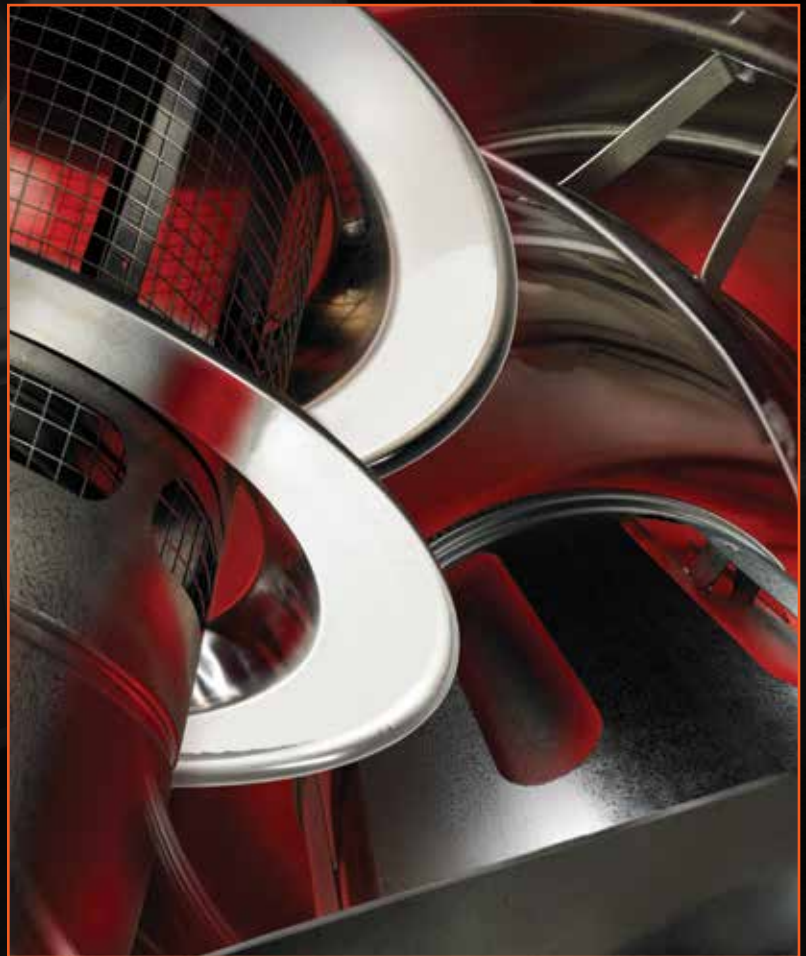


## **DuraChimney® II**

**Air-cooled chimney system for  
masonry fireplaces.**

**UL 103.**



## Specifications

### Applications

DuraChimney II is a double-wall, air-cooled chimney system for use with masonry fireplaces which burn wood, oil, coal, or gas.

### Materials and Construction

.016" 430 stainless steel inner wall and .021" galvanized steel outer wall. For stainless steel outer wall, contact Customer Service for a quote.

Unitized pipe sections. No field assembly of inners and outers required.

### Clearances

2" clearance to combustibles.

### Shrouds

UL Listed with DuraVent shroud specifications. Information available online at [www.duravent.com](http://www.duravent.com) or call and request L181.

### Diameters

10", 12", 14", and 16".

### Listings

UL Listed to UL 103 and ULC S604 standards (MH7399).



## UL 103 and ULC S604 System

### DuraChimney® II

DuraChimney II is an exceptional factory-built alternative to pre-fabricated masonry chimneys. DuraChimney II is a unitized, lightweight design which eliminates the need for field assembly of pipe sections, allowing for faster installation.

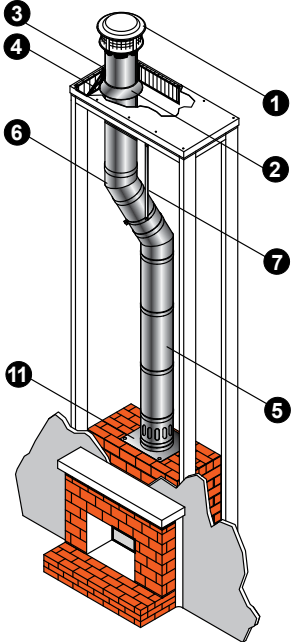
DuraChimney II is designed to stay cool on the outside, to provide a hot draft on the inside and to provide a fire-safe design that protects both the chimney and the building.

The double-wall, air-cooled design allows the chimney to expand both radially and lengthwise under high temperatures.

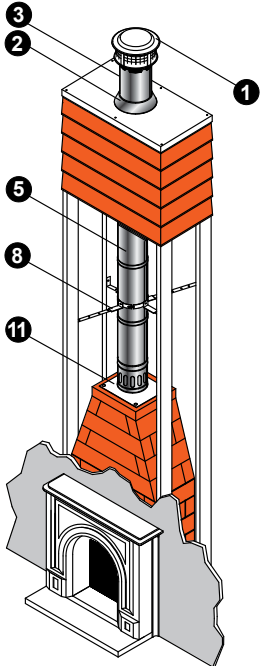
DuraChimney II is tested and listed for continuous operation at 1000°F flue gas temperatures, one hour at 1400°F and ten-minutes at 1700°F, in accordance with the UL 103 test standard.



### Typical Installations



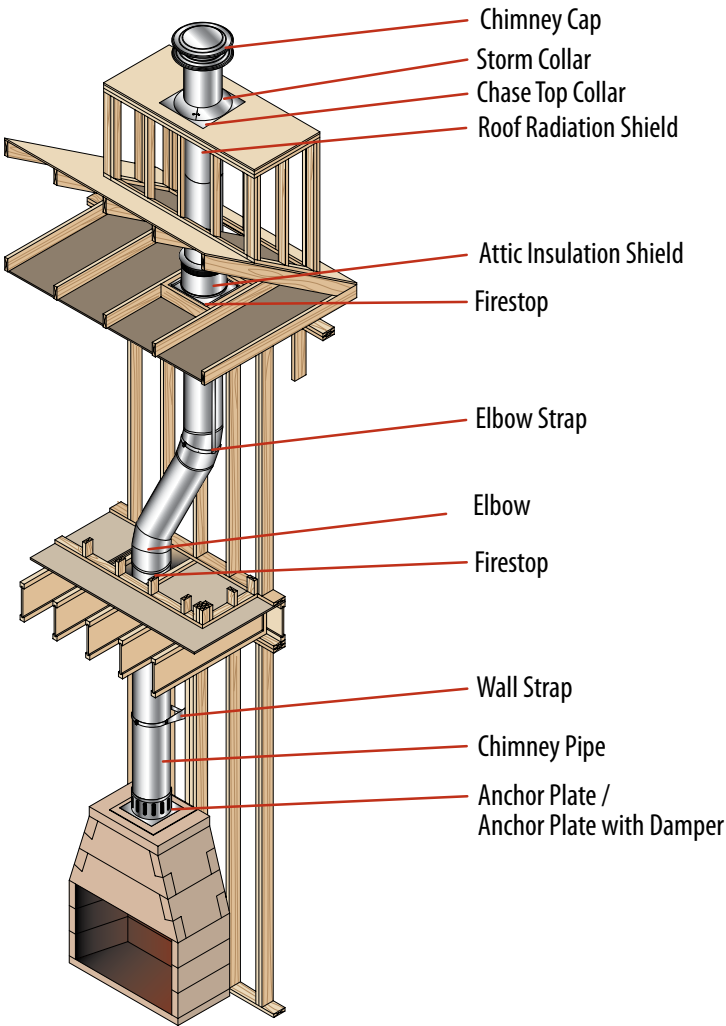
Masonry Firebox with Metal Chimney



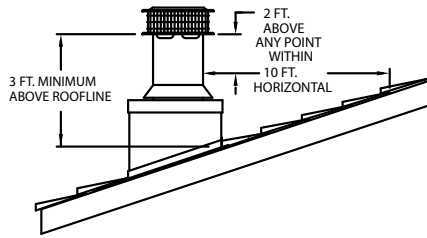
Prefabricated Masonry Fireplace Kit with Metal Chimney

Installation Key			
1	Chimney Cap	8	Stabilizer
2	Storm Collar	9	Firestop
3	Chase Top Flashing	10	Attic Insulation Shield
4	Roof Radiation Shield	11	Anchor Plate/ Anchor Plate with Damper
5	Chimney Section	12	Supplementary Support
6	Elbow	13	Wall Strap
7	Elbow Strap		

Refer to our Typical Installation drawings to select the appropriate component parts for your installation.



## Planning Your Installation



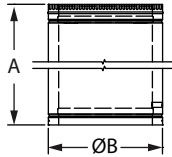
**Figure 1**

The following recommendations are a general guideline to assist in the layout and selection of the chimney components needed for your installation. Always follow DuraVent Installation instructions enclosed with the cap or support box before installing your chimney system. Installation instructions can be viewed online at [www.duravent.com](http://www.duravent.com), under catalogs and instructions.

- Measure the diameter of the fireplace flue outlet. An improperly sized chimney results in poor draft and excessive creosote formation.
- Select the chimney with the same size diameter as the fireplace flue outlet. Refer to the chimney sizing chart in the back of this catalog for masonry fireplaces.
- Install the chimney in an enclosed chase.
- If possible, avoid offsets. A straight vertical installation is more efficient and less likely to develop creosote. If an offset is required to avoid rafters or other obstructions, measure the horizontal distance required and the vertical height available. Both 15° and 30° elbows are available. Elbows greater than 30° are not allowed in the United States. One offset (two elbows) in a single installation is permitted. Refer to the offset chart in the back section of this catalog. At least one Elbow Strap is required. Elbow Straps ensure adequate support.
- Determine the minimum chimney height above the roof line. Building codes require a minimum of 3' above the roof penetration and at least 2' higher than any portion of a building within 10'. See figure 1. The termination cap is installed above that point.
- Chase Top Flashing is available. A pitched roof flashing can be locally made, if required. A storm collar is required for all installations using a flashing.
- Determine the total length of chimney required for the installation. To calculate the installed per length of 10"-16" DuraChimney II pipe, subtract 1" per joint. Minimum recommended chimney height, at sea level of straight vertical chimney, is 10' to 15' above the fireplace outlet. Higher elevations, or the use of elbows, will require approximately 30% to 60% more height to provide for an adequate draft.
- For a UL approved shroud, see the DuraChimney II Shrouds Installation Instructions (L181). View online at [www.duravent.com](http://www.duravent.com), under catalogs and instructions.
- Be fire safe. Maintain at least 2" clearance to combustibles. Follow local building codes and have your chimney inspected by a certified professional.



## Chimney Pipe

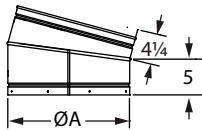


DuraChimney II pipe is available in 12", 18", 36", and 48" lengths. To calculate the installed length of DuraChimney II pipe, subtract 1" from each length of chimney pipe.

For stainless steel outer wall, call Customer Service for quote and part number. DuraChimney II is built to order and is not returnable.

SIZE	ORDER #	STOCK #	A	B
10"	10DCA-12	810000781	12"	13"
10"	10DCA-18	810000782	18"	13"
10"	10DCA-36	810000783	36"	13"
10"	10DCA-48	810000784	48"	13"
12"	12DCA-12	810000803	12"	15"
12"	12DCA-18	810000804	18"	15"
12"	12DCA-36	810000805	36"	15"
12"	12DCA-48	810000806	48"	15"
14"	14DCA-12	810000824	12"	17"
14"	14DCA-18	810000825	18"	17"
14"	14DCA-36	810000826	36"	17"
14"	14DCA-48	810000827	48"	17"
16"	16DCA-12	810000845	12"	19"
16"	16DCA-18	810000846	18"	19"
16"	16DCA-36	810000847	36"	19"
16"	16DCA-48	810000848	48"	19"

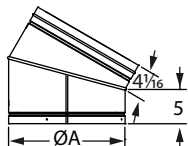
## 15° Elbow



Use elbows to offset obstructions such as rafters, ridgepoles, or joists. 10" - 16" DuraChimney II may have two pair of elbows, if needed. Offsets greater than 30° are not allowed. Elbows are not adjustable.

SIZE	10"	12"	14"	16"
A	13"	15"	17"	19"
ORDER #	10DCA-E15	12DCA-E15	14DCA-E15	16DCA-E15
STOCK #	810000785	810000807	810000828	810000849

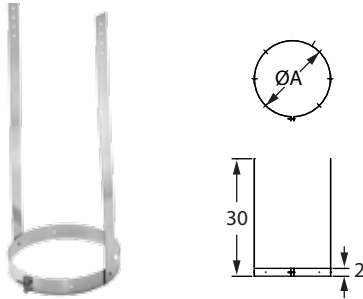
## 30° Elbow



Use elbows to offset obstructions such as rafters, ridgepoles, or joists. 10" - 16" DuraChimney II may have two pair of elbows, if needed. Offsets greater than 30° are not allowed. Elbows are not adjustable.

SIZE	10"	12"	14"	16"
A	13"	15"	17"	19"
ORDER #	10DCA-E30	12DCA-E30	14DCA-E30	16DCA-E30
STOCK #	810000786	810000808	810000829	810000850

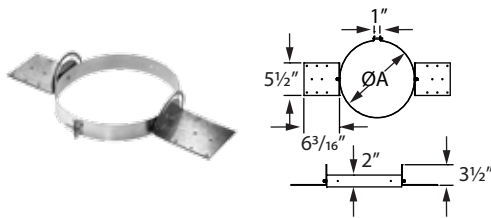
### Elbow Strap



Use between two elbows to support the weight of the chimney.

SIZE	10"	12"	14"	16"
A	13 3/8"	15 3/8"	17 3/8"	19 3/8"
ORDER #	10DCA-ES	12DCA-ES	14DCA-ES	16DCA-ES
STOCK #	810000787	810000809	810000830	810000851

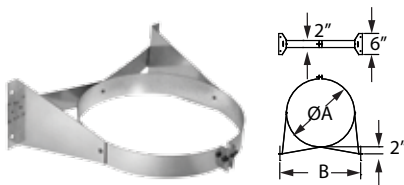
### Supplementary Support



Use to help support weight of DuraChimney II. Supports a maximum of 25' of chimney. Use additional Supplementary Supports as needed.

SIZE	10"	12"	14"	16"
A	13 3/8"	15 3/8"	17 3/8"	19 3/8"
ORDER #	10DCA-SS	12DCA-SS	14DCA-SS	16DCA-SS
STOCK #	810000788	810000810	810000831	810000852

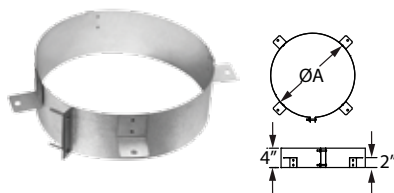
### Wall Strap



Use to support and to stabilize the chimney in interior or exterior installations to ensure a 2" clearance. Wall Straps are required every 8' on exterior of building only.

SIZE	10"	12"	14"	16"
A	13 3/8"	15 3/8"	17 3/8"	19 3/8"
B	15 15/16"	18 1/8"	20 3/8"	22 1/16"
ORDER #	10DCA-WS	12DCA-WS	14DCA-WS	16DCA-WS
STOCK #	810000800	810000821	810000842	810000863

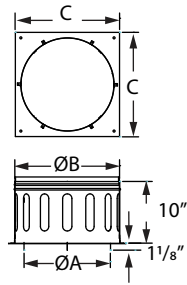
### Stabilizer



Use to hold DuraChimney II in place. Use inside chase enclosures to stabilize chimney installation. Refer to fireplace manufacturer for additional requirements on use of Stabilizer.

SIZE	10"	12"	14"	16"
A	13 3/8"	15 3/8"	17 3/8"	19 3/8"
ORDER #	10DCA-ST	12DCA-ST	14DCA-ST	16DCA-ST
STOCK #	810000789	810000813	810000832	810000853

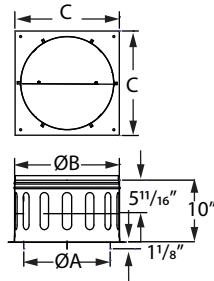
### Anchor Plate



Use as a starter section for DuraChimney II. Bolts directly to fireplace outlet.

SIZE	10"	12"	14"	16"
A	10"	12"	14"	16"
B	13"	15"	17"	19"
C	15"	17"	19"	21"
ORDER #	10DCA-AP	12DCA-AP	14DCA-AP	16DCA-AP
STOCK #	810000790	810000811	810000833	810000854

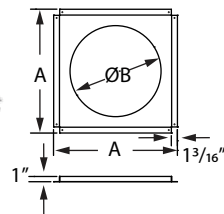
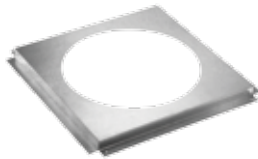
### Anchor Plate w/ Damper



Use as a starter section for DuraChimney II. Bolts directly to fireplace outlet. Damper section allows chimney to be closed when fireplace is not in use. Includes chain and lintel hook.

SIZE	10"	12"	14"	16"
A	10"	12"	14"	16"
B	13"	15"	17"	19"
C	15"	17"	19"	21"
ORDER #	10DCA-APD	12DCA-APD	14DCA-APD	16DCA-APD
STOCK #	810000791	810000812	810000834	810000855

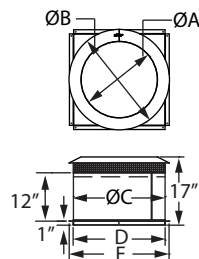
### Firestop



Use in ceiling/floor penetrations above fireplace. Firestop is not required when passing through the roof. Fits on underside of ceiling.

SIZE	10"	12"	14"	16"
A	19 5/8"	21 3/8"	23 5/8"	25 5/8"
B	13 3/8"	15 3/8"	17 3/8"	19 3/8"
ORDER #	10DCA-FS	12DCA-FS	14DCA-FS	16DCA-FS
STOCK #	810000792	810000814	810000835	810000856

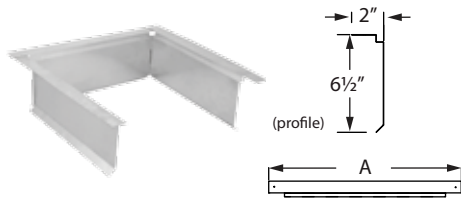
### Attic Insulation Shield



Use in all installations that pass through an attic to prevent insulation and debris from accumulating near the chimney, unless chimney is enclosed through attic. Consists of two parts – collar and base.

SIZE	10"	12"	14"	16"
A	13"	15"	17"	19"
B	17"	19"	21"	29"
C	16 13/16"	18 13/16"	20 13/16"	22 13/16"
D	16 7/8"	18 7/8"	20 7/8"	22 7/8"
E	18 13/16"	20 13/16"	22 13/16"	24 13/16"
ORDER #	10DCA-IS	12DCA-IS	14DCA-IS	16DCA-IS
STOCK #	810000793	810000815	810000836	810000857

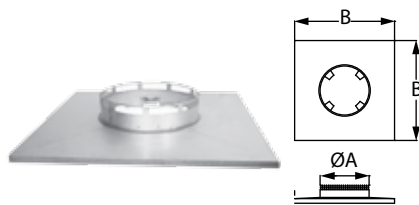
### Roof Radiation Shield



Required at top of chase enclosure or where chimney passes through the roof. Roof Radiation Shield is not required if chimney is unenclosed in the attic. Four plates (included) make up one shield. Three of the four plates shown.

SIZE	10"	12"	14"	16"
A	20"	22"	24"	26"
ORDER #	10DCA-RRS	12DCA-RRS	14DCA-RRS	16DCA-RRS
STOCK #	810000794	810000816	810000837	810000858

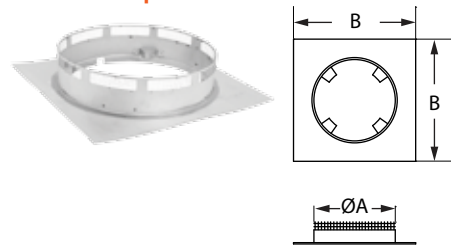
### Chase Top Flashing



Encloses the top of a chase while providing a ventilation air passage to the chase. Includes spacer clips.

SIZE	10"	12"	14"	16"
A	16"	18"	20"	22"
B	20"	36"	38"	40"
ORDER #	10DCA-CTF	12DCA-CTF	14DCA-CTF	16DCA-CTF
STOCK #	810000795	810000817	810000838	810000859

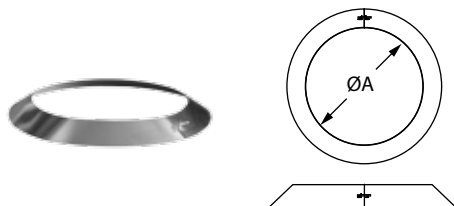
### Chase Top Collar



Use to construct custom sized chase tops. Provides necessary ventilation and spacing to maintain UL listing for chimney system.

SIZE	10"	12"	14"	16"
A	16"	18"	20"	22"
B	20"	22"	24"	26"
ORDER #	10DCA-CTC	12DCA-CTC	14DCA-CTC	16DCA-CTC
STOCK #	810000796	810000818	810000839	810000860

### Storm Collar

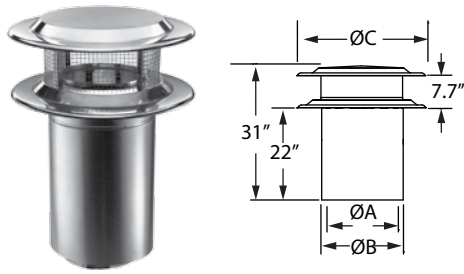


Use to help prevent rain from entering chase. Use with a flashing and Chimney Cap.

SIZE	10"	12"	14"	16"
A	13"	15"	17"	19"
ORDER #	10DCA-SC	12DCA-SC	14DCA-SC	16DCA-SC
STOCK #	810000798	810000820	810000841	810000862



### Chimney Cap

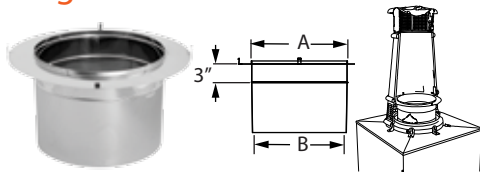


Use to terminate chimney system. Required on all installations. Slides over previous section of DuraChimney II pipe to allow for chimney height adjustment. Includes Spark Arrestor.

For stainless steel outer wall, call Customer Service. DuraChimney II is built to order and is not returnable.

SIZE	10"	12"	14"	16"
A	10"	12"	14"	16"
B	13"	15"	17"	19"
C	24"	24"	26"	26"
ORDER #	10DCA-VC	12DCA-VC	14DCA-VC	16DCA-VC
STOCK #	810000797	810000819	810000840	810000861

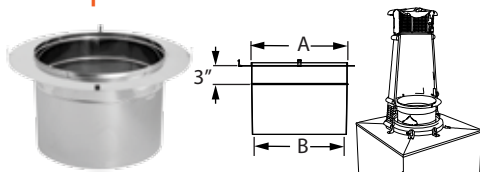
### European Copper Adapter - King Model



Use for installing the European Copper Chimney Pots King model shroud/pot onto DuraChimney II chimney.

SIZE	10"	12"	14"
A	10"	12"	14"
B	9 1/2"	11 1/2"	13 1/2"
ORDER #	10DCA-ECK	12DCA-ECK	14DCA-ECK
STOCK #	810000801	810000822	810000843

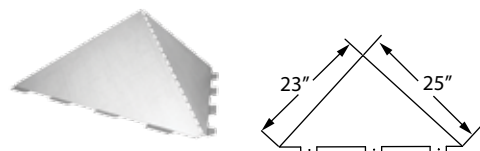
### European Copper Adapter - Bishop Model



Use for installing the European Copper Chimney Pots Bishop model shroud/pot onto DuraChimney II chimney. King model shown.

SIZE	10"	12"	14"	16"
A	10"	12"	14"	16"
B	9 1/2"	11 1/2"	13 1/2"	15 1/2"
ORDER #	10DCA-ECB	12DCA-ECB	14DCA-ECB	16DCA-ECB
STOCK #	810000802	810000823	810000844	810000864

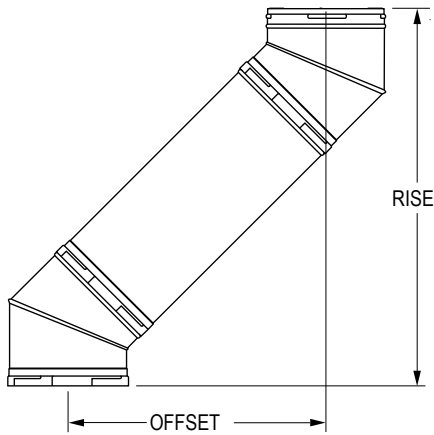
### Snow Splitter



Use to divert snow around chimney, vent, and roof flashing. Constructed of paintable galvanized material. Ships flat for easy assembly.

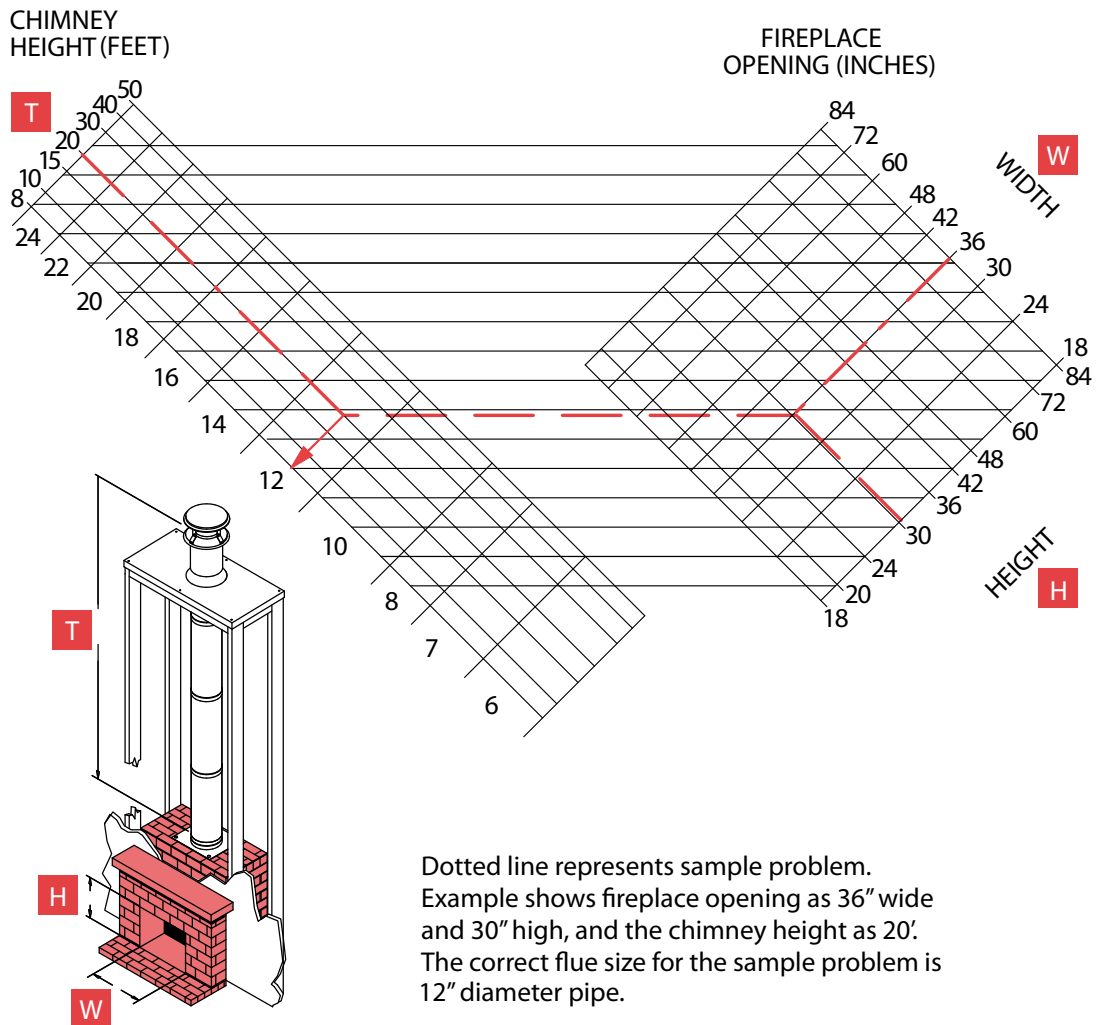
SIZE	6"
ORDER #	6DT-SP
STOCK #	810000139

### Elbow Offset Chart



Elbow Angle From Vertical	Chimney Length Between Elbows	Size 10" I.D.		Size 12" I.D.		Size 14" I.D.		Size 16" I.D.	
		Offset Inches	Rise Inches	Offset Inches	Rise Inches	Offset Inches	Rise Inches	Offset Inches	Rise Inches
15°	0"	2 1/16"	20 5/8"	2 5/8"	21 3/8"	2 5/8"	21 5/8"	2 3/4"	21 1/8"
15°	12"	5 3/8"	31 1/4"	5 1/2"	31 3/4"	5 1/2"	32 1/4"	5 5/8"	32 3/4"
15°	18"	7"	37"	7"	37 1/2"	7 1/8"	38"	7 1/8"	36 1/2"
15°	36"	11 5/8"	54 1/2"	11 5/8"	55"	11 3/4"	55 3/8"	11 3/4"	55 7/8"
15°	48"	14 3/4"	66"	14 3/4"	66 1/2"	14 7/8"	67"	14 7/8"	67 1/2"
30°	0"	5 3/4"	22 3/8"	6"	22 3/8"	6 1/4"	24 1/2"	6 5/8"	25 1/2"
30°	12"	11 1/4"	32"	11 1/2"	33"	11 3/4"	34"	12"	35 1/2"
30°	18"	14 1/4"	37 1/8"	14 1/2"	38 1/8"	14 3/4"	39 1/4"	15"	40 5/8"
30°	36"	23 1/4"	52 3/4"	23 1/2"	53 3/4"	23 3/4"	54 7/8"	24"	56 1/4"
30°	48"	29 1/4"	63 1/8"	29 1/2"	64 1/8"	29 3/4"	65 1/4"	30"	66 5/8"

### Chimney Sizing Chart for Fireplace Installations



Dotted line represents sample problem. Example shows fireplace opening as 36" wide and 30" high, and the chimney height as 20'. The correct flue size for the sample problem is 12" diameter pipe.