



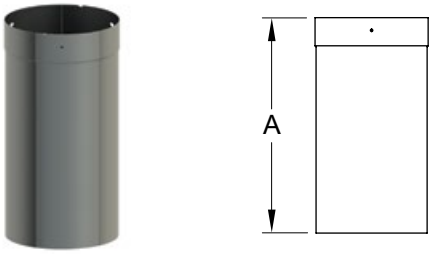

EXCELiner is available in 4', 3', 2' and 1' lengths. EXCELiner components fasten together with 100% stainless steel pop rivets wich are supplied with the liner. The holes and slots for the rivets are factory pre-punched so no drilling is required. The male and female ends are hemmed to make the liner more rigid and reduce the likelihood of cutting yourself during installation.

**EXCELiner is available in 5", 5.5", 6", 7" and 8" diameter.**

INCHES

| Length Dimensions | | |
|---|---|---|
| | **A** | **B** |
| LL1 | 11 5/8 | 10 1/4 |
| LL2 | 23 5/8 | 21 1/4 |
| LL3 | 35 1/2 | 33 1/8 |
| LL4 | 47 1/2 | 45 1/8 |

## Slip Lengths
(LLA3 & LLA1)

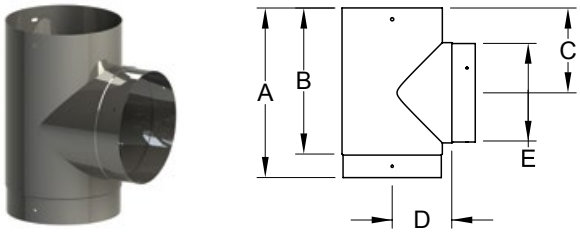



Slip lengths are available in 3' and 1' lengths. Slip lengths are used to adjust the length of the system without cutting. *Note: Slip lengths must be installed above a fixed length or they will not adjust. They should not be installed immediately above a tee or elbow.*

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A MIN.** | **A MAX.** |
| LLA1 | 1 3/8 | 11 5/8 |
| LLA3 | 1 3/8 | 35 1/2 |

## Split Base Tees
(LT)

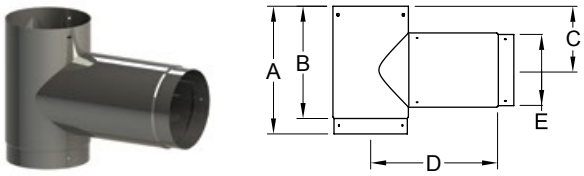



EXCELiner tees are made from .025" thick stainless steel. The removable snout is fastened to the body of the tee with heavy duty stainless steel screws. **All 5 1/2", and 6" tees have a 6" diameter snout so that they can connect to 6" smoke pipe without a reducer.** Tee Cap (LTC) not included.

INCHES

| Dimensions | | | | | |
|---|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** | **E** |
| 5LT | 9 3/8 | 8 | 4 5/8 | 3 1/8 | 4 7/8 |
| 55LT | 9 7/8 | 8 3/8 | 4 7/8 | 3 3/8 | 5 7/8 |
| 6LT | 10 3/8 | 9 | 5 1/8 | 3 5/8 | 5 7/8 |
| 7LT | 11 3/8 | 10 | 5 5/8 | 4 1/8 | 6 7/8 |
| 8LT | 12 3/8 | 11 | 6 1/8 | 4 5/8 | 7 7/8 |

## Adjustable Snout Tees
(LTA)



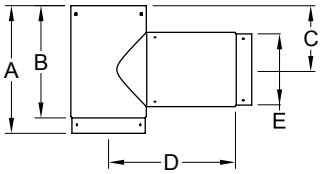

EXCELiner tees are made from .025" thick stainless steel. The LTA eliminates the difficult job of cutting and fastening a short horizontal length of liner in the breeching. **All 5 1/2", and 6" tees have a 6" diameter snout so that they can connect to 6" smoke pipe without a reducer.** Tee Cap (LTC) not included.

INCHES

| Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D MIN.** | **D MAX.** | **E** |
| 5LTA | 9 3/8 | 8 | 4 5/8 | 9 5/8 | 15 3/4 | 4 7/8 |
| 55LTA | 9 7/8 | 8 1/2 | 4 7/8 | 9 7/8 | 16 | 5 7/8 |
| 6LTA | 10 3/8 | 9 | 5 1/8 | 10 1/8 | 16 1/4 | 5 7/8 |
| 7LTA | 11 3/8 | 10 | 5 5/8 | 10 5/8 | 16 5/8 | 6 7/8 |
| 8LTA | 12 3/8 | 11 | 6 1/8 | 11 1/8 | 17 1/8 | 7 7/8 |

## Twist Lock Tee

(LTL)



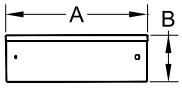

The Twist Lock Tee is ideal for tight installations. The telescopic snout connects to the body of the tee with a twist action and locks into place with fold over tabs.

INCHES

| Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D MIN.** | **D MAX.** | **E** |
| 5LTL | 10 1/4 | 8 7/8 | 5 1/8 | 9 3/4 | 15 7/8 | 4 7/8 |
| 55LTL | 10 3/4 | 9 3/8 | 5 5/8 | 10 | 16 1/8 | 5 15/16 |
| 6LTL | 11 1/4 | 9 7/8 | 5 5/8 | 10 1/4 | 16 3/8 | 5 7/8 |
| 7LTL | 12 1/4 | 10 7/8 | 6 1/8 | 10 3/4 | 16 7/8 | 6 7/8 |
| 8LTL | 13 1/4 | 11 7/8 | 7 1/8 | 11 1/4 | 17 3/8 | 7 7/8 |

## Tee Cap

(LTC)



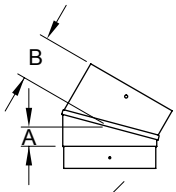

Blocks off the open portion of the tee.

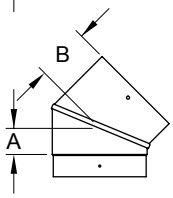
INCHES

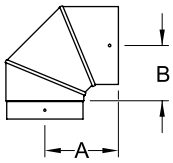
| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 5LTC | 5 | 1 |
| 55LTC | 5 1/2 | 1 |
| 6LTC | 6 | 1 |
| 7LTC | 7 | 1 |
| 8LTC | 8 | 1 |

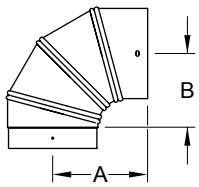
## Elbows

(LE30, LE45, LE90 & LEA90)









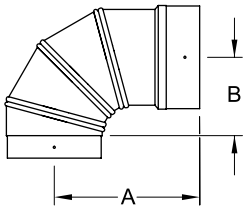

The elbows are used when a directional change is required (LEA90 can be adjusted).

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 5LE30 | 1 1/4 | 2 5/8 |
| 55LE30 | 1 3/8 | 2 3/4 |
| 6LE30 | 1 3/8 | 2 7/8 |
| 7LE30 | 1 1/2 | 3 |
| 8LE30 | 1 5/8 | 3 1/8 |
| 5LE45 | 1 5/8 | 3 |
| 55LE45 | 1 3/4 | 3 1/8 |
| 6LE45 | 1 7/8 | 3 1/4 |
| 7LE45 | 2 | 3 1/2 |
| 8LE45 | 2 1/4 | 3 5/8 |
| 5LE90 | 5 1/4 | 3 7/8 |
| 55LE90 | 5 1/2 | 4 1/8 |
| 6LE90 | 5 3/8 | 4 3/8 |
| 7LE90 | 6 1/4 | 4 7/8 |
| 8LE90 | 6 3/4 | 5 3/8 |
| 5LEA90 | 5 7/8 | 4 1/2 |
| 55LEA90 | 6 1/8 | 4 3/4 |
| 6LEA90 | 6 3/8 | 5 |
| 7LEA90 | 6 7/8 | 5 1/2 |
| 8LEA90 | 7 3/8 | 6 |

## Adjustable Flex Adapter Elbow

(LAF90)

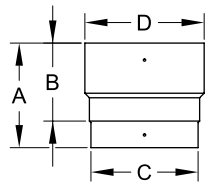


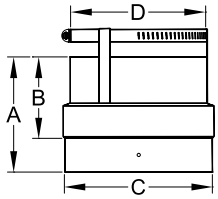

This adjustable elbow is designed for use during the installation of an insert. The angle of the elbow is adjustable to ease installation, and three tabs on the inside of the elbow help secure a flexible liner in place without tearing.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 5LAF90 | 8 1/2 | 4 1/2 |
| 55LAF90 | 8 3/4 | 4 3/4 |
| 6LAF90 | 9 1/4 | 5 |
| 7LAF90 | 9 3/4 | 5 1/2 |
| 8LAF90 | 10 1/4 | 6 |

## Flex Liner Adapters
(LAF)






*Note: The male end of EXCELiner will fit into most brands of stainless flex (except for some models of flex which are intentionally made undersize) so no adapter is generally required when the flex is installed below the rigid.*

Can be used either as an appliance adapter for stainless flex or to connect rigid EXCELiner to flex. The 6LAF5 and 6LAF55 will connect an appliance with a 6" flue outlet to 5" or 5 1/2" flex liner respectively.

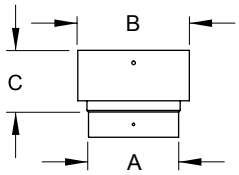
INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 4LAF | 4 1/2 | 1 3/4 | 3 7/8 | 4 1/2 |
| 5LAF | 5 3/4 | 4 1/4 | 4 7/8 | 5 1/2 |
| 55LAF | 5 3/4 | 4 1/4 | 5 3/8 | 6 |
| 6LAF | 5 3/4 | 4 1/4 | 5 7/8 | 6 1/2 |
| 7LAF | 5 3/4 | 4 1/4 | 6 7/8 | 7 1/2 |
| 8LAF | 5 3/4 | 4 1/4 | 7 7/8 | 8 1/2 |

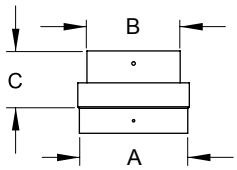
| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 6LAF5 | 4 5/8 | 3 1/4 | 5 7/8 | 5 1/2 |
| 6LAF55 | 3 3/8 | 1 3/4 | 5 7/8 | 6 |

## Increasers and Reducers
(LI & LR)

Increaser




Reducer



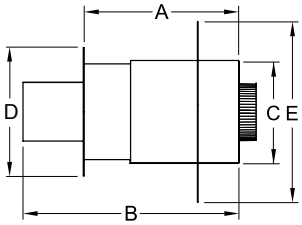

Designed to increase or reduce the size of an EXCELiner to accommodate a range of flue sizes, appliances and installations. *Note: Increasing or decreasing chimney size can have a negative impact of chimney performance and safety. Use these components only when appropriate.*

INCHES

| Increaser Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| LI56 | 4 7/8 | 6 | 3 1/4 |
| LI556 | 5 3/8 | 6 | 3 1/4 |
| LI67 | 5 7/8 | 7 | 3 1/4 |
| LI78 | 6 7/8 | 8 | 3 1/4 |

| Reducer Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| LR65 | 5 7/8 | 5 | 3 |
| LR655 | 5 7/8 | 5 1/2 | 3 |
| LR76 | 6 7/8 | 6 | 3 |
| LR87 | 7 7/8 | 7 | 3 |

## Insulated Wall Thimbles
(ITH)

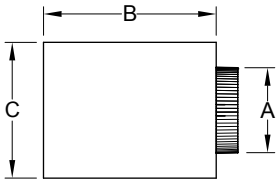



The ITH is tested and listed to connect through a combustible wall into a masonry chimney. It is adjustable to accommodate wall thickness up to 10" and can be combined with any UL listed liner system (ULC S-635, ULC S-640 or UL 1777). Not available in 5.5"

INCHES

| Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| **Code** | **A MIN.** | **A MAX.** | **B** | **C** | **D** | **E** |
| 5ITH | 7 1/2 | 13 | 20 | 8 3/4 | 11 | 15 1/2 |
| 6ITH | 7 1/2 | 13 | 20 | 9 3/4 | 12 | 17 |
| 7ITH | 7 1/2 | 13 | 20 | 10 3/4 | 13 | 18 1/2 |
| 8ITH | 7 1/2 | 13 | 20 | 11 3/4 | 14 | 20 |

## ITH Extension
(ITHE)

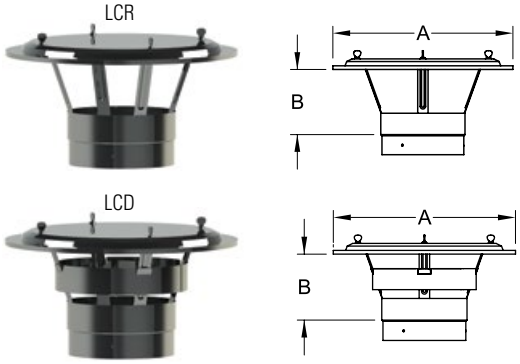



UL Listed extension for the Insulated Wall Thimble (ITH). Increases the total depth of the ITH to 24".

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 5ITHE | 4 7/8 | 13 1/2 | 8 7/16 |
| 6ITHE | 5 7/8 | 13 1/2 | 9 7/16 |
| 7ITHE | 6 7/8 | 13 1/2 | 10 7/16 |
| 8ITHE | 7 7/8 | 13 1/2 | 11 7/16 |

## Rain Caps
(LCR, LCD)

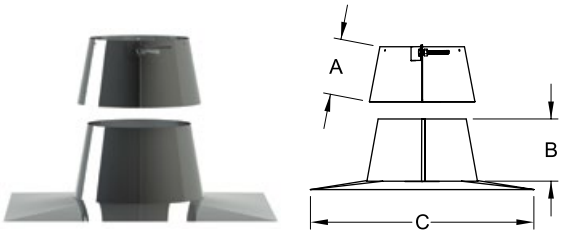



EXCELiner rain caps are made entirely of type 304 stainless steel. The top is held in place with four wing nuts on the regular (LCR) and deluxe (LCD) rain caps for easy removal and cleaning without the need to remove the rain cap itself. The deluxe cap has a stainless steel band.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 5 LCR & LCD | 13 | 3 7/8 |
| 55 LCR & LCD | 13 | 4 |
| 6 LCR & LCD | 13 | 4 1/8 |
| 7 LCR & LCD | 13 | 4 1/4 |
| 8 LCR & LCD | 13 | 4 3/8 |

## Top Supports
(LSA, LSAL, LSAG & LSAGL)




The top support is designed to seal off the top of the liner system and support the vertical liner. It is available in either stainless steel or galvalume. There are two base sizes available - 16" X 16" and 24" X 24".

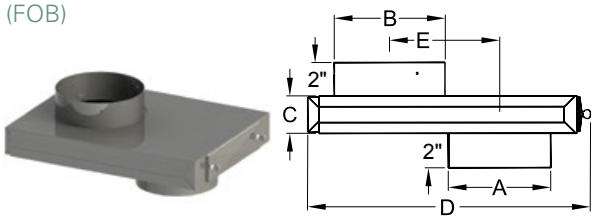
INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| LSA | 4 | 4 1/2 | 16 |
| LSAL | 4 | 4 1/2 | 24 |
| LSAG | 4 | 4 1/2 | 16 |
| LSAGL | 4 | 4 1/2 | 24 |

## Base Support
(LSB)

The base support is designed to seal and support a liner system. It is available in galvalume only. Support capacity 40'.

## Offset Box
(FOB)




For tight insert installations that need to be offset quickly in order to align with the flue. The Offset Box is adjustable in length and has a clean-out port with removable thumb screws.

INCHES

| Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D MIN.** | **D MAX.** | **E MIN.** | **E MAX.** |
| 6FOB | 5 7/8 | 6 3/8 | 2 1/8 | 15 5/8 | 20 5/8 | 6 3/8 | 10 5/8 |
| 8FOB | 7 7/8 | 8 3/8 | 2 3/16 | 17 7/8 | 21 5/8 | 6 5/8 | 9 5/8 |

# Model RIS

ALL FUEL, INSULATED CHIMNEY SYSTEM 10" - 24"

# Model RIS Technical Information

## Model RIS 10"-16" Certification

Model RIS is tested and listed by Intertek Testing Services to the following standards:

- **UL 103HT**
- **CAN/ULC-S604**
- **CAN/ULC-S610**

## Allowable Flue Gas Temperatures

| | |
|---|---|
| Max Continuous | 540°C (1000°F) |
| Brief Forced Firing | 760°C (1400°F) |
| Tested To 3X 10 minutes | 1150°C (2100°F) |

## Model RIS 18"-24" Certification

Model RIS is tested and listed by Intertek Testing Services to the following standards:

- **UL 103**
- **CAN/ULC-S604**
- **CAN/ULC-S610**

## Allowable Flue Gas Temperatures

| | |
|---|---|
| Max Continuous | 540°C (1000°F) |
| Brief Forced Firing | 760°C (1400°F) |
| Tested To 30 minutes | 925°C (1700°F) |

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## Applications

RIS chimney is suitable for use on appliances that burn:

- Wood
- Oil
- Coal
- Natural or LP Gas
- Charcoal

Model RIS is certified to vent wood burning stoves, fireplaces and residential furnaces. In addition, there are a number of RIS components specifically designed and certified to vent large open masonry fireplaces burning wood and/or gas. There are also specific components designed to extend masonry chimneys and repair earthquake damaged masonry chimneys.

***Note for customers in Canada:*** *RIS chimney is not certified to the CAN/ULC-S629 standard but is certified to CAN/ULC-S610 in combination with some solid fuel appliances (e.g. Renaissance Fireplaces). Only install RIS on wood fireplaces certified to CAN/ULC-S610 in combination with RIS or contact the appropriate authorities for approval, beforehand. ICC can provide complete engineering services (sizing, material selection, installation recommendations, drawings etc.) to assist you in obtaining approval. However, we can not guarantee that it will be accepted in all cases. If you have a large fireplace project you would like to quote on please be sure to contact us in advance so we can work with your local engineer, architect and building authority.*

## Clearance to Combustible Materials

Model RIS is certified for 2" clearance to combustible materials.

## Construction

**Flue:** .018" - .025", stainless steel.
**Casing*:** .018" - .025", stainless steel or .018" - .025" galvalume steel.
**Seam:** Interior and exterior seams are continuous seam welded.
**Insulation:** Thermoplus continuous blanket.
**Wall thickness:** 1"

**See page 93 of this catalog for recommended chimney sizing for masonry fireplaces.**

***Note:*** *There are some components of RIS chimney that are available in 10" and 12" diameter only. Some of these parts are designed for specific fireplaces which are not described in the catalog.*

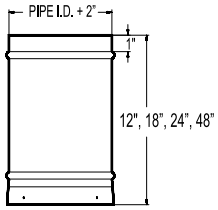
** See Lengths (RIL), for types of stainless steel by diameter.*

**Model RIS 10"-16" has been tested and listed to the UL 103HT chimney standards by INTERTEK.**

**Model RIS 18"-24" has been tested and listed to the UL 103 chimney standards by INTERTEK.**

# Model RIS Product Descriptions

## Lengths
(RIL)

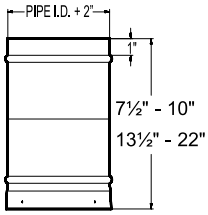



RIS is available in 12", 18", 24" and 48" lengths. Deduct 1 1/2" from overall length to determine the actual installed dimension.

Diameters 10" – 14" have a 430 stainless steel exterior like EXCEL.

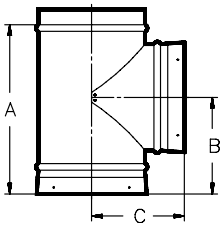
Diameters 16" – 24" have either a galvalume or 304 stainless steel exterior.

## Adjustable Lengths
(RILA)




12" and 24" adjustable lengths are available. The 12" can be adjusted from 7 1/2 to 10". The 24" can be adjusted from 13 1/2 to 22". Deduct 1 1/2" from overall length to determine the actual installed length. *Note: Adjustable lengths must be installed above a fixed length or they will not work. They should not be installed immediately above a round or square support, tee or elbow.*

## Insulated Tees
(RIT)

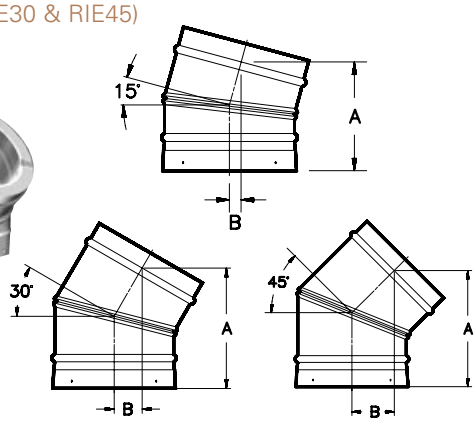



Designed to connect horizontal and vertical lengths of the chimney. Does not include a tee cap (RITC).

INCHES

| Dimensions | | | |
|---|---|---|---|
| **PIPE I.D.** | **A** | **B** | **C** |
| 10 | 16 3/4 | 9 | 9 |
| 12 | 18 3/4 | 10 | 10 |
| 14 | 20 3/4 | 11 | 11 |
| 16 | 22 3/4 | 12 | 12 |
| 18 | 24 3/4 | 13 | 13 |
| 20 | 26 3/4 | 14 | 14 |
| 22 | 28 3/4 | 15 | 15 |
| 24 | 30 3/4 | 16 | 16 |

## Elbows
(RIE15, RIE30 & RIE45)

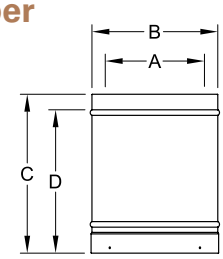



Used when a directional change is required. *Note: 45° elbows are approved for use in Canada only.*

INCHES

| Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| | **15°** | | **30°** | | **45° CANADA ONLY** | |
| **PIPE I.D.** | **A** | **B** | **A** | **B** | **A** | **B** |
| 10 | 6 7/8 | 3/4 | 8 1/2 | 1 7/8 | 9 3/8 | 2 3/4 |
| 12 | 7 3/8 | 7/8 | 9 | 2 | 10 | 3 1/4 |
| 14 | 7 7/8 | 7/8 | 9 1/2 | 2 1/8 | 10 3/4 | 3 3/4 |
| 16 | 8 3/8 | 1 | 10 | 2 1/4 | 11 1/2 | 4 1/4 |
| 18 | 8 7/8 | 1 | 10 1/2 | 2 1/2 | 12 1/4 | 4 5/8 |
| 20 | 9 3/8 | 1 1/8 | 11 | 2 5/8 | 12 7/8 | 5 1/8 |
| 22 | 9 7/8 | 1 1/8 | 11 1/2 | 2 3/4 | 13 1/2 | 5 5/8 |
| 24 | 10 3/8 | 1 1/4 | 12 | 2 7/8 | 14 1/4 | 6 |

## Chimney Top Damper
(RCTD)

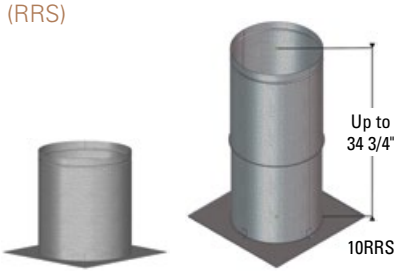



Currently available in 10" to 16" diameter only. Adding this "Top Damper" to a system seals it right at the top of the chimney. The "Chimney Top Damper" is placed directly below the cap and is designed to prevent any cold air infiltration into the house through the chimney. It functions on a chain that hangs down to the firebox and comes with 30 feet of cable.

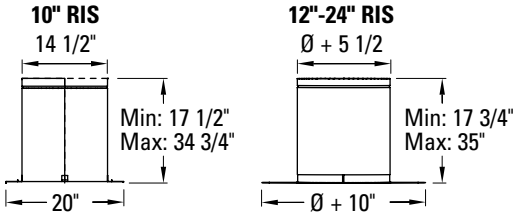
INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 10RCTD | 10 | 12 | 11 1/2 | 10 1/4 |
| 12RCTD | 12 | 14 | 11 1/2 | 10 1/4 |
| 14RCTD | 14 | 16 | 11 1/2 | 10 1/4 |
| 16RCTD | 16 | 18 | 11 1/2 | 10 1/4 |

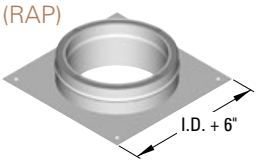
## Radiation Shield With Extension
(RRS)




The Radiation Shield is used when the chimney passes through a combustible floor or ceiling. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields. An 18" extension for RRS is now included on all RIS radiation shields.

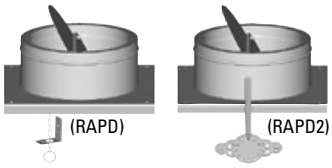



## Anchor Plate
(RAP)



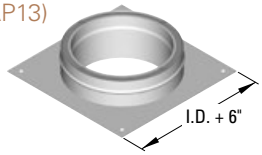

Is used to connect an appliance (such as a masonry fireplace or heater) to an RIS chimney.

## Anchor Plate Damper
(RAPD, RAPD2)




Combines the anchor plate with a heavy gauge stainless steel damper. The RAPD simplifies masonry fireplace construction, reduces installation cost and provides a superior seal. The RAPD comes with 6' stainless steel cable.

## Anchor Plate for Isokern
(14RAP13)

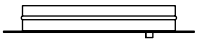



These RIS Anchor Plates are certified to ULC S610 with Isokern® MAGNUM® Fireplace products. The RIS Anchor Plate (RM-14RAP13) is used to convert from the Isokern 13" diameter fireplace openings to 13 5/8" model RIS.

## Anchor Plate Damper for Isokern
(14RAPD13)

NEW

The Anchor Plate Damper (14RAPD13) fits 14" RIS and 13 5/8" Isokern opening and includes an insulation pad for the appliance.



## Rain Caps
(RRC, **RDRC**)

(RRC) (RDRC) DELUXE RAIN CAP (RRCW)

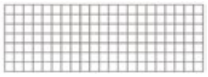
The RIS rain cap is constructed entirely of stainless steel. It is designed to provide good protection from wind and rain while being a small size and a low profile. The Deluxe Rain Cap is available in 10" and 12" diameters. An optional wind/rain shield is available in 10" – 24" diameter. An optional spark screen is available for installations where sparks can pose a safety problem.

*Note: We do not recommend the use of untested, unlisted rain caps or shrouds. In some cases it is possible to create an unsafe installation simply by using an aftermarket shroud. If you choose to do so you must terminate the chimney with an ICC Rain Cap Base (RRCB). The RRCB closes off the top of the chimney to prevent moisture from entering the insulation.*

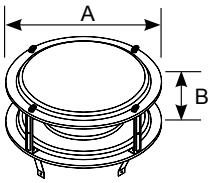
INCHES

| Rain Caps Dimensions | | |
|---|---|---|
| **PIPE I.D.** | **A** | **B** |
| 10 | 17 | 5 |
| 12 | 20 1/4 | 6 |
| 14 | 23 3/4 | 7 |
| 16 | 27 1/4 | 8 |
| 18 | 30 5/8 | 9 |
| 20 | 34 | 10 |
| 22 | 37 3/8 | 11 |
| 24 | 40 3/4 | 12 |

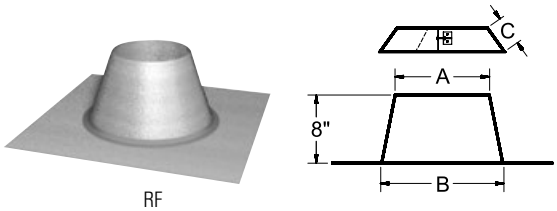
## Spark Screen
(RRCFS)



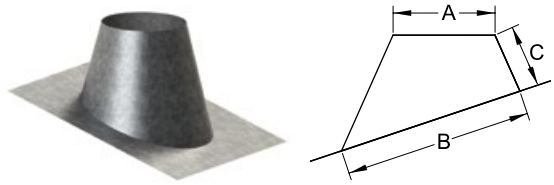
## Rain Cap Base
(RRCB)



## Roof Flashings




RF



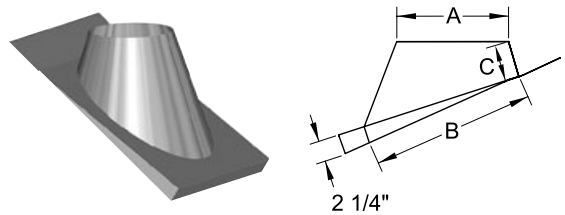

RFA, RFB

(RF, RFA & RFB) Used to provide weather protection where the chimney penetrates the roof. Three models are available to accommodate various roof pitches. The storm collar (RSC) is included.

(RMFA, RMFB, RMFC) These flashings are specifically designed for metal roofs and greatly simplify metal roof installations. They are made from galvalume steel only.

(RSF, RSFA, RSFB) Stainless steel flashings are available in 10" and 12" diameters. Dimensions are the same as standard flashings.

| (RF) Roof Flashings (comes with RSC storm collar) | | | | | | |
|---|---|---|---|---|---|---|
| **Pitch** | **Flue I.D.** | **Code** | **Base W x L** | **A** | **B** | **C** |
| Flat - 2/12 | 10" | 10RF/10RSF | 26 x 26 | 12 1/2 | 16 3/4 | 8 |
| | 12" | 12RF/12RSF | 28 x 28 | 14 1/2 | 18 3/4 | 8 |
| | 14" | 14RF | 30 x 30 | 16 1/2 | 20 3/4 | 8 |
| | 16" | 16RF | 32 x 32 | 18 1/2 | 22 3/4 | 8 |
| | 18" | 18RF | 34 x 34 | 20 1/2 | 24 3/4 | 8 |
| | 20" | 20RF | 36 x 36 | 22 1/2 | 26 3/4 | 8 |
| | 22" | 22RF | 38 x 38 | 24 1/2 | 28 3/4 | 8 |
| | 24" | 24RF | 40 x 40 | 26 1/2 | 30 3/4 | 8 |
| 1/12 - 7/12 | 10" | 10RFA/10RSFA | 31 x 31 | 12 1/2 | 20 3/4 | 11 |
| | 12" | 12RFA/12RSFA | 34 x 36 | 14 1/2 | 26 11/16 | 8 3/4 |
| | 14" | 14RFA | 36 x 36 | 16 1/2 | 25 3/16 | 11 |
| | 16" | 16RFA | 38 x 38 | 18 1/2 | 27 1/2 | 11 |
| | 18" | 18RFA | 41 x 41 | 20 1/2 | 29 3/4 | 11 |
| | 20" | 20RFA | 43 x 43 | 22 1/2 | 32 1/16 | 11 |
| | 22" | 22RFA | 45 x 45 | 24 1/2 | 34 5/16 | 11 |
| | 24" | 24RFA | 47 x 47 | 26 1/2 | 36 5/8 | 11 |
| 8/12 - 12/12 | 10" | 10RFB/10RSFB | 29 x 35 | 12 1/2 | 18 1/2 | 11 |
| | 12" | 12RFB/12RSFB | 34 x 40 | 14 1/2 | 31 1/2 | 8 5/16 |
| | 14" | 14RFB | 34 x 42 | 16 1/2 | 23 1/16 | 11 |
| | 16" | 16RFB | 36 x 44 | 18 1/2 | 25 3/8 | 11 |
| | 18" | 18RFB | 38 x 48 | 20 1/2 | 27 3/4 | 11 |
| | 20" | 20RFB | 41 x 50 | 22 1/2 | 29 15/16 | 11 |
| | 22" | 22RFB | 43 x 54 | 24 1/2 | 32 3/16 | 11 |
| | 24" | 24RFB | 45 x 56 | 26 1/2 | 34 1/2 | 11 |

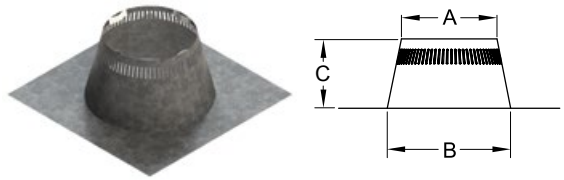



RMFA, RMFB, RMFC

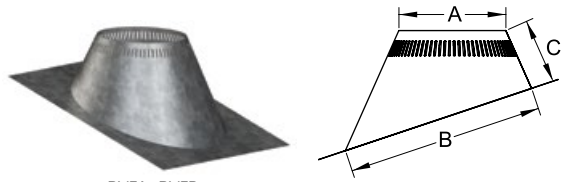
Metal Roof Flashing
US Patent #7114301
Can Patent #2460044

| (RMF) Metal Roof Flashing Dimensions (comes with RSC storm collar) | | | | | | |
|---|---|---|---|---|---|---|
| **Pitch** | **Flue I.D.** | **Code** | **Base W x L** | **A** | **B** | **C** |
| 3/12 - 7/12 | 10" | 10RMFA | 25 1/2* x 25 3/4 | 12 1/4 | 17 13/16 | 4 |
| | 12" | 12RMFA | 34 x 35 1/2* | 14 1/4 | 26 13/16 | 4 |
| 8/12 - 12/12 | 10" | 10RMFB | 29 1/16* x 29 15/16 | 12 1/4 | 22 31/32 | 4 |
| | 12" | 12RMFB | 34 1/4 x 38 7/8* | 14 1/4 | 31 9/16 | 4 |
| 12/12 - 21/12 | 10" | 10RMFC | 27 1/2 x 42 3/4* | 12 1/4 | 30 3/4 | 7 7/8 |
| | 12" | 12RMFC | 27 1/2 x 46 1/2* | 14 1/4 | 38 | 7 3/4 |

** indicates the direction which 4 1/2" of metal flashing slides under the metal roof sheeting*




RVF

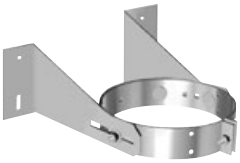



RVFA, RVFB

| (RVF) Vented Flashing Dimensions (comes with RVSC storm collar) | | | | | | |
|---|---|---|---|---|---|---|
| **Pitch** | **Flue I.D.** | **Code** | **Base W x L** | **A** | **B** | **C** |
| Flat - 2/12 | 10" | 10RVF | 28 x 28 | 13 1/4 | 18 1/4 | 10 1/2 |
| | 12" | 12RVF | 30 x 30 | 15 1/4 | 20 1/4 | 10 1/2 |
| 1/12 - 7/12 | 10" | 10RVFA | 32 x 34 | 13 1/4 | 23 3/16 | 8 7/8 |
| | 12" | 12RVFA | 34 x 36 | 15 1/4 | 27 7/8 | 9 1/16 |
| 8/12 - 12/12 | 10" | 10RVFB | 32 x 40 | 13 1/4 | 28 11/16 | 6 |
| | 12" | 12RVFB | 34 x 42 | 15 1/4 | 31 15/16 | 6 |

*Vented flashings are required in certain applications where additional airflow is required.*

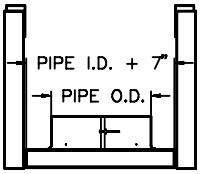
## Wall Support
(RWS, RWSG)



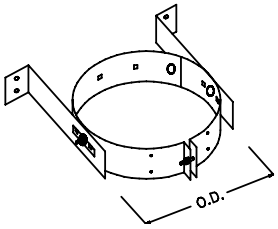
RWS for 10" & 12" diameters

RWS & RWSG for all other diameters

Designed to support a vertical chimney on a wall. There are two styles of wall support, one for 10" & 12" diameter RIS and one for all other diameters.

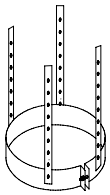



## Wall Band
(RWB)



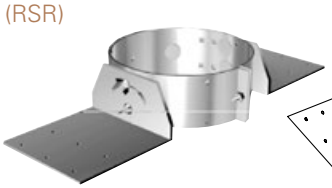

Used on vertical or horizontal runs of chimney to stabilize the chimney. The maximum distance between wall bands is 8'.

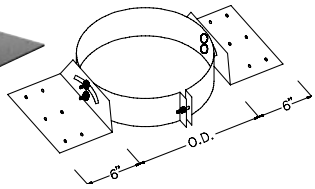
## Offset Support
(ROS)



The offset support is primarily used to re-support the chimney above an offset. However it may also be used to provide additional support when the chimney height exceeds the capacity of the primary support.

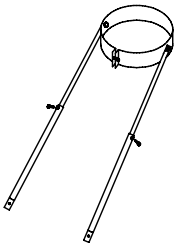
## Roof Support
(RSR)






The roof support easily adjusts to any roof pitch. It can be used above an offset or to provide additional support and stability at the roof level.

## Roof Brace
(RRB)

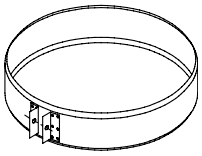


Designed to provide a lateral support for the chinmney above a roof. The roof brace must be fastened solidly into a structural member.

## Flue Extension
(REX)

The flue extension fastens to the bottom of the first chimney length with three screws. It makes it possible to connect a stove pipe, or other type of connector, to the chimney. It is sometimes used to connect an EXCEL chimney directly to an appliance. The flue extension is designed to fit a variety of stove pipes. However, due to variations from one manufacturer to another, some modifications may be required in the field.

## Locking Band
(RSLB & RGLB)



All RIS insulated components are designed to be fastened together with the stainless steel screws provided with each part. In some cases, it may be desirable to install a locking band for aesthetic purposes. The locking band is designed to overlap the two beads immediately above and below the chimney joint and fastens with a 1/4" bolt. All screws are required even when the locking band is installed. Available in stainless steel and galvalume.

RENAISSANCE FIREPLACES

# Components tested and certified specifically for Renaissance Fireplaces

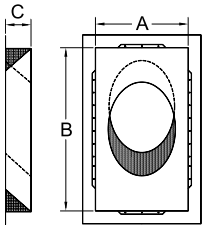
## Roof Top Shield
(RTS)

The Roof Top Shield is required for Renaissance Fireplace installations. Designed to protect combustible roofs where the chimney passes through, it has adjustable mounting brackets that raise or lower the shield depending on the roof pitch. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

INCHES

| Dimensions | |
|---|---|
| ø | A |
| 10" | 13 7/8 |
| 12" | 16 1/2 |

## Insulated Angled Wall Radiation Shields (RWRSI30 & RWRSI45)

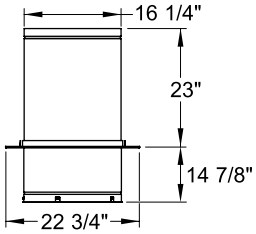



The insulated angled wall radiation shield is used when the chimney goes through a combustible exterior wall, with a 30° or 45° angle. A radiation shield is installed on the exterior side of the wall to complete the installation. This part is used for fireplace installations only. *Note: 45° are approved for use in Canada only.*

INCHES

| Required Opening Dimensions | | | | | |
|---|---|---|---|---|---|
| Angle | 30° | | 45° | | |
| ø | A | B | A | B | C |
| 10" | 15 5/8 | 46 3/8 | 15 5/8 | 31 1/2 | 4" |
| 12" | 16 5/8 | 51 13/32 | 16 5/8 | 33 7/8 | 6" |

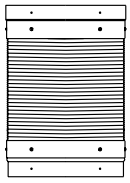
## Rumford 1500 12" Radiation Shield
(12RRS2)




This radiation shield is required for installations of the Renaissance Rumford 1500B fireplace. No other radiation shield is certified with the Rumford 1500B. A radiation shield MUST be installed for each floor the chimney passes through. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

# Components tested and certified specifically for Renaissance Fireplaces

## Flexible Radiation Shield Tube
(12RRSF)

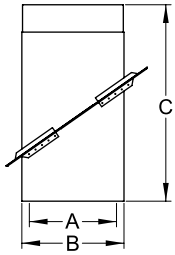


**For Canada only.** A flexible radiation shield tube (RM-12RRSF) must be installed around the chimney when it is enclosed in Rumford 1500 installations. This includes an outside chase. In the fireplace enclosure the flexible radiation shield tube is not required. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

INCHES

| Dimensions | | |
|---|---|---|
| **Chimney** | **Inside diameter** | **Max. Length** |
| 12" Ø | 16 1/8 | 84 |

## Cathedral Ceiling Radiation Shields
(RRSC)

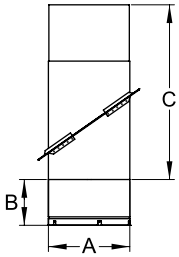



Designed to simplify installations through cathedral ceilings, our RIS Cathedral Ceiling Radiation Shields are fireplace certified specifically for Renaissance units. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C MIN.** | **B MAX.** |
| 10RM-RRSC | 12 3/8 | 14 1/2 | 24 | 36 |
| 12RM-RRSC | 14 3/8 | 16 1/2 | 24 | 36 |

## Attic Cathedral Ceiling Radiation Shield
(RM-12RRSCA)

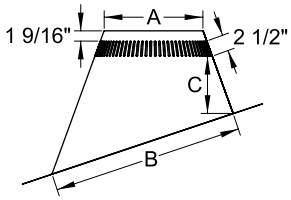



**For Canada only - specific to the Rumford 1500.** Similar to the Attic Radiation Shield for Cathedral Ceiling (ERSCA). Only, this component is designed for Renaissance Rumford 1500 installations where insulated chimney passes through a cathedral ceiling. The RRSCA has a flange at its base to connect a Radiation Shield Tube. Radiation Shields do NOT reduce chimney clearance. Always maintain 2" clearance to chimney through radiation shields.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C MIN.** | **B MAX.** |
| 12RM-RRSCA | 16 1/2 | 9 1/4 | 24 | 36 |

## Canadian vented flashing for Rumford 1500 Fireplace
(RCVF)




**For Canada only.** Includes a storm collar (RVSC).

INCHES

| (RCVF) Canadian Vented Flashing for Rumford 1500 Fireplace | | | | | | |
|---|---|---|---|---|---|---|
| **Pitch** | **Flue I.D.** | **Code** | **Base W x L** | **A** | **B** | **C** |
| Flat-2/12 | 12 | RCVF | 35 x 35 | 15 1/4 | 18 | 11 3/16 |
| 1/12-7/12 | 12 | RCVFA | 37 x 39 | 15 1/4 | 27 5/8 | 8 13/16 |
| 8/12-12/12 | 12 | RCVFB | 34 x 42 | 15 1/4 | 32 1/4 | 6 |

# Model RIS Offset Tables

| RIS Offset Table 10 to 16 inches | | | | | | |
|---|---|---|---|---|---|---|
| LENGTH BETWEEN ELBOWS | 2 X 15° | | 2 X 30° | | 2 X 45° | |
| | RISE | OFFSET | RISE | OFFSET | RISE | OFFSET |
| **10 INCH Ø** | | | | | | |
| NO LENGTH | 11 7/8 | 1 5/8 | 14 1/8 | 3 3/4 | 15 7/8 | 6 5/8 |
| 12" Length | 22 1/4 | 4 3/8 | 23 3/8 | 9 1/8 | 23 1/2 | 14 1/8 |
| 24" Length | 33 7/8 | 7 1/2 | 33 3/4 | 15 1/8 | 32 | 22 5/8 |
| 48" Length | 57 | 13 5/8 | 54 5/8 | 27 1/8 | 48 7/8 | 39 5/8 |
| 48" + 12" | 67 3/8 | 16 1/2 | 63 7/8 | 32 1/2 | 56 1/2 | 47 1/4 |
| 48" + 24" | 79 | 19 1/2 | 74 1/4 | 38 1/2 | 65 | 55 3/4 |
| 48"+24"+12" | 89 3/8 | 22 3/8 | 83 5/8 | 43 7/8 | 72 5/8 | 63 3/8 |
| 48" + 48" | 102 1/4 | 25 3/4 | 95 | 50 1/2 | 82 | 72 3/4 |
| **12 INCH Ø** | | | | | | |
| NO LENGTH | 11 7/8 | 1 5/8 | 15 | 4 | 17 1/8 | 7 1/8 |
| 12" Length | 22 1/4 | 4 3/8 | 24 3/8 | 9 3/8 | 24 3/4 | 14 3/4 |
| 24" Length | 33 7/8 | 7 1/2 | 34 3/4 | 15 3/8 | 33 1/4 | 23 1/4 |
| 48" Length | 57 | 13 5/8 | 55 1/2 | 27 3/8 | 50 1/4 | 40 1/8 |
| 48" + 12" | 67 3/8 | 16 1/2 | 64 7/8 | 32 3/4 | 57 7/8 | 47 3/4 |
| 48" + 24" | 79 | 19 1/2 | 75 1/4 | 38 3/4 | 66 1/4 | 56 1/4 |
| 48"+24"+12" | 89 3/8 | 22 3/8 | 84 1/2 | 44 1/8 | 73 7/8 | 63 7/8 |
| 48" + 48" | 102 1/4 | 25 3/4 | 96 | 50 3/4 | 83 1/4 | 73 1/4 |
| **14 INCH Ø** | | | | | | |
| NO LENGTH | 12 7/8 | 1 3/4 | 16 | 4 1/4 | 18 7/8 | 7 3/4 |
| 12" Length | 23 1/4 | 4 1/2 | 25 1/4 | 9 5/8 | 26 1/2 | 15 3/8 |
| 24" Length | 34 7/8 | 7 5/8 | 35 5/8 | 15 5/8 | 35 | 23 7/8 |
| 48" Length | 58 | 13 3/4 | 56 1/2 | 27 5/8 | 51 7/8 | 40 7/8 |
| 48" + 12" | 68 3/8 | 16 5/8 | 65 3/4 | 33 | 59 1/2 | 48 1/2 |
| 48" + 24" | 80 | 19 5/8 | 76 1/8 | 39 | 68 | 57 |
| 48"+24"+12" | 90 3/8 | 22 1/2 | 85 1/2 | 44 3/8 | 75 5/8 | 64 1/2 |
| 48" + 48" | 103 1/8 | 25 7/8 | 96 5/8 | 51 | 85 | 73 7/8 |
| **16 INCH Ø** | | | | | | |
| NO LENGTH | 12 7/8 | 1 3/4 | 16 7/8 | 4 1/2 | 20 1/8 | 8 3/8 |
| 12" Length | 23 1/4 | 4 1/2 | 26 1/4 | 9 7/8 | 27 3/4 | 16 |
| 24" Length | 34 7/8 | 7 5/8 | 36 5/8 | 15 7/8 | 36 1/4 | 24 3/8 |
| 48" Length | 58 | 13 3/4 | 57 3/8 | 27 7/8 | 53 1/4 | 41 3/8 |
| 48" + 12" | 68 3/8 | 16 5/8 | 66 5/8 | 33 1/4 | 60 3/4 | 49 |
| 48" + 24" | 80 | 19 5/8 | 77 1/8 | 39 1/4 | 69 1/4 | 57 1/2 |
| 48"+24"+12" | 90 3/8 | 22 1/2 | 86 3/8 | 44 5/8 | 76 7/8 | 65 1/8 |
| 48" + 48" | 103 1/8 | 25 7/8 | 97 7/8 | 51 1/4 | 86 1/4 | 74 1/2 |

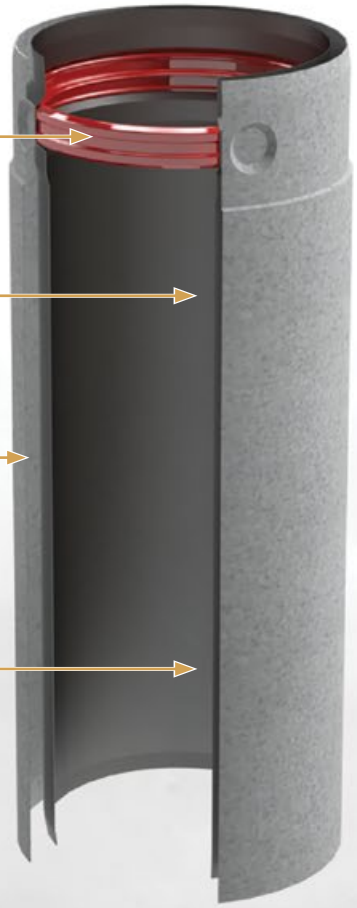
All measurements are in inches

| RIS Offset Table 18 to 24 inches | | | | | | |
|---|---|---|---|---|---|---|
| LENGTH BETWEEN ELBOWS | 2 X 15° | | 2 X 30° | | 2 X 45° | |
| | RISE | OFFSET | RISE | OFFSET | RISE | OFFSET |
| **18 INCH Ø** | | | | | | |
| NO LENGTH | 13 7/8 | 1 7/8 | 17 7/8 | 4 3/4 | 21 3/8 | 8 7/8 |
| 12" Length | 24 1/4 | 4 5/8 | 27 1/8 | 10 1/8 | 29 | 16 1/2 |
| 24" Length | 35 7/8 | 7 3/4 | 37 1/2 | 16 1/8 | 37 1/2 | 25 |
| 48" Length | 59 | 13 7/8 | 58 1/4 | 28 1/8 | 54 1/8 | 41 7/8 |
| 48" + 12" | 69 3/8 | 16 3/4 | 67 5/8 | 33 1/2 | 62 1/8 | 49 1/2 |
| 48" + 24" | 81 | 19 3/4 | 78 | 39 1/2 | 70 5/8 | 58 |
| 48"+24"+12" | 91 3/8 | 22 5/8 | 87 3/8 | 44 7/8 | 78 1/8 | 65 5/8 |
| 48" + 48" | 104 1/8 | 26 | 98 3/4 | 51 1/2 | 87 1/2 | 75 |
| **20 INCH Ø** | | | | | | |
| NO LENGTH | 13 7/8 | 1 7/8 | 19 1/4 | 5 1/8 | 23 1/8 | 9 5/8 |
| 12" Length | 24 1/4 | 4 5/8 | 28 1/2 | 10 1/2 | 30 3/4 | 17 1/8 |
| 24" Length | 35 7/8 | 7 3/4 | 38 7/8 | 16 1/2 | 39 1/8 | 25 5/8 |
| 48" Length | 59 | 13 7/8 | 59 3/4 | 28 1/2 | 56 1/4 | 42 5/8 |
| 48" + 12" | 69 3/8 | 16 3/4 | 69 | 33 7/8 | 63 3/4 | 50 1/4 |
| 48" + 24" | 81 | 19 3/4 | 79 3/8 | 39 7/8 | 72 1/4 | 58 3/4 |
| 48"+24"+12" | 91 3/8 | 22 5/8 | 88 3/4 | 45 1/4 | 79 7/8 | 66 3/8 |
| 48" + 48" | 104 1/8 | 26 | 100 1/8 | 51 7/8 | 89 1/4 | 75 3/4 |
| **22 INCH Ø** | | | | | | |
| NO LENGTH | 14 7/8 | 2 | 20 1/8 | 5 3/8 | 24 | 9 7/8 |
| 12" Length | 25 1/4 | 4 3/4 | 29 1/2 | 10 3/4 | 31 5/8 | 17 1/2 |
| 24" Length | 36 7/8 | 7 7/8 | 39 7/8 | 16 3/4 | 40 1/8 | 26 |
| 48" Length | 60 | 14 | 60 5/8 | 28 3/4 | 57 | 43 |
| 48" + 12" | 70 3/8 | 16 7/8 | 70 | 34 1/8 | 64 5/8 | 50 5/8 |
| 48" + 24" | 82 | 20 | 80 3/8 | 40 1/8 | 73 1/8 | 59 1/8 |
| 48"+24"+12" | 92 3/8 | 22 3/4 | 89 5/8 | 45 1/2 | 80 3/4 | 66 5/8 |
| 48" + 48" | 105 1/8 | 26 1/8 | 101 1/8 | 52 1/8 | 90 1/8 | 76 |
| **24 INCH Ø** | | | | | | |
| NO LENGTH | 14 7/8 | 2 | 21 1/8 | 5 5/8 | 25 3/4 | 10 5/8 |
| 12" Length | 25 1/4 | 4 3/4 | 30 3/8 | 11 | 33 1/4 | 18 1/4 |
| 24" Length | 36 7/8 | 7 7/8 | 40 3/4 | 17 | 41 3/4 | 26 3/4 |
| 48" Length | 60 | 14 | 61 5/8 | 29 | 58 3/4 | 43 3/4 |
| 48" + 12" | 70 3/8 | 16 7/8 | 70 7/8 | 34 3/8 | 66 3/8 | 51 1/4 |
| 48" + 24" | 82 | 20 | 81 1/4 | 40 3/8 | 74 7/8 | 59 3/4 |
| 48"+24"+12" | 92 3/8 | 22 3/4 | 90 5/8 | 45 3/4 | 82 1/2 | 67 3/8 |
| 48" + 48" | 105 1/8 | 26 1/8 | 102 | 52 3/8 | 91 3/4 | 76 3/4 |

All measurements are in inches

# SETTING THE STANDARD FOR THE PELLET CHIMNEY INDUSTRY

EXCELPellet has revolutionized the pellet chimney industry. It was the first pellet vent to include a silicone gasket seal on every part. It's not surprising EXCELPellet has spawned a league of impersonators. Today, nearly all pellet chimneys use a silicone gasket seal, but none have the innovative components or quality fit and finish of the original, EXCELPellet.



# EXCELPellet

PELLET AND BIOFUEL VENTING SYSTEM

# EXCELPellet Technical Information

## Certification

EXCELPellet has been tested and listed to UL 641 and ULC S609 by Intertek Testing Services.

## Applications

EXCELPellet is certified as a chimney liner for use on appliances that burn:

- Wood
- Agricultural products
- Natural or LP Gas

## Allowable Flue Gas Temperatures

| | |
|---|---|
| Max Continuous | 300°C (572°F) |
| Tested To | 927°C (1700 °F) |

## Clearance to Combustible Materials

EXCELPellet is certified for 1" clearance to combustible materials.

## Construction

**Flue:** .016" laser welded stainless steel.
**Casing:** .019" laser welded Galvalume steel or .019" laser welded satin coat steel (painted)
**Paint:** Forrest "Stove Bright" *flat black*.
**Insulation:** 3/8" Air Space
**Gasket:** Silicone Rubber

# EXCELPellet Engineering and Design Considerations

We suggest that your pellet system be designed with a vertical rise. This is not a requirement but will help the stove to vent combustion products in the case of a power failure.

Keeping the horizontal run and number of elbows to a minimum will reduce the cost of your installation and improve performance.

Although not required we recommend that terminations be installed 12" away from the wall to reduce the potential for smoke stain on outside walls. Refer to your stove manual for exact dimensions.

Do not install a vent smaller in diameter than the flue outlet on the stove.

EXCELPellet must be installed according to the installation instructions (available from your dealer upon purchase of support or on our web site).

EXCELPellet is manufactured using specialized machinery which makes it possible to maintain strict tolerances between components. This precision permits the use of a factory installed silicone gasket and eliminates the need for field application of silicone.

This unique factory installed silicone rubber gasket solves two major pellet venting problems:

- The gasket seals perfectly so there is no need for sealant application in the field. This speeds up installation, simplifies clean up, facilitates painting and eliminates callbacks.
- Not only do all parts assemble easily, they can be disassembled and reassembled just as easily making routine maintenance much easier.

EXCELPellet has a smooth attractive Black painted or Galvalume steel exterior. Galvalume is corrosion resistant and requires very little preparation for painting.

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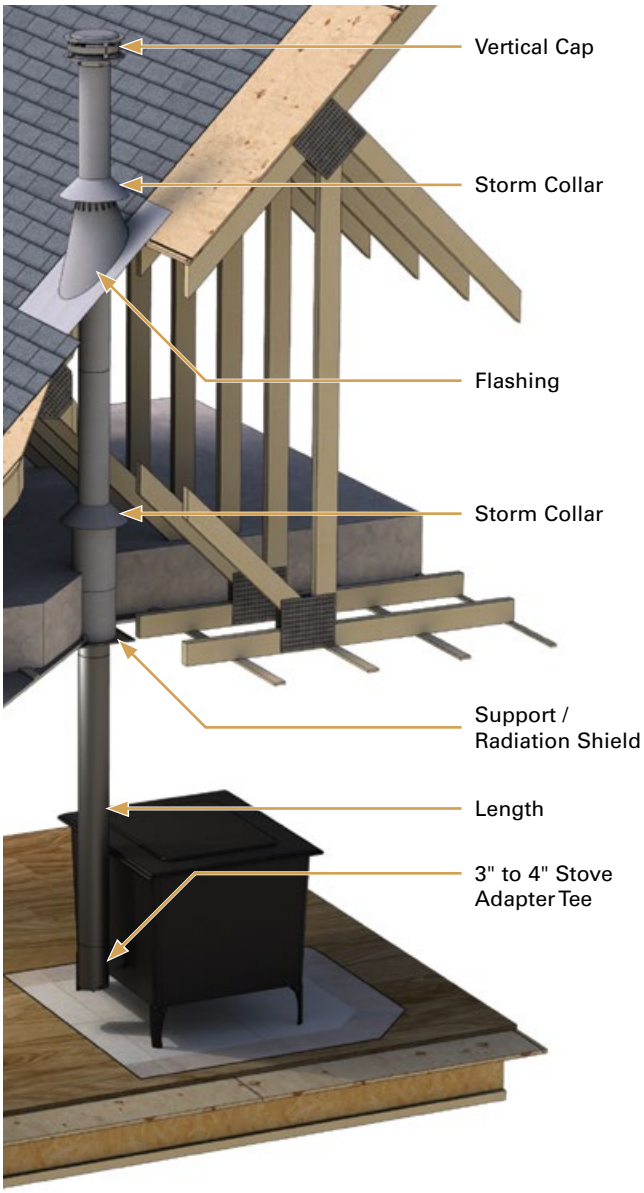
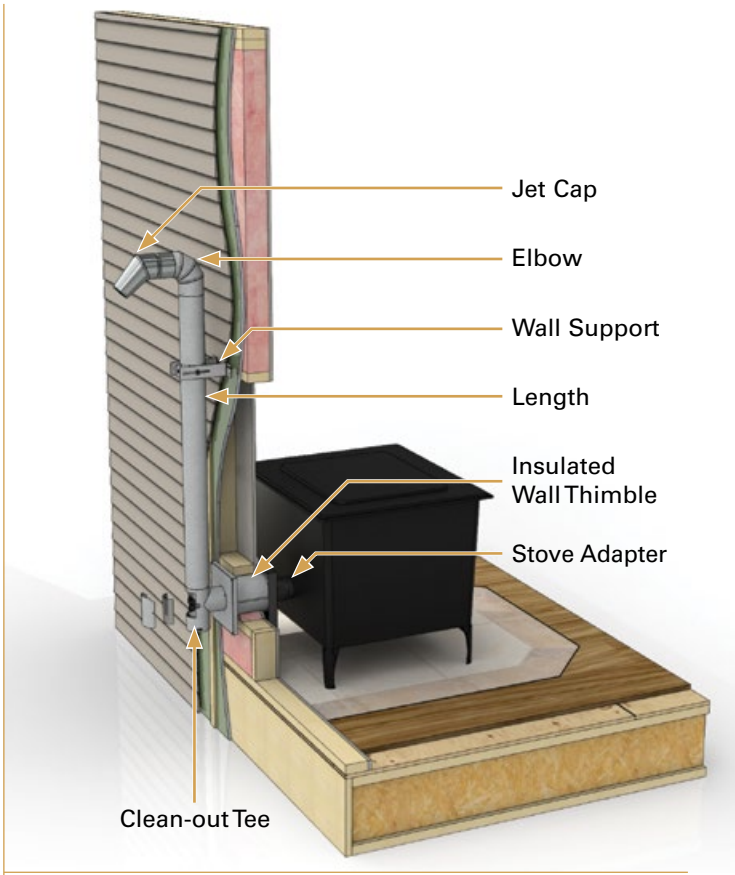
# EXCELPellet Typical Installations

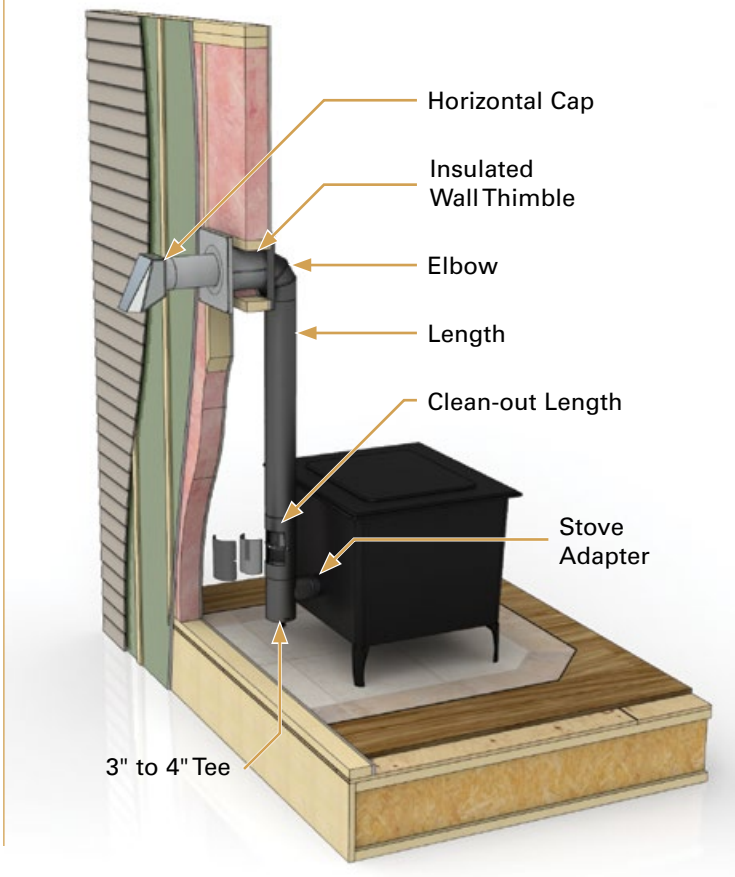
*NOTE: The following information is provided to assist you in selecting the chimney components required for your installation. It is intended to be a guideline only. These are not the installation instructions.*

All measurements are in inches

| Inside Diameter | 3 Inch | 4 Inch |
|---|---|---|
| Outside Diameter | 3 3/4" | 4 3/4" |
| Weight/Foot (lb/ft.) | 1.3 | 1.6 |
| **Rough Opening Required:** | | |
| Supports (PSA, PSF) | 5 3/4" x 5 3/4" | 6 3/4" x 6 3/4" |
| Supports (PSS) | 6 3/4" x 6 3/4" | 6 3/4" x 6 3/4" |
| Wall Thimble (PWT) | 6 1/2" x 6 1/2" or 6 1/2" round | 7 1/2" x 7 1/2" or 7 1/2" round |
| Masonry Chimney Adapter (PAM) | 6" to 8" dia. | 6" to 8" dia. |
| **Maximum Support capacity** | | |
| Ceiling Supports (PSA, PSF) | 30 feet | 25 feet |
| Ceiling Support (PSS) | 37 feet | 30 feet |
| Wall Support (PSW) | 21 feet | 17 feet |



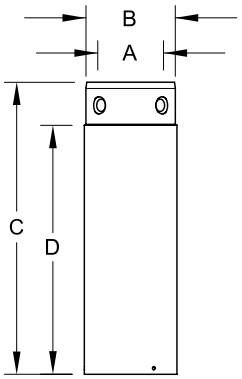



# EXCELPellet Product Descriptions

## Lengths

(PL5, PL5B, PLA6, PLA6B, PL16, PL16B, PLA16, PLA16B, PL1, PL1B, PL2, PL2B, PL3, PL3B, PL4, PL4B)




48", 36", 24", 16", 12", 5" & 6", 16" slip lengths, all lengths are available in Galvalume or Black exterior. Slip sections slide over standard length pellet vent.

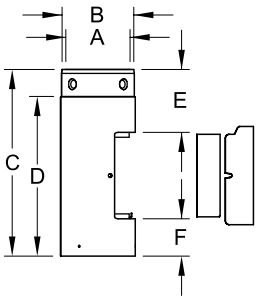
INCHES

| Length Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| | **3"** | **4"** | | | | |
| A | 3 | 4 | | | | |
| B | 3 3/4 | 4 3/4 | | | | |
| **Lengths** | **5"** | **12"** | **16"** | **24"** | **36"** | **48"** |
| C | 4 7/8 | 11 7/8 | 15 7/8 | 23 7/8 | 35 7/8 | 47 7/8 |
| D | 3 1/8 | 10 1/8 | 14 1/8 | 22 1/8 | 34 1/8 | 46 1/8 |

| 6" & 16" Slip Length Dimensions | | | | |
|---|---|---|---|---|
| | **3"** | | **4"** | |
| A | 2 7/8 | | 3 7/8 | |
| B | 3 7/8 | | 4 7/8 | |
| **Lengths** | **6"** | **16"** | **6"** | **16"** |
| C | 7 3/4 | 15 3/4 | 7 3/4 | 15 3/4 |
| D | 6 | 14 | 6 | 14 |

## Clean-Out Length

(PCOL)



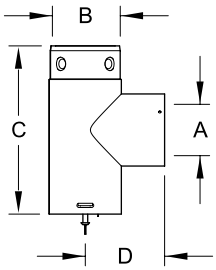

The removable casing allows access to the inside of the flue for easy cleaning. The Clean-Out length can be in any location as a substitute for a standard length.

INCHES

| Clean-Out Length Dimensions | | |
|---|---|---|
| | **3"** | **4"** |
| A | 3 1/16 | 4 1/16 |
| B | 3 5/8 | 4 5/8 |
| C | 11 7/8 | 11 7/8 |
| D | 10 1/8 | 10 1/8 |
| E | 4 3/16 | 4 1/8 |
| F | 3 3/16 | 2 1/2 |

## Tees

(PT, PTB, 3PT4, 3PT4B)



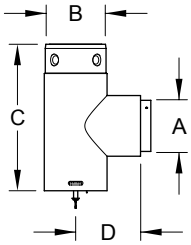

The tee cap incorporates a silicone gasket making it easy to remove for cleaning. All tees are available in Galvalume or Black exterior. Short snout places vent closer to stove. Tee cap included.

INCHES

| Tee Dimensions | | | |
|---|---|---|---|
| | **3"** | **4"** | **3" to 4"** |
| A | 3 | 4 | 3 |
| B | 3 3/4 | 4 3/4 | 4 3/4 |
| C | 8 3/4 | 9 3/4 | 8 3/4 |
| D | 4 1/8 | 4 5/8 | 4 5/8 |

## Stove Adapter Tee

(3PAT3, 3PAT3B, 3PAT4, 3PAT4B)

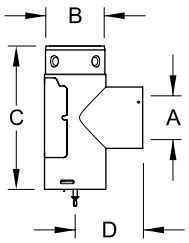



Stove Adapter Tees can be installed directly to the stove without the need for a stove adapter. Tee cap included.

INCHES

| Stove Adapter Tee Dimensions | | |
|---|---|---|
| | **3"** | **3" to 4"** |
| A | 3 | 3 |
| B | 3 3/4 | 4 3/4 |
| C | 8 3/4 | 8 3/4 |
| D | 3 7/8 | 4 3/8 |
| E | 5/8 | 5/8 |

## Clean-Out Tee
(PCOT)




Allows easy access to the horizontal run of a system for cleaning. Tee cap included.

INCHES

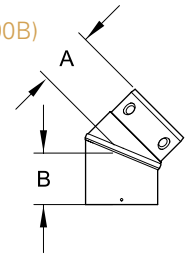
| Clean Out Tee Dimensions | | |
|---|---|---|
| | **3"** | **4"** |
| A | 3 | 4 |
| B | 3 3/4 | 4 3/4 |
| C | 8 3/4 | 9 3/4 |
| D | 4 1/8 | 4 5/8 |

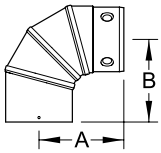
## Tee Cap
(PTC1)

PTC1

The PTC1 is a replacement tee cap held with a bolt at the bottom of the cap.

## Elbows
(PE45, PE45B, PE90, PE90B)



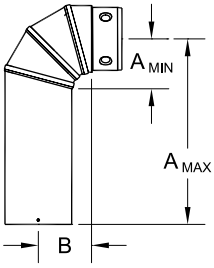



Small radius elbows make installations in tight spaces easier. 45° and 90° available, all elbows are available in Galvalume or Black exterior.

INCHES

| Dimensions | | |
|---|---|---|
| | **A** | **B** |
| 3PE45 | 2 7/8 | 2 7/8 |
| 4PE45 | 3 | 3 |
| 3PE90 | 4 11/16 | 4 11/16 |
| 4PE90 | 5 1/4 | 5 1/4 |

## Slip Elbow
(PE90S, PE90SB)

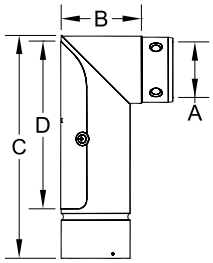



The vertical portion of the slip elbow slides over a standard pellet length just like a slip section. This eliminates the need for a separate slip piece.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A max.** | **A min.** | **B** |
| 3PE90S | 10 3/4 | 2 7/8 | 3 |
| 4PE90S | 11 1/4 | 3 3/8 | 3 1/2 |

## Clean-Out Elbow
(PCOE)

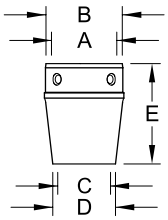



The removable casing allows access to the inside of the flue for easy cleaning. Typically used for "up and out" installations.

INCHES

| Dimensions | | |
|---|---|---|
| | **3"** | **4"** |
| A | 3 | 4 |
| B | 4 1/2 | 5 1/2 |
| C | 12 3/8 | 13 3/8 |
| D | 9 3/8 | 9 7/8 |

## 3" - 4" Tapered Increaser (3PIT4, 3PIT4B)

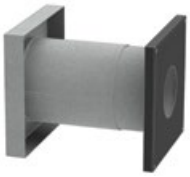


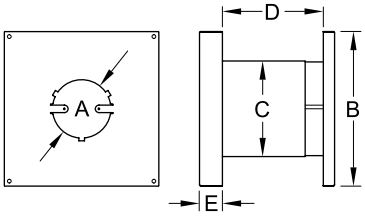

Used for increasing the diameter from 3" to 4" at any point in the system.

INCHES

| Dimensions | |
|---|---|
| A | 4 |
| B | 4 3/4 |
| C | 3 |
| D | 3 5/8 |
| E | 6 |

## Insulated Wall Thimble
(PWT)



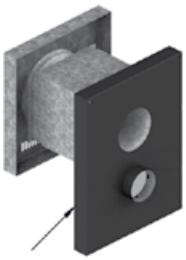


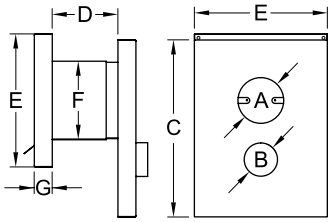

Telescopes to accommodate wall thicknesses from 5" to 10". It is fully insulated to maintain insulation integrity and fits tightly to prevent heat loss. The 3" requires a 6 1/2" X 6 1/2" framed opening; the 4" requires a 7 1/2" X 7 1/2" framed opening. A template for EXCELPellet wall thimbles can be purchased to simplify installation (PTMP).

INCHES

| Dimensions | | |
|---|---|---|
| | **3"** | **4"** |
| A | 3 7/8 | 4 7/8 |
| B | 9 1/4 | 11 1/4 |
| C | 6 3/8 | 7 3/8 |
| D | min. 5 - max. 10 | |
| E | 1 1/2 | 1 1/2 |

## Wall Thimble with Integrated Outside Air (PWTOI)



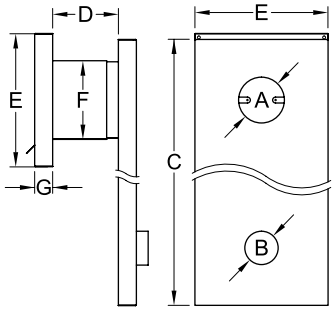




Simplifies a fresh air connection by integrating it into the same conduit as the wall thimble. This component is fully insulated through the wall and on the inside wall to prevent cold air or condensation in the home. Includes 10' of aluminum flex and 3' flex insulation.

INCHES

| Dimensions | | |
|---|---|---|
| | **3"** | **4"** |
| A | 3 7/8 | 4 7/8 |
| B | 2 7/8 | 2 7/8 |
| C | 15 | 16 |
| D | min. 6 1/2 - max. 11 1/2 | |
| E | 11 1/4 | 12 1/4 |
| F | 6 5/8 | 7 5/8 |
| G | 1 1/2 | 1 1/2 |

## Wall Thimble with Outside Air Channel (PWTOC)

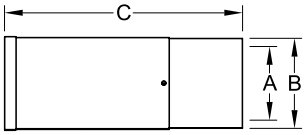



Functions similarly to the PWTOI, but designed for "up and out" installations (e.g. basement). The outside air channel is adjustable for height and can be painted any color to match the décor. Includes 10' of aluminum flex and 3' flex insulation.

INCHES

| Dimensions | | |
|---|---|---|
| | **3"** | **4"** |
| A | 3 7/8 | 4 7/8 |
| B | 2 7/8 | 2 7/8 |
| C | Adj. 44 – 68 | Adj. 45 – 68 |
| D | min. 6 1/2 - max. 11 1/2 | |
| E | 11 1/4 | 12 1/4 |
| F | 6 5/8 | 7 5/8 |
| G | 1 1/2 | 1 1/2 |

## Wall Thimble Extension
(PWTE)

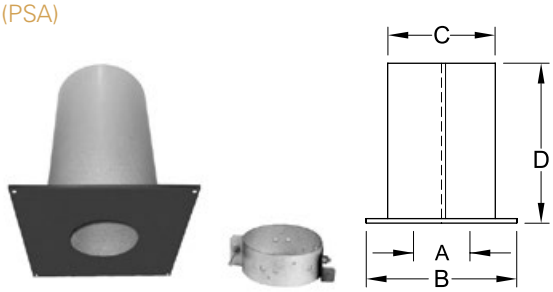



UL Listed Wall Thimble insulated extensions. They install easily and will allow wall thimbles to fit walls up to 20 3/4" thick.

INCHES

| Dimensions | | |
|---|---|---|
| | **3"** | **4"** |
| A | 4 1/8 | 5 1/4 |
| B | 6 1/4 | 7 1/4 |
| C | 5 3/4 to 15 | |

## Ceiling Support/Radiation Shield
(PSA)

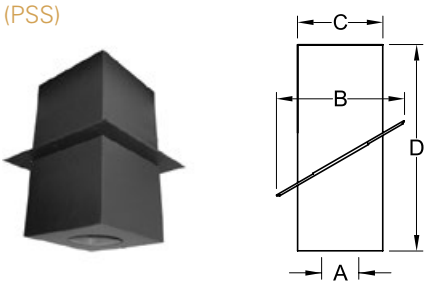



Rated to support up to 30' (3") or 25' (4") of venting where it passes through a floor or ceiling. It telescopes from 12" to 23" to keep insulation and debris away from the vent.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 7/8 | 4 7/8 |
| B | 9 1/4 | 9 1/4 |
| C | 5 3/4 | 6 3/4 |
| D | min. 12 - max. 23 | |

## Square Support/Radiation Shield
(PSS)

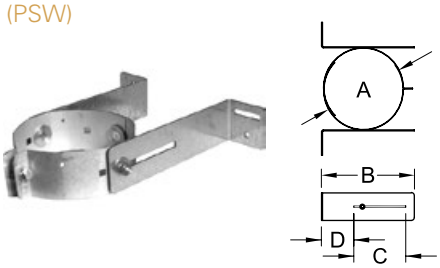



Rated to support up to 37' (3") or 30' (4") of venting where it passes through an insulated or un-insulated ceiling. It is particularly suitable for cathedral and drop ceilings.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 7/8 | 4 7/8 |
| B | 10 3/4 | 10 3/4 |
| C | 6 5/8 | 6 5/8 |
| D | 16 | 16 |

## Adjustable Wall Support
(PSW)

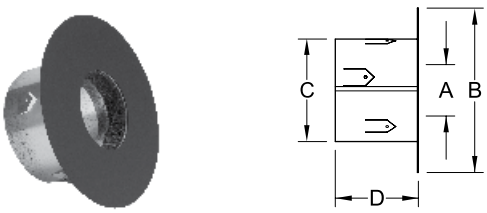



Rated to support up to 21' (3") or 17' (4") of venting. Fits 3" and 4" diameters. It adjusts easily to provide from 1" to 5" of clearance to the wall.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 3/4 | 4 3/4 |
| B | 7 1/2 | 7 1/2 |
| C | 4 1/4 | 4 1/4 |
| D | 2 3/4 | 2 3/4 |

## Masonry Adapter
(PAM)

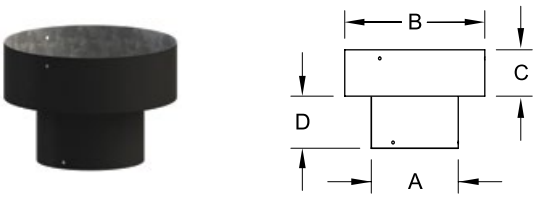



Provides a tight, positive transition to a masonry chimney. Fits existing masonry thimbles up to 8" in diameter.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 15/16 | 4 15/16 |
| B | 9 1/2 | 9 1/2 |
| C | 5 7/8 | 5 7/8 |
| D | 3 3/4 | 3 3/4 |

## Type A Chimney Adapter
(PAA5, PAA6, PAA7, PAA8)

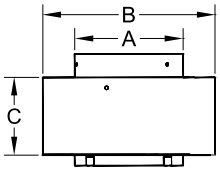



Provides a positive seal connection between EXCELPellet and class A chimneys. Connects 3" or 4" pellet vent to class A.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 3/4 | 4 3/4 |
| B | 5, 6, 7 or 8 | 6, 7 or 8 |
| C | 2 | 2 |
| D | 2 1/4 | 2 1/4 |

## Type A Chimney Reline Adapter
(PAX6, PAX7, PAX8)

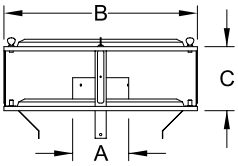



Permits re-lining of an existing pre-fab chimney with EXCELPellet or an approved flexible liner. Available to fit 6", 7" or 8" chimneys with 3" or 4" venting. Use the universal Chimney Adapter Cap (PCA) at the top.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 7/8 | 4 7/8 |
| B | 6, 7 or 8 | |
| C | 2 3/4 | 2 3/4 |

## Chimney Adapter Cap
(PCA)

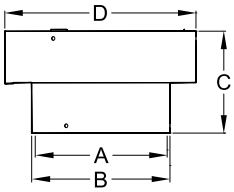



This cap will fit any brand of class A chimney up to an 8" I.D. It connects to EXCELPellet or a flexible liner used to re-line the existing chimney. Available in 3" or 4".

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 3/4 | 4 3/4 |
| B | 13 1/2 | 13 1/2 |
| C | 5 | 5 |

## Female Flex Adapter
(PAF, 3PAF4, PAF5, PAF55, PAF6)

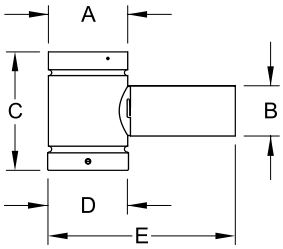



Connects ExcelPellet vent from an appliance to flexible liner coming from masonry flue.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| Code | A | B | C | D |
| 3PAF | 3 | 3 3/4 | 5 | 3 5/8 |
| 3PAF4 | 3 | 3 3/4 | 2 3/4 | 4 5/8 |
| 3PAF5 | 3 | 3 3/4 | 3 1/2 | 5 1/2 |
| 3PAF55 | 3 | 3 3/4 | 3 1/2 | 6 |
| 3PAF6 | 3 | 3 3/4 | 3 1/2 | 6 1/2 |
| 4PAF | 4 | 4 3/4 | 5 | 4 5/8 |
| 4PAF5 | 4 | 4 3/4 | 3 1/2 | 5 1/2 |
| 4PAF55 | 4 | 4 3/4 | 3 1/2 | 6 |
| 4PAF6 | 4 | 4 3/4 | 3 1/2 | 6 1/2 |

## Flex Adapter Tee
(3PATF4, 4PATF4)

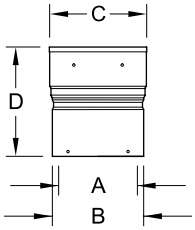



For pellet stove installations that are vented into a masonry chimney. The snout accepts EXCELPellet and connects EXCELPellet to a 4" flexible liner. The Flex Adapter tee has a removable twist mouth that is available in 3" or 4". Use in combination with the Masonry Adapter (PAM). Tee cap included.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 4 9/16 | 4 9/16 |
| B | 2 7/8 | 3 7/8 |
| C | 6 3/4 | 7 3/4 |
| D | 4 5/8 | 4 5/8 |
| E | 10 3/4 | 10 3/4 |

## Pellet / Liner 5" Adapter (PAL5)

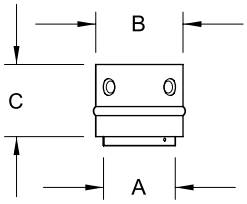



Provides a sealed connection where a rigid liner is installed above an EXCELPellet system.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 | 4 |
| B | 3 3/4 | 4 3/4 |
| C | 5 | 5 |
| D | 4 1/4 | 5 5/8 |

## Universal Stove Adapter
(PAS, PASB)

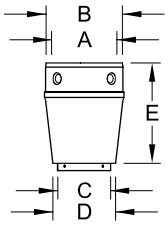



Universal adapter fits both large OD flue collars (e.g.: Harman) and small OD flue collars. The stove adapter fastens permanently to the stove but can be easily disconnected from the rest of the vent to simplify cleaning. Available in Galvalume or Black exterior.

INCHES

| Dimensions | | |
|---|---|---|
| | **3"** | **4"** |
| A | 3 | 4 |
| B | 3 5/8 | 4 5/8 |
| C | 3 3/8 | |

## Tapered Stove Adapter (3PI4, 3PI4B)

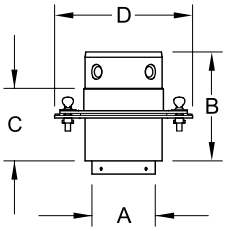



Universal Stove adapter that increases diameter from 3" to 4".

INCHES

| Dimensions | |
|---|---|
| A | 4 |
| B | 4 3/4 |
| C | 3 |
| D | 3 5/8 |
| E | 6 |

## Quick Disconnect Stove Adapter (PAQ)

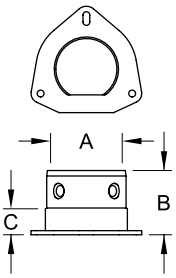



Makes cleaning and servicing pellet stoves dramatically easier. This stove adapter comes apart at the center by undoing two thumb screws. With the PAQ installed, there is no need to take lengths apart for cleaning.

INCHES

| Dimensions | | |
|---|---|---|
| | **3"** | **4"** |
| A | 3 | 4 |
| B | 5 3/8 | 5 3/8 |
| C | 3 5/8 | 3 5/8 |
| D | 4 3/4 | 5 3/4 |

## Harman Stove Adapter
(PASH, PASH6)

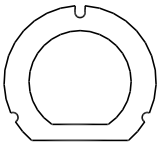



Bolts directly to Harman stoves and does not require silicone. Available in two lengths to accommodate stoves with extended hoppers. Includes a Harman Style Gasket (HG).

INCHES

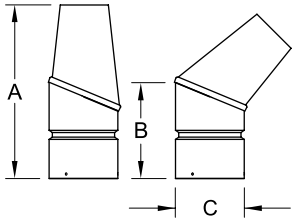
| Dimensions | | |
|---|---|---|
| | **PASH** | **PASH6** |
| A | 3 | 3 |
| B | 2 7/8 | 6 3/8 |
| C | 1 1/8 | 4 5/8 |

## Harman Style Gaskets
(HG)



Replacement gaskets for the Harman Stove Adapter, comes in packs of 5.

## Adjustable Jet Cap
(PCJ)

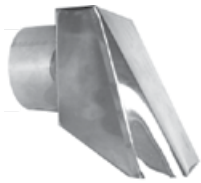


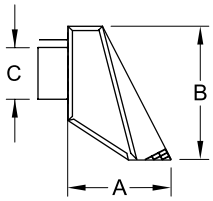

Can be rotated to direct hot flue gasses away from bushes or other things in proximity to the exhaust. Includes a spark screen.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 9 3/8 | 9 3/4 |
| B | 5 1/2 | 5 7/8 |
| C | 3 3/4 | 4 3/4 |

## Horizontal Cap
(PCH)



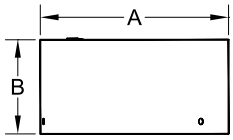



Directs and accelerates flue gasses away from the house reducing the possibility of "moustache effect" from smoke accumulation. Includes a spark screen.

INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 5 | 6 |
| B | 6 1/4 | 8 |
| C | 3 | 4 |

## Spark Screen
(PCS)




A stainless steel spark screen that fits any standard length or elbow to be used as a termination. Also fits Economy Cap (PCE).

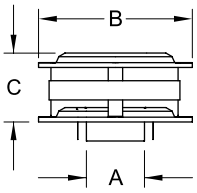
INCHES

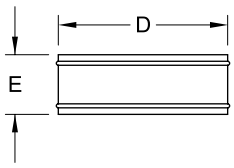
| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 3/4 | 4 3/4 |
| B | 1 7/8 | 1 7/8 |

## Vertical Rain Cap (PCR)
## Rain/Wind Shield (PRCW)

Vertical rain cap (PCR)

Vertical rain cap (PCR)
with rain/wind shield (PRCW)



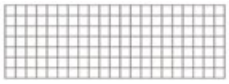




Constructed entirely of stainless steel and designed to provide good protection from wind and rain. An optional Wind/Rain Shield (PRCW) is available for added protection in harsh weather.

INCHES

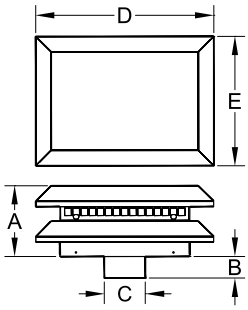
| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 | 4 |
| B | 8 | 9 |
| C | 3 7/8 | 3 7/8 |
| D | 11 | 11 |
| E | 3 7/8 | 3 7/8 |

## Vertical Cap Spark Screen
(PRCS)



An optional stainless steel spark screen is available for installations where sparks can pose a safety problem

## Traditional Masonry Adapter Cap
(PCT)

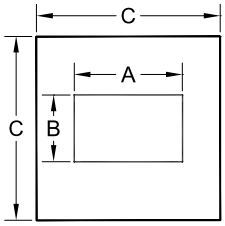



Certified for pellet appliances in a masonry chimney. Requires a flashing (CTF, or CTFC). The optional Wind / Rain Shield (CTS) can improve performance in extreme wind conditions. Cap can be reduced to 3 1/2" high to fit under slate or stone topped chimneys.

INCHES

| Dimensions | |
|---|---|
| A | 6 1/2 |
| B | 2 3/4 |
| C | 3 3/4 |
| D | 16 1/2 |
| E | 12 |

## Universal Flashing for Traditional Cap
(CTF)

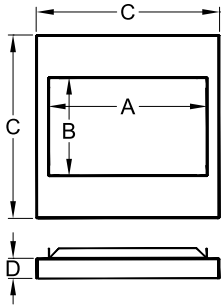



Made of galvalume, this flat flashing base is easy to cut, bend, or simply silicone to the top of a masonry chimney.

INCHES

| Dimensions | |
|---|---|
| A | 11 3/4 |
| B | 7 1/4 |
| C | 20 |

## Clay Tile Flashing for Traditional Cap
(CTFC)



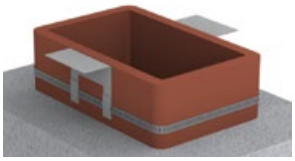

Made of galvalume and designed to fit onto a clay tile flue. Optional Hose Clamp Bracket (HC) can be used or it can be secured in the method of your choice.

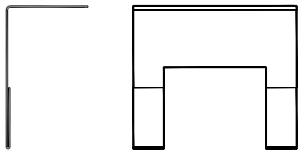
INCHES

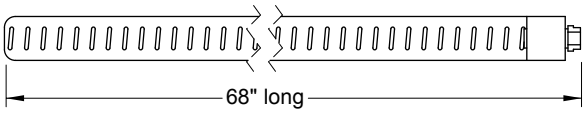
| Dimensions | |
|---|---|
| A | 11 3/4 |
| B | 7 1/4 |
| C | 13 3/4 |
| D | 1 1/2 |

## Hose Clamp Bracket
(HC)

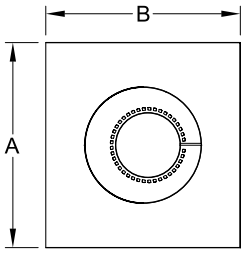
Heavy duty hose clamp and two mounting brackets for the Clay Tile Flashings (MFC and CTFC).

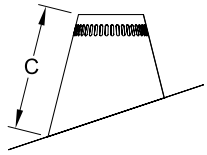







## Flashings
(PF, PFA, PFB)



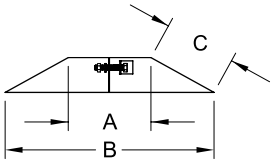




INCHES

| Flashing Dimensions | | | | | |
|---|---|---|---|---|---|
| **Pitch** | **Code** | **Flue I.D.** | **A x B** | **C** | **Storm Collar** |
| Flat - 2/12 | 3PF | 3 | 15 7/8 x 15 7/8 | 8 1/16 | ØPSC |
| | 4PF | 4 | 15 7/8 x 15 7/8 | 8 1/16 | ØPSC |
| 1/12 - 7/12 | 3PFA | 3 | 18 x 15 15/16 | 9 3/4 | ØPSC |
| | 4PFA | 4 | 18 x 15 15/16 | 10 | ØPSC |
| 8/12-12/12 | 3PFB | 3 | 22 1/2 x 18 | 14 1/4 | ØPSC |
| | 4PFB | 4 | 24 x 18 | 15 5/16 | ØPSC |

*A storm collar is included with purchase of a flashing*

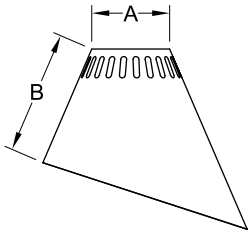
## Storm Collars
(PSC)




INCHES

| Dimensions | | |
|---|---|---|
| | 3" | 4" |
| A | 3 3/4 | 4 3/4 |
| B | 9 7/16 | 10 7/16 |
| C | 4 | 4 |

## Metal Roof Flashing Adapter
(MFA, MFB)




This flashing cone fits onto a 6" EXCEL Metal Roof Flashing (6EMFA or 6EMFB, page 16) to convert it for use with EXCELPellet vent or EXCELDirect. **Metal Roof Flashing and storm collar ordered separately.**

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **3MFA** | **3MFB** | **4MFA** | **4MFB** |
| A | 4 | 4 | 5 | 5 |
| B | 9 1/2 | 11 1/8 | 8 | 9 1/2 |

# EXCELPellet Offset Tables

Use this table if you are not installing an adjustable length between the elbows

| LENGTH BETWEEN OFFSETS | 45° Elbows RISE | 45° Elbows OFFSET |
|---|---|---|
| **3 INCH Ø** | | |
| NO LENGTH | 7 | 2 3/4 |
| 6" Length | 9 3/4 | 5 3/4 |
| 12" Length | 14 | 10 |
| 24" Length | 23 1/4 | 19 1/4 |
| 36" Length | 31 | 27 |
| 48" Length | 39 1/2 | 35 1/2 |
| 48" + 6" Length | 42 1/2 | 38 1/2 |
| 48" + 12" Length | 46 3/4 | 42 3/4 |
| 48" + 24" Length | 55 3/4 | 51 3/4 |
| 48" + 36" Length | 63 3/4 | 59 1/2 |
| 48" + 48" Length | 72 | 68 |
| 48" + 48" + 12" Length | 79 1/4 | 75 1/4 |
| 48" + 48" + 24" Length | 88 1/2 | 84 1/2 |
| **4 INCH Ø** | | |
| NO LENGTH | 7 1/4 | 3 |
| 6" Length | 10 | 6 |
| 12" Length | 14 1/4 | 10 1/4 |
| 24" Length | 23 1/2 | 19 1/4 |
| 36" Length | 31 1/4 | 27 |
| 48" Length | 39 3/4 | 35 1/2 |
| 48" + 6" Length | 42 3/4 | 38 1/2 |
| 48" + 12" Length | 47 | 42 3/4 |
| 48" + 24" Length | 56 1/4 | 52 |
| 48" + 36" Length | 64 | 59 3/4 |
| 48" + 48" Length | 72 1/2 | 68 1/4 |
| 48" + 48" + 12" Length | 79 1/2 | 75 1/4 |
| 48" + 48" + 24" Length | 88 3/4 | 84 1/2 |

All measurements are in inches

Use this table if you are installing a 16" adjustable length between the elbow

| LENGTH BETWEEN OFFSETS | 45° Elbows RISE | 45° Elbows OFFSET |
|---|---|---|
| **3 INCH Ø** | | |
| 6" Length* | 13 1/2 - 21 1/2 | 9 1/2 - 17 1/2 |
| 12" Length | 15 1/2 - 23 1/2 | 11 1/2 - 19 1/2 |
| 12" + 6" Length* | 18 1/2 - 26 1/4 | 14 1/4 - 22 1/4 |
| 24" Length | 24 3/4 - 32 1/2 | 20 1/2 - 28 1/2 |
| 36" Length | 32 1/2 - 40 1/2 | 28 1/2 - 36 1/4 |
| 48" Length | 41 - 48 3/4 | 37 - 44 3/4 |
| 48" + 6" Length | 43 3/4 - 51 3/4 | 39 3/4 - 47 3/4 |
| 48" + 12" Length | 48 - 56 | 44 - 52 |
| 48" + 24" Length | 57 1/4 - 65 1/4 | 53 1/4 - 61 1/4 |
| 48" + 36" Length | 65 - 73 | 61 - 69 |
| 48" + 48" Length | 41 - 48 3/4 | 69 1/2 - 77 1/2 |
| 48" + 48" + 12" Length | 80 3/4 - 88 3/4 | 76 3/4 - 84 1/2 |
| 48" + 48" + 24" Length | 90 - 97 3/4 | 85 3/4 - 93 3/4 |
| **4 INCH Ø** | | |
| 6" Length* | 13 3/4 - 21 3/4 | 9 1/2 - 17 1/2 |
| 12" Length | 15 3/4 - 23 3/4 | 11 1/2 - 19 1/2 |
| 12" + 6" Length* | 18 3/4 - 26 3/4 | 14 1/2 - 22 1/2 |
| 24" Length | 25 - 33 | 20 3/4 - 28 3/4 |
| 36" Length | 32 3/4 - 40 3/4 | 28 1/2 - 36 1/2 |
| 48" Length | 41 1/4 - 49 1/4 | 37 - 45 |
| 48" + 6" Length | 44 1/4 - 52 | 40 - 48 |
| 48" + 12" Length | 48 1/2 - 56 1/4 | 44 1/4 - 52 |
| 48" + 24" Length | 57 1/2 - 65 1/2 | 53 1/4 - 61 1/4 |
| 48" + 36" Length | 65 1/4 - 73 1/4 | 61 1/4 - 69 |
| 48" + 48" Length | 73 3/4 - 81 3/4 | 69 1/2 - 77 1/2 |
| 48" + 48" + 12" Length | 81 - 89 | 76 3/4 - 84 3/4 |
| 48" + 48" + 24" Length | 90 1/4 - 98 1/4 | 86 - 94 |

All measurements are in inches

* Use a 6" adjustable length instead of the 16" adjustable length

# EXCELDirect

DIRECT VENT FOR GAS & PROPANE APPLIANCES

# EXCELDirect® Technical Information

## Certification

EXCELDirect® is certified by INTERTEK and UL.

## Applications*

EXCELDirect® is a certified venting system designed to be used only with certified direct vent gas fired appliances.

## Clearance to Combustible Materials

As determined by the gas appliance specifications in its instruction manual.

## Construction

**Flue:** .016" Stainless Steel
**Casing:** .019" Galvalume Steel or .022" Satin Coated (painted black)
**Paint:** Forrest "Stove Bright" flat black.
**Seam:** Interior and exterior seams are laser welded.

## Sizes

4" interior X 6 5/8" exterior
5" interior X 8" exterior

* charts refer to inner diameter.

# EXCELDirect® Design Considerations

Prior to starting your installation, we suggest you take the following into consideration:

1. There are two possible ways to connect a direct vent venting system to a gas appliance:
   - The horizontal installation (through the wall);
   - The vertical installation (through the roof). Check the appliance manufacturer's installation instructions to see all possible vent configurations.
2. Review all your options for the appliance location and also venting configuration. Try to minimize the alteration and reframing of structural components of the building (wall studs, water pipes, electrical wiring, ceiling joists, roof rafters, etc.). It may be easier to change the location of your appliance than to modify the building structure.
3. Carefully read the appliance and the venting system instruction manuals. Good planning will save you time, work and money.
4. Use only authorized EXCELDirect® listed components unless compatibility with another brand is specified in the appliance manufacturer's instructions. Do not use damaged parts.
5. For a horizontal installation, you will have to take into consideration the distance between the gas appliance adapter to the wall, as well as the wall thickness and a vertical rise (if applicable). The horizontal vent termination on the exterior must be located in accordance with the Installation Codes and Regulations.
6. For a vertical installation, you must consider the distance between the gas appliance outlet and the ceiling, the ceiling thickness, the height of the attic or second floor and allow sufficient vent height above roof line.
7. For two-story applications, firestops are required at each floor. If an offset is needed in the attic, additional lengths and elbows will be required.
8. Contact your local building authority and/or fire officials for permits, restrictions and installation inspections. You may also wish to contact your house insurance representative.

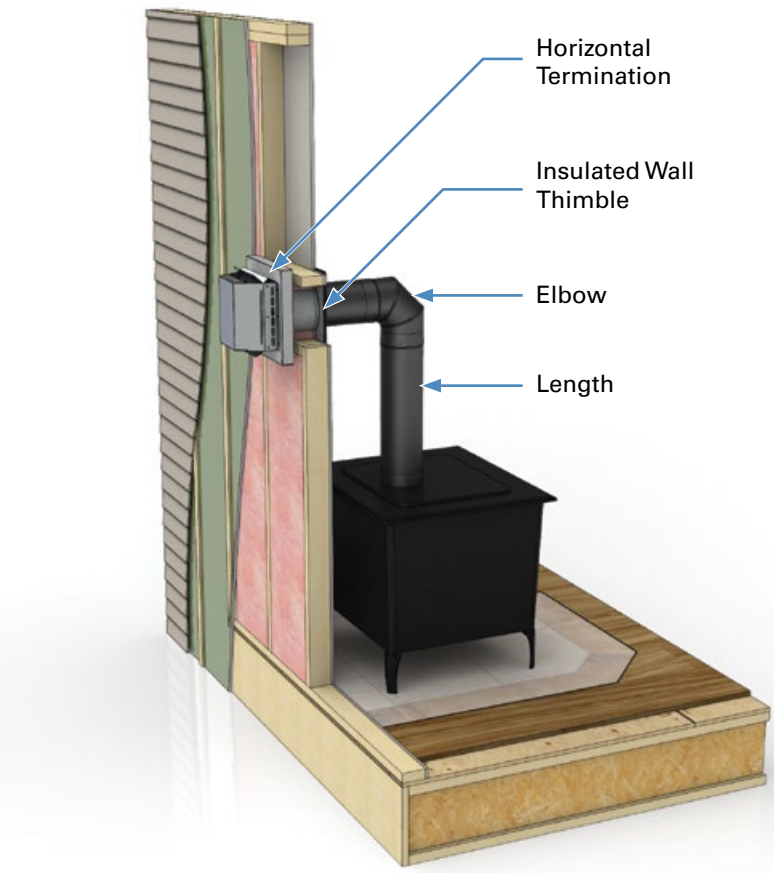
** For a list of manufacturer-specific appliance adapters, reference page 80.*

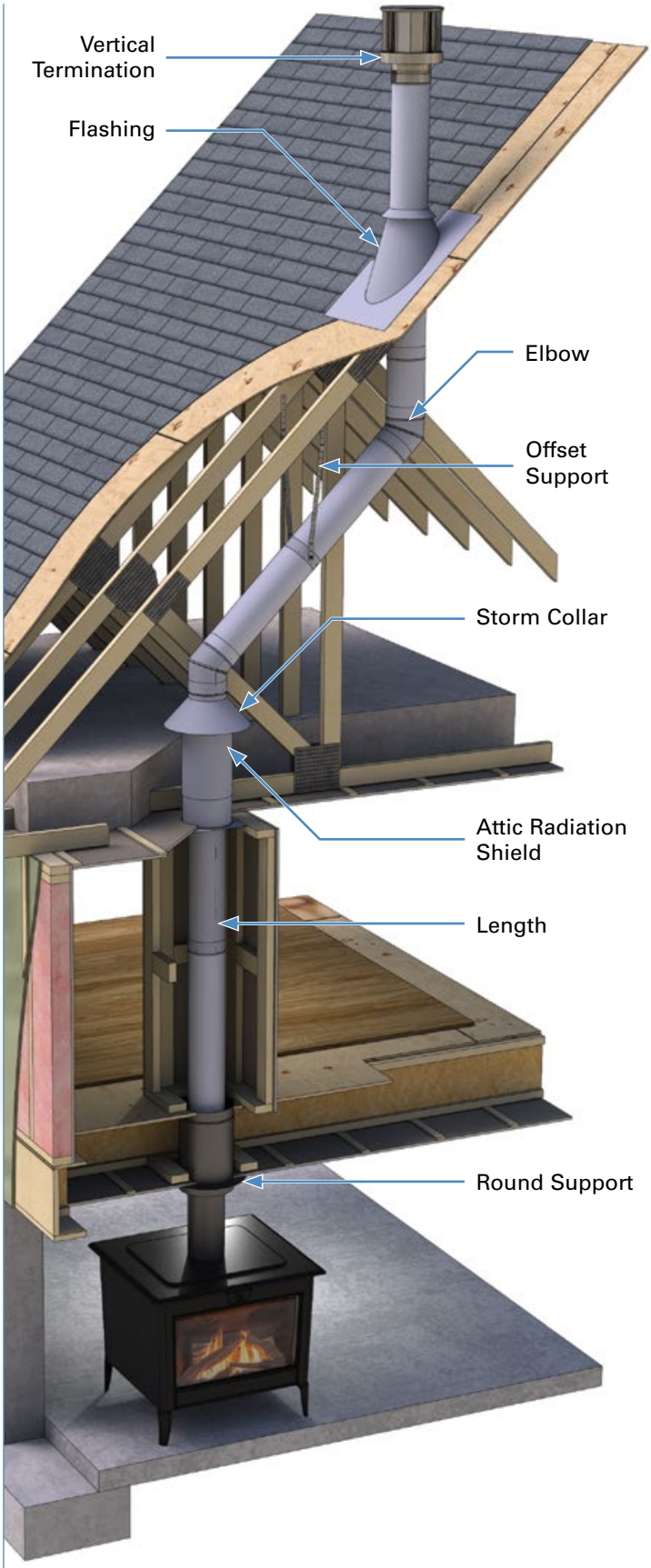
C ETL LISTED US
Intertek
4005717

UL
LISTED
34BV

# EXCELDirect® Typical Installations

*NOTE: The following information is provided to assist you in selecting the chimney components required for your installation. It is intended to be a guideline only. These are not the installation instructions.*

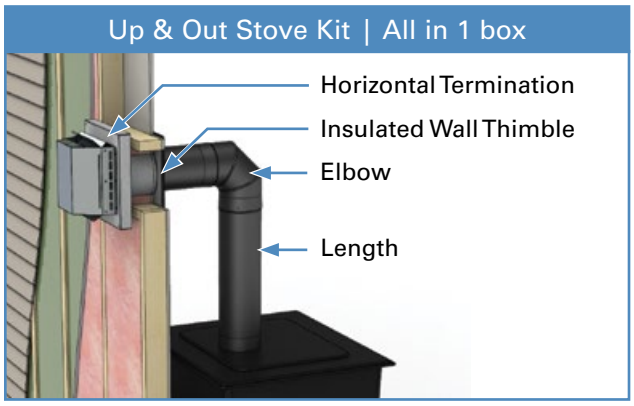


# EXCELDirect® Product Descriptions

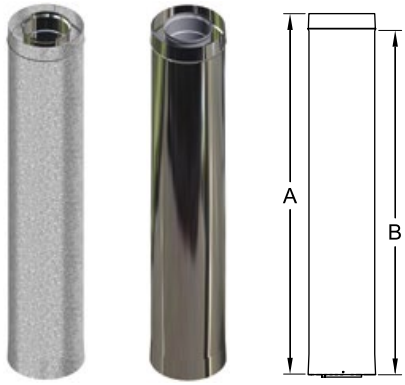
## Horizontal Termination Kit
(4HTK)

This classic up and out kit includes a Horizontal Termination (HT), Insulated Wall Thimble (WT), Trim Plate (TP), Black 90° Elbow (DE90B), Black 9" Length (DL9B) and Black 2' Length (DL2B).




NEW

## Lengths
(DL6, DL6B, DL9, DL9B, DL1, DL16, DL16B, DL1B, DL2, DL2B, DL3, **DL3SS**, DL3B, DL4, DL4B)




EXCELDirect® lengths are available in 48", 36", 24", 16", 12", 9" & 6". All lengths have a stainless steel interior and either a Galvalume or "Stove Bright" flat black exterior. **All EXCELDirect® lengths fit directly onto DuraVent® flue collars without the need for an adapter.**

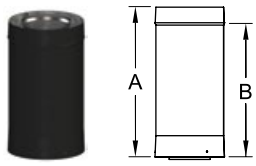
Choose 3' stainless steel lengths (DL3SS) when considering an aesthetic option that provides a stainless look above the roof. Available in 4" and 5" diameters, the 36" lengths have a mirror finish, stainless steel interior and exterior.

Slip lengths enable an installer to adjust the system to the exact overall length required for any installation. Slip lengths must be installed above a straight length that is not adjustable and will not adjust into an elbow.

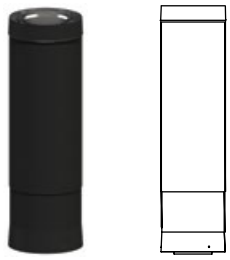
INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| DL6 | 5 5/8 | 4 1/4 |
| DL9 | 8 5/8 | 7 1/4 |
| DL1 | 11 5/8 | 10 1/4 |
| DL16 | 15 11 /16 | 14 3/16 |
| DL2 | 23 5/8 | 22 1/4 |
| DL3 | 35 5/8 | 34 1/4 |
| DL3SS | 35 5/8 | 34 1/4 |
| DL4 | 47 5/8 | 46 1/4 |
| **Slip Lengths** | | |
| DLS6 | 5 11/16 | 4 1/8 |
| DLS1 | Adds 1 7/8" - 9" | |
| DLS2 | Adds 1 7/8" - 21" | |

## Slip Lengths
(DLS6, DLS6B, DLS1, DLS1B, DLS2, DLS2B)




## Adjustable Length
(DLA16, DLA16B, DLA30, DLA30B)



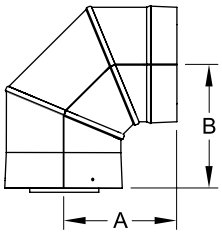
The Adjustable Length includes two pipe sections that must be used together. All lengths have a stainless steel interior and either a Galvalume or "Stove Bright" flat black exterior. The joint between the pipe sections is cleaner looking than using a slip length. Using an adjustable length is ideal for up and out installations.

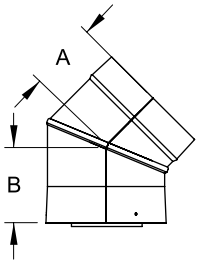
INCHES

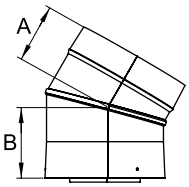
| Adjustable Length | |
|---|---|
| DLA16 | Adjustable from 9" to 16" |
| DLA30 | Adjustable from 16 1/2" to 29" |

## Elbows 30°, 45° & 90°

(DE30, DE30B, DE45, DE45B, DE90, DE90B)







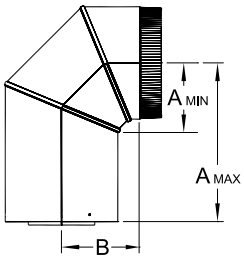

EXCELDirect® elbows are available in 45° and 90° and also in Black or Galvalume. The stainless steel inner casings are seam welded to ensure there is no leakage.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 4DE90 | 6 3/4 | 7 |
| 4DE45 | 3 5/8 | 4 3/8 |
| 4DE30 | 3 1/4 | 3 15/16 |
| 5DE90 | 7 5/8 | 7 7/8 |
| 5DE45 | 4 | 4 5/8 |
| 5DE30 | 3 1/4 | 3 15/16 |

## Slip Elbow

(DE90S, DE90SB)



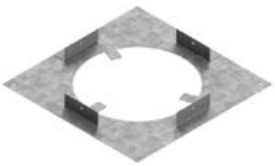

The vertical section of the slip elbow slides over a standard length just like a slip section of pipe. This eliminates the need for a separate slip piece. The installation can be completed faster and with fewer joints.

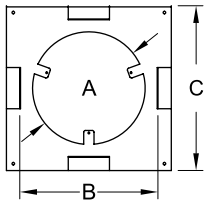
INCHES

| Dimensions | | | |
|---|---|---|---|
| | **A max.** | **A min.** | **B** |
| 4DE90S | 11 1/2 | 4 3/4 | 6 7/8 |
| 5DE90S | 11 1/2 | 5 | 7 3/4 |

## Ceiling Support / Firestop

(CS)



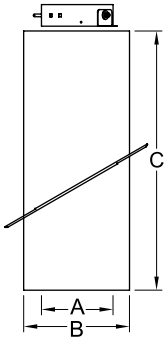


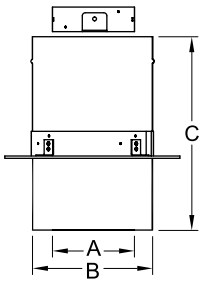

The Ceiling Support/Firestop is the most common support. It can be used on any floor level. It is the perfect choice when a structure hides the venting system. Simply screw the support to the framed joist with four #8 x 1 1/2" wood screws or use four spiral nails, 2" long. The Ceiling Support/Firestop acts as a firestop and a support when installed from below. It can also be installed above the joists; however an additional firestop is required from below in this case.

INCHES

| Dimensions | | |
|---|---|---|
| | **4CS** | **5CS** |
| A | 6 3/4 | 8 1/8 |
| B | 8 3/4 | 10 |
| C | 10 3/4 | 12 |

## Round and Square Support / Radiation Shield (RDS, SS)






EXCELDirect® supports are suitable for use on flat or sloping ceilings. The amount they project into the room is determined only by the desired visual effect, but must be more than 1/4 inch. These supports are designed to act as a combination of support and attic radiation shield. To use either support as an attic radiation shield, simply close the open area at the top of the support (in the attic) with a storm collar. The Round & Square Supports can hold up to 50' of 4"x 6 5/8" venting or 40' of 5"x 8".

INCHES

| Square Support Dimensions | | |
|---|---|---|
| | **4SS** | **5SS** |
| A | 6 3/4 | 8 1/8 |
| B | 9 3/4 | 10 3/4 |
| C | 24 | 24 |

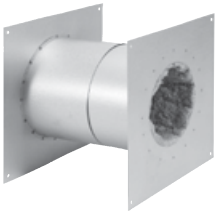
The ESQSC and ESQSC-X storm collars are ordered separately.

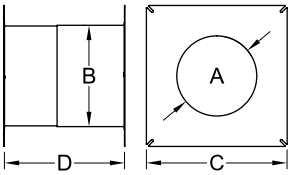
| Round Support Dimensions | | |
|---|---|---|
| | **4RDS** | **5RDS** |
| A | 6 3/4 | 8 1/8 |
| B | 9 3/4 | 10 3/4 |
| C | 15 3/4 | 15 3/4 |

Storm collar (ESC-X) ordered separately.

## Insulated Wall Thimble

(WT)





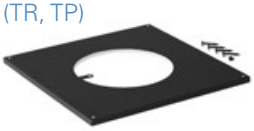

Telescopes to accommodate wall thickness from 4" to 10 1/2". It is fully insulated and fits tightly to prevent heat loss. The 4" X 6 5/8" venting requires an 8 3/4" x 8 3/4" framed opening; the 5" X 8" venting requires a 10" x 10" framed opening.

INCHES

| Dimensions | | |
|---|---|---|
| | **4WT** | **5WT** |
| A | 7 | 8 3/8 |
| B | 8 5/8 | 9 7/8 |
| C | 12 | 13 |
| D | **4 to 10 1/2** | 4 to 10 1/2 |

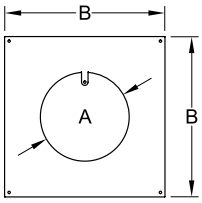
## Trim Ring, Trim Plate

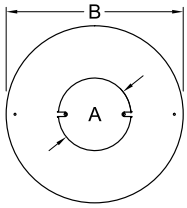
(TR, TP)



Trim plate (TP)

Trim ring (TR)




These are typically used as decorative covers when installing a wall thimble in a gas stove application. On vertical installations they can serve as firestops when installed from below. They can also serve as a firestop on horizontal installations that don't require a wall thimble (i.e. a fully non-combustible wall). The Trim Ring (TR) is larger and round and the Trim Plate (TP) is smaller and square. Available in black only.

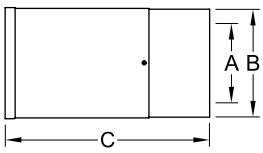
All EXCELDirect trims include a rubberized O-ring to seal the gap between the trim and vent.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| | **4TP** | **4TR** | **5TP** | **5TR** |
| A | 6 7/8 | 6 7/8 | 8 1/4 | 8 1/4 |
| B | 12 1/4 | 19 | 13 | 20 |

## Wall Thimble Extension

(WTE)



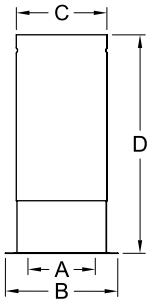

UL listed Wall Thimble insulated extensions. They install easily and will allow our standard wall thimble (WT) to fit walls up to 20 3/4" thick.

INCHES

| Dimensions | | |
|---|---|---|
| | **4WTE** | **5WTE** |
| A | 6 7/8 | 8 1/4 |
| B | 8 1/2 | 9 3/4 |
| C | 5 3/4 to 15 | |

## Attic Radiation Shield / Firestop

(AS)



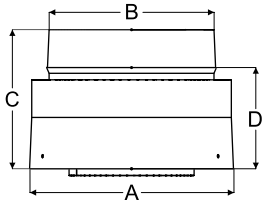

The Attic Radiation Shield / Firestop protects combustible framing in the floor or ceiling adjacent to the chimney, and also acts as a firestop spacer. When EXCELDirect® passes through the Attic Radiation Shield into an insulated space, a storm collar (SC) must also be installed to prevent the entry of insulation. This option CANNOT be used as a support and is typically used when the venting system will be enclosed.

INCHES

| Dimensions | | |
|---|---|---|
| | **4AS** | **5AS** |
| A | 6 7/8 | 8 1/4 |
| B | 10 3/4 | 12 |
| C | 8 5/8 | 9 7/8 |
| D | 17 1/2 to 30 | 17 1/2 to 30 |

## Reducer 5" – 4"

(R54)



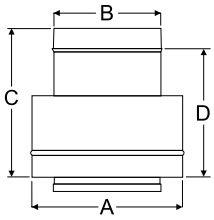

Only certain appliances are approved to use a reducer. Check the appliance manual. This component permits the transition from 5" x 8" to 4" x 6 5/8".

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| R54 | 8" | 6 5/8" | 5 1/2" | 4" |

## Reducer 8" – 5"

(R85)



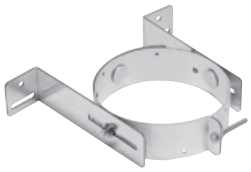

Only certain appliances are approved to use a reducer. Check the appliance manual. This component is for large direct vent gas fireplaces. It permits the transition from 8"x11" venting to 5"x 8" EXCELDirect.

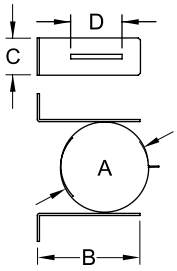
INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| R54 | 11.162" | 7.859" | 10.973" | 9.478" |

## Adjustable Wall Support

(WS)





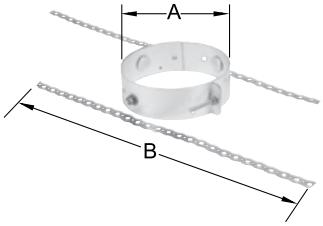

Rated to support up to 13' (4" x 6 5/8") or 10' (5" x 8") of venting. The universal support collar is adjustable for either the 6 5/8" or 8" outside vent casing. It adjusts easily to provide from 1" to 5" of clearance to the wall.

INCHES

| Dimensions | |
|---|---|
| | **WS (universal)** |
| A | 6 1/2 or 7 7/8 |
| B | 7 1/2 |
| C | 2 |
| D | 4 1/4 |

## Offset Support

(OS)




The offset support is primarily used to re-support the chimney above an offset. However it can also be used to provide additional support when the chimney height exceeds the capacity of the primary support, or to support horizontal runs. The offset support straps are 24 inches long and the collar is adjustable to fit the 6 5/8" or 8" outside vent casing.

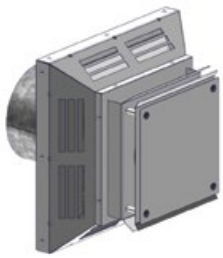
INCHES

| Dimensions | |
|---|---|
| | **OS (universal)** |
| A | 6 1/2 or 7 7/8 |
| B | 24 |

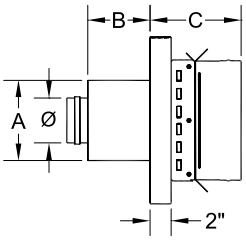
## Horizontal Terminations

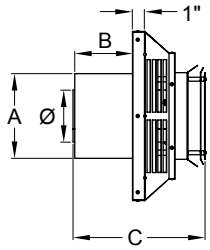
(HT, LRHT)

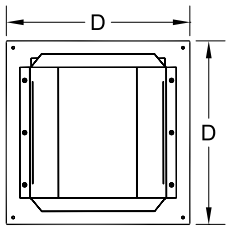
Horizontal Termination (HT)

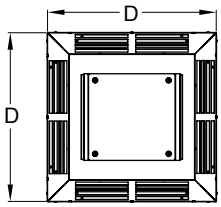


Low Restriction Horizontal Termination (LRHT)




Our horizontal terminations are offered in two styles. Both are tested to high wind conditions and perform well even in winds equivalent to 40 mph. For deeper siding, an additional Vinyl Siding Standoff (VSS) is required.

INCHES

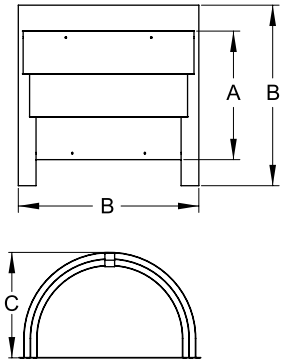
| Horizontal Termination Dimensions (HT) | | |
|---|---|---|
| **Ø** | **4"** | **5"** |
| A | 6 3/4 | 8 1/8 |
| B | 5 1/4 | 5 1/4 |
| C | 7 5/8 | 7 5/8 |
| D | 14 | 14 |

INCHES

| Low Restriction Horizontal Termination Dimensions (LRHT) | | |
|---|---|---|
| **Ø** | **4"** | **5"** |
| A | 6 3/4 | 8 1/8 |
| B | 5 1/2 | 5 1/2 |
| C | 12 3/8 | 12 3/8 |
| D | 13 5/8 | 16 1/8 |

## Wind / Heat Shield for Horizontal Termination

(HTS)



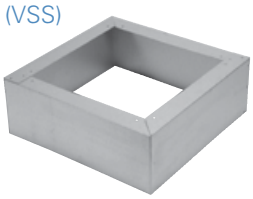

Provides additional wind and thermal protection. Required for specific appliance manufacturers; refer to your appliance manual for details about requirements. This shield also acts as a decorative shroud which can be painted.

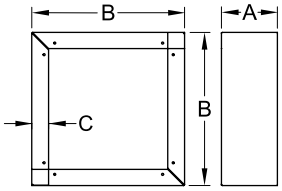
INCHES

| Dimensions (HTS) | | |
|---|---|---|
| **Ø** | **4"** | **5"** |
| A | 10 | 12 |
| B | 14 | 14 |
| C | 8 1/8 | 8 1/8 |

## Vinyl Siding Standoff

(VSS)





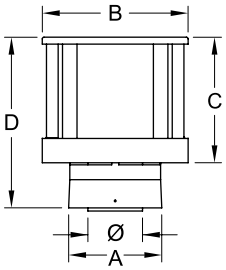

Required when siding is more than 1 1/2" deep. Prevents damage to temperature sensitive siding materials such as vinyl, shakes or shingles. For use with horizontal terminations only.

INCHES

| Dimensions | |
|---|---|
| **Ø** | **VSS (universal)** |
| A | 5 |
| B | 14 |
| C | 1 1/2 |

## Vertical Termination

(SVT)




The SVT cap is made of stainless steel and is riveted during assembly to ensure lasting performance. It is certified to high wind applications where the vent terminates vertically. It cannot be installed horizontally.

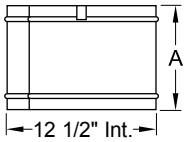
INCHES

| Dimensions | | |
|---|---|---|
| **Ø** | **4"** | **5"** |
| A | 6 5/8 | 8 |
| B | 10 1/2 | 10 1/2 |
| C | 9 1/2 | 9 1/2 |
| D | 12 1/4 | 12 1/4 |

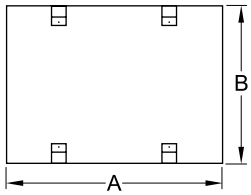
## Wind / Rain Shield

(4SVTS, CTS)

4SVTS



CTS




Optional Wind and Rain Shields prevent issues caused by strong wind or driving rain. The 4SVTS shield will fit the SVT or IVT cap, the CTS is for the Traditional Style caps.

| Termination | Wind / Rain Shield |
|---|---|
| SVT, IVT | 4SVTS |
| CT3, CT4, PCT | CTS |

INCHES

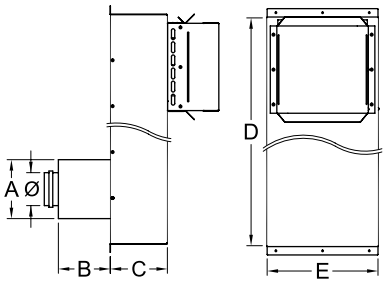
| 4SVTS Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 4SVTS | 9 1/8 | 12 1/2 |

INCHES

| CTS Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **Height** |
| CTS | 18 1/2 | 14 | 5 |

## Snorkel Termination

(ST14, ST36)



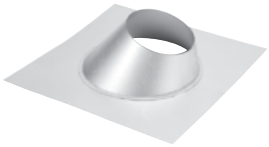

There are two Snorkel Terminations designed for use when a vertical rise is desired on the exterior of the home, or if the installation is below grade.

INCHES

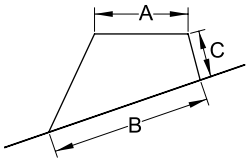
| Dimensions | | | | |
|---|---|---|---|---|
| | **ST14** | | **ST36** | |
| **Ø** | **4"** | **5"** | **4"** | **5"** |
| A | 6 5/8 | 8 | 6 5/8 | 8 |
| B | 7 to 10 3/4 | 7 to 10 3/4 | 7 to 10 3/4 | 7 to 10 3/4 |
| C | 6 1/2 | 6 1/2 | 6 1/2 | 6 1/2 |
| D | 26 3/8 | 26 3/8 | 48 3/8 | 48 3/8 |
| E | 12 3/4 | 12 | 12 3/4 | 12 |

## Adjustable Flashing

(F, FA, FB)



Flashings include a storm collar




Our Flashings are made of galvalume steel and we have variations to fit any pitch.

For 5" x 8" EXCELDirect, a 6" EXCEL chimney flashing is used. Similarly, for installations through metal roofs, a 6" EXCEL Metal Roof Flashing should be used in combination with a Metal Roof Flashing Adapter (4MFA, 4MFB).

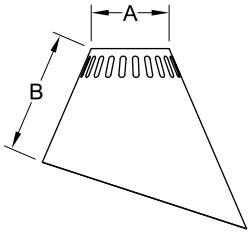
4F Flat roof
4FA 1/12 – 7/12 pitch roof
4FB 8/12 – 12/12 pitch roof

INCHES

| Flashing Dimensions | | | | | | |
|---|---|---|---|---|---|---|
| **Pitch** | **DV Size** | **Code** | **Base W x L** | **A** | **B** | **C** |
| Flat - 2/12 | 4 x 6 5/8 | 4F | 20 x 20 | 7 | 12 | 8 |
| 1/12 - 7/12 | 4 x 6 5/8 | 4FA | 20 x 20 | 7 | 12 5/8 | 3 3/4 |
| 8/12 - 12/12 | 4 x 6 5/8 | 4FB | 22 x 26 | 7 | 17 | 3 3/4 |
| Flat - 2/12 | 5 x 8 | 6EF | See EXCEL Chimney Section | | | |
| 1/12 - 7/12 | 5 x 8 | 6EFA | | | | |
| 8/12 - 12/12 | 5 x 8 | 6EFB | | | | |

## Metal Roof Flashing Adapter

(MFA, MFB)




This flashing cone fits onto a 6" EXCEL Metal Roof Flashing (6EMFA or 6EMFB, page 16) to convert it for use with EXCELPellet vent or EXCELDirect. **Metal Roof Flashing and storm collar ordered separately.**

INCHES

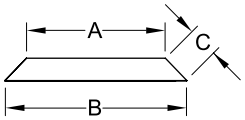
| Dimensions | | |
|---|---|---|
| **Code** | **4MFA** | **4MFB** |
| A | 5 | 5 |
| B | 8 | 9 1/2 |

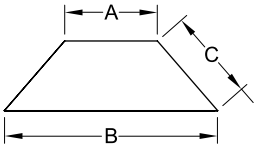
## Storm Collars

(SC, SQSC)

(SC)

(SQSC)



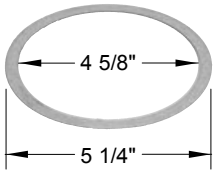

The storm collars fit both 4" x 6 5/8" and 5" x 8" EXCELDirect®. The regular Storm Collar (SC) is required to be used in combination with the Round Support or Attic Radiation Shield to form an attic insulation shield assembly when these components are installed into an insulated space. For square support installations, use the Square Support Attic Collar (SQSC) in an attic instead.

INCHES

| Dimensions | | |
|---|---|---|
| | **SC** | **SQSC** |
| A | 6 1/2 or 7 7/8 | 6 1/2 or 7 7/8 |
| B | 9 1/4 or 10 5/8 | 14 1/4 or 17 |
| C | 2 | 6 7/16 |

## Restrictor Disk

(4RD)




Used only in accordance with specific manufacturer's installation instructions to reduce the flow of combustion air.

# EXCELDirect Parts for Masonry Installations

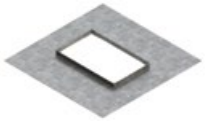
## Aluminum Flex Kits
(ALK, ALT)

EXCELDirect® Aluminum Flex Kits combine certified, high performance caps with quality, UL/ULC listed two ply aluminum flex. Certified with the most popular brands of direct vent stoves and fireplaces, our Galvalume flashing is durable, easy to bend, cut and secure with silicone. Kits include a cap with co-linear connectors, a flashing, hose clamps, and two 35' coils of aluminum flex.

**ALK Aluminum Flex Kit**

| CODE | EXHAUST | AIR INTAKE | Insert Vertical Terminal (IVT) | Universal Flashing (MFR) | Aluminum Flex Roll (AL) | Hose Clamp |
|---|---|---|---|---|---|---|
| ALK33 | 3" | 3" | | | 2 x 35' | x4 |
| ALK43 | 4" | 3" | | | | |

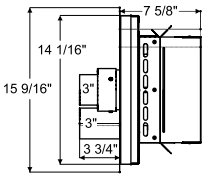
**ALT Aluminum Flex Kit**

| CODE | EXHAUST | AIR INTAKE | Traditional Co-linear (CT3 or CT4) | Universal Flashing (CTF) | Aluminum Flex Roll (AL) | Hose Clamp |
|---|---|---|---|---|---|---|
| ALT33 | 3" | 3" | |  | 2 x 35' | x4 |
| ALT43 | 4" | 3" | | | | |

## Horizontal Co-Linear Flex Kit
(ALH)

Designed for installations that penetrate the exterior wall of a masonry chimney and terminate horizontally. Certified with certain appliances only. Check the appliance manual.

**ALH Aluminum Flex Kit (ALH)**

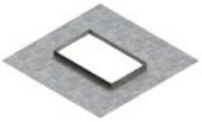
| CODE | EXHAUST | AIR INTAKE | Co-linear Horizontal Termination | Aluminum Flex Roll (AL) | Hose Clamp |
|---|---|---|---|---|---|
| ALH | 3" | 3" |   | 2 x 5' | x4 |

## Masonry Chimney Conversion Kit
(ALC4)

Uses the masonry chimney to provide fresh air to a short length (5') of flex connected to the appliance and exhausts flue gases with a 35' coil of UL/ULC listed two ply aluminum flex. Kit includes a Traditional Masonry Adapter Cap (4PCT) with a 4" connector, a flashing, hose clamps, one 4" diameter coil of aluminum flex (35'), and one short length 3" diameter flex (5').

*Not certified for use in Canada.

**Masonry Chimney Conversion Kit (ALC4)**

| CODE | EXHAUST | AIR INTAKE | Traditional Masonry Adapter Cap (4PCT) | Universal Flashing (CTF) | Aluminum Flex Roll (AL) | Hose Clamp |
|---|---|---|---|---|---|---|
| ALC4 | 4" | 3" | |  | 3" x 5' + 4" x 35' | x3 |

## Prefab Chimney Co-linear Flex Kit
(ALP33)

Designed for relining prefab chimneys with co-linear aluminum flex. Fits prefab chimneys up to 11 ½" OD.

**Prefab Chimney Co-linear Flex Kitt (ALP33)**

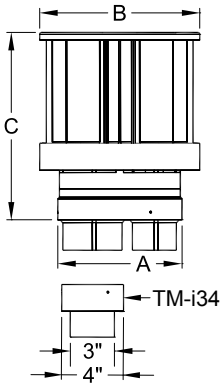
| CODE | EXHAUST | AIR INTAKE | Insert Vertical Termination (IVT) | Prefab Chimney Top Adapter (IVTP) | Aluminum Flex Roll (AL) | Hose Clamp |
|---|---|---|---|---|---|---|
| ALP33 | 3" | 3" | | | 2 x 35' | x4 |

## Aluminum Flex Roll
(AL)

Our UL/ULC certified flex has gone through rigorous puncture and torsion testing to ensure continuous quality of every length. Rolls are available in 3" or 4" diameters.

- ØAL35: 35' roll
- ØAL50: 50' roll

## Insert Vertical Termination
(IVT)



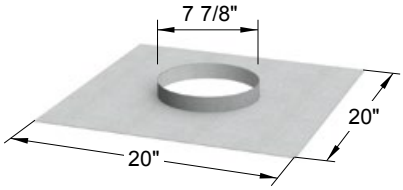

Used when installing a direct vent system in a masonry chimney using two aluminum flex liners. The IVT has a 3" air inlet and a 4" exhaust. An adapter for 3" exhaust is included. Requires a flashing (MF, MFR, MFC or IVTP). Certified for high wind. The optional Wind / Rain Shield (SVTS) can improve performance in extreme wind conditions. Stainless steel construction.

INCHES

| Dimensions | |
|---|---|
| A | 8 1/8 |
| B | 10 1/2 |
| C | 12 1/4 |

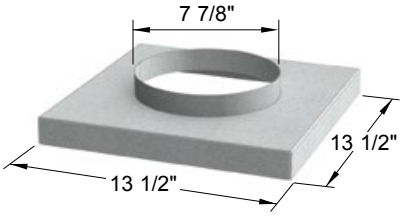
## Universal Flashing for IVT
(MFR)

Made of galvalume, this flashing can be cut, bent, or secured with silicone to the top of a masonry chimney.



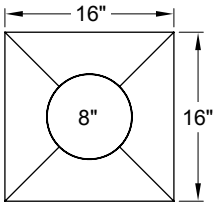

## Clay Tile Flashing for IVT
(MFC)

Made of galvalume and designed to fit onto a clay tile flue. Optional Hose Clamp Bracket (HC) can be used or it can be secured in the method of your choice.




## Masonry Flashing for IVT
(MF)

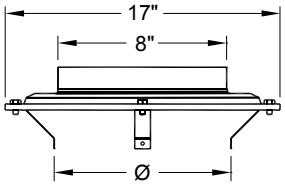
Made of stainless steel for added rigidity and corrosion resistance.




REDESIGNED

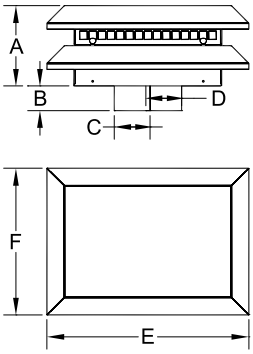
## Prefab Chimney Top Adapter
(IVTP)

This large diameter IVTP is for co-linear direct vent installations in a prefab chimney. It is large enough to accommodate 13" OD air cooled chimneys. Use with the IVT termination only.




Fits chimneys 8"- 11" OD

## Traditional Co-Linear Chimney Cap
(CT3, CT4)

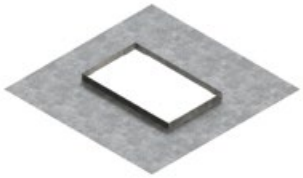


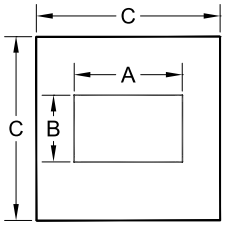

This stainless steel cap is designed for a direct vent insert installation in a masonry chimney that uses two flex liners. Requires a flashing (CTF, or CTFC). Certified for high wind. The optional Wind / Rain Shield (CTS) can improve performance in extreme wind conditions.

INCHES

| Dimensions | | |
|---|---|---|
| | **CT3** | **CT4** |
| A | 6 1/2 | 6 1/2 |
| B | 2 | 2 |
| C | 2 7/8 | 2 7/8 |
| D | 2 7/8 | 3 3/4 |
| E | 16 1/2 | 16 1/2 |
| F | 12 | 12 |

## Universal Flashing for Traditional Cap
(CTF)



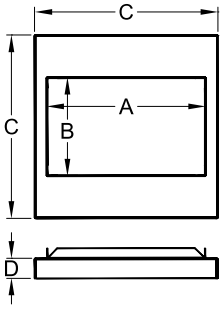



Made of galvalume, this flat flashing base is easy to cut, bend, or simply silicone to the top of a masonry chimney.

INCHES

| Dimensions | |
|---|---|
| A | 11 3/4 |
| B | 7 1/4 |
| C | 20 |

## Clay Tile Flashing for Traditional Cap
(CTFC)

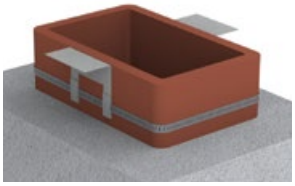


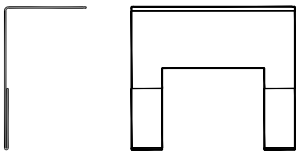

Made of galvalume and designed to fit onto a clay tile flue. Optional Hose Clamp Bracket (HC) can be used or it can be secured in the method of your choice.

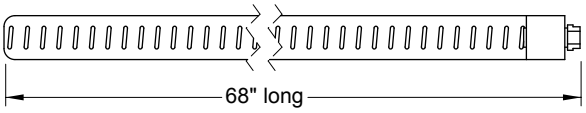
INCHES

| Dimensions | |
|---|---|
| A | 11 3/4 |
| B | 7 1/4 |
| C | 13 3/4 |
| D | 1 1/2 |

## Hose Clamp Bracket
(HC)








Heavy duty hose clamp and two mounting brackets for Clay Tile Flashings (MFC and CTFC).

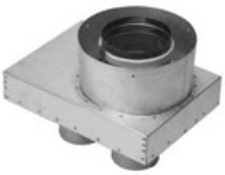
## Flex Liner Connector
(CFAA3, CFAA4)

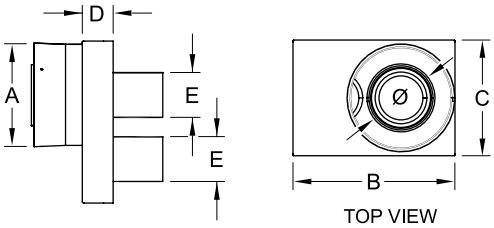
Used to connect two pieces of flex together securely and without tearing. Available for 3" or 4" flex.

## Coaxial Flex Adapter
(4CFA, 5CFA)

Permits approved appliances to use coaxial aluminum flex rather than rigid EXCELDirect. The ØCFA includes an appliance adapter, a termination adapter, and clamps. Coaxial flex is not included.

## Co-Axial to Co-Linear Appliance Adapter
(CAA)



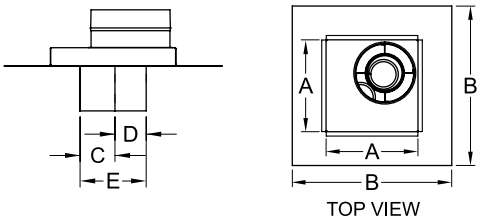



Use with direct vent gas appliances that require 4" x 6 5/8" venting. This part adapts a co-axial flue outlet to a flexible co-linear system to be used in an existing masonry chimney. **Flexible liners are ordered separately.**

INCHES

| Dimensions | |
|---|---|
| **Ø** | **4"** |
| A | 6 5/8 |
| B | 10 1/2 |
| C | 7 1/2 |
| D | 2 |
| E | 2 7/8 |

## Co-Linear Termination Adapter
(CTA and CTA4)

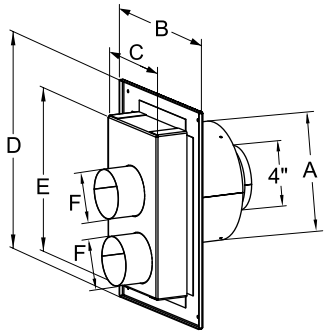



The Co-Linear Termination Adapter is for direct vent systems that are installed in existing masonry chimneys and use two co-linear liners. It is made out of stainless steel and is available with either 3" or 4" exhaust.

INCHES

| Dimensions | | |
|---|---|---|
| | **CTA** | **CTA4** |
| A | 10 3/8 | 10 3/8 |
| B | 18 | 18 |
| C | 2 7/8 | 2 7/8 |
| D | 2 7/8 | 3 3/4 |
| E | 6 1/2 | 7 1/2 |

## Co-Linear Masonry Adapter
(TM-4MAC33)

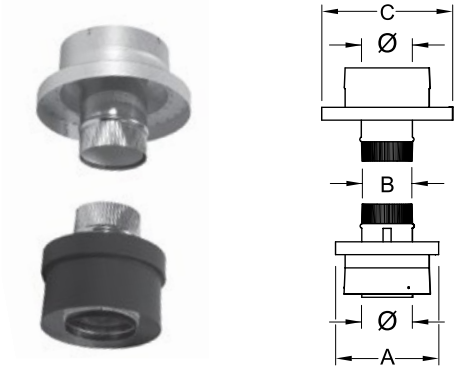



The Co-linear Masonry Adapter is designed for freestanding gas stove installations that will use a masonry chimney. Designed to fit 4x7 EXCELDirect, the built-in trim of the MAC is painted with Stove Bright Flat Black paint. Depending on the size of the existing thimble, some small masonry removal may be required, but the MAC has been built to the absolute minimum dimensions possible.

INCHES

| Dimensions | |
|---|---|
| A | 6 5/8 |
| B | 9 5/8 |
| C | 5 7/8 |
| D | 12 7/8 |
| E | 9 3/4 |
| F | 3 |

## Type A Chimney Adapter
(CA6, CA7, CA8)



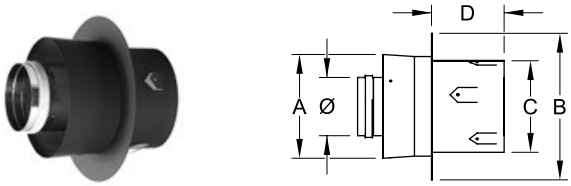

Provides a positive sealed connection between EXCELDirect® and class A chimneys. The Chimney Adapter includes a universal connector to tie into the existing chimney and an adapter to connect to an EXCELDirect® Vertical Cap (SVT). **4" flex and SVT termination sold separately.**

INCHES

| Dimensions | | | |
|---|---|---|---|
| | **4CA6** | **4CA7** | **4CA8** |
| Ø | 4" | 4" | 4" |
| A | 6 | 7 | 8 |
| B | 4 | 4 | 4 |
| C | 8 1/8 | 9 1/8 | 10 1/8 |

*USA only, not available in Canada*

## Masonry Adapter
(MA)



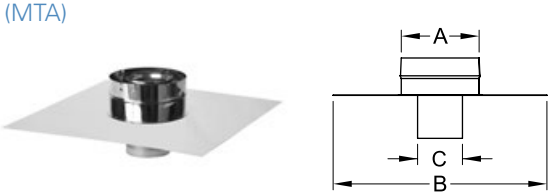

Easily connect a masonry chimney of any size to a freestanding gas stove with the Masonry Adapter. It is to be installed in combination with the MTA (Masonry Termination Adapter). **4" flex and SVT termination are sold separately.**

INCHES

| Dimensions | |
|---|---|
| **Ø** | **4"** |
| A | 6 5/8 |
| B | 9 1/2 |
| C | 5 7/8 |
| D | 3 3/4 |

*USA only, not available in Canada*

## Masonry Termination Adapter
(MTA)



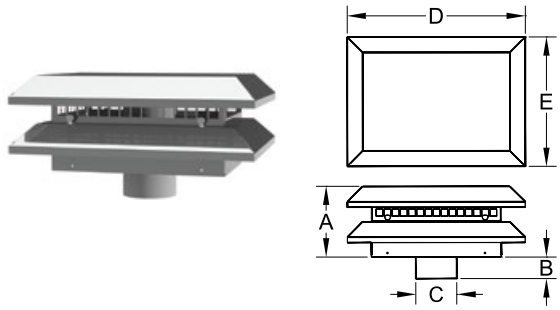

Adapts a 4" flexible liner to a direct vent system, typically used with the MA (Masonry Adapter). **4" flex and SVT termination sold separately.**

INCHES

| Dimensions | |
|---|---|
| | **MTA** |
| A | 6 5/8 |
| B | 18 |
| C | 4 |

*USA only, not available in Canada*

## Traditional Masonry Adapter Cap
(PCT)




This stainless steel cap is designed for direct vent installations in a masonry chimney that uses a single 4" aluminum flex liner for exhaust and the masonry chimney for fresh air. Requires a flashing (CTF, or CTFC). Certified for high wind. The optional Wind / Rain Shield (CTS) can improve performance in extreme wind conditions.

INCHES

| Dimensions | |
|---|---|
| A | 6 1/2 |
| B | 2 3/4 |
| C | 3 3/4 |
| D | 16 1/2 |
| E | 12 |

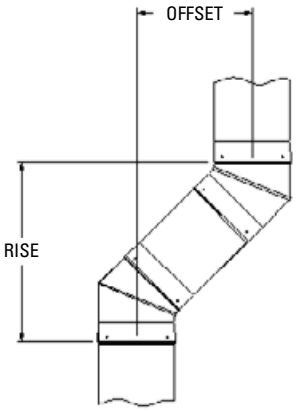
# EXCELDirect® Appliance Adapters

| Manufacturer specific appliance adapters | | |
|---|---|---|
| **Adapter Code** | **Ø** | **Manufacturer** |
| TM-4AA1 | 4" x 7" | VERMONT CASTINGS |
| TM-4AA2 | 4" x 7" | VALOR |
| TM-4AA3 | 4" x 7" | NAPOLEON |
| TM-4AA3B - painted black | 4" x 7" | NAPOLEON |
| TM-4AA4 | 4" x 7" | KINGSMAN |
| TM-4AA6 | 4" x 7" | ARCHGARD |
| TM-4AA7 | 4" x 7" | REGENCY |
| TM-4AA12 | 4" x 7" | MONTIGO |
| TM-5AA1 | 5" x 8" | KINGSMAN |
| TM-5AA3 | 5" x 8" | REGENCY |
| TM-5AA4 | 5" x 8" | KOZY HEAT |
| TM-5AA6 | 5" x 8" | MONTIGO |
| TM-5AA7 | 5" x 8" | ARCHGARD |
| TM-5AA8 | 5" x 8" | FABER |
| TM-5AA9 | 5" x 8" | NAPOLEON |

EXCELDirect fits directly onto DuraVent® flue collars without the need for an adapter.

# EXCELDirect® Offset Tables

| Vent Offset Specifications | | | | | | |
|---|---|---|---|---|---|---|
| **LENGTH BETWEEN OFFSETS** | **30° Elbows** | | **45° Elbows** | | **90° Elbows** | |
| | **RISE** | **OFFSET** | **RISE** | **OFFSET** | **RISE** | **OFFSET** |
| **4 INCH Ø** | | | | | | |
| NO LENGTH | 10 3/4 | 2 7/8 | 10 1/2 | 4 3/8 | 10 3/4 | 10 3/4 |
| 6" Length | 14 7/16 | 5 | 13 5/8 | 7 1/2 | 10 3/4 | 15 1/4 |
| 12" Length | 19 5/8 | 8 | 17 7/8 | 11 3/4 | 10 3/4 | 21 1/4 |
| 24" Length | 30 | 14 | 26 3/8 | 20 1/4 | 10 3/4 | 33 1/4 |
| 48" Length | 50 13/16 | 26 | 43 3/8 | 37 1/4 | 10 3/4 | 57 1/4 |
| **5 INCH Ø** | | | | | | |
| NO LENGTH | 10 3/4 | 2 7/8 | 11 3/4 | 4 7/8 | 12" | 12" |
| 6" Length | 14 7/16 | 5 | 14 7/8 | 8 | 12" | 16 1/2 |
| 12" Length | 19 5/8 | 8 | 19 1/8 | 12 1/4 | 12" | 22 1/2 |
| 24" Length | 30 | 14 | 27 5/8 | 20 3/4 | 12" | 34 1/2 |
| 48" Length | 50 13/16 | 26 | 44 5/8 | 37 3/4 | 12" | 58 1/2 |



# EXCELDirect®

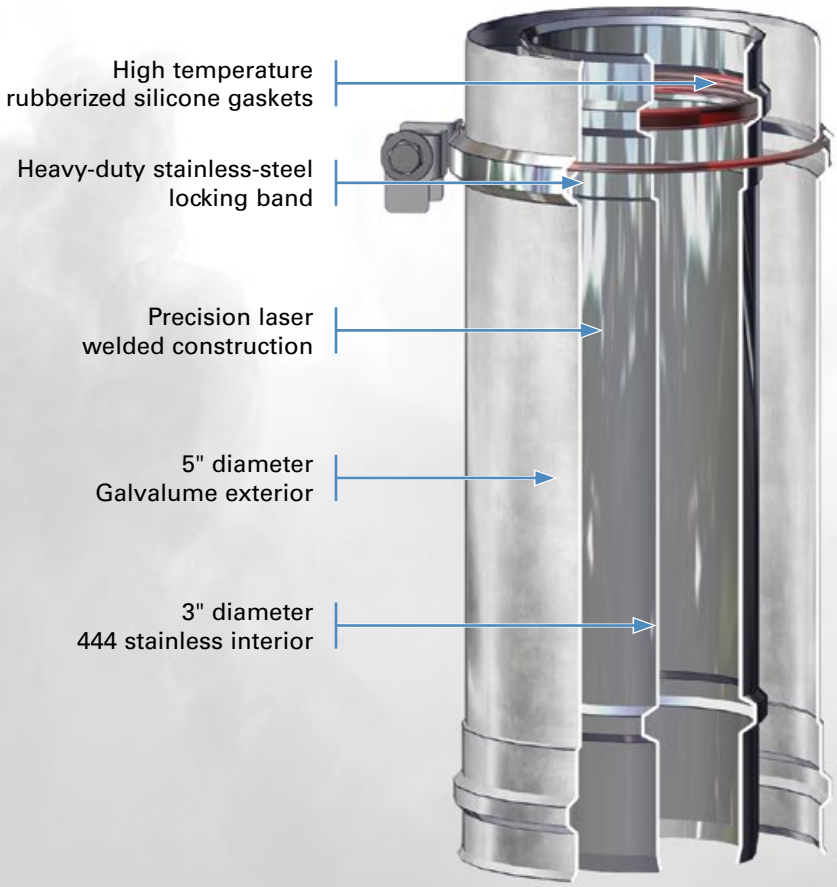
# 3/5 DPV

DIRECT VENT FOR FAN-FORCED GAS & PROPANE APPLIANCES

# EXCELDirect®
# 3/5 DPV

EXCELDirect® 3/5 DPV is the essential solution to pressurized direct vent systems. Ideal for direct vent appliances with a power termination or an in-line fan. It is listed to a 550° F (288°C) temperature rating, while other brands are listed at 400°F (204.4°C). The positive seal is achieved with the high temperature silicone gasket on the inside and an O-ring for the outer pipe. Which means it has the tightest seals on the market.

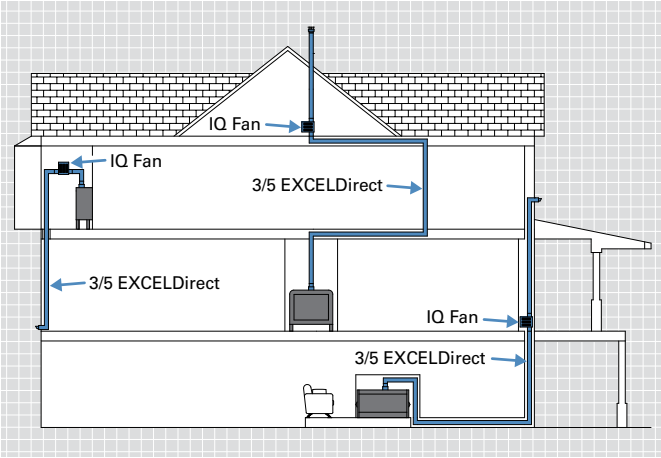
The 3/5 pipe fits easier in tight spaces. Locking bands make the pipe rigid after installation and no twist lock means you can adjust the fitting to meet your installation requirements. No taping joints, no lubricants on the pipe and no sealants are required. Just fast, easy, clean assembly.



# The fireplace goes where you say it goes!

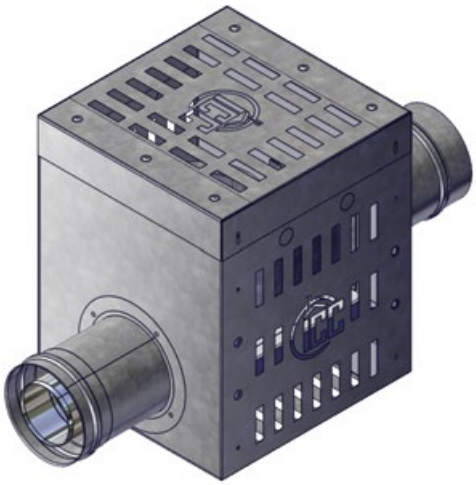
No more limitations on where a gas fireplace can or can't be installed. With the **IQ System (TX-IQFANKIT)**, the possibilities are endless. Run up to 150' of venting on a single gas fireplace*. Run it up, snake it down, and take it anywhere it needs to be.

The whisper quiet **IQ Fan** creates the perfect amount of draft for any gas fireplace. This ensures safe, consistent operation and performance.




* Refer to manufacturer appliance manual for suggested run length which may vary according to manufacturer.

# Set it and forget it.



**IQ Fan**

The weather is always changing. The **IQ System** eliminates issues with high wind, long runs, high rises, custom homes, environmental oddities, etc.

The **IQ System (TX-IQFANKIT)** has an integrated **IQ Controller** which detects changes in the system and tunes the **IQ Fan** to the ideal speed, adjusting continuously as necessary.

Simply set the optimal flame pattern for the gas fireplace and the **IQ System** will take care of the rest.

## ADVANTAGES

- Safe gas fireplace operation in all conditions
- Optimal fire pattern all the time
- Whisper quiet operation
- Hassle free operation and happier customers

# EXCELDirect® 3/5 DPV Technical Information

## Construction

**Inner Liner:** 0.019" Type 444 Stainless Steel
**Outer Casing:** 0.019" Galvalume Steel
**Gaskets:** High-Temperature Silicone

## Allowable Flue Gas Temperatures

**UL 1738** 550° F (288°C) temperature rating
+ 70° F (38.8°C) for ambient temperature

## Sizes

3 1/4" Inner Liner Diameter
5" Outer Casing Diameter
5 3/8" Outer Casing Expanded Diameter

# EXCELDirect® 3/5 DPV Design Considerations

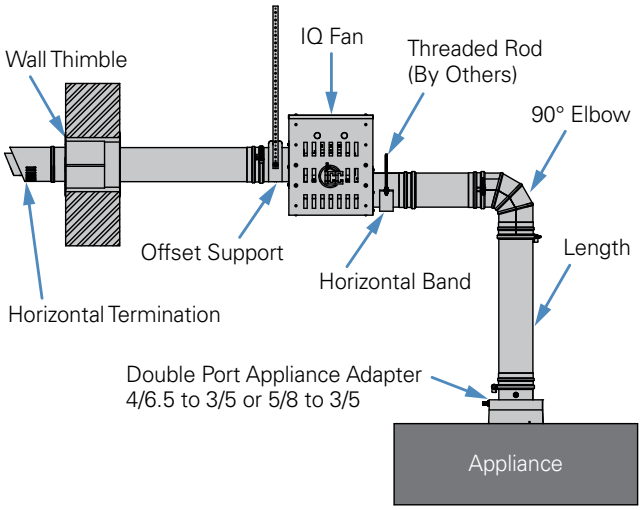
**Prior to starting your installation, we suggest you take the following into consideration:**

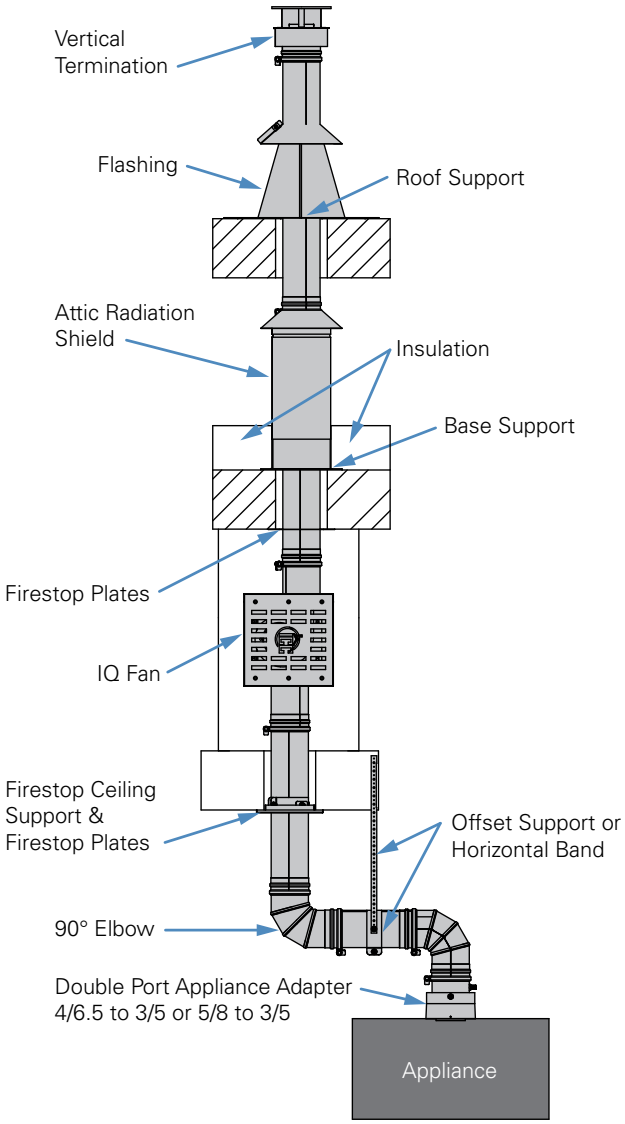
1. There are two general ways to connect a direct vent venting system to a gas appliance:
   - Horizontal installation (through the wall)
   - Vertical installation (through the roof).
     i. Check the appliance manufacturer's installation instructions to see all vent configurations.
2. Review all your options for the appliance location and venting configuration. Try to minimize the alteration and reframing of structural components of the building (wall studs, water pipes, electrical wiring, ceiling joists, roof rafters, etc.). It may be easier to change the location of your appliance than to modify the building structure.
3. Carefully read the appliance and the venting system instruction manuals. Good planning might save you time, work, and money.
4. Use only authorized EXCELDirect® 3/5 Pressure Vent (DPV) listed parts unless compatibility with another brand is specified in the appliance manufacturer's instructions. Do not use damaged parts.
5. For a horizontal installation, consider the distance between the gas appliance adapter and the wall, the wall thickness, and a vertical rise (if applicable).
6. The exterior horizontal vent termination must be located as per Installation Codes and Regulations. For USA and Canadian Termination Installation Clearances, refer to Table 3 on page 21 of the *EXCELDirect® 3/5 PRESSURE VENT SYSTEM INSTALLATION AND MAINTENANCE INSTRUCTIONS*.
7. For a vertical installation, you must consider the distance between the gas appliance outlet and the ceiling, the ceiling thickness, the height between floors, and allow sufficient vent height above the roof line. For vent height requirements, refer to Table 1 and Figure 8 on page 13 of the *EXCELDirect® 3/5 PRESSURE VENT SYSTEM INSTALLATION AND MAINTENANCE INSTRUCTIONS*.
8. For multi-story applications, firestops are required on each floor. Additional lengths and elbows will be required if an offset is needed in the attic.
9. Contact your local building authority and/or fire officials for permits, restrictions, and installation inspections. You may also wish to contact your house insurance representative.
10. Any sealants used must be used within their marked time limitations.

# EXCELDirect® 3/5 DPV Typical Installations

## Planning your installation

### Examples of 3/5 DPV Horizontal and Vertical Installations

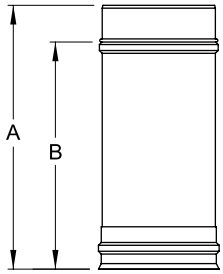


# EXCELDirect® 3/5 DPV Product Descriptions

## Lengths

(35DPL6, 35DPL1, 35DPL2, 35DPL3, 35DPL4)



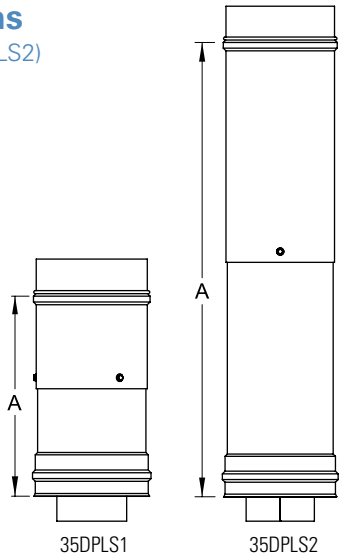

EXCELDirect® 3/5 DPV lengths are available in 48", 36", 24", 12" & 6". All lengths have a stainless steel interior and a Galvalume exterior. A locking band is included with every length.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 35DPL6 | 5 3/4 | 4 |
| 35DPL1 | 11 3/4 | 10 |
| 35DPL2 | 23 3/4 | 22 |
| 35DPL3 | 35 3/4 | 34 |
| 35DPL4 | 47 3/4 | 46 |

## Slip Lengths

(35DPLS1, 35DPLS2)



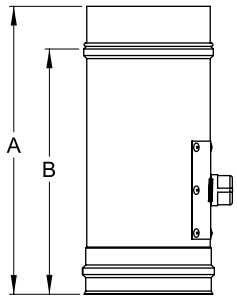

Slip lengths enable an installer to adjust the venting system to the exact overall length required for any installation. Slip lengths must be installed above a straight length that is not adjustable and will not adjust into an elbow. A locking band is included. Optional: Silicone caulking roll.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A Min** | **A Max** |
| 35DPLS1 | 6 1/8 | 9 |
| 35DPLS2 | 12 1/8 | 21 |

## 12" Length with Drain

(35DPLD)




If an appliance manufacturer's instruction or local code requires a drain, then a 12" Length with Drain (LD) may be installed either horizontally or vertically. Refer to the appliance or power vent manufacturer's installation instructions for requirements concerning drainage. A locking band is included.

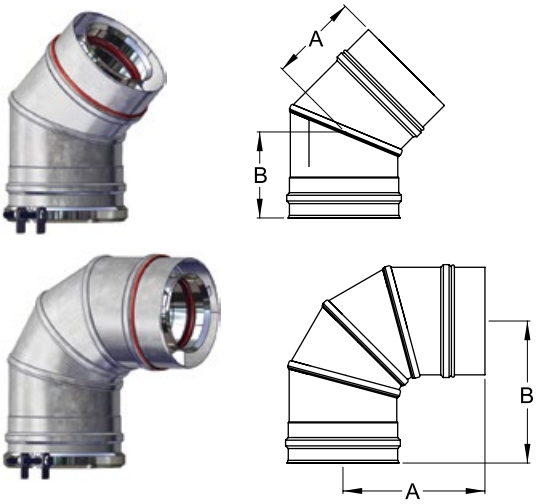
INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 35DPLD | 11 3/4 | 10 |

**3/4 NPT drain port*

## Elbows 45° & 90°

(35DPE45, 35DPE90)



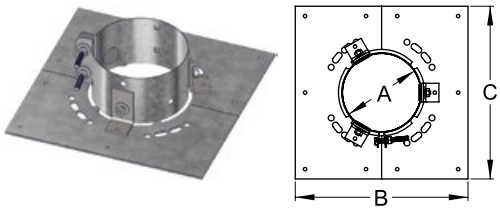

An offset will be required if the vent cannot pass directly above the appliance. EXCELDirect® 3/5 DPV elbows are available in 45° and 90°. The outer casing is Galvalume. The stainless steel inner casings are seam welded to ensure there is no leakage. A locking band is included with each elbow.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 35DPE45 | 4 1/8 | 4 |
| 35DPE90 | 6 5/8 | 6 5/8 |

## Base Support

(35DPBS)



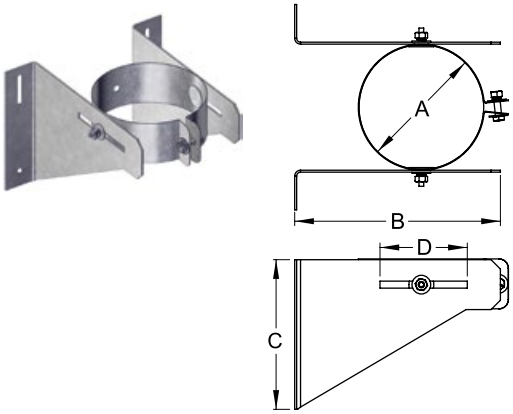

The Base Support (BS) is the most common type of support installed and it can be used on any floor level, including non-combustible flooring. Vertically, it can support up to 40' of vent duct. The BS can also be used to support horizontal runs of venting. A FireStop Plate (FSP) comes with the Base Support.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPBS | 5 | 11 | 11 |

## Wall Support

(35DPWS)



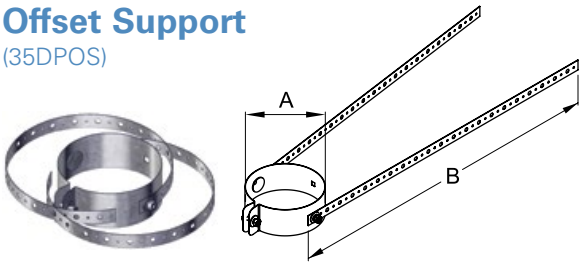

For vent runs passing parallel to a wall, a Wall Support (WS) can reinforce vents that run 3 3/8" to 6 7/8" from the wall to the center of the vent. The wall support can support up to 30' of vent duct.

INCHES

| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 35DPWS | 5 | 8 1/4 | 6 | 3 1/2 |

## Offset Support

(35DPOS)

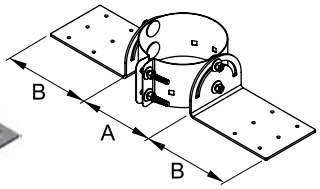



Use an Offset Support (OS) to reinforce a vertical vent run and to avoid placing excessive stress on elbows. The OS can also be used to support horizontal runs of venting.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 35DPOS | 5 | 24 |

## Roof Support
(35DPSR)

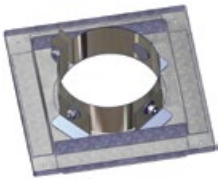


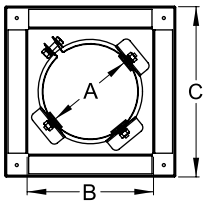

The Roof Support (SR) is designed to reinforce a vent length on a flat or an inclined surface. The SR can support up to 30' of venting. It can be installed so the collar is on the outside of the roof or so that it is set inside of the roof hole. Firestop Plates (FSP) are not required on the roof level but may be added for additional support.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 35DPSR | 5 | 6 1/8 |

## Firestop Ceiling Support
(35DPFS)



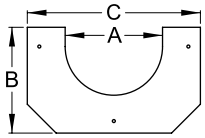



The Firestop Ceiling Support (DPFS) is the perfect choice when a structure hides the venting system. It is designed to be used in wood frame construction and can be used on any floor level. It acts as a firestop and supports the vent from below the door. It can also be installed above the joists, however, in this case, an additional firestop is required from below. The DPFS can support up to 30' of venting. A FireStop plate (FSP) comes with the Firestop Ceiling Support.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPFS | 5 | 6 5/8 | 9 |

## Firestop Plates
(35DPFSP)

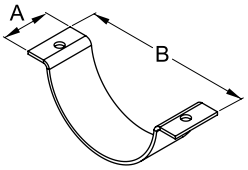



The Firestop Plate (FSP) consists of two identical half-circular parts. They are required on every ceiling (from below) or wall (interior and exterior) to prevent air and water flow between rooms or floors. They are not required at the roof level. EXCELDirect® 3/5 DPV offers different firestop supports to fit all applications.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPFSP | 5 | 5 1/2 | 9 |

## Horizontal Band
(35DPHB)

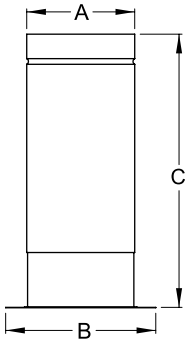



The Horizontal Band (HB) is a half band made of galvanized steel designed to support the vent when it travels horizontally. The maximum distance between Horizontal Bands is 10'. Typically, ¼" diameter or larger threaded rods and fasteners (not supplied) are used to attach the band to the ceiling structure. Plumber strapping or any other hanging materials with a rating of 500 lbs or more may also be used.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 35DPHB | 2 | 7 |

## Attic Radiation Shield
(35DPAS)

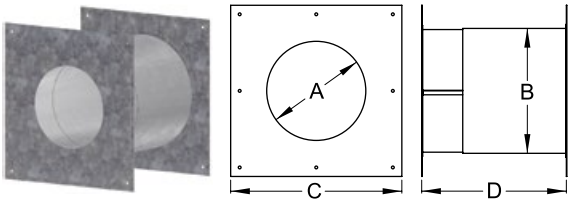



The Attic Radiation Shield (AS) is installed on the top of the floor level and is used when the venting system is not enclosed in an attic space. The height is adjustable from 17 3/8" to 32". A minimum of a 1" overlap is required. Fix the height using the provided self-tapping screws. No sealant is needed. The Attic Radiation Shield includes a Storm Collar (SC).

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPAS | 7 7/8 | 11 | 16 - 28 |

## Wall Thimble
(35DPWT)



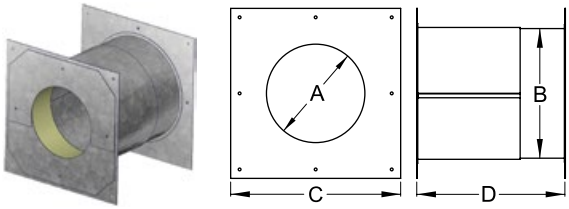

Telescopes to accommodate wall thickness from 5 ¾" to 10 ½". The PWTI is fully insulated and fits tightly to prevent heat loss. Two FireStop plates come with the Wall Thimble (PWT) and the Insulated Wall Thimble (PWTI).

INCHES

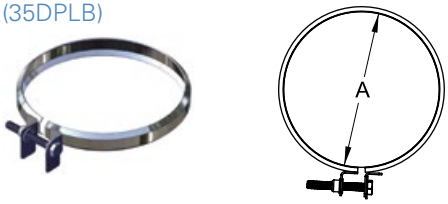
| Dimensions | | | | |
|---|---|---|---|---|
| **Code** | **A** | **B** | **C** | **D** |
| 35DPWT | 5 1/2 | 6 7/8 | 9 1/2 | 5 3/4 - 10 1/2 |
| 35DPWTI | 5 1/2 | 6 7/8 | 9 1/2 | 5 3/4 - 10 1/2 |

**The wall thimble can be adjusted to fit the thickness of a thiner wall, refer to the installation manual*

## Insulated Wall Thimble
(35DPWTI)




## Locking Band
(35DPLB)

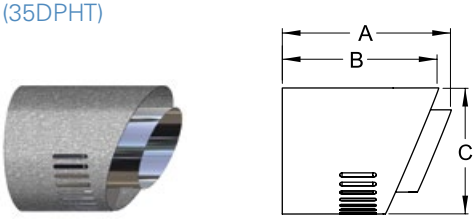



The Locking Band (LB) is designed to overlap the flange and bead immediately above and below the chimney joint. It is secured using a 7/16" nut driver.

INCHES

| Dimensions | |
|---|---|
| **Code** | **A** |
| 35DPLB | 5 |

## Horizontal Termination
(35DPHT)



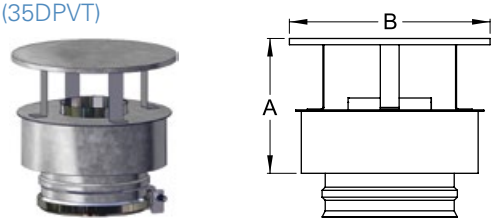

Our Horizontal Termination (DPHT) has been redesigned to improve aesthetics and simplify installation. It has a galvalume outer casing and has been tested to high wind conditions. Refer to the appliance manufacturer's installation instructions for restrictions regarding maximum and minimum vent runs, the number of elbows and the relationship between lengths of vent run to vent rise.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPHT | 6 3/4 | 3 3/4 | 5 |

REDESIGNED

## Vertical Termination
(35DPVT)



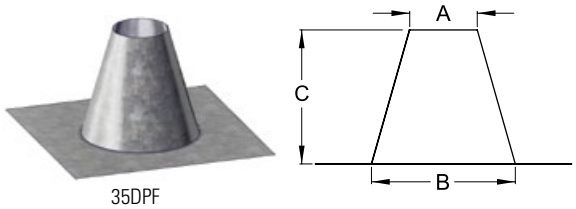

Our Vertical Termination (PVT) is made of Galvalume outer casing, stainless steel inner casing and tested to high wind conditions. It is certified to high wind applications where the vent terminates vertically. It cannot be installed horizontally. A locking band is included with the PVT.

INCHES

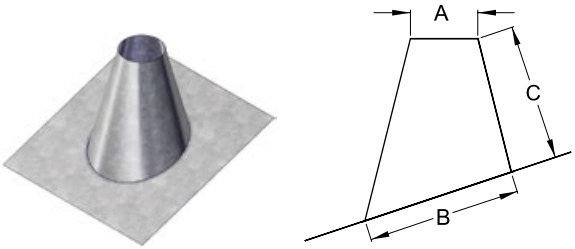
| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 35DPVT | 5 3/8 | 8 |

## Flashings

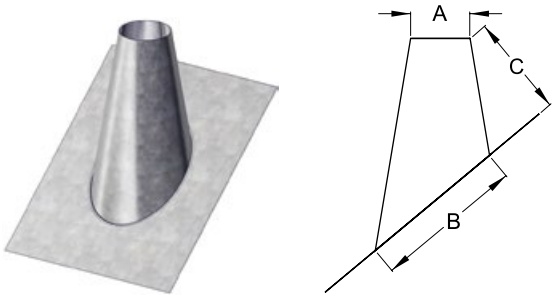
(35DPF, 35DPFA, 35DPFB)




35DPF




35DPFA




35DPFB

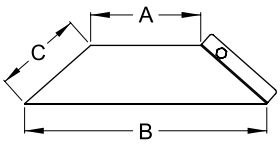
Our Flashings are made of galvalume steel and we have variations to fit various pitches. Vented (VF, VFA, VFB) and non-vented (F, FA, FB) flashings are available. Flashings include a Storm Collar (SC)

INCHES

| Dimensions | | | | | |
|---|---|---|---|---|---|
| **Code** | **Pitch** | **Base W x L** | **A** | **B** | **C** |
| 35DPF | Flat - 2/12 | 21 x 21 | 5 1/2 | 11 3/4 | 11 |
| 35DPFA | 1/12 - 7/12 | 23 x 23 | 5 1/2 | 12 5/8 | 11 1/4 |
| 35DPFB | 8/12 - 12/12 | 21 x 26 | 5 1/2 | 13 7/8 | 9 1/2 |

## Storm Collar

(35DPSC)



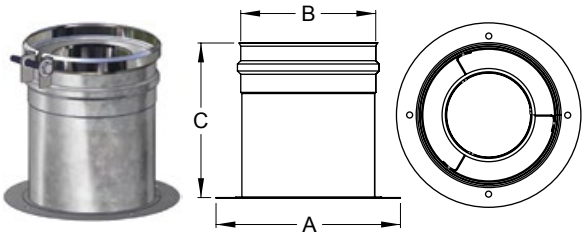

Our Storm Collars (SC) are made of galvalume steel and are required to be used in combination with EXCELDirect® 3/5 DPV regular and vented flashings as well as the Attic Radiation Shield. Storm collars should be sealed with silicone sealant to prevent water from seeping in and down the venting.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPSC | 5 | 11 | 4 |

## Fan Intake Adapter

(35DPFIA)




Not needed when using IQ fan.

The Fan Intake Adapter (FIA) is ideal in tight spaces. It connects EXCELDirect® 3/5 DPV directly to a power vent fan inlet.

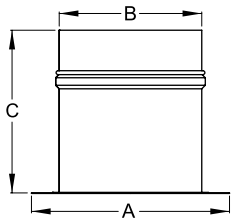
The Fan Intake Adapter (FIA) replaces the existing intake on the power vent fan. The joints must be sealed using mil-pac sealant applied to both the inner liner and bottom flange. Sealant not included. A locking band is included.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPFIA | 7 | 5 | 5 7/8 |

## Fan Outlet Adapter

(35DPFOA)




Not needed when using IQ fan.

The Fan Outlet Adapter (FOA) is ideal in tight spaces. It connects EXCELDirect® 3/5 DPV directly to a power vent fan outlet.

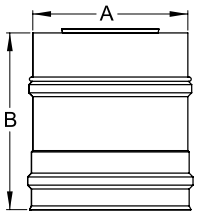
The Fan Outlet Adapter (FOA) replaces the existing outlet on the power vent fan. The joints must be sealed using mil-pac sealant applied to both the inner liner and bottom flange. Sealant not included. A locking band is included.

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPFOA | 7 | 5 | 5 3/4 |

## ICC/CVS Female Adapter

(35DPFAD)



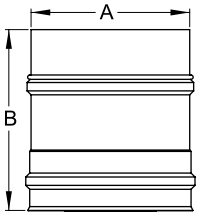

The Universal Female (Intake) Adapter (FAD) connects EXCELDirect® 3/5 DPV to a certified manufacturers' appliance or fan inlet. The FAD transitions 3/5 DPV to Duravent CVS® on the fan's inlet side. The FAD is secured using the adapter locking bands. Two locking bands (LB) are included. Silicone (not included) is required to seal the joints. Refer to the appliance manufacturer's installation instructions for more information on Power Vent Fans and their required electrical connections.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 35DPFAD | 5 | 5 3/4 |

## CVS/ICC Male Adapter

(35DPMAD)



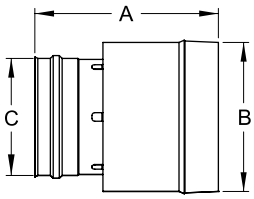

The Universal Male (Outlet) Adapter (MAD) connects EXCELDirect® 3/5 DPV to a certified manufacturers' appliance or fan outlet. The MAD transitions from 3/5 DPV to Duravent CVS® on the fan's outlet side. The MAD is secured using the adapter locking bands. Two locking bands (LB) are included. Silicone (not included) is required to seal the joints. Refer to the appliance manufacturer's installation instructions for more information on Power Vent Fans and their required electrical connections.

INCHES

| Dimensions | | |
|---|---|---|
| **Code** | **A** | **B** |
| 35DPMAD | 5 | 5 3/4 |

## Increaser - 3/5 DPV to EXCELDirect® 4 x 6 5/8"

(35DPI34)



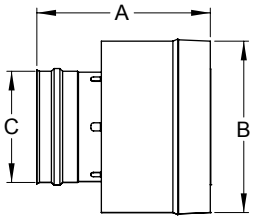

Designed to increase the diameter of EXCELDirect® 3/5 DPV to EXCELDirect® 4 x 6 5/8".

INCHES

| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPI34 | 8 | 6 1/2 | 5 |

## Increaser - 3/5 DPV to EXCELDirect® 5 x 8"

(35DPI35)




Designed to increase the diameter of EXCELDirect® 3/5 DPV to EXCELDirect® 5 x 8".

INCHES

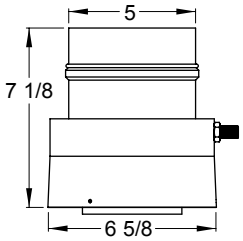
| Dimensions | | | |
|---|---|---|---|
| **Code** | **A** | **B** | **C** |
| 35DPI35 | 8 | 7 7/8 | 5 |

The EXCELDirect® 3/5 DPV appliance adapters are only permitted with approved appliances. **Refer to the list of approved manufacturers below.**

**No port adapter –** For appliances that do not require pressure ports.
**Single port –** For appliances that use a single pressure port.
**Double port –** For IQ Fan System

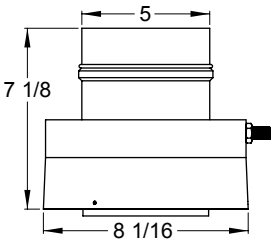
## Adapter - 4 x 6 5/8" DV to 3/5 DPV

(35DPR43NP, 35DPR43SP, 35DPR43DP)

| EXCELDirect® 3/5 DPV Appliance Adapters / Reducers | | | |
|---|---|---|---|
| **4/7 to 3/5 Appliance Adapter** | | | |
| **No Port (DPR43NP)** | **Single Port (DPR43SP)** | **Double Port (DPR43DP)** | |
| | | |   |
| 35DPR43NP has no ports | 35DPR43SP has one port | 35DPR43DP has two ports | |
| **Refer to the Manufacturer specific appliance adapters listing at the end of this section.** | | | |

## Adapter - 5 x 8" DV to 3/5 DPV

(35DPR53NP, 35DPR53SP, 35DPR53DP)

| EXCELDirect® 3/5 DPV Appliance Adapters / Reducers | | | |
|---|---|---|---|
| **5/8 to 3/5 Appliance Adapter** | | | |
| **No Port (DPR53NP)** | **Single Port (DPR53SP)** | **Double Port (DPR53DP)** | |
| | | |   |
| 35DPR53NP has no ports | 35DPR53SP has one port | 35DPR53DP has two ports | |
| **Refer to the Manufacturer specific appliance adapters listing at the end of this section.** | | | |

# EXCELDirect® 3/5 DPV and IQ System
# Certified Manufacturer Listing

| 3/5 venting | | | IQ System |
|---|---|---|---|
| **Certified Manufacturer** | **Appliance adapter** | **Fan adapter** | **Fan and Controller** |
| Ortal Fireplaces | 35DPR43SP<br>35DPR53SP | 35DPMAD<br>35DPFAD | |
| Urbana Fireplaces, Sherwood Industries Ltd. | 35DPR43NP<br>35DPR53NP | 35DPI34 | |
| Flare Fireplaces | 35DPR43NP<br>35DPR53NP | 35DPMAD<br>35DPFAD | |
| CF&D Fireplaces | 35DPR43DP<br>35DPR53DP | Not Required | ✓ |
| Camina & Schmid Fireplaces | 35DPR43DP<br>35DPR53DP | Not Required | ✓ |
| Valor Fireplaces | 35DPR43DP<br>35DPR53DP | Not Required | ✓ |

# Open Fireplace Chimney Design Considerations

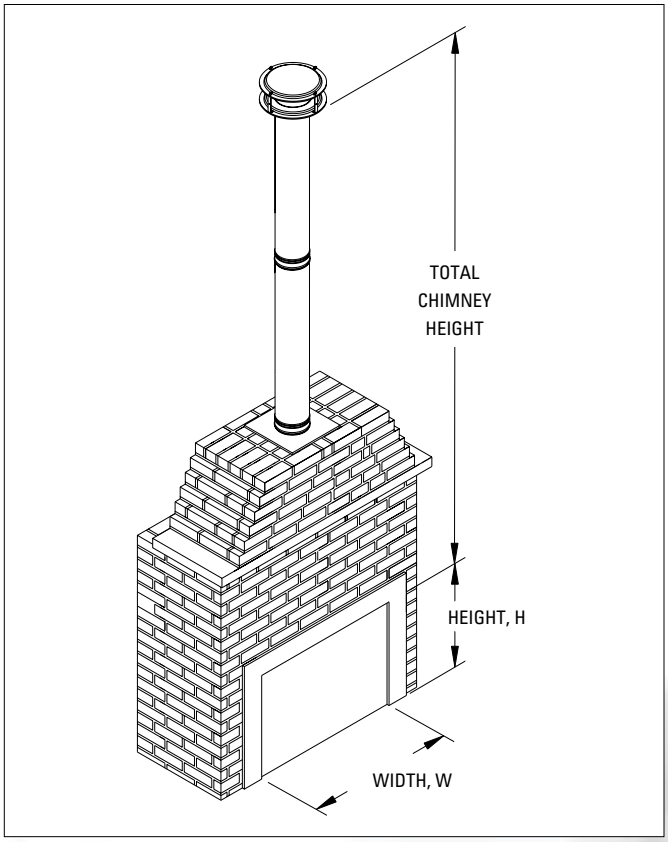
## Chimney Sizing and Flue Height

The following information is provided to assist you in determining the correct chimney size and overall height required to provide trouble free operation. It is intended as a guideline only. There are many other factors, which determine the effective draft of a specific installation.

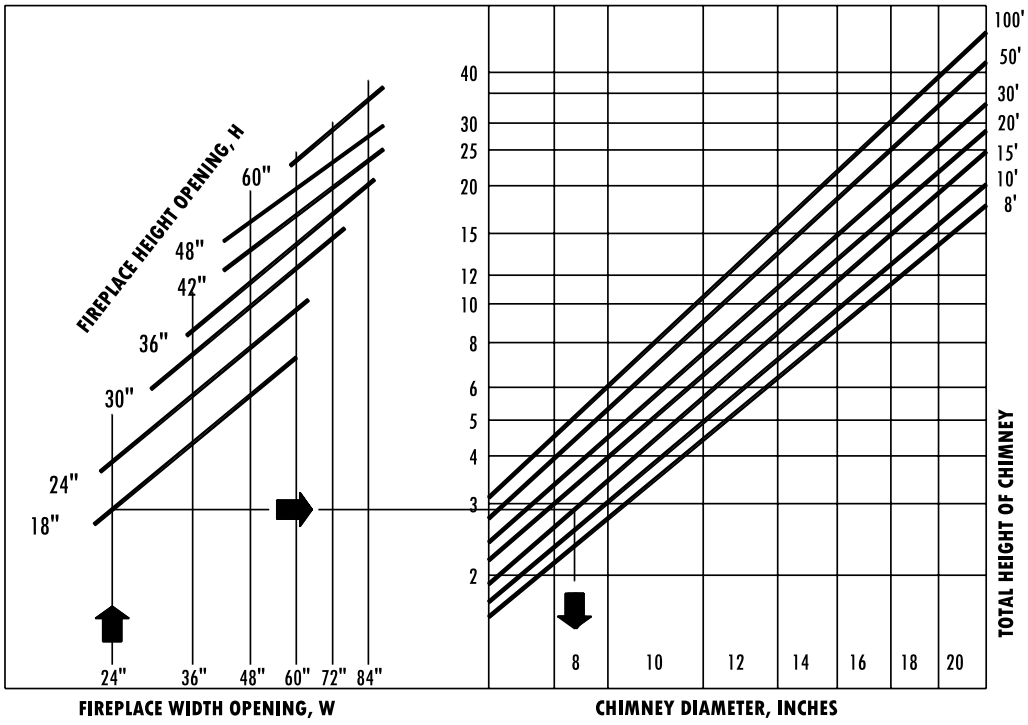
## Sizing Fireplace Chimneys

The chimney-sizing chart on this page determines the correct chimney size for an open fireplace. For factory-built fireplaces and woodburning stoves, use the size specified by the appliance manufacturer. In most cases, this is the diameter of the flue collar.

If you need help with a more complicated shape such as a multisided fireplace or an open fire pit please feel free to contact us by phone, fax or e-mail. Our engineering department will be pleased to assist you with sizing, material specifications, and any other technical information you require.




Example: A fireplace with a 24 inch wide by 18 inch high opening requires a 8 inch diameter chimney for 15' of chimney height.



# Chimney Height Design Considerations

## Recommended Flue Height

Once the correct chimney size has been determined, there are two factors which can be compensated for when calculating the optimum height of the system-elevation and chimney layout. The higher the elevation, the greater the chimney height required to provide the same draft as an installation at sea level. The more complex the chimney layout is (the more tees, elbows, etc. in the system), the greater the chimney height required to provide the same draft as a straight up system.

The minimum overall height of any chimney system is 12 feet for a vertical chimney with no offsets at sea level.

You must increase the vertical height of the system to compensate for horizontal runs, tees, and elbows. To compensate for:

| | |
|---|---|
| **One Tee** | **Add 3 feet. to the minimum height.** |
| **One 45° Elbow** | **Add I feet. to the minimum height.** |
| **One 90° Elbow** | **Add 2 feet. to the minimum height.** |
| **Each foot of horizontal run** | **Add 2 feet. to the minimum height.** |
| **Each 1000 feet. above sea level** | **Add 4% to the minimum height.** |

## Example 1: House Built at Sea Level

A wood burning stove is installed on the main floor of a single story house at sea level. The chimney is installed with a 90° elbow through the wall into a tee, then straight up through the roof. To determine the minimum overall height add:

| | |
|---|---|
| The minimum overall height = | 12 feet |
| 1 1/2 feet of horizontal run = | 3 feet |
| One "Tee" = | 3 feet |
| One 90' Elbow = | 2 feet |
| Additional Height = | 8 feet |

The minimum overall chimney height required is 12 ft. + 8 ft. = 20 ft.

## Example 2: Identical House Built at 8,000 feet

To determine the minimum overall height, add 32% (4% per 1000 feet) to the height calculated in the above example:

20 feet + 32% = 26.4 feet

If the house were built at an altitude of 5000 feet, the overall height would be:

20 feet + 20% (4% per 1000 feet.) = 24 feet

**Minimum Recommended Flue Height from the flue connection on the appliance (feet)**

| | Number of elbows | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Elevation Above Sea Level (feet) | 0 | 2 X 15° | 2 X 30° | 2 X 45° | 4 X 15° | 4 X 30° | 4 X 45° | 1 | 2 |
| 0-1000 | 12 | 13 | 15 | 16 | 14 | 18 | 20 | 18 | 20 |
| 1000-2000 | 12 1/2 | 13 1/2 | 15 1/2 | 16 1/2 | 14 1/2 | 19 | 20 1/2 | 19 | 21 |
| 2000-3000 | 13 | 14 | 16 | 17 | 15 | 19 1/2 | 21 1/2 | 19 1/2 | 21 1/2 |
| 3000-4000 | 13 1/2 | 14 1/2 | 17 | 18 | 15 1/2 | 20 | 22 1/2 | 20 | 22 1/2 |
| 4000-5000 | 14 | 15 | 17 1/2 | 18 1/2 | 16 | 21 | 23 | 21 | 23 |
| 5000-6000 | 14 1/2 | 15 1/2 | 18 | 19 | 17 | 21 1/2 | 24 | 21 1/2 | 24 |
| 6000-7000 | 15 | 16 | 18 1/2 | 20 | 17 1/2 | 22 1/2 | 25 | 22 1/2 | 25 |
| 7000-8000 | 15 1/2 | 16 1/2 | 19 | 20 1/2 | 18 | 23 | 25 1/2 | 23 | 25 1/2 |
| 8000-9000 | 16 | 17 | 20 | 21 | 18 1/2 | 24 | 26 1/2 | 24 | 26 1/2 |
| 9000-10000 | 16 1/2 | 17 1/2 | 20 1/2 | 22 | 19 | 24 1/2 | 27 | 24 1/2 | 27 |

No more than two offsets (four elbows) allowed

1. This column shows the height required for a rear vented stove run 18" horizontally into a tee
2. This column shows the height required for a top vented stove with a 90° degree elbow and an 18" horizontal run into a tee

The table above can be used to determine the minimum height required for many common installations

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