



DURACHIMNEY® II

Simpson Dura-Vent
Engineered Excellence

SIMPSON
Dura-Vent

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

Clearances

2" clearance to combustibles.

Shrouds

UL Listed with Simpson Dura-Vent shroud specifications. Information available online at 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) (Stainless steel outer wall required for installation in Canada.)



UL 103 System

DuraChimney II

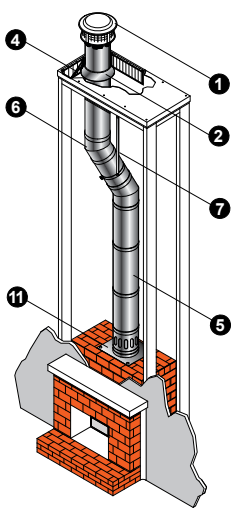
DuraChimney II is an exceptional factory-built alternative to pre-fabricated masonry chimneys. DuraChimney II is a unitized, lightweight design which eliminates the need for field assembly of pipe sections, allowing for faster installation.

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.

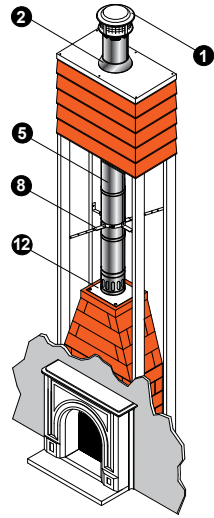
The double-wall, air-cooled design allows the chimney to expand both radially and lengthwise under high temperatures.



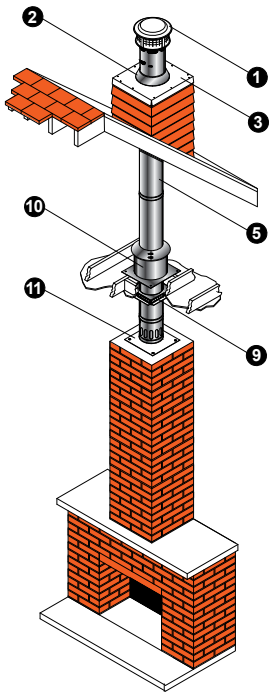
Typical Installations



Masonry Firebox with Metal Chimney Extension



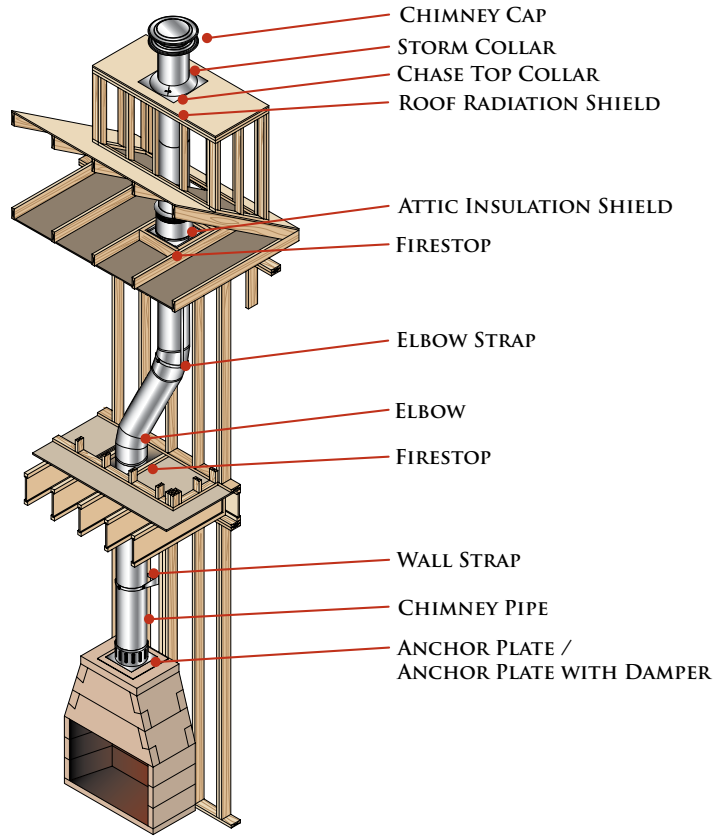
Prefabricated Masonry Fireplace Kit with Metal Chimney



2nd Story Masonry Fireplace Chimney Extension

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
5	Chimney Section	12	Anchor Plate with Damper
6	Elbow	13	Supplementary Support
7	Elbow Strap	14	Wall Strap

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



Planning Your Installation

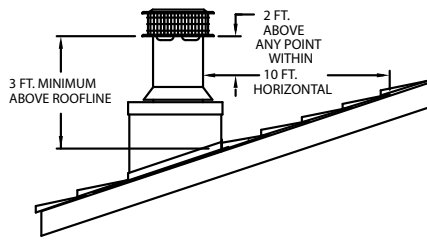
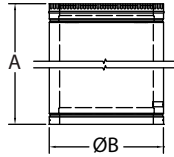


Figure 1

The following recommendations are intended as a general guideline to assist in the layout and selection of the chimney components needed for your installation. Always read and follow Simpson Dura-Vent Installation instructions enclosed with the cap or support box before installing your chimney system. Installation instructions can be viewed online at 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, 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

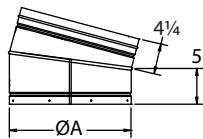


DuraChimney II pipe is available in 12", 18", 36", and 48" lengths. To calculate the installed length of DuraChimney II pipe, subtract 1" from each length of chimney pipe.

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

SIZE	STOCK #	A	B
10"	10DCA-12	12"	13"
10"	10DCA-18	18"	13"
10"	10DCA-36	36"	13"
10"	10DCA-48	48"	13"
12"	12DCA-12	12"	15"
12"	12DCA-18	18"	15"
12"	12DCA-36	36"	15"
12"	12DCA-48	48"	15"
14"	14DCA-12	12"	17"
14"	14DCA-18	18"	17"
14"	14DCA-36	36"	17"
14"	14DCA-48	48"	17"
16"	16DCA-12	12"	19"
16"	16DCA-18	18"	19"
16"	16DCA-36	36"	19"
16"	16DCA-48	48"	19"

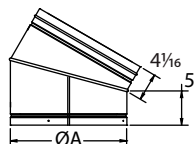
15° Elbow



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

SIZE	STOCK #	A
10"	10DCA-E15	13"
12"	12DCA-E15	15"
14"	14DCA-E15	17"
16"	16DCA-E15	19"

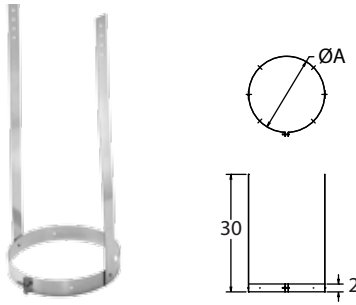
30° Elbow



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

SIZE	STOCK #	A
10"	10DCA-E30	13"
12"	12DCA-E30	15"
14"	14DCA-E30	17"
16"	16DCA-E30	19"

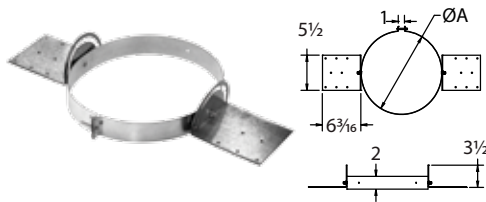
Elbow Strap



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

SIZE	STOCK #	A
10"	10DCA-ES	13 3/8"
12"	12DCA-ES	15 3/8"
14"	14DCA-ES	17 3/8"
16"	16DCA-ES	19 3/8"

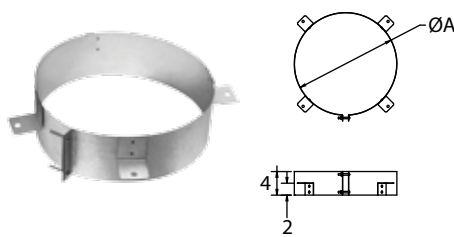
Supplementary Support



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

SIZE	STOCK #	A
10"	10DCA-SS	13 3/8"
12"	12DCA-SS	15 3/8"
14"	14DCA-SS	17 3/8"
16"	16DCA-SS	19 3/8"

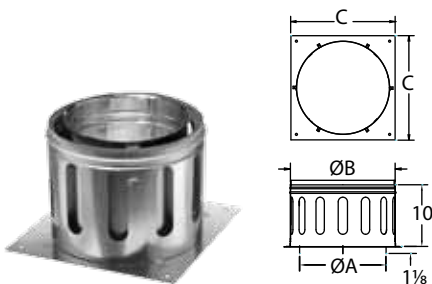
Stabilizer



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	STOCK #	A
10"	10DCA-ST	13 3/8"
12"	12DCA-ST	15 3/8"
14"	14DCA-ST	17 3/8"
16"	16DCA-ST	19 3/8"

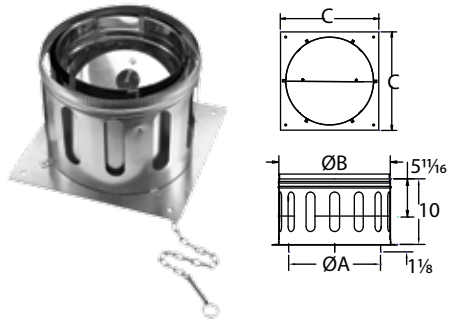
Anchor Plate



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

SIZE	STOCK #	A	B	C
10"	10DCA-AP	10"	13"	15"
12"	12DCA-AP	12"	15"	17"
14"	14DCA-AP	14"	17"	19"
16"	16DCA-AP	16"	19"	21"

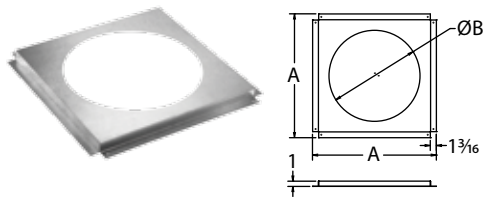
Anchor Plate w/Damper



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	STOCK #	A	B	C
10"	10DCA-APD	10"	13"	15"
12"	12DCA-APD	12"	15"	17"
14"	14DCA-APD	14"	17"	19"
16"	16DCA-APD	16"	19"	21"

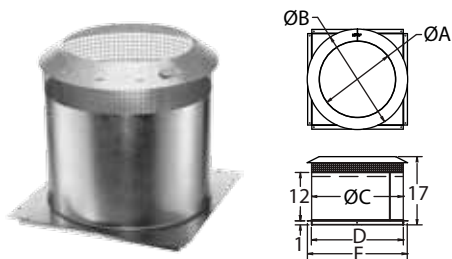
Firestop



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

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

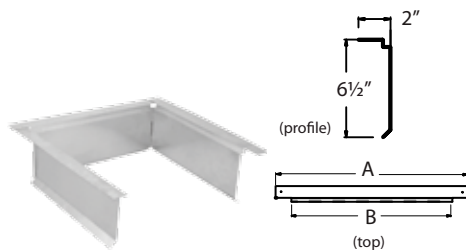
Attic Insulation Shield



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

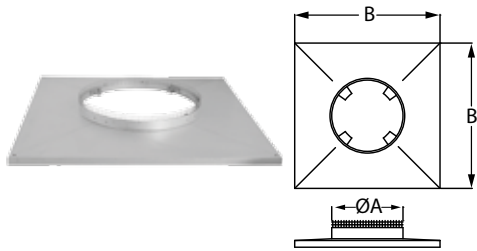
Roof Radiation Shield



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	STOCK #	A
10"	10DCA-RRS	20"
12"	12DCA-RRS	22"
14"	14DCA-RRS	24"
16"	16DCA-RRS	26"

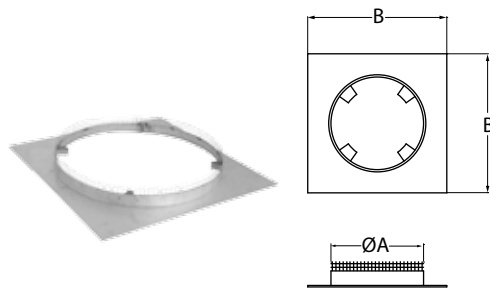
NEW
Chase Top Flashing



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

SIZE	STOCK #	A	B
10"	10DCA-CTF	16"	34"
12"	12DCA-CTF	18"	36"
14"	14DCA-CTF	20"	38"
16"	16DCA-CTF	22"	40"

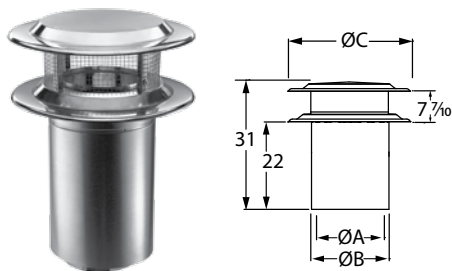
NEW
Chase Top Collar



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

SIZE	STOCK #	A	B
10"	10DCA-CTC	16"	20"
12"	12DCA-CTC	18"	22"
14"	14DCA-CTC	20"	24"
16"	16DCA-CTC	22"	26"

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. Shown with optional Spark Arrestor screen.

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

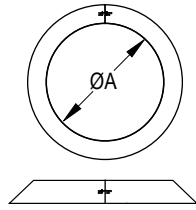
NEW
Spark Arrestor



Use on inside of cap. Optional Spark Arrestor may be required.

SIZE	STOCK #
10" - 12"	10DCA-SA
14" - 16"	14DCA-SA

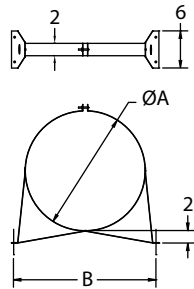
Storm Collar



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

SIZE	STOCK #	A
10"	10DCA-SC	13"
12"	12DCA-SC	15"
14"	14DCA-SC	17"
16"	16DCA-SC	19"

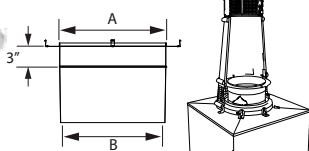
Wall Strap



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	STOCK #	A	B
10"	10DCA-WS	13 3/8"	15 15/16"
12"	12DCA-WS	15 3/8"	18 1/8"
14"	14DCA-WS	17 3/8"	20 3/8"
16"	16DCA-WS	19 3/8"	22 1/16"

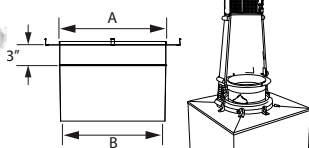
NEW European Copper Adapter - King Model



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

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

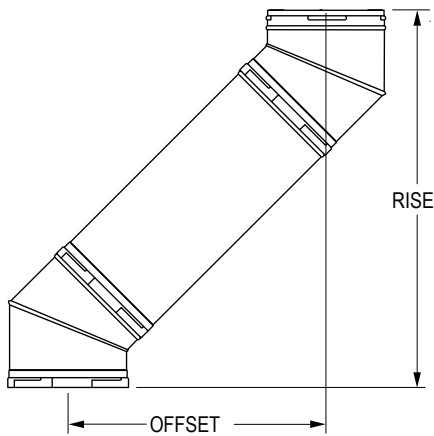
NEW European Copper Adapter - Bishop Model



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

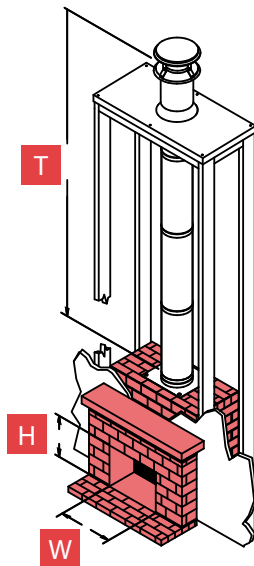
SIZE	STOCK #	A	B
10"	10DCA-ECB	10"	9 1/2"
12"	12DCA-ECB	12"	11 1/2"
14"	14DCA-ECB	14"	13 1/2"
16"	16DCA-ECB	16"	15 1/2"

Elbow Offset Chart

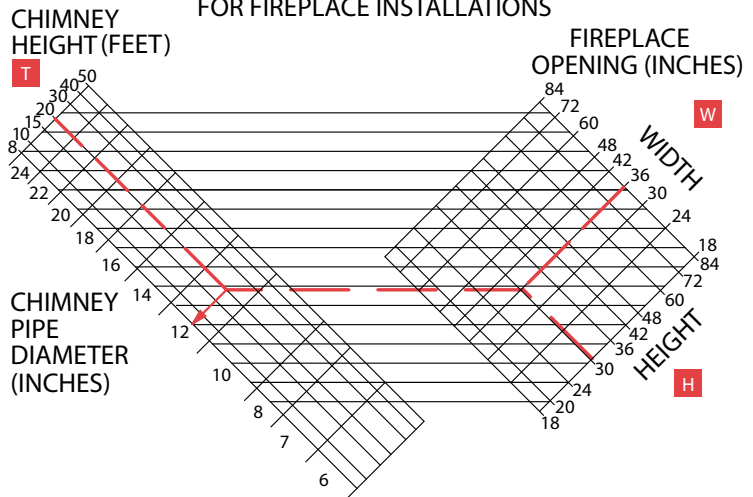


Elbow Angle From Vertical	Chimney Length Between Elbows	Size 10" I.D.		Size 12" I.D.		Size 14" I.D.		Size 16" I.D.	
		Offset Inches	Rise Inches	Offset Inches	Rise Inches	Offset Inches	Rise Inches	Offset Inches	Rise Inches
15°	0"	2 1/16"	20 5/8"	2 5/8"	21 5/8"	2 5/8"	21 5/8"	2 3/4"	21 1/8"
15°	12"	5 3/8"	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"

Sizing Chart



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.