

INSTALLATION AND
MAINTENANCE INSTRUCTIONS
FOR



HOMESAVER[®]
ULTRAPRO[™]

FLEXIBLE STAINLESS STEEL RELINING PIPE



UL LISTED

**Lifetime
Warranty**

UL Listed Sizes: 5" – 8" diameters

Manufactured Exclusively for: Copperfield Chimney Supply, Inc.,
304 South 20th Street, Fairfield, IA 52556

INTRODUCTION

HomeSaver® UltraPro™ flexible stainless steel relining pipe is intended for use in conjunction with residential heating appliances which burn wood, wood pellets, coal, oil, or any Category I LP or natural gas appliances, and gas logs installed in a fireplace. HomeSaver UltraPro can be installed in masonry or certain factory-built chimneys.

HomeSaver UltraPro relining pipe is a high-quality, patented, flexible, stainless steel lining system. It has been tested and listed by Underwriters Laboratories, file #MH13768. HomeSaver UltraPro is made of high-quality, 316 Ti-alloy stainless steel. This maintains the corrosion resistance while also giving the benefits of high heat resistance.

HomeSaver UltraPro is a corrugated liner with a unique mechanical, roll lock seam. These seams are gas tight and hold tight no matter how much you bend or shape them (Figure 1).

HomeSaver requires that an experienced professional who works with chimneys on a regular basis perform the installation of HomeSaver UltraPro relining pipe. HomeSaver UltraPro is tested and

listed to the UL 1777 Standard which requires insulation for wood and coal appliances.

HomeSaver's commitment to providing a product of superior quality is reflected in its obtaining the UL Listing. The testing is very stringent, and UL ensures consistency of the product by regularly inspecting the manufacturing facility and materials. This commitment is also reflected in HomeSaver's excellent warranty.

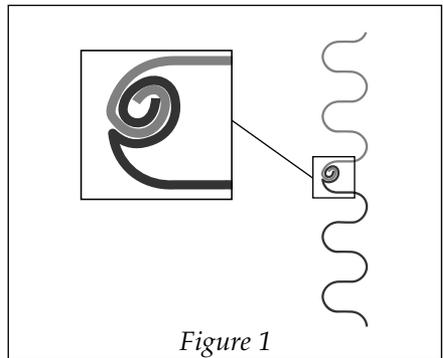


Figure 1

SECTION 1

How To Determine If A Reline Is Needed

A reline is advisable when:

- The chimney has missing or damaged flue tiles or mortar is missing between flue tiles.
- A chimney is exposed on at least one side to the outside below the roofline and the flue area exceeds two times the area of the appliance flue collar.
- A chimney with no sides exposed to the outdoors below the roofline has a flue area exceeding three times the area of the flue collar.
- Deemed necessary by the appliance manufacturer.
- Deemed necessary according to the NFPA 31 Oil Standard or the NFPA 54 Fuel Gas Code Book or your local codes or authority bearing jurisdiction.
- The system has a history of repeated excessive creosote and/or moisture buildup.

SECTION 2

Important Code And Safety Considerations

CHIMNEY HEIGHT

The National Fire Protection Association Standard 211 requires that the chimney extend at least 3' above the highest point where it passes through the roof and at least 2' higher than any structure within 10' (Figure 2).

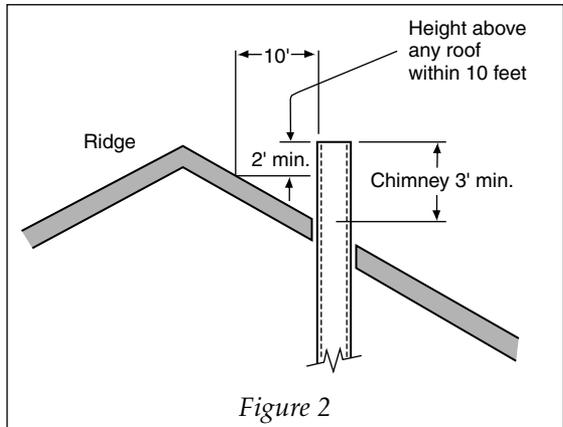


Figure 2

CLEARANCES

Airspace clearances between the chimney exterior and combustible materials should be checked to verify whether the chimney is in accordance with the clearance specifications contained in:

1. NFPA 211
2. Other recognized major building codes
3. These instructions
4. Factory-built chimney manufacturer's instructions

NFPA 211 states that the minimum airspace clearance between exterior masonry chimneys (which have the chimney completely outside the exterior wall of the building, excluding the soffit or cornice area) and combustible material shall be at least 1".

NFPA 211 states that the minimum airspace clearance between interior masonry chimneys (which have any portion of the chimney located within the exterior wall of the building) and combustible materials shall be at least 2". The airspace shall not be filled.

CONNECTING OTHER APPLIANCES

Use of this liner is approved for wood, wood pellets, coal, or oil, any Category I LP or natural gas appliances, and gas logs installed in a fireplace. However, remember:

You cannot connect gas or oil appliances to a liner serving solid fuel-burning appliances. You cannot connect more than one, solid fuel-burning appliance to a single liner.

SECTION 3

Determining The Materials You Need

1. WHAT SIZE OF HOMESAVER ULTRAPRO LINER TO USE

For solid fuels, the cross-sectional area shall not be less than the area of the appliance flue collar unless specified in the manufacturer's instructions. Please refer to the chart in Figure 3, next page, which gives the cross-sectional areas for 5" – 8" HomeSaver UltraPro. When using HomeSaver UltraPro to vent a fireplace (Figure 4, next page), if the chimney is straight and you are using a round pipe, the cross-sectional opening of the flue

liner (Area A) should be no less than $\frac{1}{12}$ of the face opening of the fireplace chamber (Area B) to ensure proper draft. If the chimney is offset, or if the liner is square, oval or rectangular, the flue liner shall not be less than $\frac{1}{10}$ of the fireplace opening. You should refer to the current NFPA 211 for additional sizing specifications.

For oil-burning appliances, the flue shall be sized according to the NFPA 31 Oil Standard or the appliance manufacturer's instructions. For LP or natural gas appliances, the flue shall be sized according to the NFPA 54 Fuel Gas Code Book or the appliance manufacturer's instructions. In all cases, the authority having jurisdiction can mandate sizing.

CROSS-SECTIONAL AREA FOR EACH SIZE OF PIPE:

5" Round	.....	19.6 sq. in.
5.5" Round	.....	23.8 sq. in.
6" Round	.....	28.3 sq. in.
7" Round	.....	38.5 sq. in.
8" Round	.....	50.3 sq. in.

Figure 3

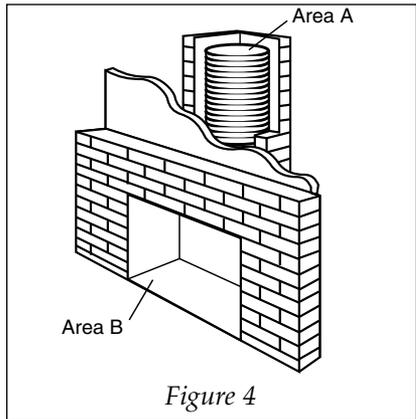


Figure 4

2. DETERMINING WHAT LENGTH OF HOMESAVER ULTRAPRO LINER IS NEEDED

Determine the length of liner needed by lowering a weighted rope down the chimney to where your relining pipe will terminate. Add another 3" for the installation of the top clamp, storm collar, and Guardian™ Cap or the CollarPlate and CollarPlate Rain Cap.

If needed, HomeSaver UltraPro may be cut with an angle grinder or circular saw with a metal-cutting blade.

The maximum recommended height for HomeSaver UltraPro is 65'. Minimum height is 10'.

3. INSULATING THE LINER

Insulation is required when venting solid fuel appliances but is optional for wood pellet appliances, oil appliances, and Category I LP or natural gas-burning appliances.

Wood And Coal Applications

There are three scenarios you may encounter when lining for wood and coal that will affect your choice of insulation options.

In a case where a masonry chimney is found to have at least 1" clearance to combustibles the minimum insulation requirements are one wrap of ¼" foil-face insulation or 1" of TherMix insulation.

When less than 1" clearance exists between the exterior of the masonry and the surrounding combustibles, the minimum insulation requirements are one wrap of ½" foil-face insulation, two wraps of ¼" foil-face insulation, or 1" of TherMix insulation.

The insulation requirement for a properly installed factory-built chimney is one wrap of ½" foil-face insulation.

Remember: the insulation wraps will loft to more than their stated thickness in most cases. One wrap of ¼" insulation will add 1" to the diameter of the liner. Two wraps of ¼" will add 2" to the liner diameter. One wrap of ½" will add 1½" to the liner diameter.

Go to pages 14 and 15 for the formula to determine how much TherMix will be needed in a particular installation.

HomeSaver offers insulation kits including all the components needed to insulate a liner with the foil-face insulation trimmed to the appropriate widths. These are available in 25' lengths of 5" – 8" diameters. There are two additional insulation kits for 6" liners in 30' and 35' lengths.

Wood Pellet, Oil, And LP Or Natural Gas-Burning Appliances

Since the use of insulation around HomeSaver UltraPro keeps the liner warmer, one wrap of ¼" Foil-Face FlexWrap will help reduce condensation, as well as reducing cold spots which affect chimney performance. This is especially important when the flue gas temperature is below 280°F at the thimble, when large portions of the chimney are located on the exterior of the house, when HomeSaver UltraPro is venting a fan-assisted Category I gas appliance, or when the flue cavity is much larger than the liner.

Using HomeSaver Foil-Face FlexWrap

HomeSaver Foil-Face FlexWrap is an insulating blanket of special ceramic fibers mated to a heavy reflective foil. The use of FlexWrap around HomeSaver UltraPro relining pipe will help center the liner in the chimney, in addition to the other benefits previously mentioned.

To determine the width of FlexWrap needed, see Trim Chart, (Figure 5, below).

Adhesive and foil tape will be needed to adhere the FlexWrap to the liner. FlexWrap must be covered with ArmorMesh to protect the FlexWrap from tearing during installation — see the chart, (Figure 6, below), to determine what size is needed. Clamps for fastening the ArmorMesh at the top and bottom will be needed and can be created from a Make-A-Clamp brand clamping kit, or large radiator-type clamps which can be purchased at automotive supply stores.

TRIM CHART — HOMESAVER® FLEXWRAP™ INSULATION				
HomeSaver® UltraPro™ size to be used	Cut this width for first ¼" wrap	Cut this width for second (outer) ¼" wrap	Cut this width for ½" wrap	Cut this width for 1" wrap
5" dia.	19½"	21"	19½"	23¼"
5.5" dia.	21½"	23½"	21½"	24¼"
6" dia.	23"	25"	22½"	25¾"
7" dia.	27½"	29½"	26¼"	29¼"
8" dia.	30"	32"	29¼"	32¾"

Figure 5

4. COMPONENTS

UltraPro installations on a masonry chimney can be finished with two different top plate options. It's important that these instructions are followed to ensure the prevention of moisture entering the liner, the space between the

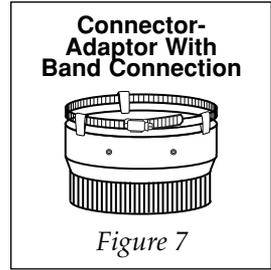
liner and factory built chimney and the chimney insulation. The first utilizes the HomeSaver CollarPlate which incorporates all the features of the top plate, top clamp, and storm collar into one unit and the HomeSaver CollarPlate Rain Cap with band connection or a Guardian cap. The second

WHICH SIZE ARMORMESH™ TO USE WITH DIFFERENT SIZES OF HOMESAVER® ULTRAPRO™	
HomeSaver® UltraPro™ size to be used	Use this size ArmorMesh™ with all insulation combinations
5" – 6" dia. 7" – 8" dia.	Small Large

Figure 6

involves a top plate, top clamp, storm collar, and one of the UL Listed cap types. The cap options are a Guardian cap, inverted cone cap, a Gelco knock-down top, or a Chimney Protector.

When installing UltraPro in a factory-built chimney, the top must be finished with the Factory-Built Liner Adaptor, top clamp, storm collar, and Guardian cap.



To connect two pieces of UltraPro a connector adaptor with band connection is used. This allows a drip free connection.

Bottom terminations will vary with the specifics of each installation. These specifics are discussed at length later in these instructions.

Important Note: Do not use any liner parts except those specified in these installation and maintenance instructions.

SECTION 4 Before You Begin

The following tools and supplies are basic ones needed for your HomeSaver UltraPro installation:

Trowel	Mortar	Mortar pan
Steel snips	Silicone sealant	File
Ladder	Pop rivet gun	Utility knife
Electric drill	316-alloy S.S. pop rivets	Measuring tape
$\frac{3}{64}$ " high-speed drill bit	Hammer	Screwdriver
Cold chisel	Gloves	Pliers
Eye protection	Rope	Caulking gun
$\frac{3}{16}$ " masonry drill bit		
Respirator (MSA Comfo Classic or equivalent)		
Circular saw with metal-cutting blade (or similar tool)		

Wear eye protection, gloves, and respirator whenever you're in contact with creosote, soot, mortar, or insulation. Use caution when working on a roof. Proper and safe scaffolding should be used for a safe installation. All ladders should be secured to the building. Be sure to check overhead for antennas, power lines, or other obstacles before erecting the ladder and installing the liner.

INSPECT THE CHIMNEY

Inspect the chimney for structural integrity before it is lined. HomeSaver UltraPro relining pipe can be installed in a masonry chimney with a minimum 4" of solid brick as specified in NFPA 211. Look for loose or eroded mortar, cracks in the masonry, missing bricks, internal obstructions, abandoned flue holes, and excessive creosote accumulation. Make necessary masonry repairs prior to relining the chimney.

In the case of a factory-built chimney determine if the chimney and factory-built fireplace have been installed correctly and required clearances have been maintained. Check to make sure no signs of rust, warpage, or other damage exist. The system must be structurally sound. If there is damage to the system, insufficient clearances, or rusting components, these parts must be replaced or installed properly. Do not install a liner if the above conditions don't exist.

CLEAN THE CHIMNEY

Clean and remove all tar-glazed creosote and soot found on internal chimney walls and the fireplace smoke chamber before relining the chimney. If not removed, creosote is a fire hazard. It can also cause an unpleasant odor.

TEST TO MAKE SURE THE LINER FITS

On any installation where minimum or near minimum inside chimney dimensions are present, always test your fit before proceeding. Chimneys are irregular and hard to "sight" accurately. Take a small scrap section of liner, about 2' in length, then wrap it with the required thickness of FlexWrap (if this is your insulation choice). Be sure this "test section" can be lowered easily, without binding, through the entire length of chimney.

SECTION 5

Doing The Installation

The following instructions are intended as a guide to assist a qualified professional installer. Check your local building codes and contact local building or fire officials to obtain any required permits.

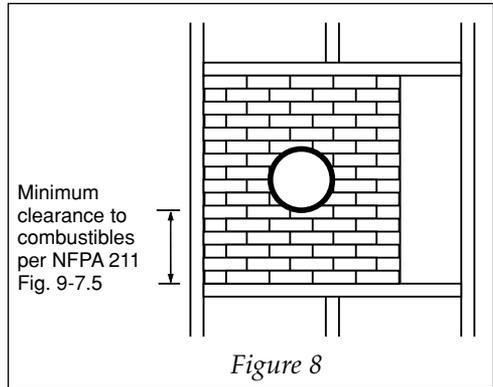
1. Inspect the chimney for structural integrity before it is lined.

HomeSaver UltraPro relining pipe can be installed in a masonry chimney with a minimum 4" of solid brick as specified in NFPA 211. Look for loose or eroded mortar, cracks in the masonry, missing bricks, internal obstructions, abandoned flue holes, and excessive creosote accumulation. Make necessary masonry repairs prior to relining the chimney.

In the case of a factory-built chimney, determine if the chimney and factory-built fireplace have been installed correctly and required clearances have been maintained. Check to make sure no signs of rust, warpage, or other damage exist. The system must be structurally sound. If there is damage to the system, insufficient clearances, or rusting components these parts must be replaced or installed properly. Do not install a liner if the above conditions don't exist.

2. If you are relining a fireplace, go to point 7, page 12.
3. If you are relining a flue venting a woodstove and there is no existing opening for stovepipe, you now need to make one. If there is an opening, it may need to be expanded in order to assemble the take-off to the flex tee.

For solid fuel appliances the NFPA "minimum clearance to combustibles" is 18" for single-wall connectors. Figure 8, shows a typical framing, which would have to be constructed in a combustible wall next to the chimney. This framing requires a minimum of 12" of brick masonry surrounding the thimble on all sides. It must not be located directly behind the appliance, but above it. See NFPA 211 for more details.



If a UL Listed wall penetration assembly is used (as an alternative to Figure 8, above), it must be located above the heating appliance and may not be located directly behind the heating appliance.

Clearances from solid fuel-burning appliances to combustible materials must be strictly adhered to. Follow all local codes and manufacturer's instructions.

- To install the tee, first place the tee cover over the outside of the bottom end using four, 1/2" 316-alloy stainless pop rivets to secure (Figure 9).

The take-off attaches to the tee body with a retractable band connection.

The first tee, right, is called the Flex Tee With Removable, Uncrimped Take-Off With Band Connection.

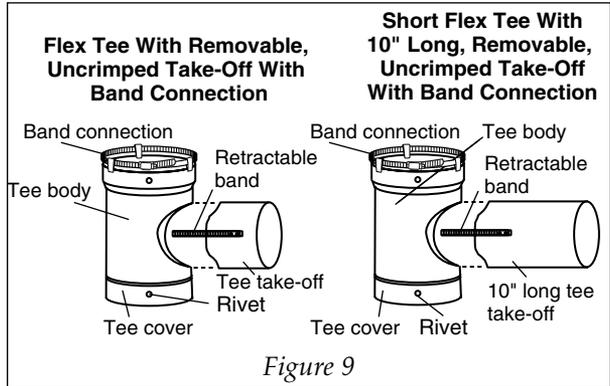


Figure 9

The UltraPro slides into the top of the tee and is secured by tightening the retractable band connection. There are also four pilot holes where 1/2" 316-alloy pop rivets may also be used if desired. The take-off attaches to the tee body with a retractable band connection.

The second tee, above, is called the Short Flex Tee With 10" Long, Removable, Uncrimped Take-Off With Band Connection. The UltraPro slides into the top of the tee and is secured by tightening the retractable band connection. There are also four pilot holes where 1/2" 316-alloy pop rivets may also be used if desired.

These two tees have a retractable band that secures the take-off to the tee body. The band should be opened so that when the HomeSaver Flex and tee are lowered down the chimney, the tee can pass through the band.

- Install support rods and bottom plate as shown (Figure 10) so the take-off will line up with the thimble hole. The tee sits on the plate which supports the weight of the liner.
- Attach the UltraPro liner to the tee with the clamp connection. As an alternative, a Pro connec-

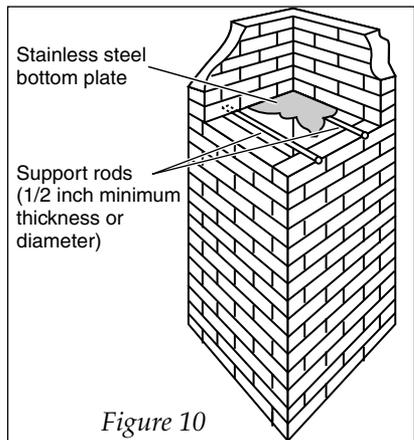


Figure 10

tor-adaptor with clamp connection may be used to join the liner to a Heat-Fab rigid tee.

7. When using HomeSaver UltraPro relining pipe to reline a fireplace flue, terminate the liner at the bottom of the chimney flue just above the smoke chamber. Termination is illustrated on the facing page, Figure 11. As an alternative method of support, a HomeSaver Bottom Plate Leg Support System can be used instead of support rods (see Figure 11, facing page, alternative "A.") Install the four support brackets by bolting to the liner in a position that allows them to rest on the bottom plate, and so no more than 2" of liner is below the plate. Or, a bottom plate with 2" collar may be used. A connector-adaptor will be needed to join the liner to the collar.

Another choice is the Home-Saver Insulation Plug (see Figure 11, alternative "B," facing page). HomeSaver Foil-Face FlexWrap must be layered with refractory cement and tightly packed at the base of the liner to a depth of 6" to form a seal. Make sure there is adequate support at the top of the chimney. If the liner, including insulation, weighs more than 150 pounds, double up on the top plates and top/bottom support brackets.

8. Each of these liner components (tee and connector-adaptor) comes equipped with band connection. The tee cover requires pop rivets or screws.

Note: If you are using a connector/adaptor with band connection or a tee with band connection, pop rivets are optional.

9. Insulating the liner with HomeSaver Foil-Face FlexWrap:
 - A. Wrap lengthwise, creating one long vertical seam down the length of the liner. The foil side should face away from the pipe.
 - B. Begin by rolling out a length of FlexWrap equal to 9" less than the length of the liner to be used in the installation. Do this on a clean, dry surface.
 - C. Trim the FlexWrap lengthwise with a sharp utility knife so that when wrapped around the liner, a tight joint, the length of the liner, is achieved. Accuracy in cutting is important.
 - D. Apply 3M Spray Adhesive or Rutland Water Glass to the liner. Then carefully wrap the FlexWrap around the liner.
 - E. Thoroughly tape the insulation seam and the ends with foil tape.

**HomeSaver® UltraPro™
with Foil-Face FlexWrap
and ArmorMesh**

**HomeSaver® UltraPro™
with Foil-Face FlexWrap
and ArmorMesh**

**Alternative UL Listed
Top Termination**

Gelco Knock-Down Multi-Flue
Chimney Top with 12" mesh or
Chimney Protector with 10" mesh

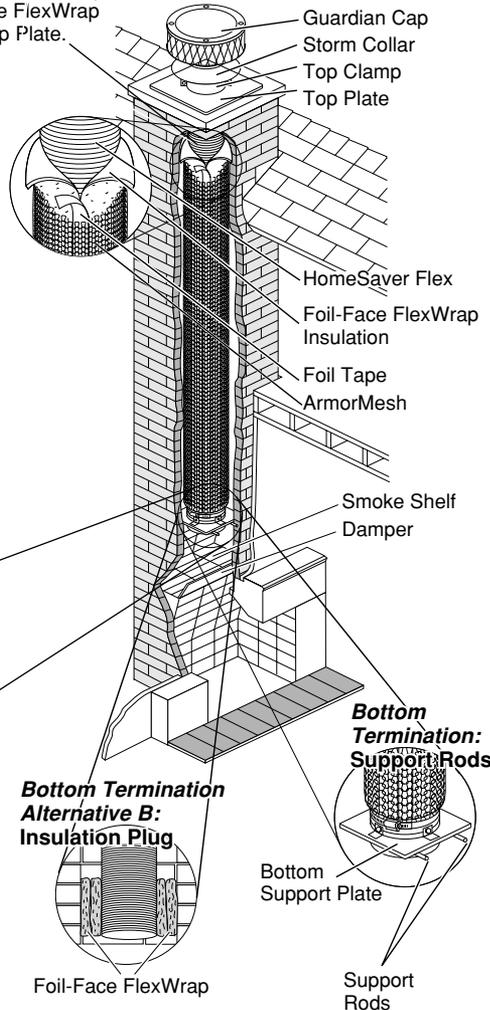
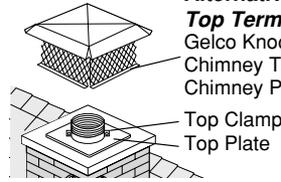
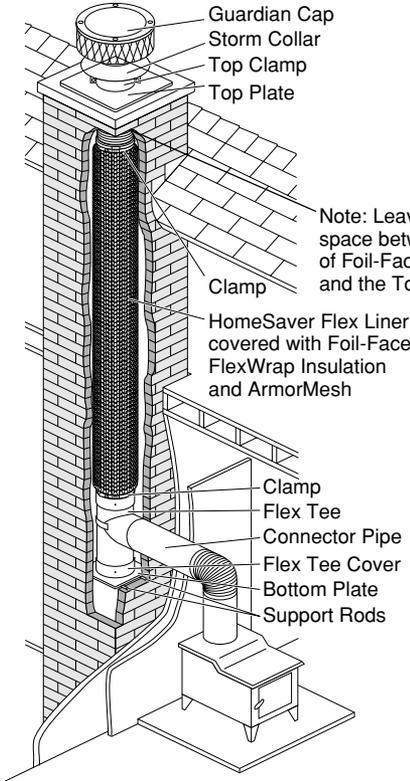


Figure 11

INSTALLATION

- F. If two wraps of the ¼" Foil-Face FlexWrap insulation is required, repeat the steps above for the second wrap.
- G. Measure, cut, and install a length of HomeSaver ArmorMesh Insulation Cover over your FlexWrap insulation. This can be accomplished by rolling the mesh like a stocking, then unrolling over the insulated pipe. Clamp the bottom end of the ArmorMesh, just before it enters the tee.
- H. Grasp the unclamped end of the ArmorMesh, unroll the ArmorMesh over the liner and insulation and pull, working it tight from one end to the other. This will draw the ArmorMesh snug around the FlexWrap.
- I. Trim any excess FlexWrap and ArmorMesh from the top of your installation back to within 6" of where the liner will stick through the top plate, then clamp it in place. Leave no more than 3" of liner protruding above the flex top plate. If using a clamp plate cut the liner flush with the top of the collar.

10. Insulating HomeSaver UltraPro with TherMix Insulation:

TherMix is a specially formulated, dirt-like consistency chimney fill insulation and is intended for use when relining masonry chimneys only. Since 1" of TherMix needs to surround the liner on all sides, the inside flue dimension needs to be a minimum of 2" larger than the outer diameter of the liner (which is ⅜" larger than I.D.). This means a 6" diameter liner would require a flue opening of 8⅜" × 8⅜".

The formula for determining the volume of insulation in cubic feet for HomeSaver UltraPro is:

$$\frac{(\text{area of chimney}) - (\text{area of liner})}{1728}$$
$$\frac{(W'' \times D'' \times H'') - (\pi \times R^2 \times H'')}{1728}$$

W = width of flue in inches

D = depth of flue in inches

H = height of flue in inches (multiply feet × 12 to convert to inches)

π = 3.1416

R² = radius of pipe multiplied by radius of pipe (remember, radius is ½ the diameter)

Dividing by 1728 converts the answer (in inches) to the number of cubic feet of space you need to fill with TherMix. Each bag of TherMix holds

three and a quarter cubic feet, so divide the final figure by 3.25 to determine the number of bags of TherMix you need.

The following are typical examples:

- A. 6" = diameter of HomeSaver UltraPro relining pipe
 8½" = width of flue
 8½" = depth of flue
 (16 ft.) 192" = height of flue

$$\frac{(8.5 \times 8.5 \times 192) - (3.1416 \times 9 \times 192)}{1728} = \frac{8443.32}{1728} = 4.89 \text{ cu. ft.}$$

$$4.89 \text{ cubic feet} \div 3.25 \text{ cubic feet/bag} = 1.5 \text{ bags}$$

- B. 8" = diameter of HomeSaver UltraPro relining pipe
 10½" = width of flue
 12" = depth of flue
 (35 ft.) 420" = height of flue

$$\frac{(10.5 \times 12 \times 420) - (3.1416 \times 16 \times 420)}{1728} = \frac{31,808.45}{1728} = 18.41 \text{ cu. ft.}$$

$$18.41 \text{ cubic feet} \div 3.25 \text{ cubic feet/bag} = 5.66 \text{ bags}$$

11. In installations using a tee, position the tee take-off with retractable band into the chimney opening. The retractable band should be fully opened so the body of the HomeSaver tee may be lowered through the band. Then the band must be secured to the tee body by tightening the retractable band.

Fill mortar in tightly around the take-off to the tee. Make sure the connector pipe will connect easily to the take-off before the mortar cures. Single-wall metal connectors must maintain a minimum of 18" clearance to combustibles and a rise of at least ¼" per foot. Connectors shall be securely supported and fastened with sheet metal screws or stovepipe screws. The connector shall be readily accessible for inspection, cleaning, and replacement.

The initial pipe connection will either be a direct connection to the take-off of the flex tee in a HomeSaver UltraPro installation, or a connector through a UL Listed wall penetration assembly. Any pipe connector used, which is not in plain view from the room, must be made of stainless steel or equivalent materials.

In fireplace installations, lower the liner directly down the chimney until the top/bottom support brackets rest on the stainless bottom

plate. If installing UltraPro in a factory-built fireplace chimney, make sure you are connecting to an appliance that has been listed for installation in a zero clearance fireplace and that all clearances and requirements set forth by the listed insert or stove manufacturer have been met. Also make sure the fireplace manufacturer has approved this type of installation. ***This installation is approved for these types of appliances with a 6" collar only. Only a 6" HomeSaver Pro or HomeSaver UltraPro liner may be used.***

If a hearth stove will be connected to the liner, determine which type of tee will be used (see page 11 for specific recommended tees).

If an insert will be connected to the liner, you may use a HomeSaver connector/adaptor with band connection to make the connection between the flex and the insert if it has a 6" inside dimension flue collar. If the liner comes down towards the insert at an angle, or has a rectangle or oval flue collar equal to or less than 28 square inches of area, you may need two items. They are the HomeSaver RoundFlex cast-iron insert boot, as well as the HomeSaver Pro cast-iron insert boot adaptor.

Remove the damper from the top of the firebox following the specific instruction as required from the zero clearance fireplace manufacturer. Be careful not to affect the structural integrity of the unit.

Insulate the liner with one wrap of ½" HomeSaver Foil-Face FlexWrap including the adhesive, the ArmorMesh, foil tape, and Make-A-Clamp kit as detailed on page 7. Or, a 6" HomeSaver Pro Insulation Kit may be used which includes these items.

The insulation must start no less than 6" above the appliance connection and must terminate 6" below the factory-built liner adaptor.

There are three accepted methods of installing the top hardware on an UltraPro installation.

Using the CollarPlate: apply an exterior-rated silicone sealant to the perimeter of the CollarPlate. Slide the plate over the liner until it rests squarely on the chimney or flue tile. Tighten the clamp. Install the CollarPlate rain cap or a Guardian cap.

If you are relining a factory-built chimney, use the HomeSaver Factory-Built Liner Adaptor, (Figure 12, next page). Allow the liner to extend 3" above the adaptor. Install the storm collar over the liner, making sure the bottom of the storm collar sits flush on the liner adap-

tor. Seal with high temperature silicone sealant. Install the top clamp above the storm collar so it sits on the collar. Squeeze the base of a Guardian cap and slide it into the liner. See illustration.

If you are using a top plate, apply an exterior-rated silicone sealant to the perimeter of the top plate. Slide the top plate over the liner until it rests squarely on the chimney top.

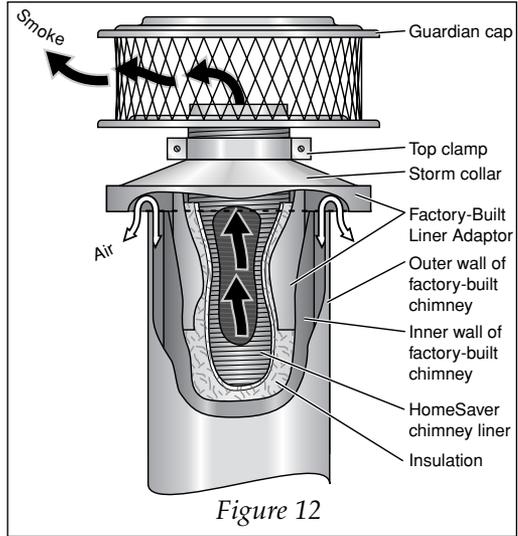


Figure 12

Next, slide the top clamp over the liner so it rests on the top plate, then secure the top clamp to the liner. The top clamp will ride up and down with the liner during thermal expansion. Alternatively, a set of support brackets may be bolted to the liner and used instead of a top clamp.

Do not allow the top clamp or support brackets to be the installation's sole means of support. *Always* support your installation solidly at the bottom. Position the storm collar so it is above the top clamp and tighten the storm collar. A bead of silicone sealant between the collar and the pipe will prevent water from entering the chimney through this joint. Insert the friction fit 316-alloy Guardian Cap into the liner. A Gelco Knock-Down Top, inverted cone cap, or Chimney Protector Cap may be used as an alternative to terminate a HomeSaver Relining Installation, (Figure 13). A storm collar is not required but may be used. Allow a maximum 3" of HomeSaver Liner to extend past the top plate. Make sure the combined height of liner and tile extend into the cap no more than 4" for the Chimney Protector and no more than 6" for the knock-down tops. This ensures adequate clearance for the liner.

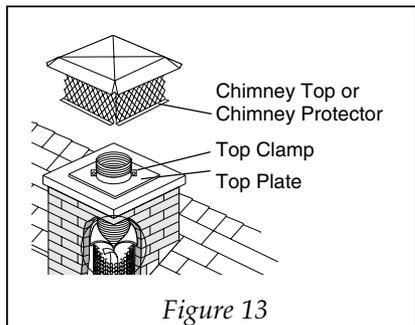


Figure 13

To install the cap you will need a caulking gun, drill, and a 3/16" masonry drill bit. Set the cap on the crown of the chimney, marking with a pencil where the base will sit. Apply chimney top adhesive within the penciled lines. Be sure to leave spaces where the holes for the masonry screws will be drilled. Firmly press the cap base into the adhesive. Drill into the crown using the 3/16" drill bit and anchor the cap with masonry screws.

13. After completing the installation of a new appliance, the initial firing precautions of the appliance manufacturer’s instructions must be strictly followed.

Maximum Liner Size Per Cap				
<i>Screen Size</i>	<i>Model Number</i>	<i>Description</i>	<i>With Storm Collar</i>	<i>Without Storm Collar</i>
9"×13"	11705	Chimney Protector with 10" mesh	—	8"
13"×20"	11710	Chimney Protector with 10" mesh	6"	8"
13"×24"	11714	Chimney Protector with 10" mesh	6"	8"
13"×26"	11716	Chimney Protector with 10" mesh	6"	8"
13"×28"	11718	Chimney Protector with 10" mesh	6"	8"
13"×36"	11726	Chimney Protector with 10" mesh	6"	8"
14"×14"	11730	Chimney Protector with 10" mesh	8"	8"
14"×14"	13212	Knock-Down Model A Cap with 12" mesh	8"	8"
17"×17"	11740	Chimney Protector with 10" mesh	8"	8"
17"×17"	13222	Knock-Down Model B Cap with 12" mesh	8"	8"
17"×22"	11742	Chimney Protector with 10" mesh	8"	8"
17"×29"	11746	Chimney Protector with 10" mesh	8"	8"
17"×29"	13231	Chimney Protector with 12" mesh	8"	8"
17"×29"	13234	Knock-Down Model C Cap with 12" mesh	8"	8"
17"×35"	11750	Chimney Protector with 10" mesh	8"	8"
17"×41"	11754	Chimney Protector with 10" mesh	8"	8"
17"×41"	13244	Knock-Down Model D Cap with 12" mesh	8"	8"
17"×41"	13248	Chimney Protector with 12" mesh	8"	8"
17"×58"	11758	Chimney Protector with 10" mesh	8"	8"
17"×58"	13254	Knock-Down Model E Cap with 12" mesh	8"	8"

SECTION 6 – PLEASE READ AND SAVE Maintenance Instructions For Installer And Homeowner

HomeSaver’s commitment to providing a product of superior quality is reflected in its excellent warranty and UL Listing. HomeSaver UltraPro relining pipe must be installed and used correctly in order to have the safest, most efficient, long-lasting system. For this reason, the following maintenance and usage instructions must be followed. Parts or materials other than those specified in our installation instructions must not be used.

MAINTENANCE

1. The chimney connector pipe and HomeSaver UltraPro system must be cleaned and the entire installation inspected annually by a professional chimney sweep. During the heating season, the chimney liner system should be inspected at least once every two months to determine if creosote or soot buildup has occurred. If buildup has occurred, it should be removed to reduce the risk of a chimney fire.
2. A round wire steel chimney cleaning brush is recommended to clean HomeSaver UltraPro liner. Some chemical chimney cleaners may be harmful to HomeSaver UltraPro, so use only brands approved by HomeSaver.

The chimney may be accessed for cleaning through the top by removing the rain cap. If unaccessible from the top, the cleaning may be done through the appliance tee, clean-out opening, or through the damper (for a fireplace). Debris should then be removed from below.

USAGE

When wood is burned slowly, it produces tar and other organic vapors which combine with expelled moisture to form creosote. These vapors condense in the relatively cool flue during slow-burning periods. This results in creosote accumulation on the chimney liner, which is dangerous. If this creosote should ignite, it makes an extremely hot chimney fire which may destroy the corrosion resistance of the stainless steel, and may cause a house fire if flames ignite the roof or nearby combustibles.

Therefore, we advise homeowners to prevent creosote buildup with safe burning procedures — burn fires hot, not smoldering with a lot of smoke.

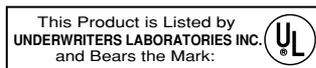
And keep the fire small — in a fireplace, keep the top of the flames visible below the fireplace opening; in a woodstove, keep the flames confined to the woodstove itself. Never burn trash, papers, garbage, etc. in a fireplace or woodstove. This could cause a fire hazard and damage the liner.

When used for venting solid fuel appliances, this liner must not be smaller than the appliance flue collar unless specified by the appliance manufacturer.

Be sure to check the rain cap for icing during low ambient temperatures.

WARRANTY CHART*		
APPLICATION	WARRANTY	INSULATION REQUIREMENTS
Wood, Coal	Lifetime warranty	Insulation required. See point 3, pages 6, 7.
Oil, Wood Pellet, Category I Gas	Lifetime warranty (Gas is non-condensing appliances only)	Insulation recommended but not required. See point 3, pages 6, 7.
*This chart is intended as a quick reference on the warranties — please read the actual written warranty cards for specific details.		

Figure 14



© 2003 Copperfield Chimney Supply, Inc.

HomeSaver® is a registered trademark of Copperfield Chimney Supply, Inc.
304 South 20th Street, Fairfield, IA 52556