

5 FINISH BOTTOM

- 5.1(a) Remove the pull strap from the liner with a screwdriver. Remove the rope as well.
- 5.1(b) Slide the MORTAR SLEEVE over the liner and into position in the chimney wall opening.
- 5.1(c) Wall penetration assemblies shall not be located directly behind a heating appliance.
- 5.2 Pull the minimum length of liner(4-6") that allows for a connection to be made.Fill in any gaps between the chimney opening and MORTAR SLEEVE with mortar or cement. See Figure 7.This Mortar Sleeve will position & support the liner once the mortar hardens around the sleeve.
- 5.3(a) The COUPLER included with the kit may be used to join the liner to the appliance connector pipe. Simply slide one end of the COUPLER into the liner and fasten with 4 sheet metal screws. Apply silicone caulking rated at 245°C(470°F) over these screws.
- 5.3(b) Chimney connectors shall be installed as required by regional codes.ANSI/NFPA-211 in the USA or CAN/CSA A405 in Canada are generally preferred standards.
- 5.3(c) **At no time shall the LINER tube extend to the appliance(s).**

- 5.4 Connect appliance connector pipe to the LINER assembly in accordance with the Natural Gas Installation Code CAN/CGA B149.
- 5.5 Near the liner's base, post a notice of the liner's type (Class 1) & it's limitation to venting listed gas or propane fired appliances where the temperature of the flue-gas products does not exceed 245°C(470°F). The notice shall include manufacturer's name (Deflecto Canada Ltd.) model number & class of liner system (Class 1).The homeowner should check for icing on the raincap during low ambient temperatures.
- 5.6 Do not fill the space between the liner & the chimney's masonry with insulation or any other material. Under no circumstances should the air space around the installed Easyliner system be used to vent other appliances.
- 5.7 The posting of notices near the point where the connection is made to the gas vent, roof jack or Type L vent, concerning limitations to use either gas or gas and oil appliances, when a liner is for use with either gas or gas & oil fuel only.

6 MAINTENANCE

- 6.1 The chimney liner system should be inspected at least once every two(2) months during the heating season.
- 6.2 The liner system also should be inspected annually before each heating season to ensure it's flue is unobstructed & that all components are in good condition. This should be performed by a qualified person (Chimney sweeper). Failure of these inspections will void the warranty.In the event a chimney fire has occurred,the liner should be inspected before the connected appliance is fired.
- 6.3 To remove the RAIN CAP for annual inspections, gently pull up on the liner until fastening screws are exposed. Remove screws & RAIN CAP may be slipped out.

7 GAS FIREPLACE INSERT INSTALLATION

- 7.1 Connect the rope, liner tube as per 3.1. Do not fasten other components at this time.
- 7.2 Using the pull strap stretch the liner to the required length. Insert the liner down the chimney clay tile as per 3.1 to 3.2.Remove the pull strap using a screwdriver not provided.
- 7.3 Slide the liner over the collar of the gas fireplace insert & attach with 4 evenly spaced screws. Do not allow the liner to drop below the top of the clay tile.Now slide the fireplace insert back into the masonry fireplace opening.
- 7.4 At the same time the other installer should pull up the excess liner from the top of the chimney to remove any slack in the liner itself.
- 7.5 Silicone the top of the clay tile as per 4.1 to 4.3. Trim the excess liner & pull it through the opening of the flashing & attach the liner to the RAINCAP with 4 evenly spaced screws.
- 7.6 The recommended method of cleaning the liner is found in Section 6 under the heading "Maintenance". This section describes the process of removing the screws from the RAINCAP from the top of the liner section. The inside of the liner should be cleaned by a suitable chimney brush. The RAINCAP can be reinstalled after this process.

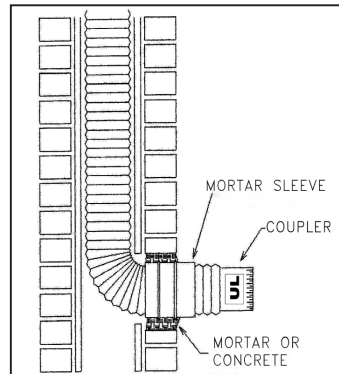


Figure 7

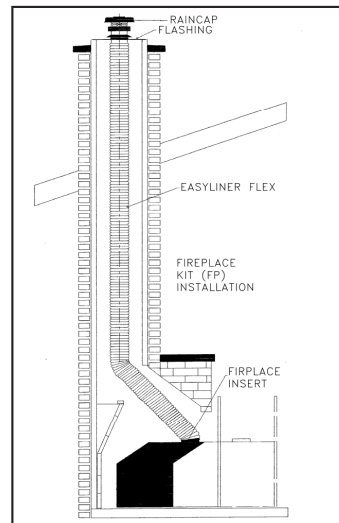


Figure 8

INSTRUCTION MANUAL



DEFLECTO CANADA LTD.
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EASYLINER

FLEXIBLE ALUMINUM LINER KIT

For use with Gas or Propane fired appliances

(Max. 245° C / 470° F) CLASS 1

UL 1777, CAN/ULC-S635 STANDARDS

Kit Contains:

- 1 -Length of flex liner
- 1 -Raincap c/w storm collar
- 1 -Coupler *
- 1 -Flashing
- 1 -Masonry sleeve *
- 1 -Instruction manual

*Not included with FP(Fireplace) Kit

These instructions are available in French upon request

THIS MANUAL SHOULD BE LEFT WITH THE HOMEOWNER TO
ENSURE PROPER MAINTENANCE IS FOLLOWED

Installed by: _____ Installation Date: _____

FLEXIBLE ALUMINUM LINER (EASYLINER)

This is a flexible aluminum chimney lining system for use in masonry chimneys venting listed gas or propane fuelled appliances equipped with draft hoods & other appliances listed for use with Type B Gas Vents. This chimney lining system is not recommended for venting appliances rated higher than 83% AFUE. Minimum air space clearances to be maintained between inside of masonry chimney & the liner is 0". Maximum liner installation height is 50ft.

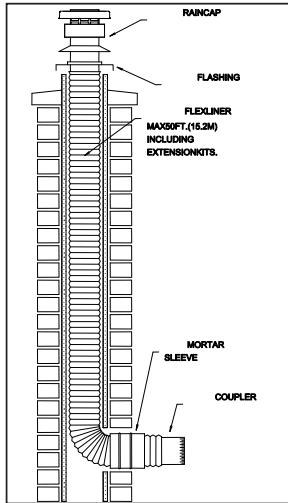


Figure 1

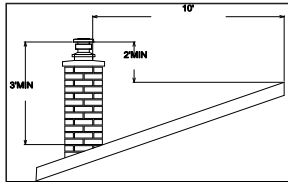


Figure 2

This liner can re-size a chimney for improved drafting performance & prevent costly masonry damage caused by flue gas condensation.

Any heating appliance connected to the chimney liner must not have a flue outlet size larger than the chimney liner area at its smallest point unless a qualified person has sized the liner to suit the appliance.

Correct sizing of a venting system can greatly affect drafting performance, particularly with low flue temperatures and in geographical regions of sustained low ambient temperatures. The appliance manufacturer specified sizing instruction must be observed.

This liner system must not be used to vent solid or liquid fuelled appliances.

Prior to installation of this lining system into a factory built chimney or vent, the chimney be thoroughly cleaned & checked for structural defects, & that all the parts(supports, radiation shield, firestop, etc) specified by the chimney or vent manufacturer are installed, & that the air space clearances between the chimney or vent exterior casing & combustible material is in accordance with the installation instructions.

It is of utmost importance that this liner system be installed only in accordance with these instructions; failure to follow these instructions will void the liners certification & warranty. The lining system safety, code compliancy, warranty & performance may be compromised if these installation instructions are not followed. Safe operation of this lining system is dependent on use of parts supplied by the manufacturer; the liners performance may be affected if the combination of these parts is not used in actual building construction. If unusual conditions exist that may prevent this product from being installed as per these instructions, the installer must contact the manufacturer.

Raincaps, Spark arrestors & spark screens(also used as bird screens)are necessary and/or required in some areas but may be susceptible to blockage through freezing moisture in areas of low ambient temperature. Consult authority having jurisdiction and/or check for freezing during extremely cold ambient conditions.

Tools Required: Ladder or Scaffolding, Cold Chisels, Masonry Drill Bits, Masonry Trowel, Screwdrivers, Measuring Tape, Hammer, Tin Snips, Gloves, Drop Cloths, Silicone Caulking, Mortar, Rope, Chimney Sweeping Brush and Rods.

The drill size diameter that should be use is 3/32" in all cases.

INSTALLATION PROCEDURE

1 PREPARE CHIMNEY

1.1 The liner system is intended for use in a masonry chimney which complies with the local building code & is structurally sound and safe.

1.2 The chimney shall be constructed with standard masonry brick dimensions. No veneer brick should be used.

1.3 If preliminary inspection reveals that the chimney is not safe, it must be repaired prior to installing this liner. This inspection should be performed by a trained/certified installer. If the chimney is found not to be in compliance with the applicable building code and/or manufacturer's installation instructions, the liner shall not be installed until appropriate steps have been taken in order to bring the chimney or vent into compliance with the applicable code and/or manufacturer's instructions.

The installation of the lining system into an existing chimney or vent does not, in any way, upgrade the resulting relined system & make it suitable for any applications that require a vent or chimney of a higher temperature handling capacity, an alternative fuel, or any other more severe service than the original chimney or vent in which it is installed.

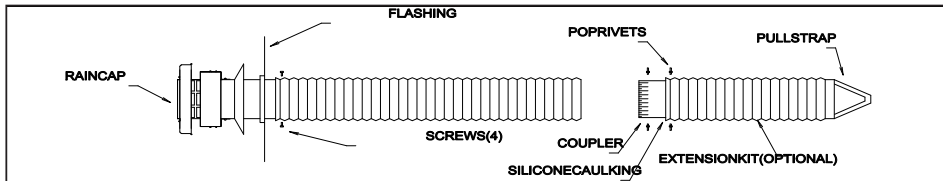


Figure 3

1.4 The chimney must extend at least 3 ft. higher than the point where it penetrates the roof and at least 2 ft. higher than any roof or structure within a 10 ft. radius. See Figure 2.

1.5 The chimney must be inspected inside & out. Any broken or loose bricks or mortar must be repaired. Remove any obstructions in the chimney. Check the air space clearances between the masonry chimney exterior and combustible materials to verify specifications as per NFPA 211.

1.6 Clean the chimney's interior thoroughly with suitable chimney brushes.

1.7 Flexible liner will fit inside chimneys of the same nominal dimensions as the liner, however a little extra space will make the installation much easier & prevent damage to the liner.

1.8 Open a hole in the side of the chimney near the appliance to be connected. Remove all rough edges from the wall opening.

2 PREPARE THE LINER

2.1 Lower a rope down the chimney to determine length of liner required. Add about 18 inches to the chimney length to account for bend at bottom of liner to turn into the building. If the required length is longer than standard kit, an extension section may be purchased separately from the basic liner kit. Maximum installation height is 50ft total.

2.2 Stretch the compressed flex liner section to the length determined above. This may be achieved by two installers, each holding one end and pulling away from each other in a twisting motion. Allow the Liner to twist or rotate.

2.3 Slip the RAINCAP through the FLASHING and fasten it to liner with 4 screws. Apply silicone caulking rated at 245°C(470°F) over screws & holes.

2.4 If required LINER length is more than standard kit, use optional extension kit. A maximum of 1 extension kit may be used per installation. See Figure 3.

2.5 Extension Kit includes a length of flex liner, and coupler. The extension is connected to flex section by sliding the coupler inside flex section and extension section, securing with screws/rivets. Seal COUPLER to upper FLEX LINER section, rivets/screws & holes with silicone caulking rated for a minimum of 245°C(470°F).

3 INSTALL THE LINER

3.1 Tie a rope to the PULL STRAP & drop other rope end down the chimney. See Figure 4. The pull strap is factory installed.

3.2 Installation is generally a two person job. One installer pulls the rope (& LINER) down the chimney while the 2nd installer carefully guides the liner into the chimney top. Take care not to catch LINER on sharp edges while pulling it into place. Take care not to field ovalize the liner during the installation process.

3.3 As bottom end of the LINER approaches lower chimney opening, bend the LINER & carefully pull it out until it extends about 6" inside of the wall. Do not bend the liner sharply creating a crimp or reduce the cross section of the liner. Don't ovalize the liner at any time.

4 FINISH TOP

4.1 The FLASHING must be sealed to the chimney and may need to be trimmed.

4.2 If chimney has clay tile liner extending above the crown, notch corners of the FLASHING & bend down all 4 sides. Lay a bead of silicone caulking around top edge of cleaned tile liner and sit the FLASHING into the caulking. See Figure 5.

4.3 If clay tile liner does not extend above the crown, apply caulking directly to top of crown and sit FLASHING down flat on top of the crown. See Figure 6.

4.4 The LINER can float up & down within the flashing opening as the metal expands or contracts. Take care to ensure that there is no space for moisture to enter into the liner, the space between the liner & factory built chimney. Excessive moisture may destroy the liner.

4.5 To remove the RAIN CAP for annual inspections, gently pull up on the liner until fastening screws are exposed. Remove screws & the RAIN CAP may be slipped or pulled out.

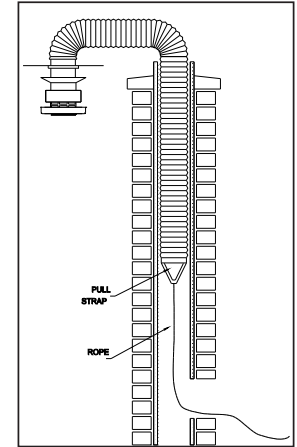


Figure 4

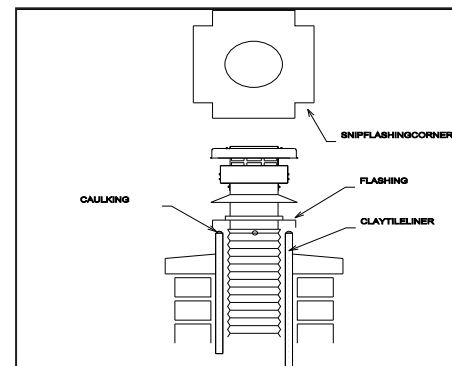


Figure 5

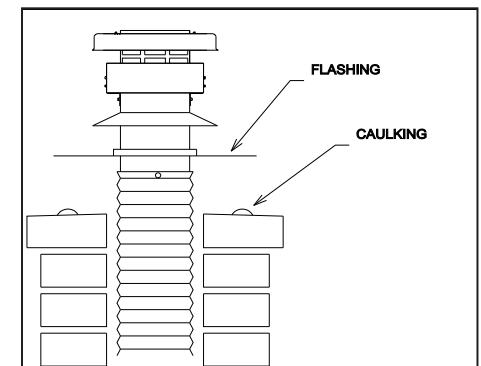


Figure 6