



MANUFACTURER OF PREMIUM CHIMNEY SYSTEMS
FOR PROFESSIONAL INSTALLERS



PRODUCT
CATALOG
2014-2015

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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; improving installation efficiency. This is the best way we know of to insure 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 our company. While we are continuously investing in our plant and processes, the most gratifying returns come from investments in people. Our greatest sense of accomplishment comes when we see an employee or customer achieve their personal or business goals. That's why we continue to make major commitments in promotion and funding of 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 the most complete line of high-efficiency, clean-burning fireplaces on the market. Most recently we've begun manufacturing clean-burning open fireplaces, a rapidly-growing new category. In addition we manufacture commercial/industrial venting - everything from chimney liners to 48" diameter pressure stacks, which we sell through specialty reps in that market. Since 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 the last years. Our 90,000 ft² factory runs 24 hours a day, twelve months a year. It is situated on over 20 acres of prime industrial property and is filled with state of the art machinery, and we employ about 200 people.

This catalog contains information on our residential venting products and we have done our best to insure 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

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 (5 years only for EXCELPrime). This warranty provides for 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: Residential heating oil, untreated wood, low sulphur coal and natural or LP gas

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

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:

<http://icc-rsf.com/en/installation-instructions-excel-chimney-ultrablack-exceliner-excelpellet-ris>

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). **Listing #5965**

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). **Listing #5965**

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

Max Continuous	650°C (1200°F)
Brief Forced Firing	925°C (1700°F)
Tested To	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" stainless steel

Casing: .016" 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 Forrester "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)	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				



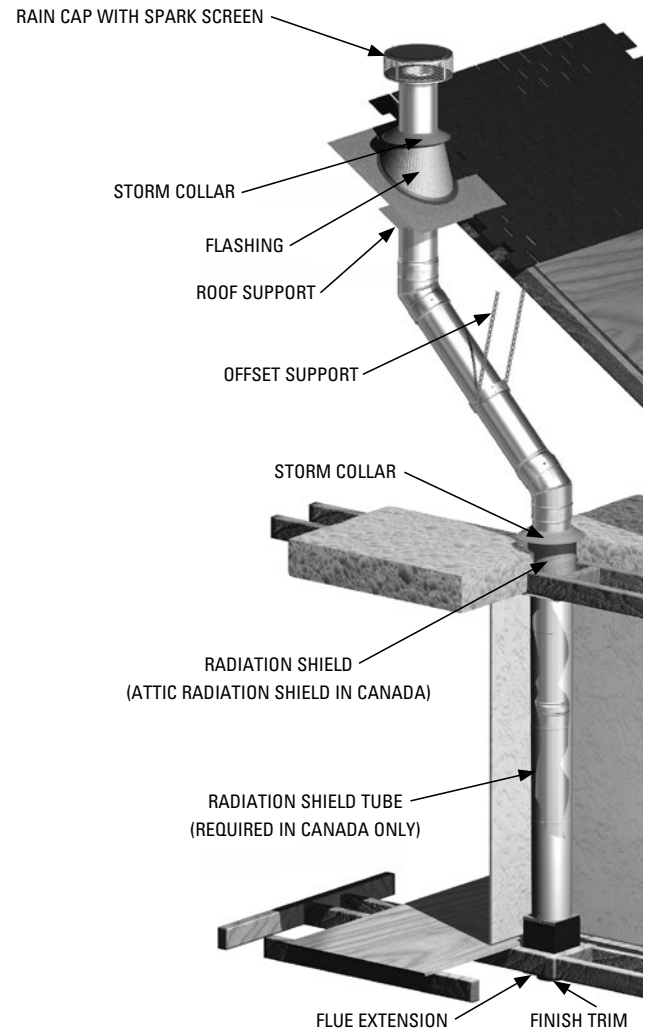
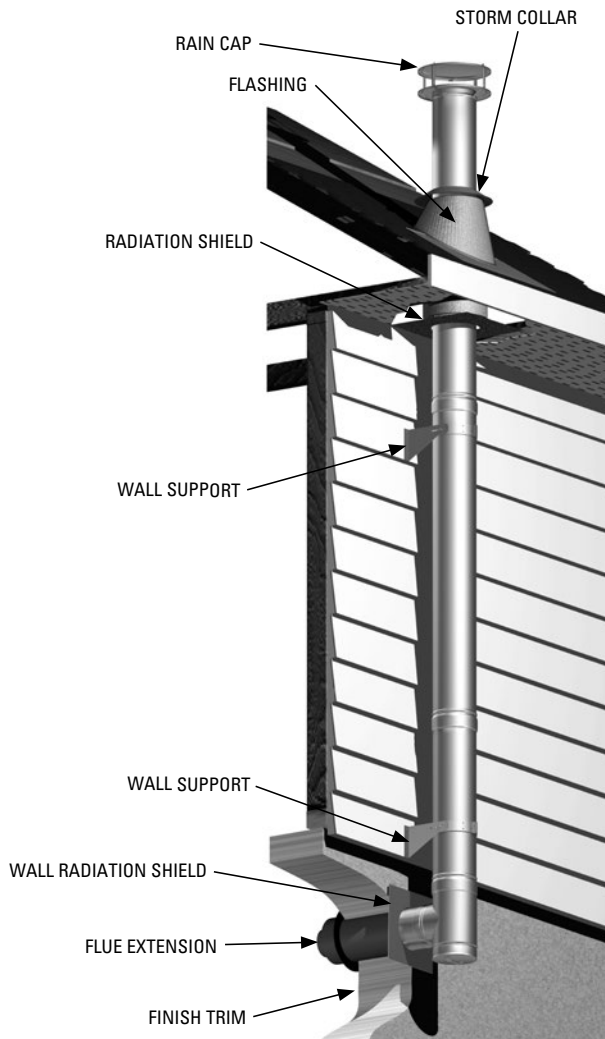
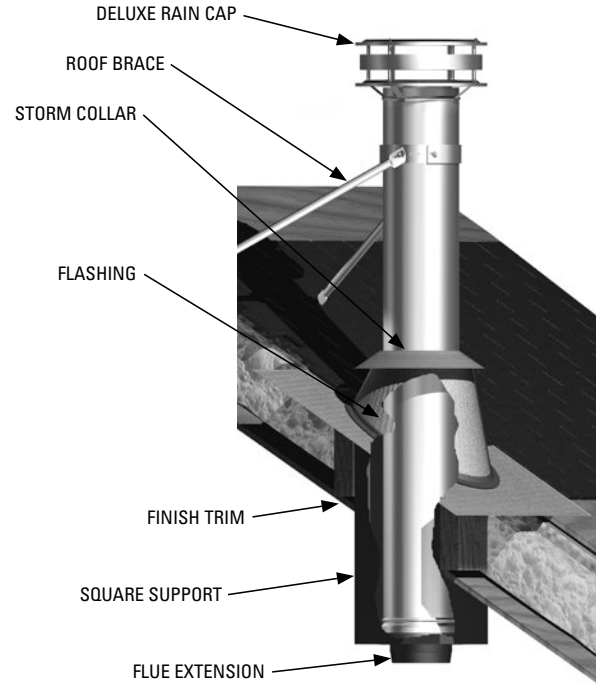
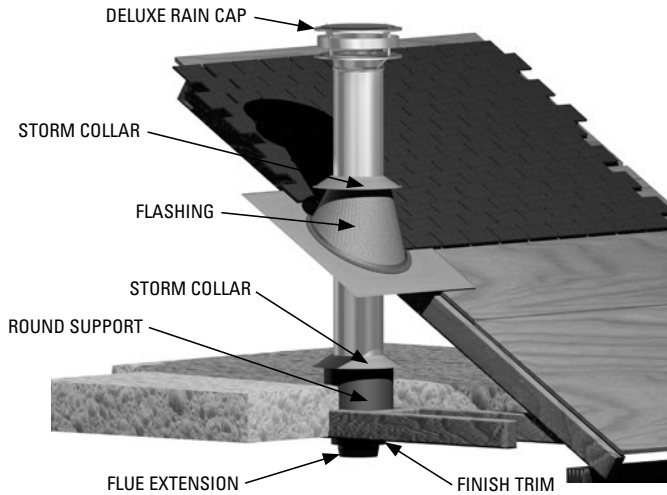
EXCEL has been tested and listed to the UL 103HT and ULC S-629 chimney standards by INTERTEK.

Listing# 5965

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



EXCEL Product Descriptions

Insulated Lengths

(EL48, EL24, EL18, EL12, EL6)



EXCEL chimney lengths are available in 48", 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	24	18	12	6
Installed length	46 1/4	22 1/4	16 1/4	10 1/4	4 1/4

Insulated Adjustable Lengths

(ELA18)



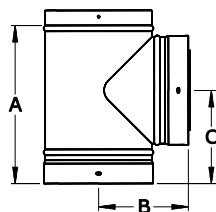
The most common applications for the adjustable length are: - Between elbows so that any required centre-to-centre offset can be achieved. - When it is necessary to balance the chimney height so that the caps line up for functional or aesthetic reasons. - When a specific horizontal offset is required. 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" adjustable
Installed length	9 1/2 - 16 1/4

Insulated Tees

(ETI)



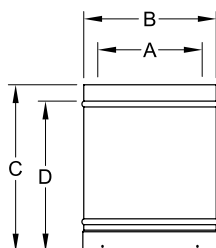
The insulated tee can be used on the interior or exterior of a building. The tee is designed to be used in combination with a wall support assembly. The EXCEL tee cap has a handle on the bottom to simplify removal for cleaning.

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

Chimney Top Damper

(ETD)

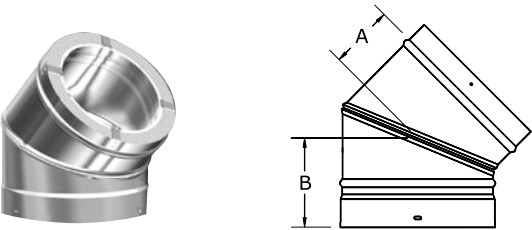


Adding this "Top Damper" to a system seals it right at the top of the chimney. The "Chimney Top Damper" is placed directly below the cap and is designed to prevent any cold air infiltration into the house through the chimney. It functions on a chain that hangs down to the firebox and comes with 30' of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

INCHES

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

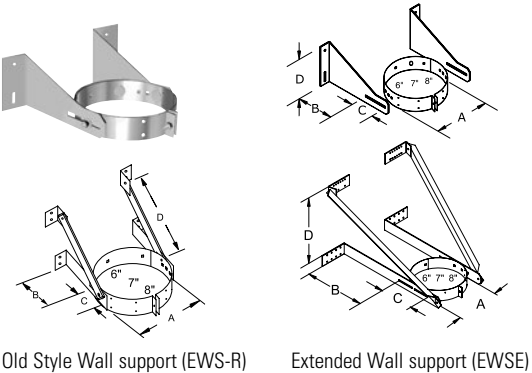
Elbows
(EE15, EE30 & EE45)



EXCEL 15° and 30° elbows are tested and listed to the 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)



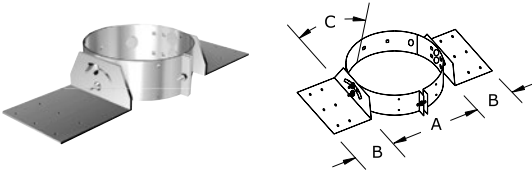
Old Style Wall support (EWS-R)

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 5", 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)

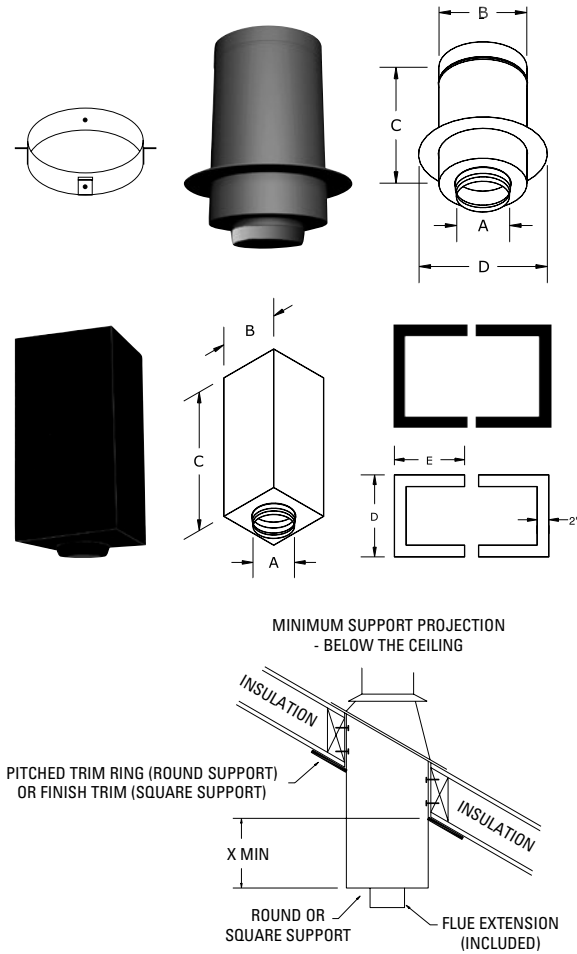


The roof support is primarily used when it is difficult to use a round or square support in a cathedral ceiling. It can also be used above an offset, or to provide additional support when the chimney height exceeds the capacity of the primary support. The roof support utilizes a universal band, so that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

Round & Square Supports

(ERDS, ERDSI & ESS)



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 table below. 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 Insulated Round Support (ERDSI) is designed for installations in energy efficient houses which have tightly sealed vapour barriers. The ERDSI is fully insulated and has a flange to permit an air tight 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. All EXCEL support boxes include a flue extension and a trim ring that can be installed easily before or after the ceiling finish is applied.

INCHES

Round Support 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

Square Support Dimensions

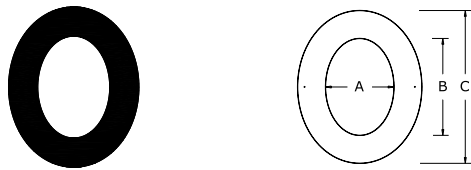
Code	A	B	C	D	E
6ESS	6	10	24	14	12
7ESS	7	11	24	15	12
8ESS	8	12	24	16	12

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

Pitched Trim Rings

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



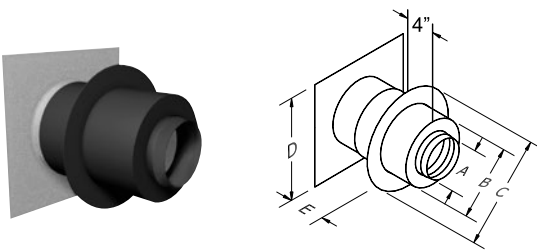
If you are installing a round support on a sloping ceiling, you will require a pitched trim ring. Use the following table to determine the correct trim ring for your installation. Pitched trim rings are not available in 5" Ø. The finish trim which comes with the square support, is adjustable for any 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)

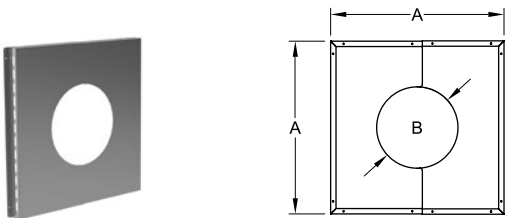


The wall radiation shield is used when the chimney passes horizontally through a combustible wall. The EWRS telescopes to adjust for wall thickness from 6" – 12", so no painting is required. The inside finish trim is separate from the EWRS, allowing for easy installation before or after the wall finish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

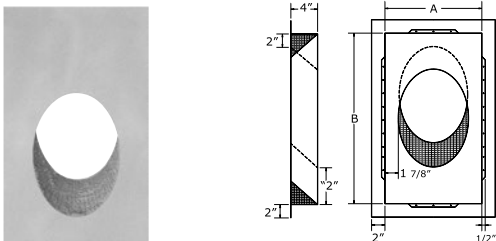


A decorative trim cover for the exterior wall plate of the Wall Radiation Shield that prevents water infiltration while providing adequate heat ventilation.

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

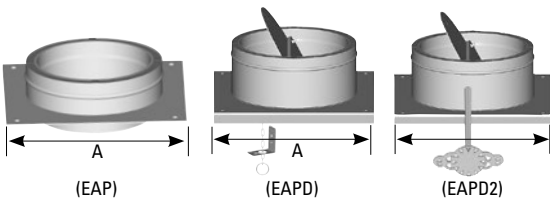
Anchor Plate (EAP)

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

Anchor Plate Dampers (EAPD, EAPD2)

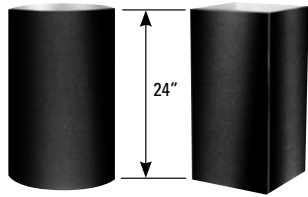
Combines the anchor plate with a heavy gauge stainless steel damper to simplify masonry fireplace construction, reduce installation cost and provides a superior seal.

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

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.

Flue Extension (EX)



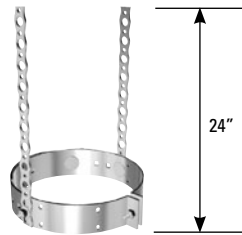
The flue extension fastens to the bottom of the first chimney length with three screws. It makes it possible to connect a stove pipe, or other type of connector, to the chimney. It is sometimes used to connect an EXCEL chimney directly to an appliance. The flue extension is designed to fit a variety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

Locking Band (ELB)



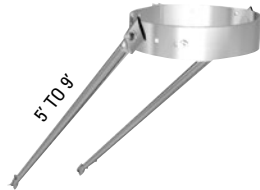
EXCEL insulated components are designed to be fastened together with the stainless steel screws provided with each part. In some cases, it may be desirable to install a locking band for aesthetic purposes. The locking band is designed to overlap the two beads immediately above and below the chimney joint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

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.

Roof Brace (ERB)



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.

Wall Channel (EWC)



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

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



Regular Rain Cap (ERC)



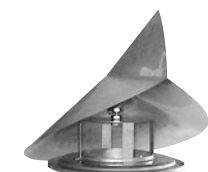
Rain Cap Deluxe (EDRC)



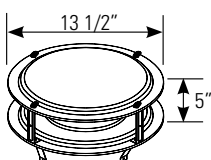
Rain/Wind Shield (ERCW)



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.

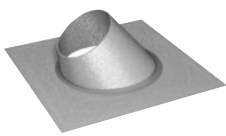
ERCW: The optional wind and rain shield improves draft by up to 40% in windy conditions and is very effective at preventing wind driven rain from entering the chimney. It bolts to the existing holes in either the regular or deluxe cap.

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.

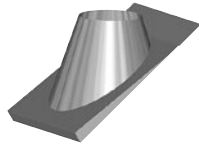
ERRC: The revolving rain cap helps to prevent the entry of wind driven rain and helps to prevent wind induced downdrafts.

Flashings

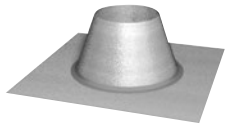
(EF, EFA, EFB, EFC, ESF, ESFA, ESFC, EMFA, EMFB, EMFC, ELFA, ELFB, ELFC, EFP & EDCF)



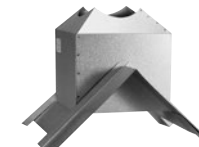
Ajustable Flashing



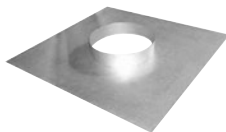
Metal Roof Flashing
"US Patent 7114301,
Can Patent 2460044"



Flat Flashing



Adjustable Peak
Flashing



Decorative Cap Flashing



Flexible Base Flashing
"Patented"

Flashings include a storm collar

EF, EFA, EFB, EFC, ESF, ESFA & ESFC: 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.

EMFA, EMFB & EMFC: These flashings are specifically designed for metal roofs and greatly simplify metal roof installations. They are made from galvalume steel only.

ELFA, ELFB & ELFC: 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.

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.

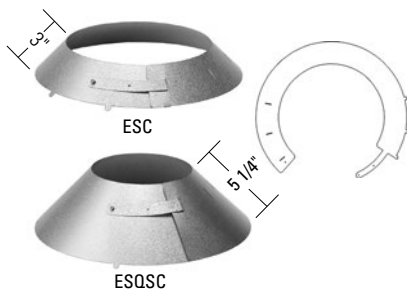
EDCF: The decorative cap flashing is made from galvalume steel only and is required with the decorative cap.

INCHES

Flashing Specifications		
Code	Ventilation	Fits Pitch Range
5, 6, 7 & 8 EF	not ventilated	From Flat to 2/12
5, 6, 7 & 8 EFA	not ventilated	1/12 - 7/12
5, 6, 7 & 8 EFB	not ventilated	8/12 - 12/12
5, 6, 7 & 8 EFC	not ventilated	12/12 - 21/12
5, 6, 7 & 8 EVF	ventilated	Flat 2/12
5, 6, 7 & 8 EVFA	ventilated	1/12 - 7/12
5, 6, 7 & 8 EVFB	ventilated	8/12 - 12/12
5, 6, 7 & 8 EVFC	ventilated	12/12 - 21/12
5, 6, 7 & 8 EMFA	not ventilated	1/12 - 7/12
5, 6, 7 & 8 EMFB	not ventilated	8/12 - 12/12
5, 6, 7 & 8 EMFC	not ventilated	12/12 - 21/12
6, 7 & 8 ELFA	not ventilated	1/12 - 7/12
6, 7 & 8 ELFB	not ventilated	8/12 - 12/12
6, 7 & 8 ELFC	not ventilated	12/12 - 21/12
6, 7 & 8 EFP	not ventilated	Peak 2/12 - 12/12
6, 7 & 8 EDCF	ventilated	Flat

Storm Collar

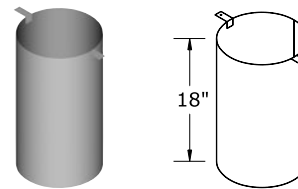
(ESC, ESQSC)



Both models of storm collar fit 6, 7 and 8 inch EXCEL chimneys. To form an attic insulation shield assembly in an insulated space, use a storm collar in combination with a support box or radiation shield. The ESQSC is required to form an attic insulation shield on a Square Support (ESS), all other supports and radiation shields can use either collar. If installing 5" EXCEL, use the storm collar for EXCELDirect (TM-SC).

Roof Radiation Shield

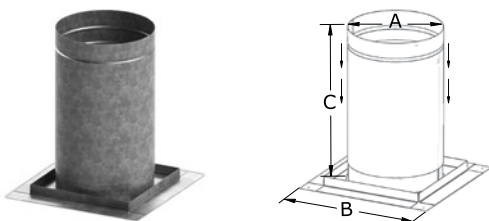
(ERRS)



The roof radiation shield is required with some roof support and outside chase installations.

Radiation Shield

(ERS)

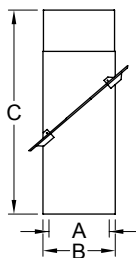
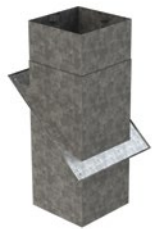


The radiation shield protects combustible framing in the floor or ceiling adjacent to the chimney and also acts as a firestop spacer. When the chimney passes through the radiation shield into an insulated space a universal storm collar must also be installed to prevent the entry of insulation.

INCHES

Dimensions			
Code	A	B	C
5ERS	10 1/2	16 X 16	12 - 22
6ERS	10 1/2	16 X 16	12 - 22
7ERS	11 1/2	16 X 16	12 - 22
8ERS	12 1/2	16 X 16	12 - 22

Radiation Shield for Cathedral Ceiling (ERSC)



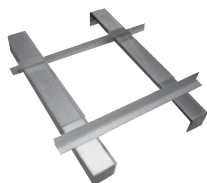
For installations where EXCEL chimney extends through a pitched ceiling. The firestop trim is adjustable to accommodate any pitch and has spacers to ensure that proper clearances are met.

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.

INCHES

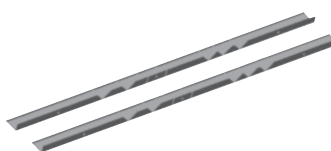
Dimensions			
Code	A	B	C
6ERSC	8 1/4	10 1/4	24-38
7ERSC	9 1/4	11 1/4	24-38
8ERSC	10 1/4	12 1/4	24-38

Adjustable Stud Support (EAS)



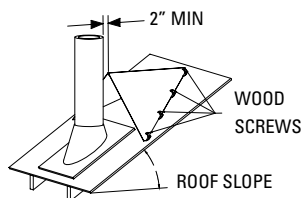
Allows you to install a round or square support (ERDS, ES & ESS) without using wood framing. The maximum support capacity is 30 feet of chimney. The maximum joist spacing is 24" center to center.

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.

Snow-Wedge (ESW)



The snow wedge is a pre-fabricated, adjustable chimney cricket designed to divert ice and snow around a chimney. It adjusts to fit pitches from 4/12 to 12/12 and is particularly well suited to metal roofs.

INCHES

Roof slope	Locking tabs' bend
4/12	136°
7/12	130°
9/12	125°
12/12	112°

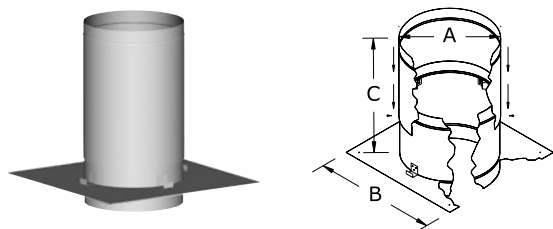


Canadian Components:

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.

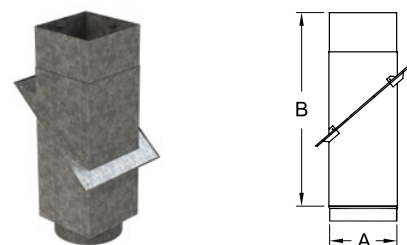
INCHES

Dimensions			
Code	A	B	C
5ERSA	Ø 10 1/2	16 X 16	10 - 20
6ERSA	Ø 10 1/2	16 X 16	10 - 20
7ERSA	Ø 11 1/2	16 X 16	10 - 20
8ERSA	Ø 12 1/2	16 X 16	10 - 20

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.

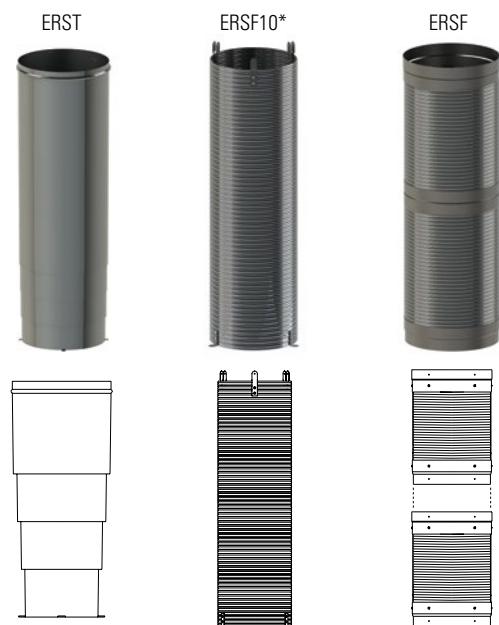
INCHES

Dimensions		
Code	A	B
6ERSCA	10	24 - 38
7ERSCA	11	24 - 38
8ERSCA	12	24 - 38

Canada Only, not available in USA

Radiation Shield Tubes

(ERST, ERSF & ERSF10)



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.

**ERSF10 does not include a Square Support Adapter (SSA); 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

Canada Only, not available in USA

INCHES

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

Canada Only, not available in USA

INCHES

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
48" Length	53 3/4	13 1/4	50 1/2	26	44	37 1/2
24" + 12"	40 1/2	9 1/2	38 3/4	19	34 1/4	27 3/4
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
48" Length	54	13 1/4	51	26	44 3/4	37 3/4
24" + 12"	40 3/4	9 3/4	39 1/4	19 1/4	35	28
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
48" Length	54 1/2	13 1/4	51 1/2	26 1/4	45 1/2	38
24" + 12"	41	9 3/4	39 3/4	19 1/4	35 3/4	28 1/4
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
48" Length	54 3/4	13 1/4	52	26 1/4	46 1/4	38 1/4
24" + 12"	41 1/4	9 3/4	40 1/4	19 1/2	36 1/2	28 1/2
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
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
24" + 12"	50 1/4 - 56	12 1/4 - 13 3/4	47 1/4 - 52 1/2	24 - 27	41 1/2 - 45 3/4	34 1/4 - 39
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
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
24" + 12"	50 1/2 - 56 1/4	12 1/4 - 13 3/4	47 3/4 - 53	24 1/4 - 27 1/4	42 - 46 1/4	35 - 39 1/4
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
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
24" + 12"	50 3/4 - 56 1/2	12 1/4 - 13 3/4	48 1/4 - 53 1/2	24 1/4 - 27 1/4	42 3/4 - 47	35 1/4 - 39 1/2
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
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
24" + 12"	51 - 56 3/4	12 1/4 - 13 3/4	48 3/4 - 54	24 1/2 - 27 1/2	43 1/2 - 47 3/4	35 3/4 - 40
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. **Listing #5965**

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, insuring good draft.
- Minimizes creosote buildup.

* Some stoves may require greater clearances.



ULTRABlack Product Descriptions

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

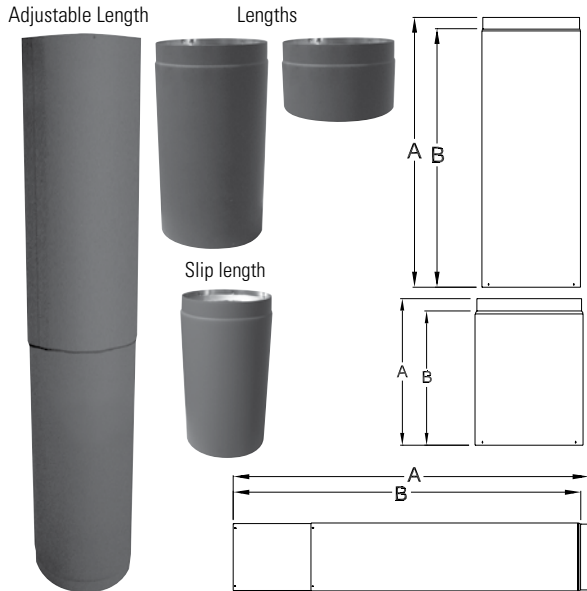
Adjustable Lengths (UBAF)

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

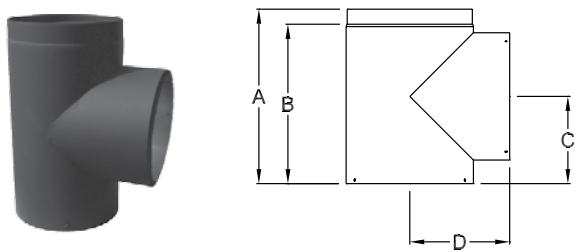
Slip Length Dimensions				
Code	A MIN.	A MAX.	B MIN.	B MAX.
UB6SF	2	6	1	5
UB1SF	2	12	1	11
UB18SF	2	18	1	17

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. A UBTC trim collar is included with the UBT.



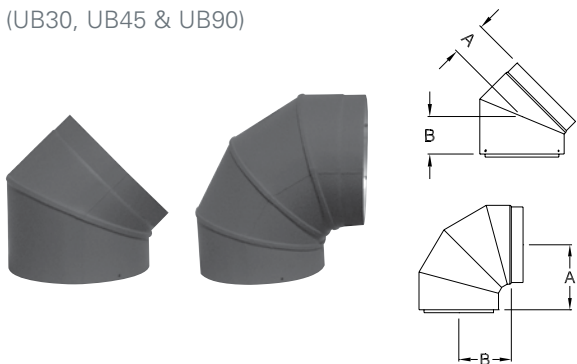
INCHES

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)

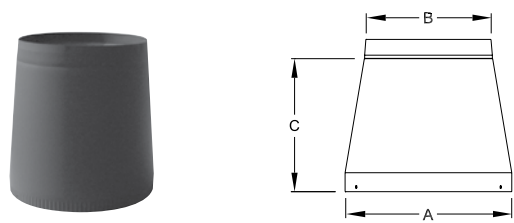
Are available in 30°, 45° and 90°.



INCHES

Dimensions (30°, 45°, 90°)		
Code	A	B
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

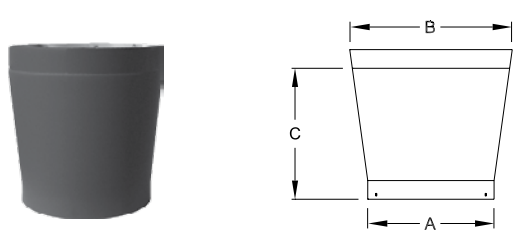
Reducers
(UBR)



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.*

Dimensions				INCHES
Code	A	B	C	
UBR76	7	6	7	
UBR86	8	6	7	
UBR87	8	7	7	

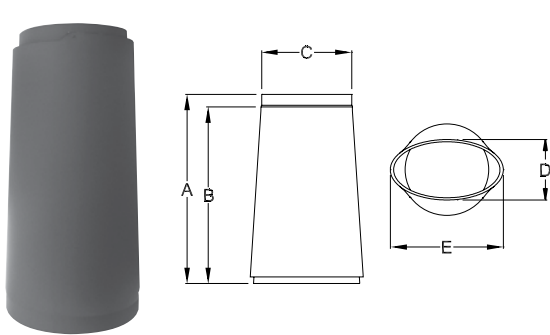
Increasesers
(UBI)



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.*

Dimensions				INCHES
Code	A	B	B	
UBI56	5	6	7	
UBI67	6	7	7	
UBI68	6	8	7	
UBI78	7	8	7	

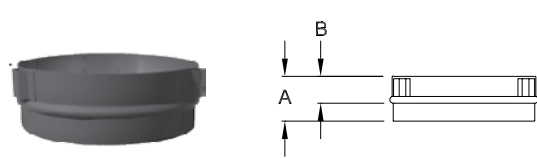
Oval to Round Adapter
(UBORF)



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

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

Stove Adapters
(UBSE)

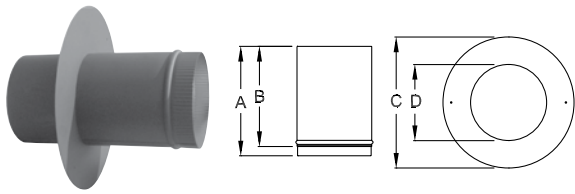


Connect ULTRABlack to stoves with flue collars that do not project above the top of the stove. It can also be used to connect to stoves with irregular shaped or sized flue collars.

Dimensions			INCHES
Code	A	B	
6UBSE	2 1/2	1 1/2	
7UBSE	2 1/2	1 1/2	
8UBSE	2 1/2	1 1/2	

Masonry Adapters

(UBM)



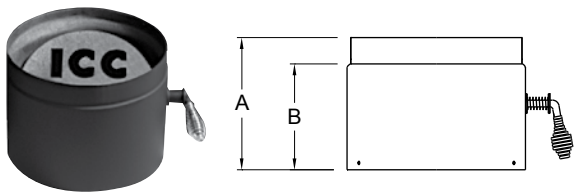
Connect ULTRABlack to a masonry chimney. *Note: ULTRABlack is not certified to pass through a combustible wall. An EXCEliner Insulated Thimble (ITH) must be used where there is a combustible wall between the stove and the masonry chimney.*

INCHES

Dimensions				
Code	A	B	C	D
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

Damper Section

(UBD)



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

INCHES

Dimensions		
Code	A	B
UBD	5	4

Trim Collars

(UBTC)



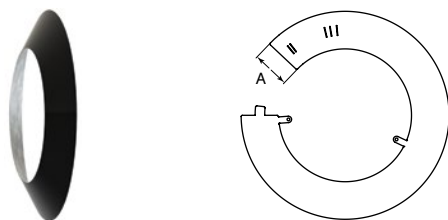
Covers the crimped (top) end of ULTRABlack where it connects to the insulated chimney. A UBTC is included with every UBAF and UBT so they rarely need to be purchased separately.

INCHES

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

Conical Trim Ring

(UBTR)



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

INCHES

Dimensions	
A	3"

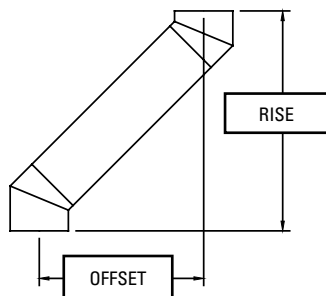
ULTRABlack Offset Tables

45° ELBOWS

UB OFFSET TABLE - Use this table if you are not installing a slip length (UBSF) between the elbows.

LENGTH BETWEEN ELBOWS	45° Elbows	
	RISE	OFFSET
6 INCH Ø		
NO LENGTH	8 1/4	3 1/2
5" Length	11	6 1/4
12" Length	16	11 1/4
18" Length	20 1/4	15 1/2
24" Length	24 1/2	19 3/4
36" Length	33	28 1/4
7 INCH Ø		
NO LENGTH	9	3 3/4
5" Length	11 3/4	6 1/2
12" Length	16 3/4	11 1/2
18" Length	21	15 3/4
24" Length	25 1/4	20
36" Length	33 3/4	28 1/2
8 INCH Ø		
NO LENGTH	9 3/4	4
5" Length	12 1/2	7
12" Length	17 1/2	11 3/4
18" Length	21 3/4	16
24" Length	26	20 1/4
36" Length	34 1/2	28 3/4

All measurements are in inches



45° ELBOWS

UB OFFSET TABLE - Use this table if you are installing an adjustable length between the elbows.

LENGTH BETWEEN 45 ELBOWS	45° Elbows	
	RISE	OFFSET
6 INCH Ø		
NO LENGTH + UB6SF	9 1/4 - 11	4 1/2 - 6 1/4
5" LENGTH + UB6SF	12 - 14	7 1/4 - 9 1/4
5" LENGTH + UB12SF	16 - 18 1/4	11 1/4 - 13 1/2
12" LENGTH + UB12SF	17 - 23	12 1/4 - 18 1/4
18" LENGTH + UB12SF	21 1/4 - 27 1/4	16 1/2 - 22 1/2
24" LENGTH + UB18SF	25 1/2 - 35 3/4	20 3/4 - 31
UBAF	36 1/2 - 56 1/4	31 3/4 - 51 1/2
18" LENGTH + UBAF	47 3/4 - 67 3/4	43 - 63
36"+36"+12" + UB18SF	66 1/2 - 76 3/4	61 3/4 - 72
36"+36"+24" + UB18SF	75 - 85 1/4	70 1/4 - 80 1/2
36"+36"+36" + UB18SF	83 1/2 - 93 3/4	78 3/4 - 89
7 INCH Ø		
NO LENGTH + UB6SF	10 - 11 3/4	4 3/4 - 6 1/2
5" LENGTH + UB6SF	12 3/4 - 14 3/4	7 1/2 - 9 1/2
5" LENGTH + UB12SF	16 3/4 - 19	7 1/2 - 13 3/4
12" LENGTH + UB12SF	17 3/4 - 23 3/4	12 1/2 - 18 1/2
18" LENGTH + UB12SF	22 - 28	16 3/4 - 22 3/4
24" LENGTH + 18UBSF	26 1/4 - 36 1/2	21 - 31 1/4
UBAF	37 1/4 - 57	32 - 51 3/4
18" LENGTH + UBAF	48 1/2 - 68 1/2	43 1/4 - 63 1/4
36"+36"+12" + UB18SF	67 1/4 - 77 1/2	62 - 72 1/4
36"+36"+12" + UB18SF	75 3/4 - 86	70 1/2 - 80 3/4
36"+36"+12" + UB18SF	84 1/4 - 94 1/2	79 - 89 1/4
8 INCH Ø		
NO LENGTH + UB6SF	10 1/2 - 12 1/2	5 - 7
5" LENGTH + UB6SF	13 1/2 - 15 1/4	7 3/4 - 9 3/4
5" LENGTH + UB12SF	17 1/2 - 19 1/2	7 3/4 - 14
12" LENGTH + UB12SF	18 1/4 - 24 1/2	12 3/4 - 19
18" LENGTH + UB12SF	22 1/2 - 28 3/4	17 - 23 1/4
24" LENGTH + 18UBSF	26 3/4 - 37 1/4	21 1/4 - 31 3/4
UBAF	38 - 57 3/4	32 1/4 - 52 1/4
18" LENGTH + UBAF	49 1/4 - 69	43 3/4 - 63 1/2
36"+36"+12" + UB18SF	67 3/4 - 78 1/4	62 1/4 - 72 3/4
36"+36"+12" + UB18SF	76 1/4 - 86 3/4	70 3/4 - 81 1/4
36"+36"+12" + UB18SF	84 3/4 - 95 1/4	79 1/4 - 89 1/2

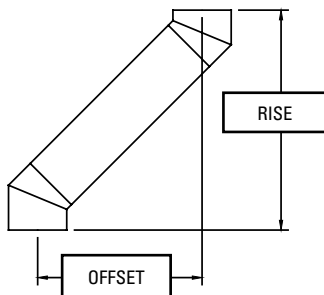
All measurements are in inches

30° ELBOWS

UB OFFSET TABLE- Use this table when a slip length (UBSF) is not installed between the elbows.

LENGTH BETWEEN OFFSETS	30° Elbows	
	RISE	OFFSET
6 INCH Ø		
NO LENGTH	7 1/4	2
5" Length	10 1/2	4
12" Length	16 3/4	7 1/2
18" Length	21 3/4	10 1/2
24" Length	27	13 1/2
36" Length	37 1/2	19 1/2
7 INCH Ø		
NO LENGTH	7 3/4	2
5" Length	11	4
12" Length	17 1/4	7 1/2
18" Length	22 1/4	10 1/2
24" Length	27 1/2	13 1/2
36" Length	38	19 1/2
8 INCH Ø		
NO LENGTH	8 1/4	2 1/4
5" Length	11 3/4	4 1/4
12" Length	17 3/4	7 3/4
18" Length	23	10 3/4
24" Length	28 1/4	13 3/4
36" Length	38 1/2	19 3/4

All measurements are in inches

**30° ELBOWS**

UB OFFSET TABLE- Use this table if you are installing an adjustable length between the elbows.

LENGTH BETWEEN ELBOWS	30° Elbows	
	RISE	OFFSET
6 INCH Ø		
NO LENGTH + UB6SF	8 1/4 - 10 1/2	2 3/4 - 4
5" LENGTH + UB6SF	11 3/4 - 14	4 3/4 - 6
5" LENGTH + UB12SF	16 3/4 - 19 1/4	7 1/2 - 9
12" LENGTH + UB12SF	17 3/4 - 25 1/4	8 1/4 - 12 1/2
18" LENGTH + UB12SF	23 - 30 1/2	11 1/4 - 15 1/2
24" LENGTH + UB18SF	28 1/4 - 41	14 1/4 - 21 1/2
UBAF	41 3/4 - 66	22 - 36
18" LENGTH + UBAF	55 1/2 - 79 3/4	30 - 44
36"+36"+12" + UB18SF	78 1/4 - 91 1/4	43 1/4 - 50 1/2
36"+36"+24" + UB18SF	88 3/4 - 101 1/2	49 1/4 - 56 1/2
36"+36"+36" + UB18SF	99 1/4 - 112	55 1/4 - 62 1/2
7 INCH Ø		
NO LENGTH + UB6SF	8 3/4 - 11	2 3/4 - 4
5" LENGTH + UB6SF	12 1/4 - 14 1/2	4 3/4 - 6
5" LENGTH + UB12SF	17 1/4 - 19 3/4	7 1/2 - 9
12" LENGTH + UB12SF	18 1/4 - 25 3/4	8 1/4 - 12 1/2
18" LENGTH + UB12SF	23 1/2 - 31	11 1/4 - 15 1/2
24" LENGTH + 18UBSF	28 3/4 - 41 1/2	14 1/4 - 21 1/2
UBAF	42 1/4 - 66 1/2	22 - 36
18" LENGTH + UBAF	56 - 80 1/4	30 - 44
36"+36"+12" + UB18SF	78 3/4 - 91 3/4	43 1/4 - 50 1/2
36"+36"+12" + UB18SF	89 1/4 - 102	49 1/4 - 56 1/2
36"+36"+12" + UB18SF	99 3/4 - 112 1/2	55 1/4 - 62 1/2
8 INCH Ø		
NO LENGTH + UB6SF	9 1/4 - 11 3/4	3 - 4 1/4
5" LENGTH + UB6SF	12 3/4 - 15 1/4	5 - 6 1/4
5" LENGTH + UB12SF	17 3/4 - 20 1/4	7 3/4 - 9 1/4
12" LENGTH + UB12SF	18 3/4 - 26 1/2	8 1/2 - 12 3/4
18" LENGTH + UB12SF	24 - 31 3/4	11 1/2 - 15 3/4
24" LENGTH + 18UBSF	29 1/4 - 42	14 1/2 - 21 3/4
UBAF	43 - 67 1/4	22 1/4 - 36 1/4
18" LENGTH + UBAF	56 3/4 - 81	30 1/4 - 44 1/4
36"+36"+12" + UB18SF	79 1/2 - 92 1/4	43 1/2 - 50 3/4
36"+36"+12" + UB18SF	89 3/4 - 102 3/4	49 1/2 - 56 3/4
36"+36"+12" + UB18SF	100 1/4 - 113	55 1/2 - 62 3/4

All measurements are in inches

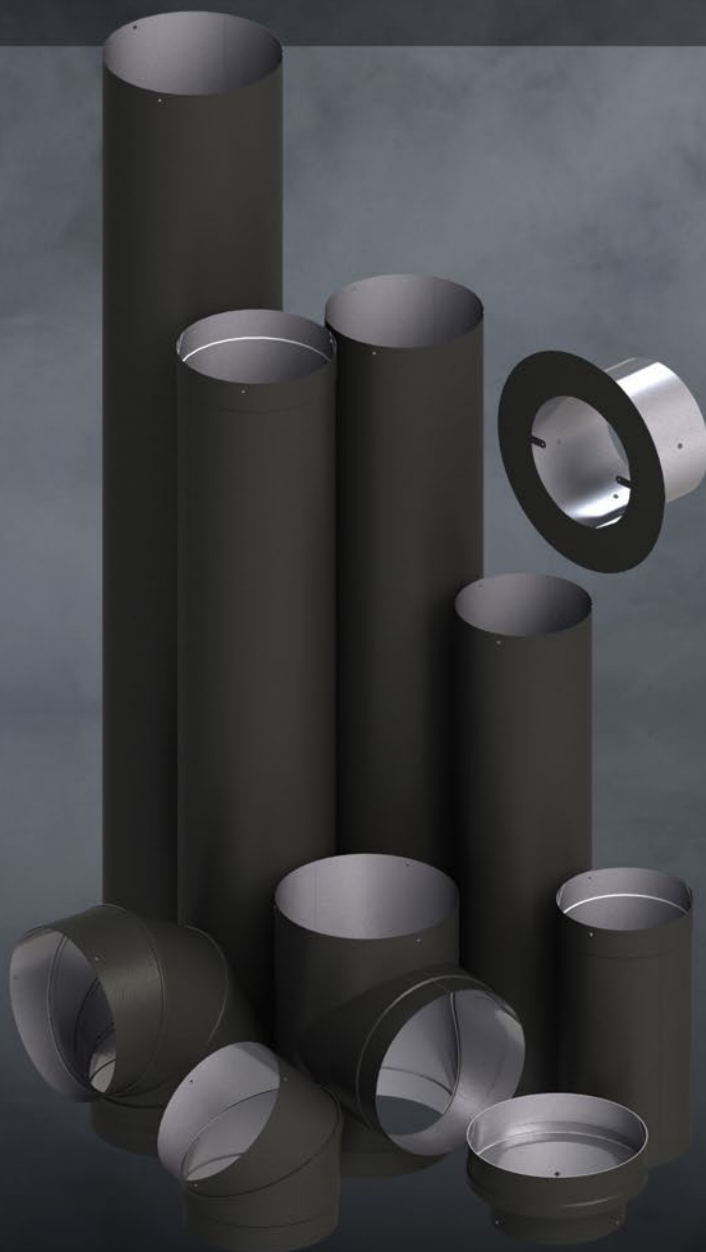
REVOLUTIONARY NEW STOVE PIPE

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.

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: 22ga 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 is 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, 22ga 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.

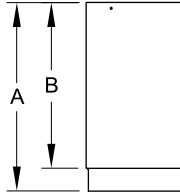


Length

(SW1, SW18, SW2, SW3, SW4)

Slip Length

(SW1S)



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

Slip Lengths 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.

INCHES

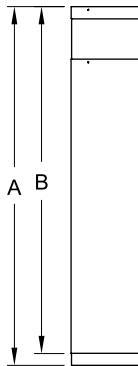
Length Dimensions		
Code	A	B
SW1	12	10 5/8
SW18	18	16 5/8
SW2	24	22 5/8
SW3	36	34 5/8
SW4	48	46 5/8

INCHES

Slip Length Dimensions		
Code	Min. Installed Length	Max. Installed Length
SW1S	1 3/8	12

Adjustable Length

(SWA)



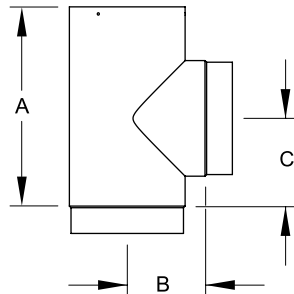
Adjustable Lengths combine a 36" length and a 36" slip length in one box. The SWA provides enough range that it is often the only component required for vertical installations.

INCHES

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

Tee

(SWT)



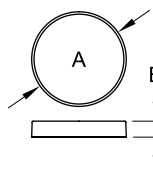
Combines a 90° transition with a clean out. Tee Cap (SWTP) **not included**.

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)

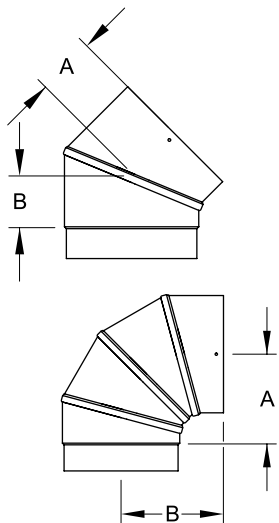


Caps off the open portion of a Tee.

INCHES

Dimensions		
Code	A	B
6SWTP	6	1
7SWTP	7	1
8SWTP	8	1

Elbow
(SW45, SW90)

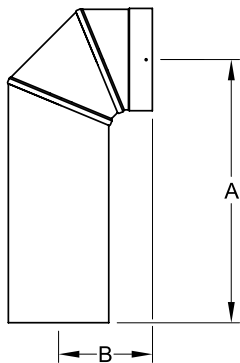


Are available in 45° and 90°

Dimensions			INCHES
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	

NEW

Slip Elbow 90°
(SW90S)

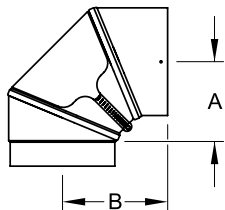


Combines a 90° elbow and a slip length in one piece.

Dimensions				INCHES
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	

NEW

Clean Out Elbow 90°
(SW90C)

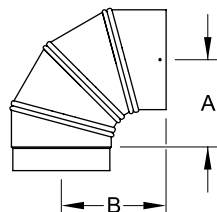


Incorporates an easily removable inspection port that is large enough for a chimney brush.

Dimensions			INCHES
Code	A	B	
6SW90C	4 5/8	6	
7SW90C	5 1/8	6 1/2	
8SW90C	5 5/8	7	

NEW

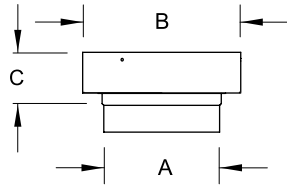
Swivel Elbow 90°
(SWA90)



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

Dimensions			INCHES
Code	A	B	
6SWA90	5 3/8	6 3/8	
7SWA90	5 7/8	6 7/8	
8SWA90	6 3/8	7 3/8	

Increaser (SWSI)

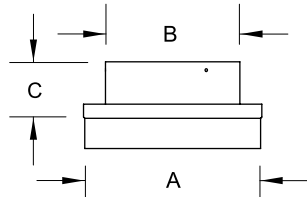


Designed to increase the diameter of a system to accommodate a range of flue sizes, appliances and installations. *Note: Increasing chimney diameter can reduce draft and increase creosote formation. Be careful to use these components only when appropriate.*

INCHES

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

Reducer (SWSR)

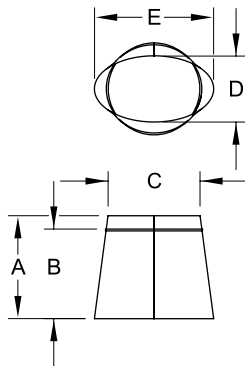


Designed to reduce the diameter of a system to accommodate a range of flue sizes, appliances and installations. *Note: Decreasing chimney diameter even 1" can have a serious negative impact on chimney performance. Be careful to use these components only when appropriate.*

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)

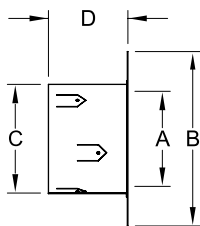
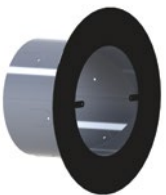


Connects EXCELPrime to stoves with oval flue collars. Available in 8" only.

INCHES

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

Masonry Adapter (SWM)

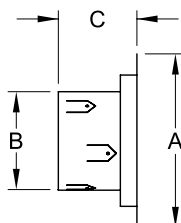
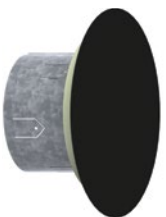


Connects EXCELPrime to a masonry chimney. *Note: EXCELPrime is not certified to pass through a combustible wall. An EXCELiner Insulated Thimble (ITH, page 35) must be used where there is a combustible wall between the stove and the masonry chimney.*

INCHES

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

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.

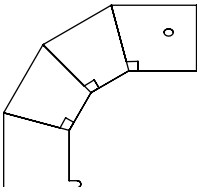
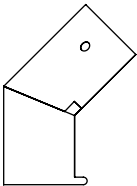
INCHES

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

NEW

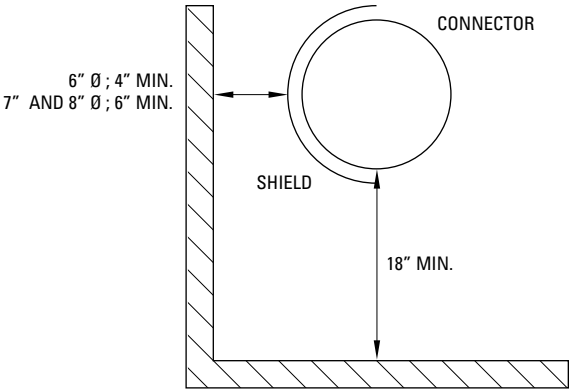
NEW

Heat Shield
(SW1HS, SW2HS, SW3HS, SWHS45, SWHS90)



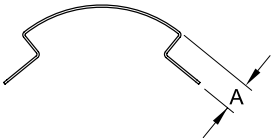
Reduces clearance required from combustible walls and ceilings. EXCELP[®]Prime heat shields are UL listed in combination with EXCELP[®]Prime only and will not reduce the clearance of other brands of stove pipe to the clearances listed below. For other brands of single wall stove pipe, clearances will be reduced to those of an unlisted heat shield installation. Available in 12", 24", 36", 45° and 90° designs.

Clearance		INCHES
Diameter	Clearance to Combustibles from Shielding	
6"	4"	
7"	6"	
8"	6"	



NEW

Heat Shield Spacer
(SWHSS)



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

Dimensions		INCHES
Code	A	
SWHSS	7/8	

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 insure 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.

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 insure 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.

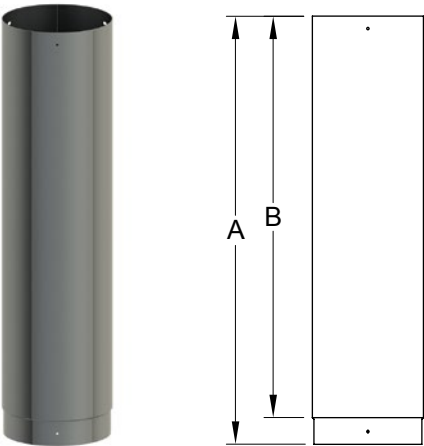
Listing # 5965

NEW

EXCEliner Product Descriptions

Lengths

(LL4, LL3, LL2 & LL1)



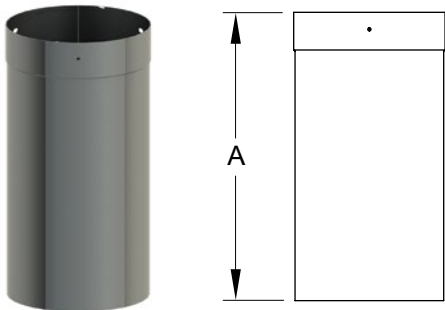
EXCEliner is available in 4', 3', 2' and 1' lengths. EXCEliner components fasten together with 100% stainless steel pop rivets which are supplied with the liner. The holes and slots for the rivets are factory pre-punched so no drilling is required. The male and female ends are hemmed to make the liner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

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

Length Dimensions			INCHES
	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)

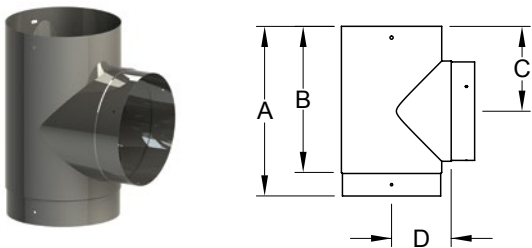


Slip lengths are available in 3' and 1' lengths. Slip lengths are used to adjust the length of the system without cutting. *Note: Slip lengths must be installed above a fixed length or they will not adjust. They should not be installed immediately above a tee or elbow.*

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

Split Base Tees

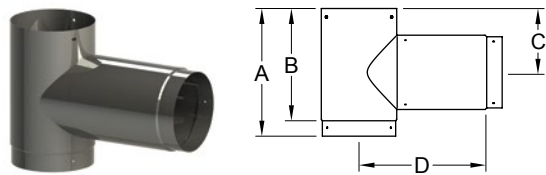
(LT)



The flange for the tee mouth is formed into the vertical tee body to provide a strong connection while minimizing projection to facilitate installation in tight flues. The tee mouth fastens to the body with heavy duty stainless steel screws which install through the inside of the mouth.

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

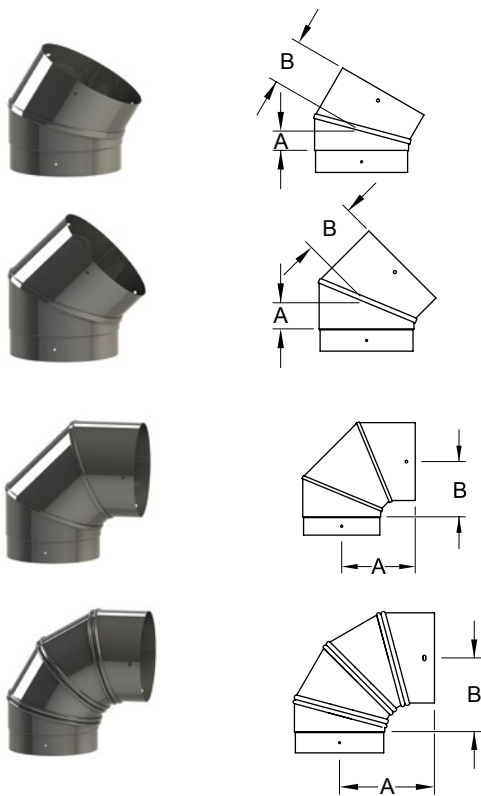
Adjustable Snout Tees
(LTA)



The LTA eliminates the difficult job of cutting and fastening a short horizontal length of liner in the breaching.

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

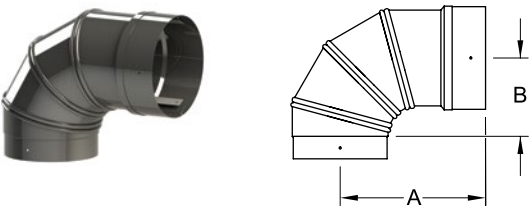
Elbows
(LE30, LE45, LE90 & LEA90)



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

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)

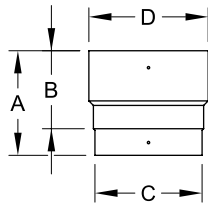


This adjustable elbow is designed for use during the installation of an insert. The angle of the elbow is adjustable to ease installation, and three tabs on the inside of the elbow help secure a flexible liner in place without tearing.

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)



Designed to connect EXCEliner to a flexible liner where the rigid liner is installed below the flexible liner. It can be also used to connect a flexible liner to an appliance collar. *Note: The EXCEliner male end will fit into most brands of flexible liner (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.*

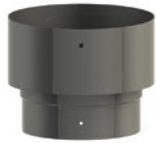
INCHES

Dimensions				
Code	A	B	C	D
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

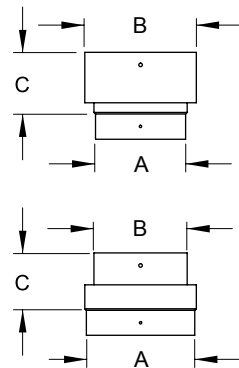
Increases and Reducers

(LI & LR)

Increaser



Reducer



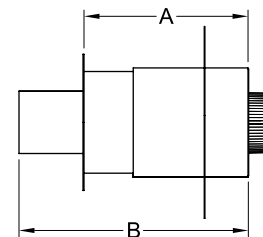
Designed to increase or reduce the size of an EXCEliner to accommodate a range of flue sizes, appliances and installations. *Note: Increasing or decreasing chimney size can have a negative impact of chimney performance and safety. Use these components only when appropriate.*

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)



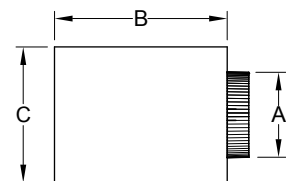
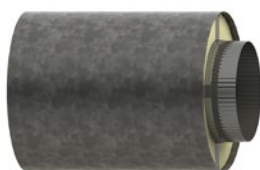
The ITH is tested and listed to connect through a combustible wall into a masonry chimney. It is adjustable to accommodate wall thickness up to 10" and can be combined with any UL listed liner system (ULC S-635, ULC S-640 or UL 1777). Not available in 5.5"

INCHES

Dimensions			
Code	A MIN.	A MAX.	B
5ITH	7 1/2	13	20
6ITH	7 1/2	13	20
7ITH	7 1/2	13	20
8ITH	7 1/2	13	20

ITH Extension

(ITHE)



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

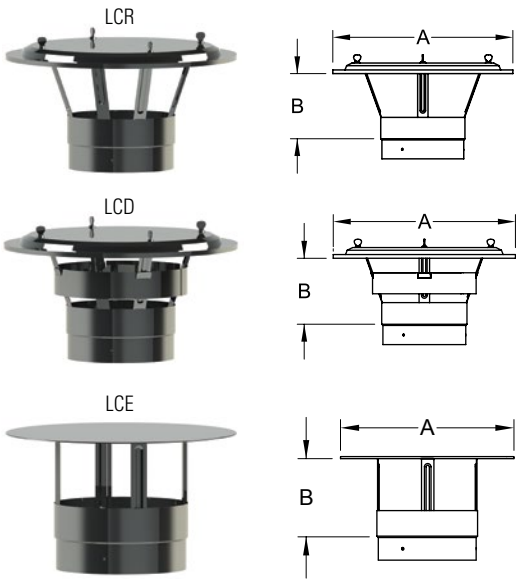
INCHES

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

NEW

Rain Caps

(LCR, LCD & LCE)



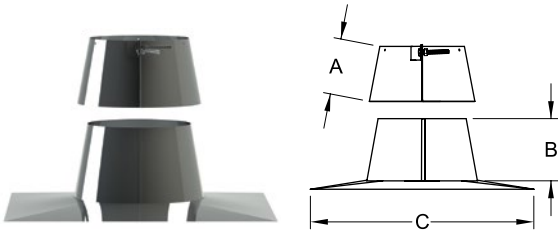
EXCELiner rain caps are made entirely of type 304 stainless steel. The top is held in place with four wing nuts on the regular (LCR) and deluxe (LCD) rain caps for easy removal and cleaning without the need to remove the rain cap itself. The deluxe cap has a stainless steel band. The economy cap (LCE) is only available in 5", 5.5" and 6".

Dimensions			INCHES
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	
5LCE	10 1/2	5 1/4	
55LCE	10 1/2	5 1/2	
6LCE	10 1/2	4 5/8	

NEW

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".

Dimensions				INCHES
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.

Model RIS

ALL FUEL, INSULATED CHIMNEY SYSTEM 10" - 24"



Model RIS Technical Information

Certification

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

UL 103HT - The standard for solid and liquid fuel chimneys.

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: Model RIS is not certified to the ULC S-629 Standard. Do not install an RIS system on a wood fireplace without first contacting your local authority for approval. 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.

Allowable Flue Gas Temperatures

Max Continuous	540°C (1000°F)
Brief Forced Firing	760°C (1400°F)
Tested To	1150°C (2100°F)

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 67 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. The parts include the Roof Top Shield (RTS), Insulated Angle Wall Radiation Shields (45° & 30°), Chimney Top Damper (ETD) and Metal Roof Flashings (RMFA, RMFB, RMFC). Some of these parts are specific to particular fireplaces and not described in the catalog.



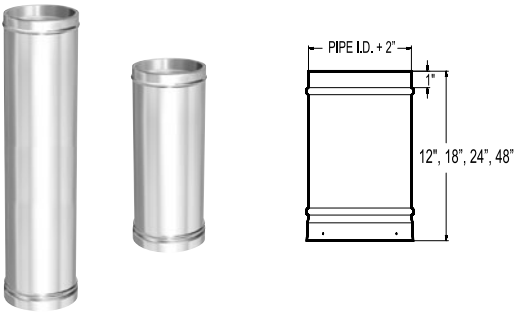
Model RIS has been tested and listed to the UL 103HT chimney standards by INTERTEK.

Listing #5965

Model RIS Product Descriptions

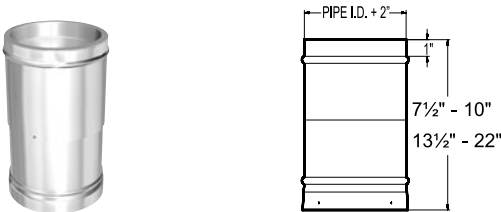
Lengths (RIL)

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



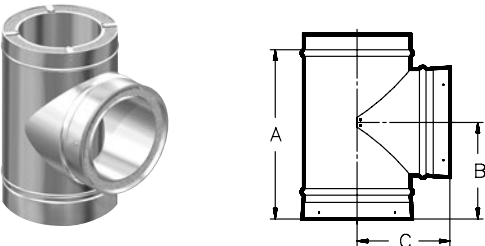
Adjustable Lengths (RILA)

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)

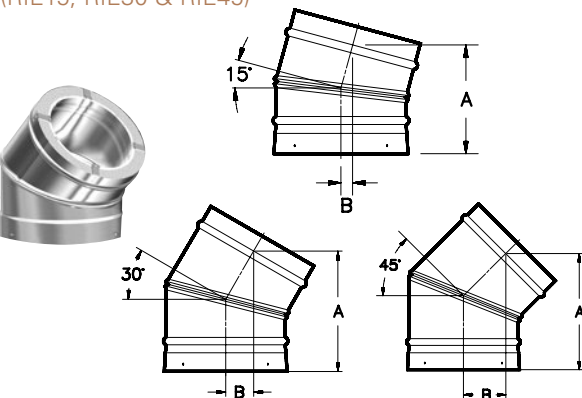
Designed to connect horizontal and vertical lengths of the chimney.



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

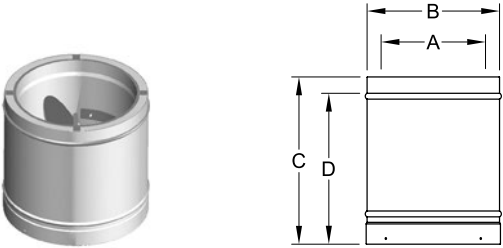
Elbows (RIE15, RIE30 & RIE45)

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



INCHES						
Dimensions						
PIPE I.D.	15°		30°		45° CANADA ONLY	
	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)

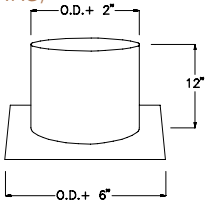


Currently available in 10" and 12" diameter only. Adding this "Top Damper" to a system seals it right at the top of the chimney. The "Chimney Top Damper" is placed directly below the cap and is designed to prevent any cold air infiltration into the house through the chimney. It functions on a chain that hangs down to the firebox and comes with 30' of wire.

INCHES				
Dimensions				
Code	A	B	C	D
10RCTD	10	12	12	10 1/4
12RCTD	12	14	12	10 1/4

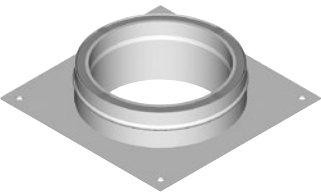
Radiation Shield (RRS)

Used when the chimney passes through a combustible floor or ceiling.



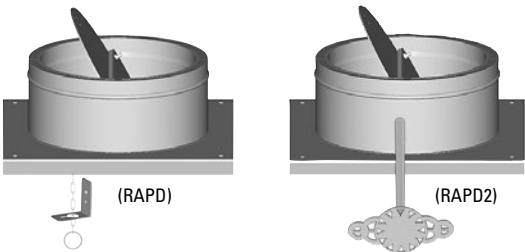
Anchor Plate (RAP)

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



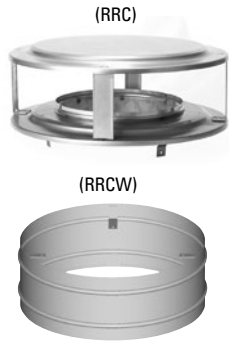
Anchor Plate Damper (RAPD, RAPD2)

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.



Rain Caps (RRC)

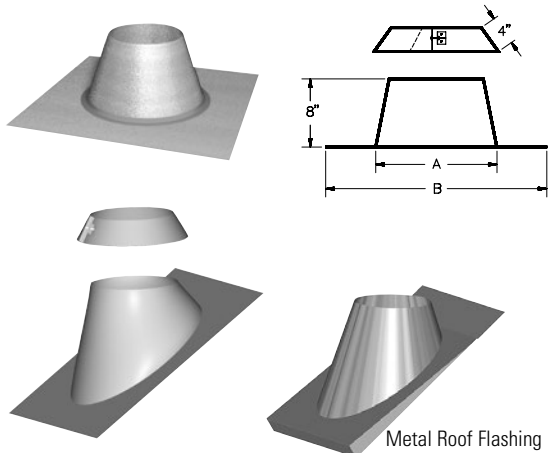
The RIS rain cap is constructed entirely of stainless steel. It is designed to provide good protection from wind and rain while incorporating small size and a low profile. An optional wind/rain shield is available in 10" & 12" diameters.



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.

Roof Flashings

Flashings include a storm collar



Metal Roof Flashing
US Patent #7114301
Can Patent #2460044

(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.

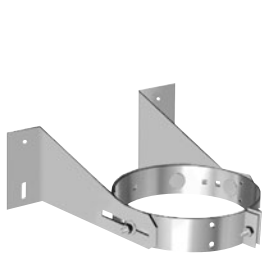
(RMFA, RMFB, RMFC) These flashings are specifically designed for metal roofs and greatly simplify metal roof installations. They are made from galvalume steel only.

INCHES						
(F)			(FA)		(FB)	
	Pitch 0 - 2/12		Pitch 1/12 - 7/12		Pitch 8/12 - 12/12	
Ø	A	B	A	B	A	B
10	17 15/16	28 x 28	16 7/8 - 17 7/8	28 x 28	19 1/8 - 23	28 x 33
12	19 15/16	30 x 30	19 1/4 - 20 1/4	30 x 30	21 3/4 - 26 1/8	32 x 36
14	21 15/16	32 x 32	21 1/2 - 22 5/8	32 x 32	24 - 29 1/8	34 x 40
16	23 15/16	34 x 34	23 3/4 - 25	35 x 35	27 - 32 1/2	37 x 42
18	25 15/16	36 x 36	27 3/8 - 26	37 x 37	29 1/8 - 35 1/8	40 x 45
20	27 15/16	38 x 38	29 3/4 - 28 1/4	38 x 40	32 - 38 3/8	42 x 48
22	29 15/16	40 x 40	31 7/8 - 33 5/8	42 x 44	n/a	n/a
24	31 15/16	42 x 42	32 1/8 - 38 1/2	42 x 48	32 1/8 - 38 1/2	48 x 51
Metal Roof Flashings (10" & 12" dia. Only)						
Code	Ventilation		Fits Pitch Range			
RMFA	ventilated		1/12 - 7/12			
RMFB	ventilated		8/12 - 12/12			
RMFC	ventilated		12/12 - 21/12			

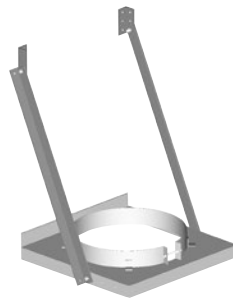
Wall Support

(RWS)

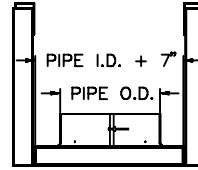
Designed to support a vertical chimney on a wall. There are two styles of wall support, one for 10" & 12" diameter RIS and one for all other diameters.



RWS for 10" & 12" diameters



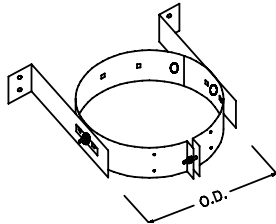
RWS for all other sizes



Wall Band

(RWB)

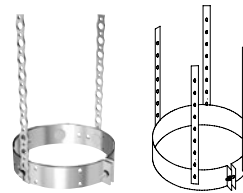
Used on vertical or horizontal runs of chimney to stabilize the chimney. The maximum distance between wall bands is 8'.



Offset Support

(ROS)

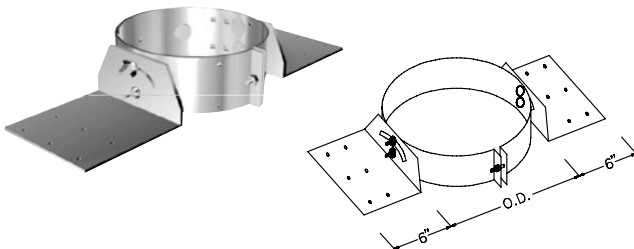
The offset support is primarily used to re-support the chimney above an offset. However it may also be used to provide additional support when the chimney height exceeds the capacity of the primary support.



Roof Support

(RSR)

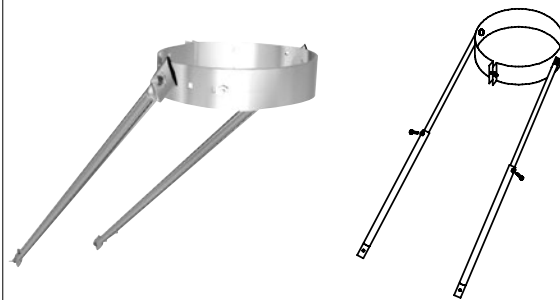
The roof support is used above an offset, to provide additional support when the chimney height exceeds the primary support capacity.



Roof Brace

(RRB)

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



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.



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

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 staining 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) have drawings of typical installations and detailed installation information.

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.

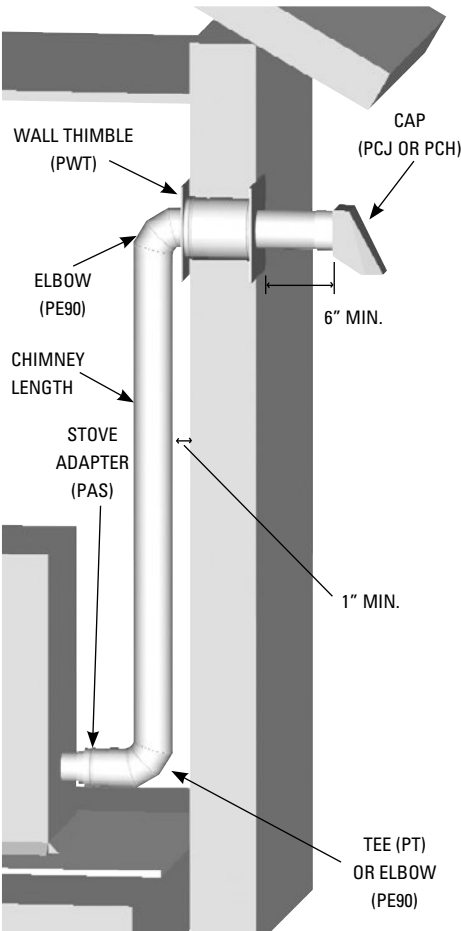
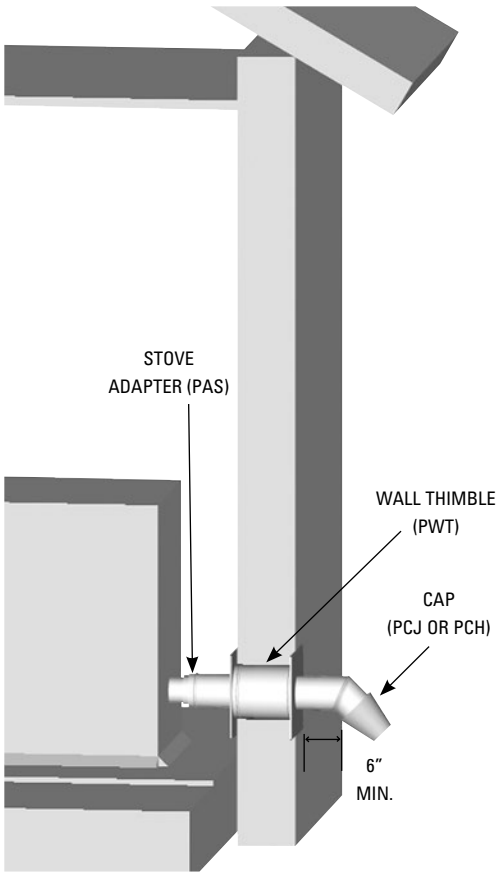
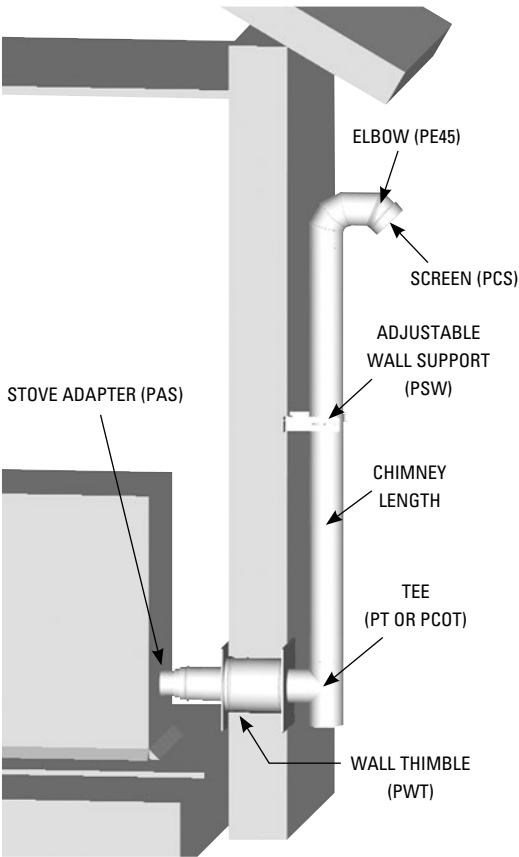


EXCELPellet Typical Installations

NOTE: The following information are not to be used as installation instructions. Please refer to the detailed EXCELPellet installation instructions for complete details on your specific application.

All measurements are in inches

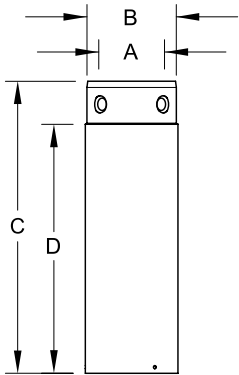
Inside Diameter	3 Inch	4 Inch
Outside Diameter	3 3/4"	4 3/4"
Weight/Foot (lb/ft.)	1.3	1.6
Rough Opening Required:		
Supports (PSA, PSF)	5 3/4" x 5 3/4"	6 3/4" x 6 3/4"
Supports (PSS)	6 3/4" x 6 3/4"	6 3/4" x 6 3/4"
Wall Thimble (PWT)	6 1/2" x 6 1/2" or 6 1/2" round	7 1/2" x 7 1/2" or 7 1/2" round
Masonry 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)

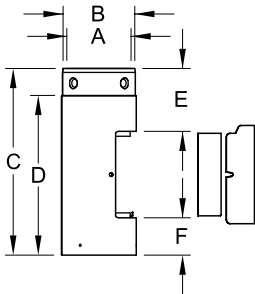


48", 36", 24", 16", 12", 5" & 6", 16" slip lengths, all lengths are available in Galvalume or Black exterior.

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		

NEW

Clean-Out Length (PCOL)

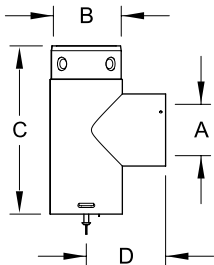


The removable casing allows access to the inside of the flue for easy cleaning. The Clean-Out length can be in any location as a substitute for a standard length.

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)

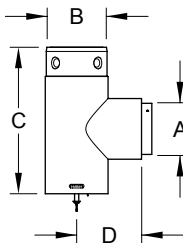


The tee cap incorporates a silicone gasket making it easy to remove for cleaning. All tees are available in Galvalume or Black exterior. Short snout places vent closer to stove.

Tee 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)

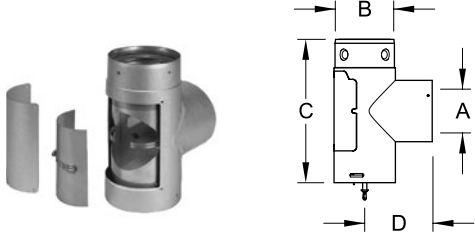


These Tees can be installed directly to the Stove without the need for a stove adapter.

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)



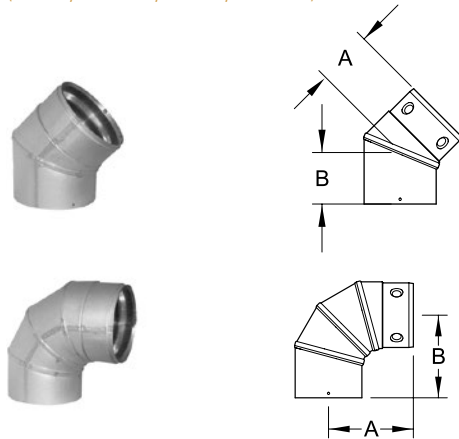
Allows easy access to the horizontal run of a system for cleaning.

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

Elbows

(PE45, PE45B, PE90, PE90B)



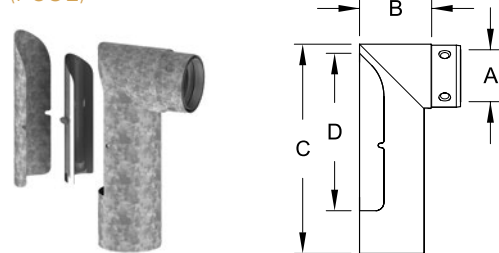
Small radius to make installations in tight spaces easier. 45° and 90° available, all elbows are available in Galvalume or Black exterior.

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

Clean-Out Elbow

(PCOE)



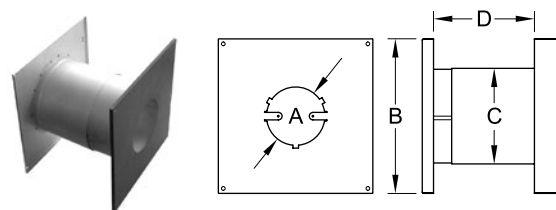
The removable casing allows access to the inside of the flue for easy cleaning. Typically used for "up and out" installations.

INCHES

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

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.

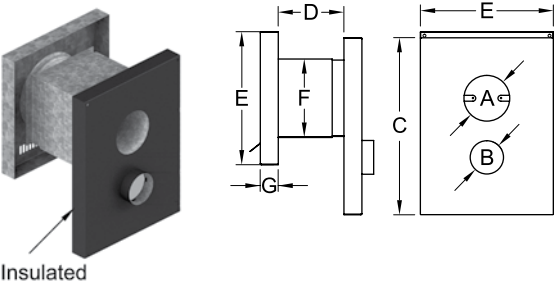
A template for EXCELPellet wall thimbles can be purchased to simplify installation (PTMP).

INCHES

Dimensions		
	3"	4"
A	3 7/8	4 7/8
B	10 1/4	10 1/4
C	6 3/8	7 3/8
D	min. 5 - max. 10	

NEW

Wall Thimble with Integrated Outside Air (PWTOI)

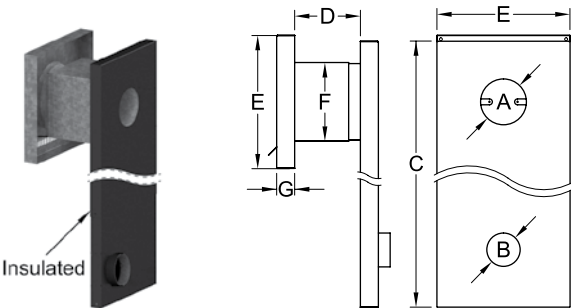


Simplifies a fresh air connection by integrating it into the same conduit as the wall thimble. This component is fully insulated through the wall and on the inside wall to prevent cold air or condensation in the home. Includes 10' of insulated flex.

Dimensions			INCHES
	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	

NEW

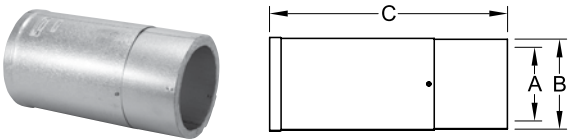
Wall Thimble with Outside Air Channel (PWTOC)



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.

Dimensions			INCHES
	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	

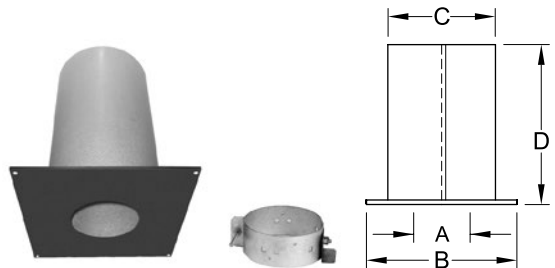
Wall Thimble Extension (PWTE)



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

Dimensions			INCHES
	3"	4"	
A	4 1/8	5 1/4	
B	6 1/4	7 1/4	
C	5 3/4 to 15		

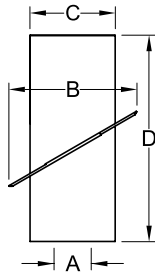
Ceiling Support/Radiation Shield (PSA)



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.

Dimensions			INCHES
	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)

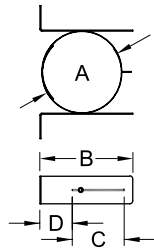
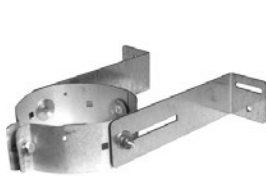


Rated to support up to 37' (3") or 30' (4") of venting where it passes through an insulated or un-insulated ceiling. It is particularly suitable for cathedral and drop ceilings.

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)

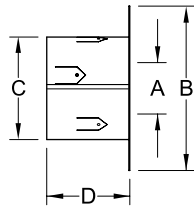
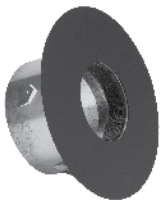


Rated to support up to 21' (3") or 17' (4") of venting. Fits 3" and 4" diameters. It adjusts easily to provide from 1" to 5" of clearance to the wall.

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)

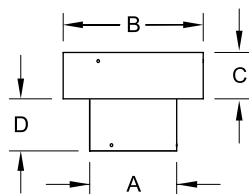


Provides a tight, positive transition to a masonry chimney. Fits existing masonry thimbles up to 8" in diameter.

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 (PAA6, PAA7, PAA8)

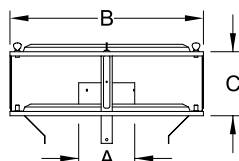


Provides a positive sealed connection between EXCELPellet and type A chimneys. Models to connect 3" or 4" pellet vent to 6", 7" or 8" type A.

INCHES

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

Chimney Adapter Cap (PCA)

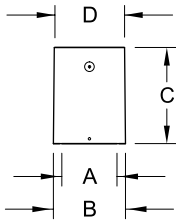


This cap will fit any brand of chimney with up to an 8" I.D. It's connects to EXCELPellet or a flexible liner used to re-line the existing chimney. Available in 3" or 4".

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)

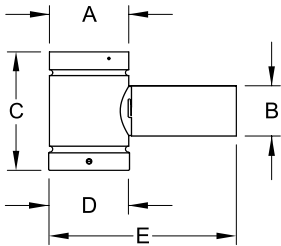


Provides a sealed connection where a flexible liner is installed above an EXCELPellet system.

	Dimensions		
	3"	4"	3" to 4"
A	3	4	3
B	3 3/4	4 3/4	3 3/4
C	5	5	2 3/4
D	3 5/8	4 5/8	4 5/8

Flex Adapter Tee (3PATF4, 4PATF4)

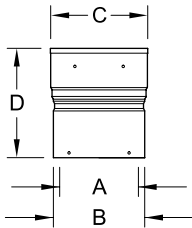
(3PATF4, 4PATF4)



For pellet stove installations that are vented into a masonry chimney. Connects EXCELPellet to a 4" flexible liner and has a removable twist mouth that is available in 3" or 4". Use in combination with the Masonry Adapter (PAM).

	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

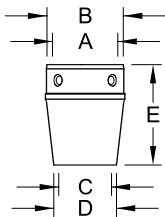
Pellet / Liner 5" Adapter (PAL5)



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

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

3" - 4" Tapered Increaser (3PIT4, 3PIT4B)
Tapered Stove Adapter (3PI4, 3PI4B)

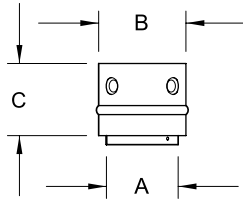


Increasing to 4" dia. is recommended for systems that have long runs. The 3PIT4 & 3PIT4B are used in-line with regular lengths. The 3PI4 & 3PI4B connect directly to the stove.

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

Stove Adapter

(PAS, PASB)



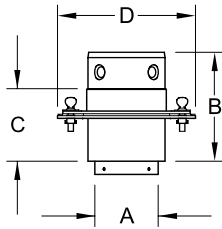
Universal adapter fits both large OD flue collars (e.g.: Harman) and small OD flue collars. The stove adapter fastens permanently to the stove but can be easily disconnected from the rest of the vent to simplify cleaning. Available in Galvalume or Black exterior.

INCHES

Dimensions		
	3"	4"
A	3	4
B	3 5/8	4 5/8
C	3 3/8	

Quick Disconnect Stove Adapter

(PAQ)



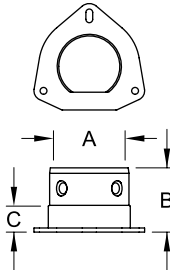
Makes cleaning and servicing pellet stoves dramatically easier. This stove adapter comes apart at the center by undoing two thumb screws. With the PAQ installed, there is no need to take lengths apart for cleaning.

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)



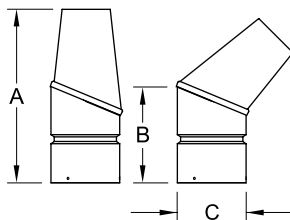
Bolts directly to Harman stoves and does not require silicone. Available in two lengths to accommodate stoves with extended hoppers.

INCHES

Dimensions			
Code	A	B	C
PASH	3	2 7/8	1 1/8
PASH6	3	6 3/8	4 5/8

Adjustable Jet Cap

(PCJ)

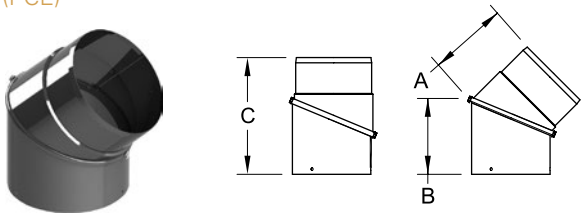


Can be rotated to direct hot flue gasses away from bushes or other things in proximity to the exhaust.

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

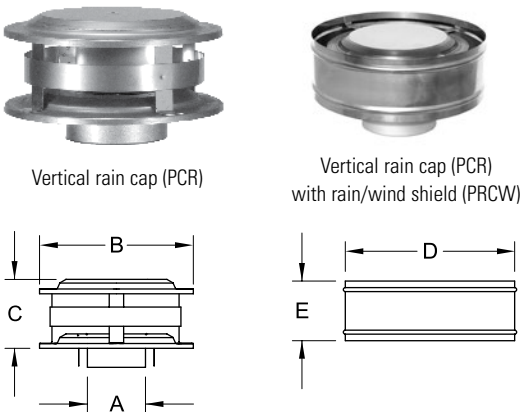
Economy Cap
(PCE)



Can be installed straight or at a 45° angle to direct hot flue gasses away from bushes and other objects. Made of single wall stainless steel. Does not include a screen.

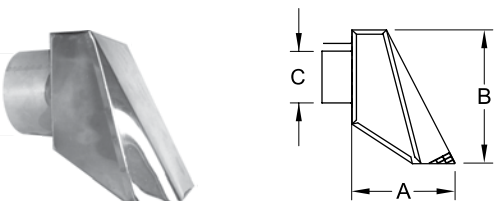
Dimensions			INCHES
	3"	4"	
A	3 11/16	4 1/16	
B	3 9/16	4	
C	5 5/8	6 1/16	

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



Dimensions			INCHES
	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	

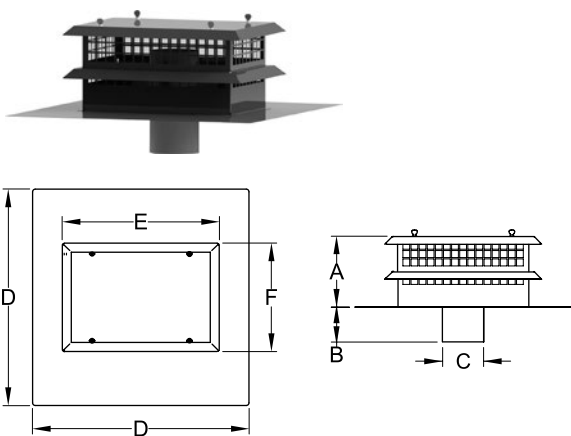
Horizontal Cap
(PCH)



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

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

Traditional Coaxial Chimney Cap
(PCT)



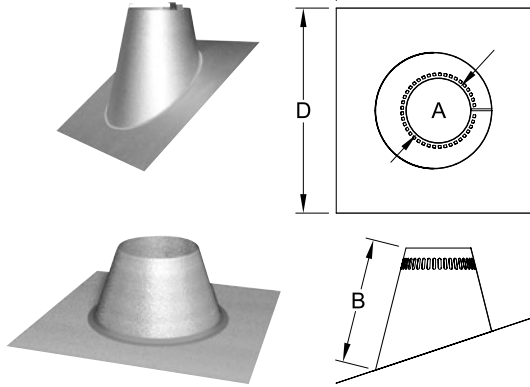
This cap is certified to be used with pellet appliances that are installed in a masonry chimney. It can also be used in the USA for direct vent gas stove installations that use the masonry chimney for fresh air. It is made entirely of stainless steel for superior corrosion resistance and strength.

Dimensions			INCHES
A	6 1/2		
B	3 1/4		
C	3 3/4		
D	20		
E	14 1/2		
F	10		

Flashings

(PF, PFA, PFB)

Flashings include a storm collar



INCHES

Flat Flashing Dimensions

	3"	4"
A	4	5
B	8 1/16	8 1/16
C	15 7/8	15 7/8
D	15 7/8	15 7/8

1/12 - 7/12 Flashing Dimensions

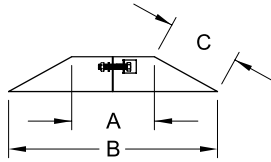
	3"	4"
A	4	5
B	9 3/4	10
C	18	18
D	15 15/16	15 15/16

8/12 - 12/12 Flashing Dimensions

	3"	4"
A	4	5
B	14 1/4	15 5/16
C	22 1/2	24
D	18	18

Storm Collars

(PSC)



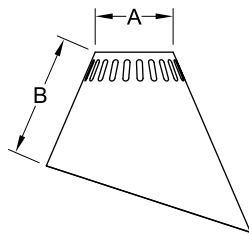
INCHES

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)



Adapts a 6" EXCEL Metal Roof Flashing (6EMFA or 6EMFB) to fit EXCELPellet vent or EXCELDirect. Metal Roof Flashing and storm collar ordered separately.

INCHES

Dimensions

Code	A	B
4MFA	5	8
4MFB	5	9 1/2

NEW

EXCELPellet Offset Tables

Use this table if you are not installing an adjustable length between the elbows		
45° Elbows		
LENGTH BETWEEN OFFSETS	RISE	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		
45° Elbows		
LENGTH BETWEEN OFFSETS	RISE	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 testing services.

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" Type 430 Stainless Steel

Casing: .019" Galvalume Steel or .022" Satin Coated (painted black)

Paint: Forrester "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

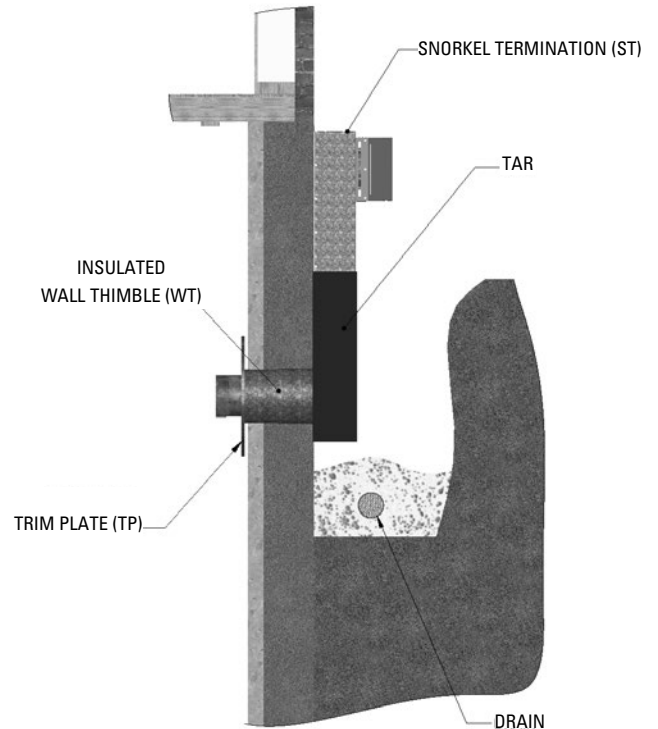
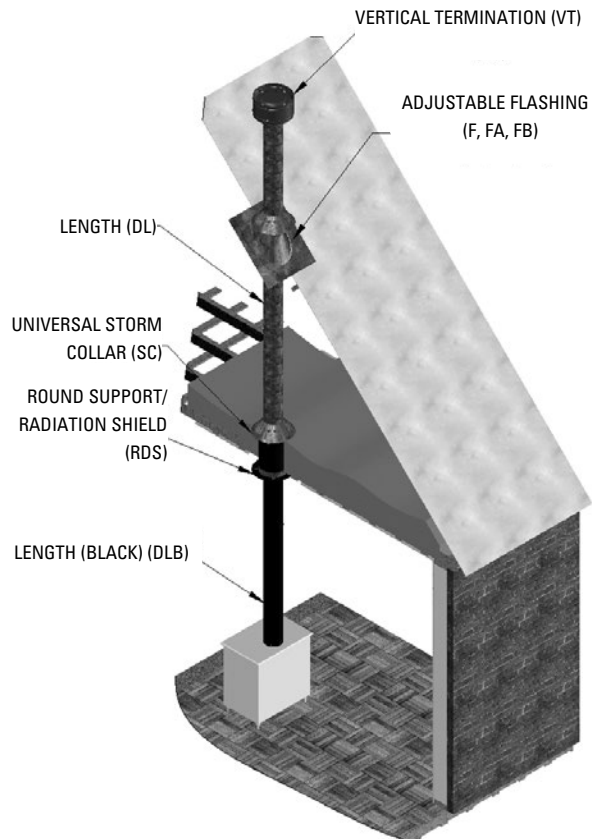
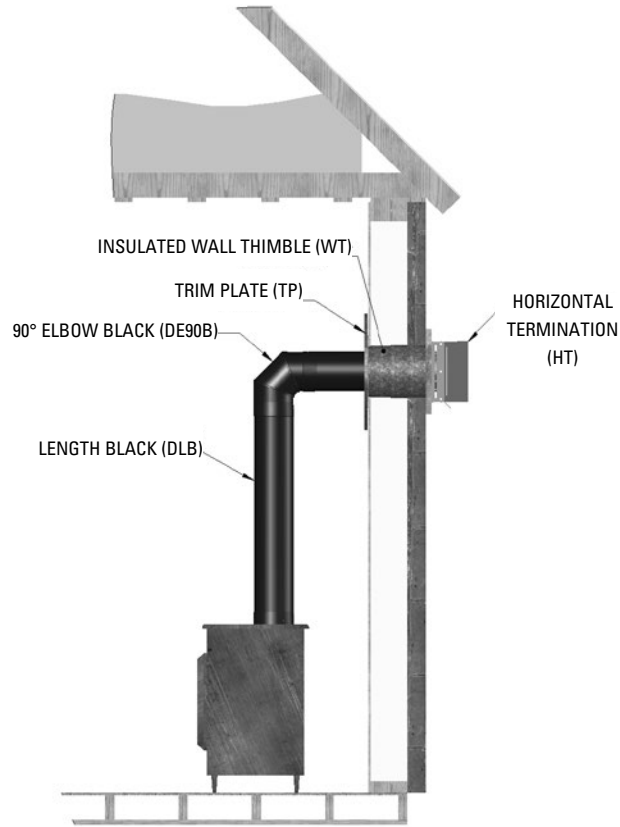
Prior to starting your installation, we suggest you take the following into consideration:

- 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.
- 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.
- Carefully read the appliance and the venting system instruction manuals. Good planning will save you time, work and money.
- Use only authorized EXCELDirect® listed components unless compatibility with another brand is specified in the appliance manufacturer's instructions. Do not use damaged parts.
- 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.
- 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.
- 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.
- 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.



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).



Lengths

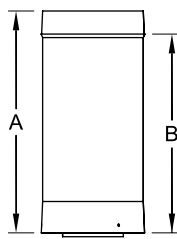
(DL6, DL6B, DL9, DL9B, DL1, DL1B, DL2, DL2B, DL3, DL3B, DL4, DL4B)

EXCELDirect® lengths are available in 48", 36", 24", 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.

Slip Lengths

(DLS1, DLS1B, DLS2, DLS2B)

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
DL2	23 5/8	22 1/4
DL3	35 5/8	34 1/4
DL4	47 5/8	46 1/4
Slip Lengths		
DLS1	Adds 1 7/8" - 9"	
DLS2	Adds 1 7/8" - 21"	

Telescopic Length

(DLA30, DLA30B)

The Telescopic Length includes two pipe sections that must be used together. The joint between the pipe sections is cleaner looking than using a slip length. Telescoping from 16 1/2" to 29" in length makes it ideal for up and out installations.

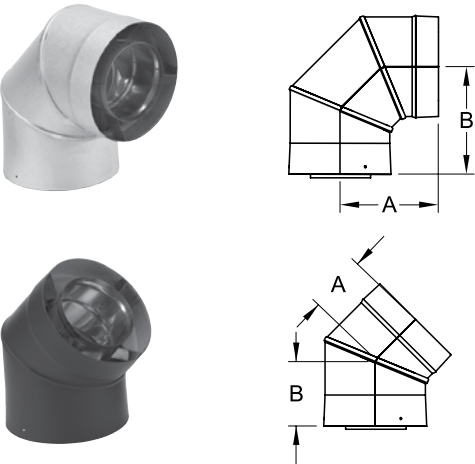


INCHES

Telescopic Length	
DLA30	Adjustable from 16 1/2" to 29"

Elbows 45° & 90°

(DE45, DE45B, DE90, DE90B)



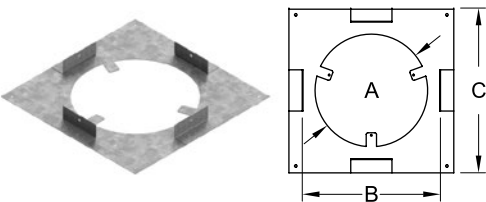
EXCELDirect® elbows are available in 45° and 90° and also in Black or Galvalume. The stainless steel inner casings are seam welded to ensure there is no leakage.

INCHES

Dimensions		
Code	A	B
4DE90	6 3/4	7
4DE45	3 5/8	4 3/8
5DE90	7 5/8	7 7/8
5DE45	4	4 5/8

Ceiling Support / Firestop

(CS)



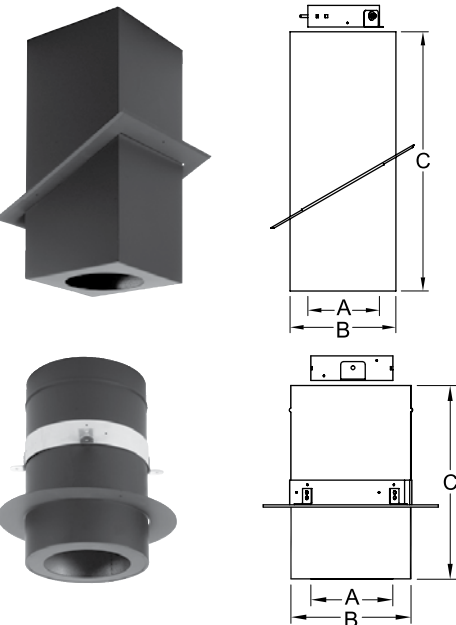
The Ceiling Support/Firestop is the most common support. It can be used on any floor level. It is the perfect choice when a structure hides the venting system. Simply screw the support to the framed joist with four #8 x 1 1/2" wood screws or use four spiral nails, 2" long. The Ceiling Support/Firestop 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)



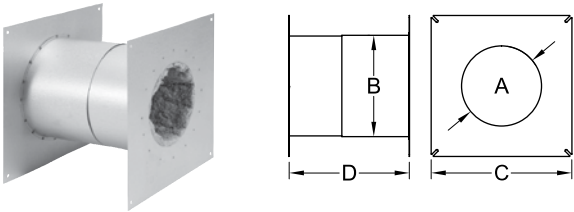
EXCELDirect® supports are suitable for use on flat or sloping ceilings. The amount they project into the room is determined only by the desired visual effect, but must be more than 1/4 inch. These supports are designed to act as a combination of support and attic radiation shield. To use either support 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

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

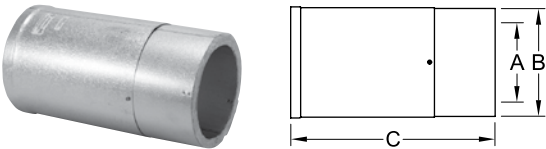
Insulated Wall Thimble
(WT)



Telescopes to accommodate wall thickness from 5 3/4" 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	5 3/4 to 10 1/2	5 3/4 to 10 1/2

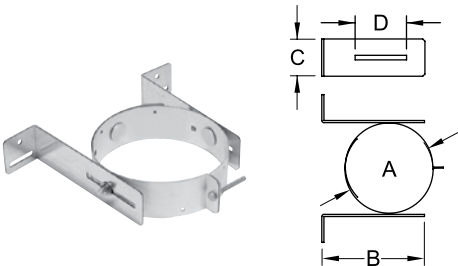
Wall Thimble Extension
(WTE)



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	

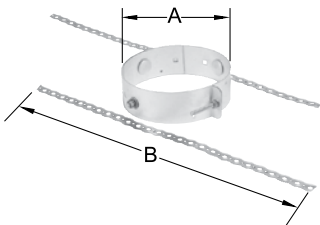
Adjustable Wall Support
(WS)



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	

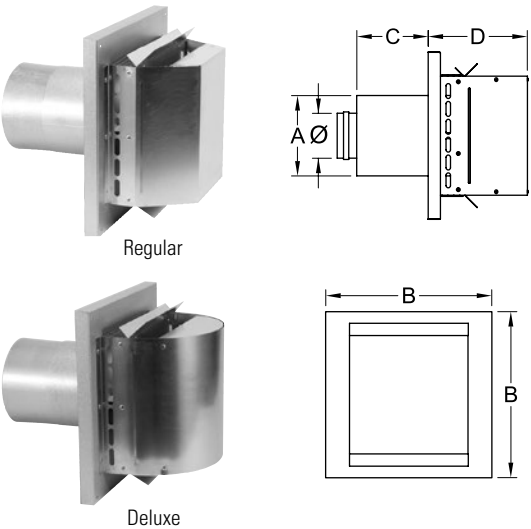
Offset Support
(OS)



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, DHT)

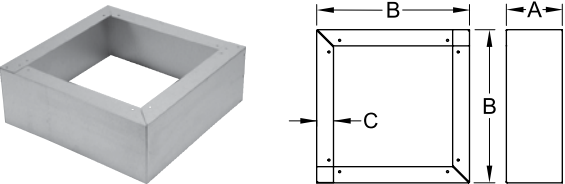


Both horizontal terminations are tested to high wind conditions and perform well even at winds equivalent to 40 mph. The Deluxe Termination is arched, while the regular cap is angular. The length connected to the terminations is a slip section that provides adjustment through the wall. All Horizontal Terminations have built-in vinyl siding standoffs for siding up to 1 1/2" deep. For deeper siding, an additional Vinyl Siding Standoff (VSS) is required.

INCHES

Dimensions		
Ø	4"	5"
A	6 5/8	8
B	14	14
C	5 1/4	5 1/4
D	7 5/8	7 5/8

Vinyl Siding Standoff
(VSS)

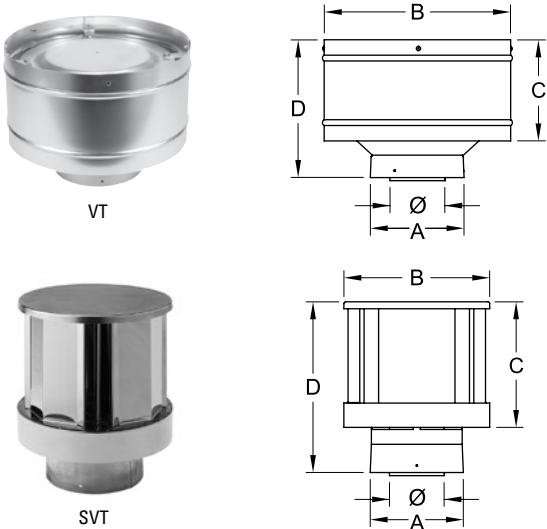


Required when siding is more than 1 1/2" deep. Prevents damage to temperature sensitive siding materials such as vinyl, shakes or shingles. For use with horizontal terminations only.

INCHES

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

Vertical Terminations
(VT, SVT)

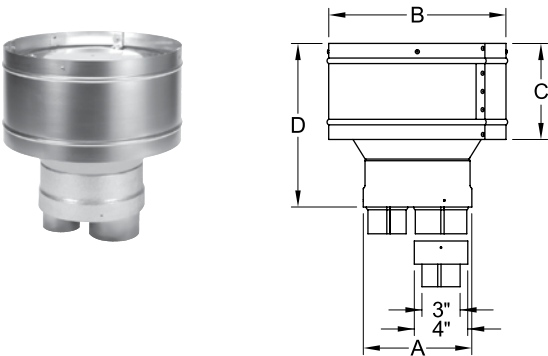


There are two choices in vertical termination, Regular (VT) and Small (SVT). Both caps are designed to work in high wind situations. The SVT cap is made of stainless steel and is welded together to ensure lasting performance.

INCHES

Dimensions				
Ø	VT		SVT	
	4"	5"	4"	5"
A	6 5/8	8	6 5/8	8
B	13 1/2	13 1/2	10 1/2	10 1/2
C	7 1/4	7 1/4	9 1/2	9 1/2
D	9 7/8	10 3/8	12 1/4	12 1/4

Insert Vertical Termination
(IVT)



The Insert Vertical Termination is used as the cap when installing a direct vent system up a masonry chimney. With this termination there is no need to install a co-linear to co-axial termination adapter; the Insert Vertical Termination has one built-in allowing for a lower profile and faster installations. The Masonry Flashing (TF-MF) is used with this application. The Insert Vertical Termination also comes with an adapter so it can be used with appliances that have 3" or 4" flue outlets. Suitable for high wind.

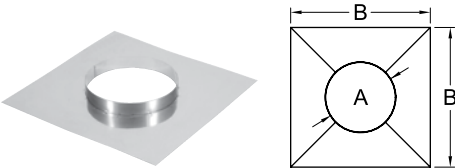
Dimensions		INCHES
A	8 1/8	
B	13 3/8	
C	7 1/4	
D	12 3/8	

Wind / Rain Shield
(SVTS, IVTS)



Optional wind and rain shields are designed to prevent the mixing of gases as a result of wind interference. The SVTS is a cylindrical exterior shield for the SVT cap. The IVTS is a top shield for the VT or IVT cap.

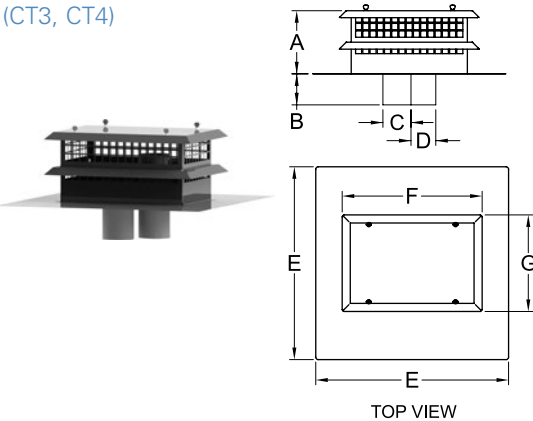
Masonry Chimney Flashing
(MF)



Is designed to be secured to a pre-existing masonry chimney. It is used in conjunction with the Insert Vertical Termination (IVT).

Dimensions		INCHES
	4MF	
A	8	
B	16	

Traditional Co-Linear
Chimney Caps
(CT3, CT4)

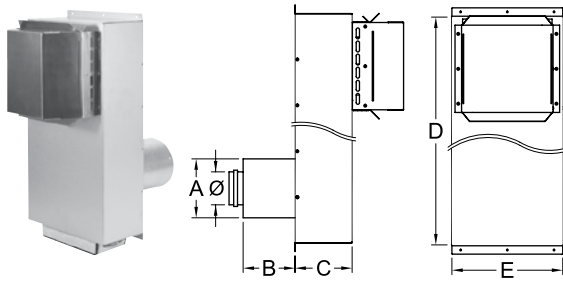


This cap is designed for a direct vent insert installation into a masonry chimney. The cap has a built in flashing that can be adjusted to fit the existing chimney top and is made entirely of stainless steel. For direct vent gas stove installations, see PCT. Made entirely of stainless steel.

Dimensions			INCHES
	CT3	CT4	
A	6 1/2	6 1/2	
B	3 1/4	3 1/4	
C	2 7/8	2 7/8	
D	2 7/8	3 3/4	
E	20	20	
F	14 1/2	14 1/2	
G	10	10	

Snorkel Termination

(ST14, ST36)



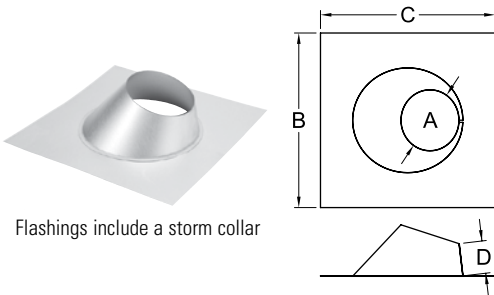
There are two Snorkel Terminations designed for use when a vertical rise is desired on the exterior of the home, or if the installation is below grade.

INCHES

Dimensions				
Ø	ST14		ST36	
	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 there are versions 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

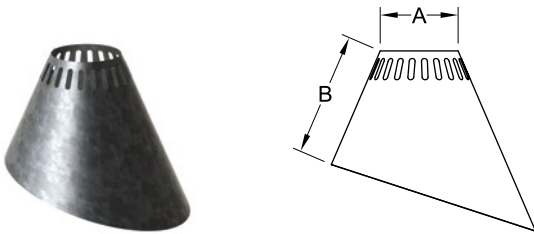
INCHES

Dimensions			
	4F	4FA	4FB
A	7	7	7
B	20	20	22
C	20	20	26
D	8	3 3/4	3 3/4

For 5", use EXCEL flashings 6EF, 6EFA, 6EFB

Metal Roof Flashing Adapter

(MFA, MFB)



Adapts a 6" EXCEL Metal Roof Flashing (6EMFA or 6EMFB) to fit EXCELPellet or EXCELDirect. Does not include a storm collar.

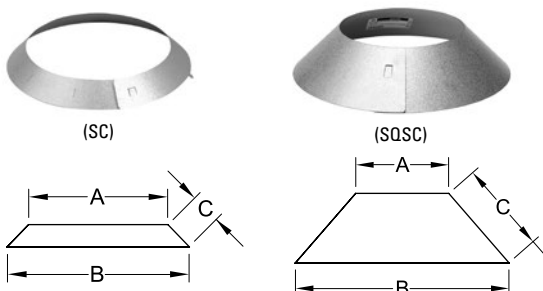
For EXCELDirect installations, cut along the pre-marked line with snips to achieve the appropriate opening size.

INCHES

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

Storm Collars

(SC, SQSC)

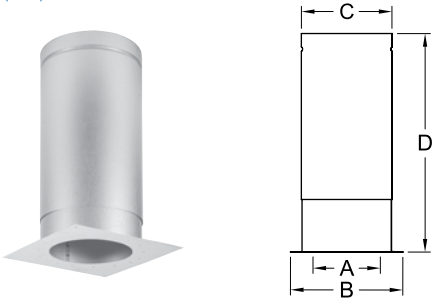


The storm collars fit both 4" x 6 5/8" and 5" x 8" EXCELDirect®. The regular Storm Collar (SC) is required to be used in combination with the Round Support or Attic Radiation Shield to form an attic insulation shield assembly when these components are installed into an insulated space. For square support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

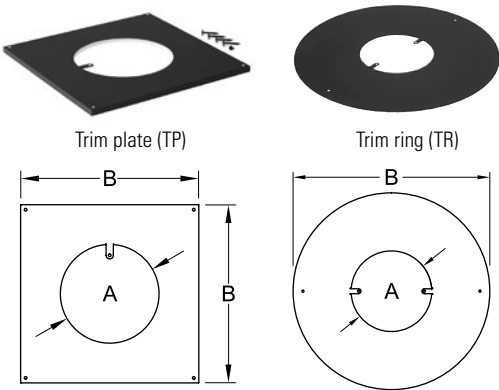
Attic Radiation Shield / Firestop
(AS)



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.

Dimensions			INCHES
	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	

Trim Ring, Trim Plate
(TR, TP)



These Trims 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.

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

Restrictor Disk
(4RD)



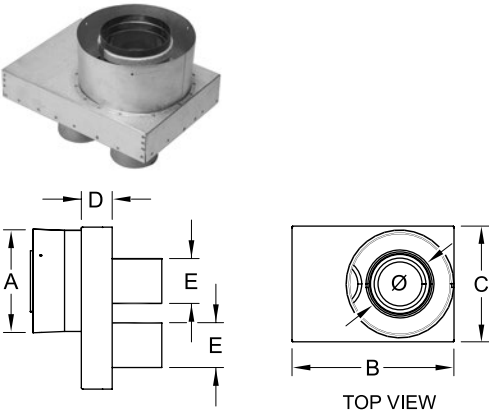
Used only in accordance with specific manufacturer's installation instructions to reduce the flow of combustion air.

Flex Liner Connector 3"
(CFAA3)



Used to join lengths of flex liner together securely and without tearing.

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

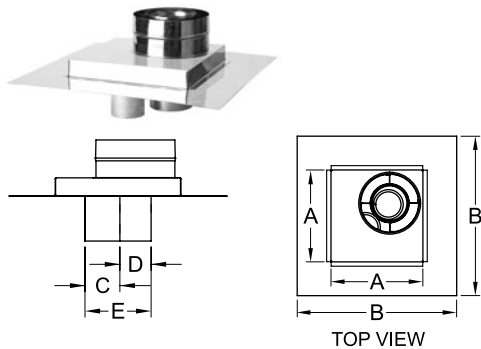


Use with direct vent gas appliances that require 4"x 6 5/8" venting. This part adapts a co-axial flue outlet to a flexible co-linear system to be used in an existing masonry chimney. Used in conjunction with our Insert Vertical Termination (TM-IVT) and includes an adapter for 3" or 4" exhaust. Flexible liners are not provided.

Dimensions		INCHES
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)



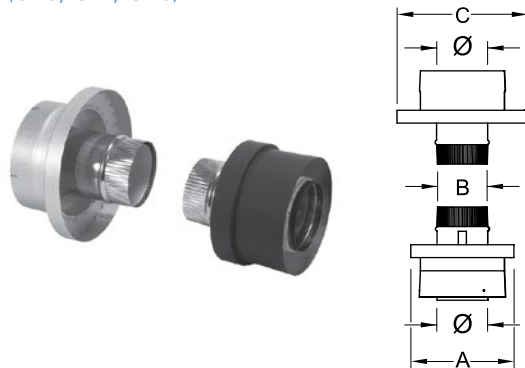
The Co-Linear Termination Adapter is for direct vent systems that are installed in existing masonry chimneys and use two co-linear liners. It is made out of stainless steel and is available with either 3" or 4" exhaust.

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

Type A Chimney Adapter

(CA6, CA7, CA8)



Provides a positive sealed connection between EXCELDirect® and type 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. A 4 inch flexible liner must be run throughout the existing chimney and is not included with the Chimney Adapter. Chimney cap ordered separately.

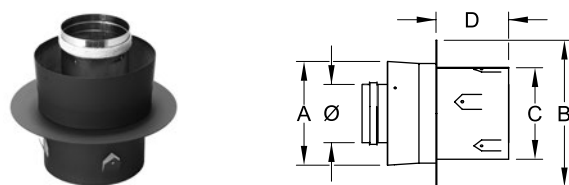
INCHES

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" diameter flex and a termination are required.

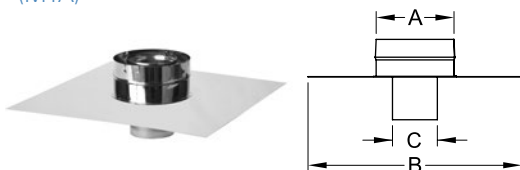
INCHES

Dimensions	
Ø	4"
A	6 5/8
B	9 1/2
C	7 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). The MTA does not include flex and allows for your choice of vertical termination.

INCHES

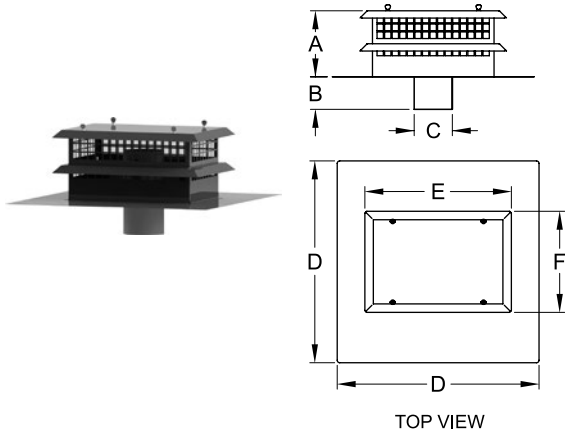
Dimensions	
MTA	
A	6 5/8
B	18
C	4

USA only, not available in Canada

NEW

Traditional Co-Axial Chimney Cap (PCT)

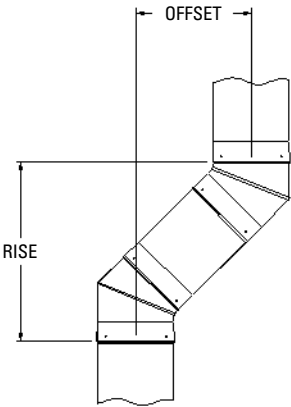
This cap is certified to be used with pellet appliances that are installed in a masonry chimney. It can also be used in the USA for direct vent gas stove installations that use the masonry chimney for fresh air. It is made entirely of stainless steel for superior corrosion resistance and strength.



Dimensions		INCHES
A	6 1/2	
B	3 1/4	
C	3 3/4	
D	20	
E	14 1/2	
F	10	

EXCELDirect® Offset Tables

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



Open Fireplace Chimney Design Considerations

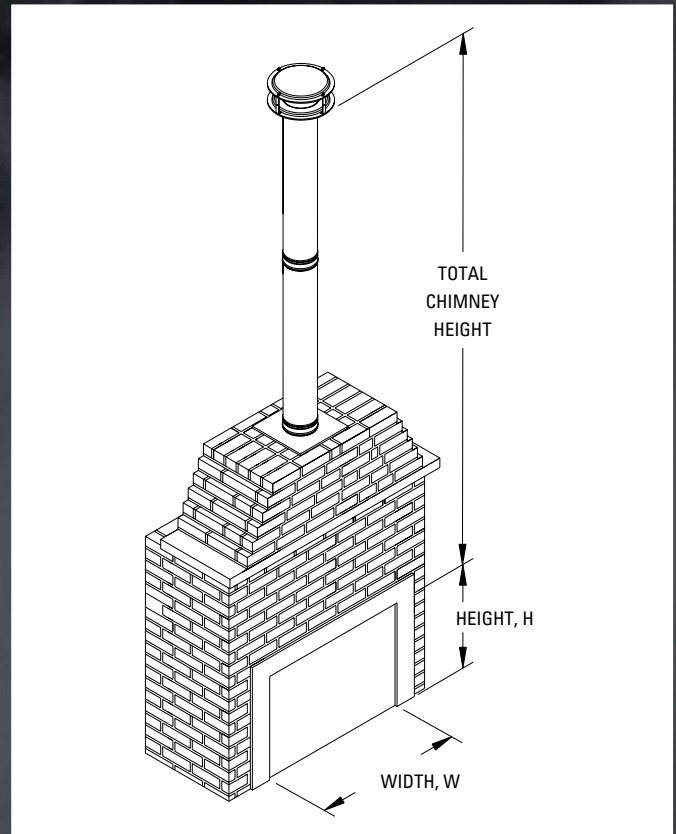
Chimney Sizing and Flue Height

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.

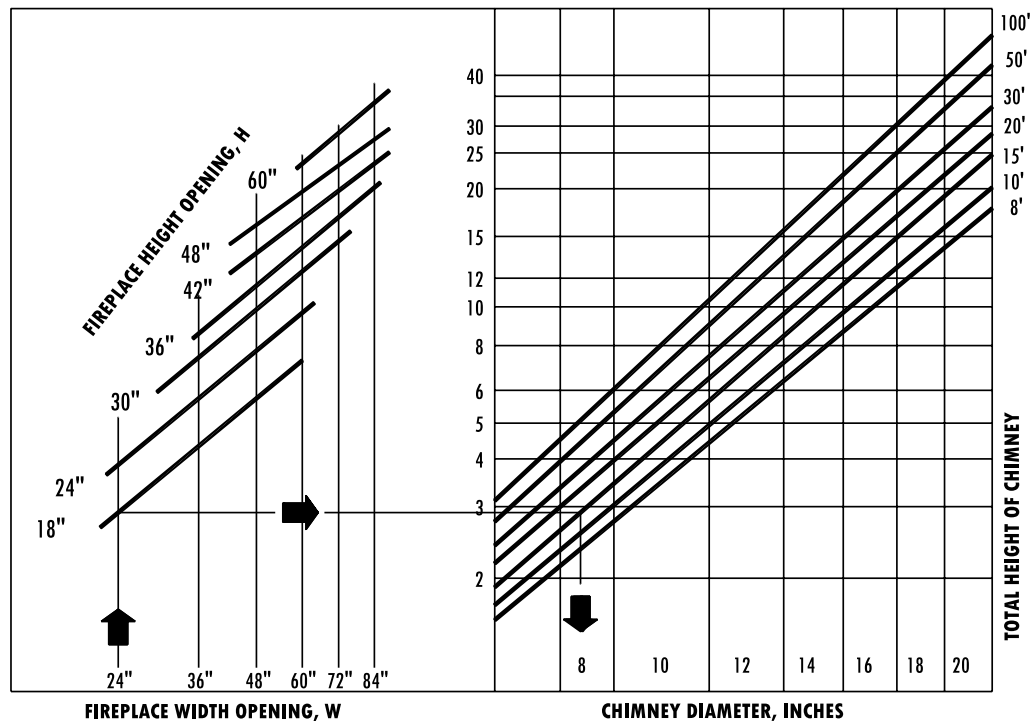
Sizing Fireplace Chimneys

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 1 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)									
Elevation Above Sea Level (feet)	Number of elbows								
	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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WOODBURNING FIREPLACES

RSF Woodburning Fireplaces, a division of ICC, is one of North America's largest manufacturers of clean burning, high efficiency fireplaces. RSF has been designing leading edge woodburning products for over twenty years and manufactures the broadest range of environmentally friendly fireplaces on the market today.



CLEAN DOESN'T MEAN COMPROMISE

Renaissance Fireplaces is a line of high end award winning fireplaces which offer an unmatched view of the fire and very low emissions.

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ICC Chimney engineers a wide range of commercial/industrial chimney systems. We make insulated pressure stacks for applications ranging from forced draft boilers and industrial ovens to diesel engine exhaust systems. ICC can provide complete engineering and design services from preliminary chimney sizing and material specifications to detailed 3D AutoCAD assembly drawings.



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