

# STAINLESS STEEL FLEXIBLE CHIMNEY LINER



## INSTALLATION INSTRUCTIONS

**IT IS OF THE UTMOST IMPORTANCE THAT  
THIS CHIMNEY LINER BE INSTALLED ONLY IN  
ACCORDANCE WITH THESE INSTRUCTIONS**



CAN/ULC - S635, UL 1777

**PLEASE READ ALL INSTRUCTIONS BEFORE  
BEGINNING YOUR INSTALLATION. FAILURE TO  
INSTALL THIS SYSTEM IN ACCORDANCE WITH THESE  
INSTRUCTIONS WILL VOID THE CONDITIONS OF  
CERTIFICATION AND THE MANUFACTURERS  
WARRANTY. KEEP THESE INSTRUCTIONS IN A SAFE  
PLACE FOR FUTURE USE.**

### **SELKIRK CANADA CORPORATION**

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Hamilton, Ontario L8L 7X6  
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Toll Free Fax 877-393-4145  
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## **For Installation into Masonry Chimneys**

READ INSTRUCTIONS CAREFULLY BEFORE STARTING THE PROJECT. REMEMBER THAT SAFETY COMES FIRST. OUR MODEL SFCL CHIMNEY LINER SYSTEM IS DESIGNED FOR INSTALLATION BY A QUALIFIED PERSON IN ACCORDANCE WITH LOCAL BUILDING CODES.

### **IMPORTANT**

**YOUR SFCL CHIMNEY LINER HAS BEEN TESTED, AND LISTED USING ALL THE SUPPORTS, SECTIONS, ETC., DESCRIBED HEREIN. DELETION OR MODIFICATION OF ANY OF THE REQUIRED PARTS OR MATERIALS MAY SERIOUSLY IMPAIR THE SAFETY OF YOUR INSTALLATION, AND VOID THE CONDITIONS OF CERTIFICATION AND/OR WARRANTY OF YOUR LINER.**

# CONTENTS

<b>Section</b>	<b>Description</b>	<b>Page</b>
1.0	Types of Appliance.....	4
2.0	Sizes, Location and Clearances.....	4
3.0	Liner Components .....	4
4.0	Tools and Materials.....	5
5.0	Chimney Inspection and Cleaning.....	5
6.0	Chimney Preparation.....	5-6
7.0	Liner Preparation.....	6
8.0	Installing the Liner.....	7
9.0	Support Flashing Installation.....	8
10.0	Rain Cap Installation.....	8
11.0	Completion of Liner Bottom.....	9
12.0	Installation of Appliance.....	9
13.0	Installation Completion.....	9
14.0	Installation of the Insulated Wall Thimble (IWT).....	10
15.0	Maintenance and Cleaning of Chimney.....	10
16.0	Warranty.....	11

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## 1.0 TYPES OF APPLIANCE

Your Model SFCL Chimney Liner is an all-fuel (wood-oil-gas) liner intended for residential type appliances and building heating appliances in which the maximum continuous flue gas outlet temperatures do not normally exceed 1200° F (650° C) in Canada and 1000° F (540° C) in the United States.

## PRE- INSTALLATION GUIDELINES

### 2.0 SIZES, LOCATION AND CLEARANCES

**.1** Ensure your installation will conform with all federal and municipal building code requirements. Before commencing installation, CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION IN YOUR AREA. Obtain any necessary building permits.

**.2** Authorities require that the masonry chimney extend not less than three feet above the highest point where it passes through the roof of a building and not less than two feet above any portion of the building within ten feet. (See FIGURE 1.)

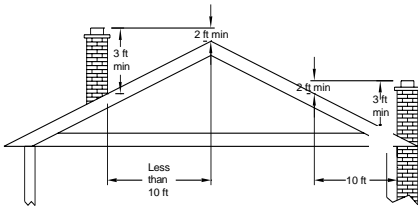


FIGURE 1

**.3** Close attention should be given to determining the correct connector size. Be sure to choose a size of liner that is not less than that specified in the appliance manufacturer's instructions.

**.4** Consult the appliance manufacturers installation instructions regarding the maximum venting run allowed.

### .5 CLEARANCES FOR INSTALLATIONS IN THE UNITED STATES

For an exterior masonry chimney, this liner is to be installed with a minimum clearance of 1/2 inch air space between combustible materials and the chimney exterior.

For an interior chimney, this liner is to be installed with a minimum clearance of 2 inch air space between combustible materials and the chimney exterior. The liner must also be installed with a minimum clearance of 1 inch air space between the liner and the masonry chimney.

### .6 CLEARANCES FOR INSTALLATIONS IN CANADA

Your liner has been listed for installation at zero clearance to the inside masonry surface of an existing masonry or factory built chimney.

**.7** Do not fill the air space between the liner and chimney with loose fill insulation or cement.

## 3.0 LINER COMPONENTS

Available components:

- Flexible Liner
- Pop Rivets – stainless steel
- Flex Adapter
- Support Flashing
- Flashing Connector
- Rain Cap
- Detachable Tee with Cap
- Flex Connector
- Installation Sleeve/Pull Down

## 4.0 TOOLS AND MATERIALS

The following tools and materials are needed:

- Safety Gloves
- Eye protection
- Ladder to reach the roof
- Masonry drill bit 1/2" or 3/8".
- High speed drill bit 1/8".
- Drill
- Hacksaw
- Screwdriver
- Hammer
- Pliers
- Cold chisel
- Tin Snips
- Caulking, exterior grade
- Small bag of mortar mix
- Trowel
- Mortar pan
- Piece of rope 10 feet longer than the chimney.
- Duct tape
- Pop rivet gun for 1/8" diameter rivets.

## 5.0 CHIMNEY INSPECTION AND CLEANING

Make sure the masonry chimney is sound in construction, clean and free from all loose and potentially flammable debris. If you find any cracked, loose or missing bricks or tiles, have them repaired or replaced.

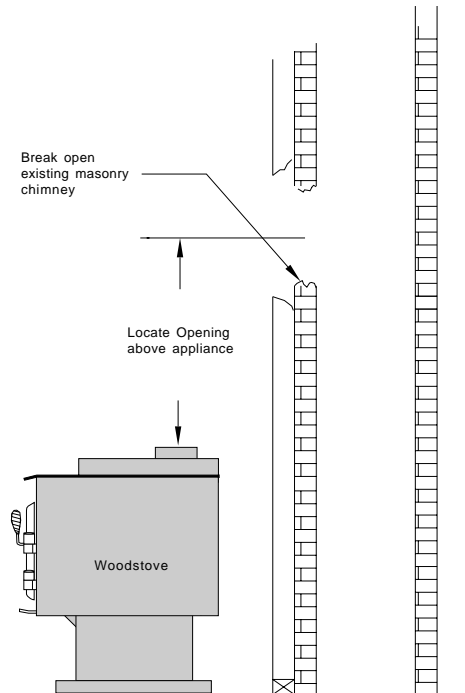
Before the installation of the liner, it is recommended that the chimney be cleaned by a certified chimney sweep.

Since chimneys are usually very sooty and dusty, it is advisable to remove or cover your furniture, rugs etc. for the duration of the cleaning and installation of the liner.

## 6.0 CHIMNEY PREPARATION

### 6.1 PREPARING FOR A FREESTANDING STOVE INSTALLATION

If no opening currently exists, establish the exact location of the base section. At the spot where the tee branch will pass through the chimney wall, remove enough brick (with a masonry drill bit, cold chisel and hammer) to fit the tee branch through the hole. Make the penetration as high as possible to maximize connector rise yet maintain the proper clearances. The opening must be located above the appliance outlet (see **FIGURE 2a**). It is recommended to install an inspection/cleanout door on the opposite side if conditions permit.



**FIGURE 2a**

### FREESTANDING WOODSTOVE

## .1.1 PREPARING FOR AN INSERT

Before installing the venting system ensure that the damper plate is locked into the open position and secured or removed to prevent any damage to the liner (see Figure 2b).

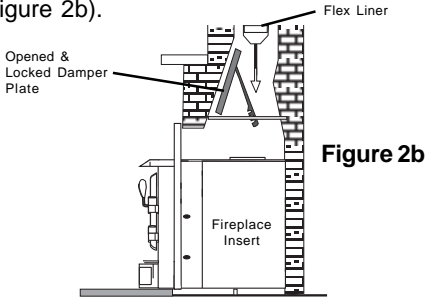


Figure 2b

## .2 PREPARING TOP OF CHIMNEY

Your chimney may have a clay-tile liner which protrudes above the brick chimney. There is no need to remove the top portion of the clay tile liner if it is in good condition. You may want at this time to do any repairs to the chimney crown if any cracks or deterioration is showing. Once the repairs are done follow section 9.0 for Support Flashing installation. If on the other hand the clay tile liner is not in good condition, you will need to make it flush by chipping away at the excess with a hammer, and cold chisel(see FIGURE 3). Make sure that pieces of the clay tile liner don't fall into the flue, remove if they do. When you have finished making the top of the chimney flush, fill in any cracks and uneven surfaces with mortar.

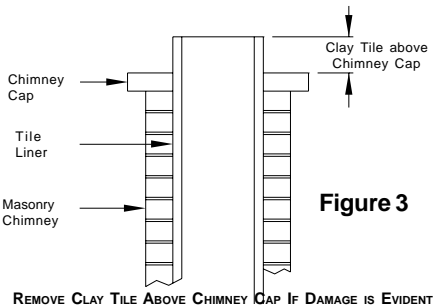


Figure 3

## 7.0 LINER PREPARATION

If installation permits, Flex Adapter and Tee may be installed on flex prior to feeding liner into the chimney as per Figure 8.

**NOTE: For an Insert application a Tee is not required.**

## .1 DETERMINING LINER LENGTH

Determine the required length of the Flexible Liner by dropping a weighted line down the chimney and taking the measurement, ensure that allowances for offsets and the use of a Tee (if required) are made.

## .2 TRIMMING THE LINER

Select the length(s) necessary to accommodate the required distance determined above. If any Flexible Liner requires cutting, use a hacksaw, snips or a disc cutter. If necessary, multiple lengths may be joined using the Flex Adapter (see Figure 4).

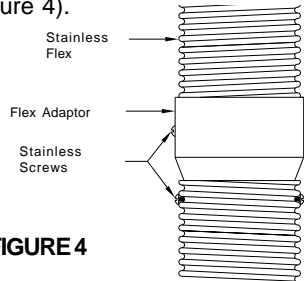


FIGURE 4

## .3 Installation Sleeve/Pull-Down Assembly

An Installation Sleeve/Pull-Down is available as an optional installation aide. When attached to a rope, it is used to pull and guide the end of the liner through the chimney. With one end of the rope, simply tie a knot around the band of the Installation Sleeve/Pull-Down. For an **Insert Installation**, assemble the Installation Sleeve to the Flex by sliding it over the Flexible Liner, and inserting screws through the holes (see Figure 5 & 7).

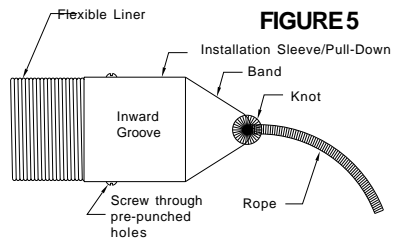
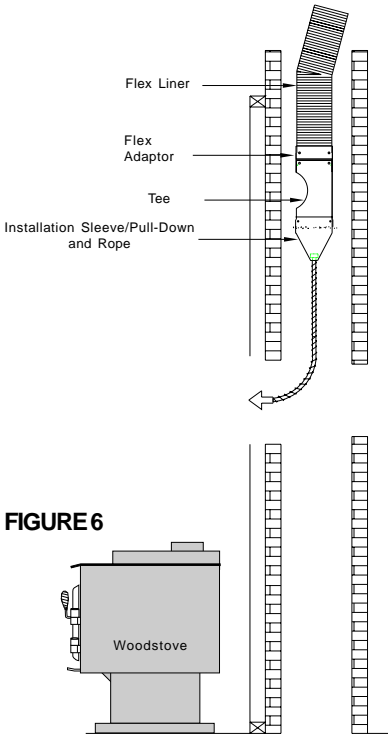


FIGURE 5

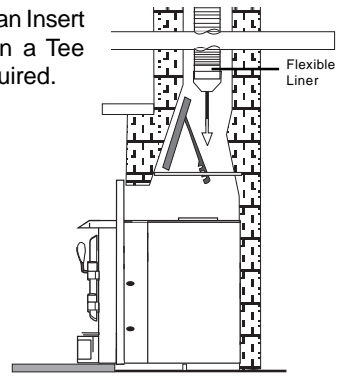
For a **FreeStanding Stove Installation** (Figure 6) assemble the Flex Adapter over the Flexible Liner, drill and secure with three (3) stainless steel screws equally spaced at 120°. Remove the Tee Branch from the Tee.

Insert the other end of the Flexible Adapter into the Tee, drill and secure with three (3) stainless steel screws equally spaced at 120° (see Figure 6).



**FIGURE 6**

Note: For an Insert application a Tee is not required.



**FIGURE 7**

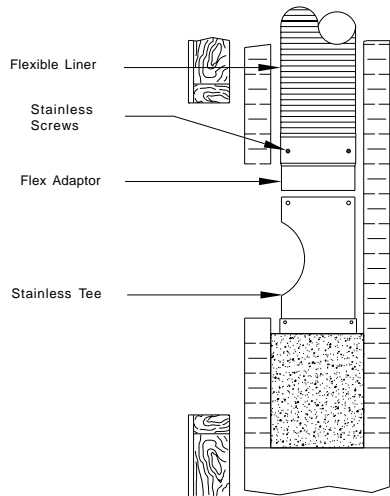
After feeding the liner down the chimney to the bottom, remove the Installation Sleeve/Pull-Down from the Flex Liner and remove it through the prepared opening in the chimney wall (see Figure 6). If the Flex Adapter and the T (without the branch) was not previously installed, do so now. Insert the Flex Adapter through the opening and assemble the Flex Adapter over the Flexible Liner, drill and secure with three stainless steel screws equally spaced at 120°.

Remove the Tee branch from the Tee and insert the Tee through the opening in the chimney. Push the other end of the Flexible Adapter into the Tee, drill and secure with three stainless steel screws equally spaced at 120° (see Figure 8).

## 8.0 INSTALLING THE LINER

Gather all necessary component parts and locate them near the termination of the chimney. This should consist of a Flashing Support assembly, a Rain Cap, and the prepared length of Flexible Liner complete with Flex Adapter, T (with branch removed), the Installation Sleeve/Pull-Down and rope. Feed the Installation Sleeve/Pull-Down rope down the chimney flue (see Figure 6 & 7). While an assistant gently pulls on the rope from below, start lowering the Flexible Liner down into the chimney flue. If additional lengths of Flex are required, join the sections together as the Flexible Liner progresses down the chimney.

Note: Due to possible snagging which may result in some surface damage, caution must be observed when lowering Liner lengths into the masonry flue.



**FIGURE 8**

## 9.0 FLASHING/SUPPORT INSTALLATION

Position the Support Flashing and center the flat plate on top of the clay tile. Mark the outline of the clay tile on the underside of the flashing plate. There should be a minimum of 2" (50mm) overhang on each side of the clay tile. Cut off each corner at 45° (see figure 9) and bend over the excess at the marked line using a pair of hand folders.

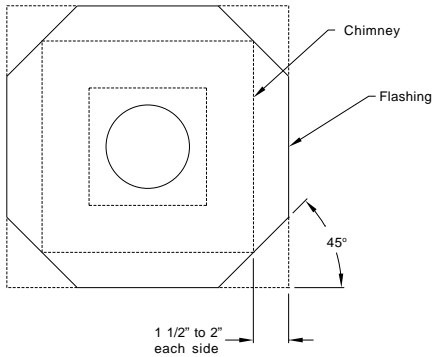


FIGURE 9

## 10.0 RAIN CAP INSTALLATION

Ensuring that the Tee previously installed on the end of the Liner is in the correct position, trim the Flexible Liner so that it is flush with the top of the chimney (or clay tile). Insert the Flashing Connector onto the Flashing/Support ensuring the sleeve of the flashing goes all the way into the Flashing Connector. Pull enough of the Flexible Liner out of the chimney to enable you to attach the Flexible Liner to the Flashing Connector on the bottom side of the flashing (see FIGURE 10 & 11).

Install three stainless screws through the Flex into the Flashing Connector. Place a wide bead of high temperature silicone along the entire top surface of the clay tile. Slide the Flex and Flashing assembly back into the chimney opening until the flashing plate comes to rest on the clay tile. Press the flashing firmly into the silicone to create a good seal (see FIGURE 11).

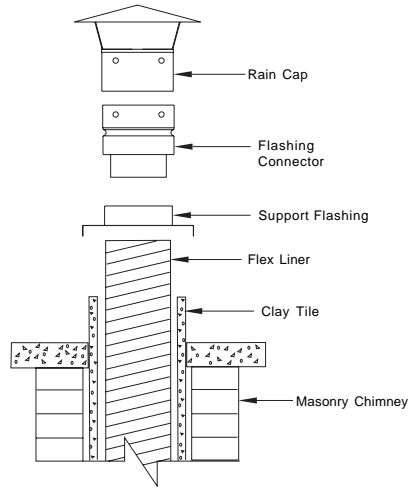


FIGURE 10

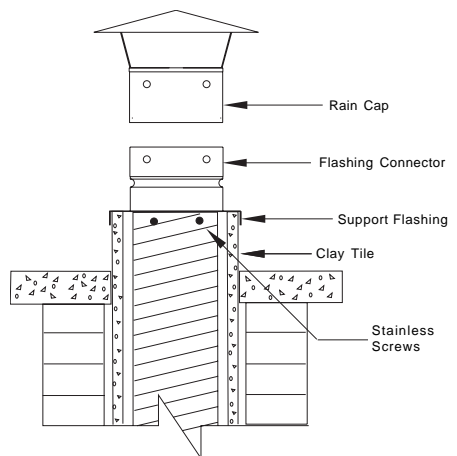


FIGURE 11

## 11.0 COMPLETION OF LINER BOTTOM (Wood Stove Only)

Before re-attaching the Tee Branch to the stainless Tee take a Slip Connector and slip the beaded end into the branch, and rivet parts together with the pop rivets supplied. Attach this section to the Tee section in the chimney with the screws inside the tee branch. Make sure the Liner is located in the centre of the chimney.

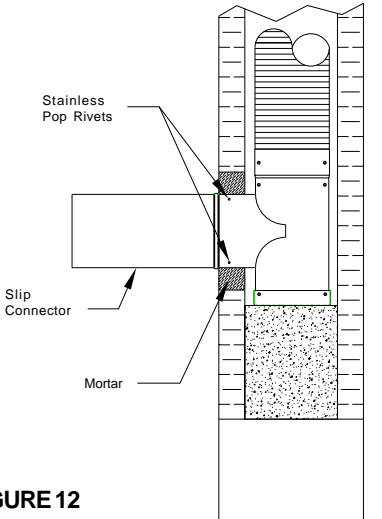


FIGURE 12

## 12.0 INSTALLATION OF APPLIANCE

Start piping from the Slip Connector from the Tee to the appliance. Follow all local building codes and manufacturers instructions. Unless certified for lesser clearances Code requirements for single wall uninsulated stove pipe and unprotected combustible material must not be less than 18" (457mm). Check your local codes for any differences. (Selkirk's DSP Double Wall Stove Pipe can be installed at reduced clearance of 6". Follow the installation instructions supplied with the DSP).

When a combustible wall or any combustible material is located in front of a brick chimney through which your stove pipe

passes through, the above mentioned clearances must be met (Figure 13) or an Insulated Wall Thimble (DSP-IWT) must be installed (see Section 14.0, Figure 14).

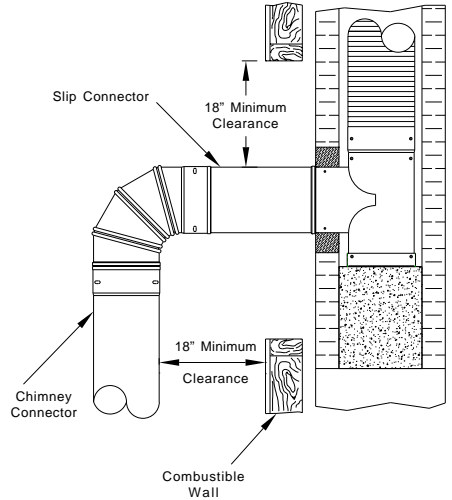


FIGURE 13

## 13.0 INSTALLATION COMPLETION

After the appliance is correctly positioned, all the venting connections are completed and checked for proper installation (clearances to combustibles, proper support and component parts), fill the void area around the penetration hole with mortar. High temperature ceramic sealant, or other non combustible filler material may be used as a substitute instead of mortar.

Upon completion of the installation fill in the applicable information below as well as on the label provided (#550034FS). Affix the label at a location close to where the connection is made to the appliance.

Installation Date: \_\_\_\_\_

Technician's Name: \_\_\_\_\_

Technician's Certification Number: \_\_\_\_\_

## 14.0 INSTALLATION OF INSULATED WALL THIMBLE (DSP-IWT)

If the 18-inch clearance to combustible materials – as mentioned in section 12 - is not acceptable, an Insulated Wall Thimble (DSP-IWT) can be installed to reduce this clearance to two inches (see FIGURE 14) and follow the installation instructions supplied with the IWT.

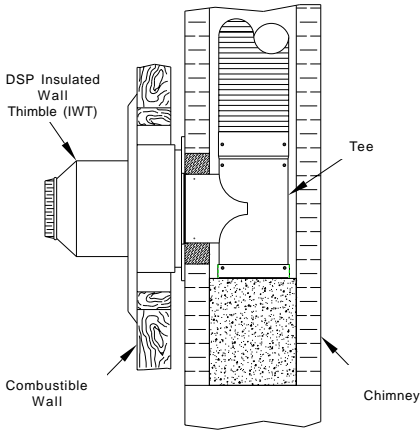


FIGURE 14

## 15.0 MAINTENANCE AND CLEANING OF CHIMNEY

### “Creosote and Soot – formation and need for removal”

When wood is burned slowly, it produces tar and other organic vapours, which combine with expelled moisture to form creosote. The creosote vapours condense in a relatively cool chimney flue of a slow-burning fire. As a result, creosote accumulates on the flue lining. When ignited, this creosote creates a chimney fire with temperatures in excess of 1125°C.

With a new installation, the chimney should be inspected frequently (every two weeks) to determine the rate of creosote formation.

When familiar with the appliance and chimney characteristics, the chimney should be inspected at least once every two months during the heating season to determine if a creosote or soot build-up has occurred. If creosote or soot build-up as occurred, it should be removed to reduce the risk of a chimney fire.

Contact a professional chimney sweep for chimney cleaning services and advice. To visually inspect the chimney, remove the three screws on the rain cap and lift it off the liner. This will permit the insertion of a flashlight or a chimney cleaning poly brush to inspect and/or clean the Flexible Liner.

**WARNING:**  
**DO NOT USE FUEL MATERIALS CORROSIVE TO THE CHIMNEY LINER SUCH AS DRIFTWOOD, PLASTICS, GARBAGE, CHEMICALLY TREATED WOOD, ETC.**

# LIMITED LIFETIME WARRANTY

## Selkirk Chimney & Venting Products

Selkirk Canada Corporation, ("Selkirk", "we", "us", "our") warrants Selkirk products\* to be free from defects in material and workmanship for as long as the original consumer owns the system. For products installed after January 1, 2000, for a period of Ten (10) years from original installation, we will provide replacement product with a similar or like quality of available Selkirk product, **free of charge** excluding any installation costs. From the Eleventh (11) through Fifteenth (15) years we will provide replacement product to the original consumer at a cost of 75% off the published Retail Price in effect on the date the claim is received excluding any installation costs. At expiration of the Fifteen (15) year term, we will provide replacement product to the original consumer at a cost of 50% off the published Retail Price in effect on the date the claim is received excluding any installation costs.

\* additional coverage applies to Model CF Chimney

### LIMITATIONS:

- Products must be installed for their intended purpose and in accordance with current Selkirk installation instructions.
- Products must be connected to an appliance listed with an accredited testing laboratory.

**WARNING: FAILURE TO INSTALL SELKIRK PRODUCTS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WILL VOID ALL APPLICABLE WARRANTIES AND MAY RESULT IN FIRE, CARBON MONOXIDE POISONING OR DEATH. SEE OUR SELKIRK INSTALLATION INSTRUCTIONS FOR COMPLETE INSTALLATION PROCEDURES.**

### WARRANTY COVERAGE:

This warranty covers any substantial defects in material and workmanship in normal use that are found to exist in any of the insulated chimney sections or component parts of your chimney with the exception stated below.

### THIS WARRANTY DOES NOT COVER:

- (a) any non-stainless base tee unit mounted or connected to an Insulated Chimney system;
- (b) **costs (labor or otherwise \*\*) associated with either removing a previously installed product, installing a replacement product, transportation or return of a product, or transportation of replacement product;**
- (c) damage to the finish of products caused by the use of improper solvents/chemicals or improper cleaning methods;
- (d) damage resulting from failure to reasonably clean, care for or maintain products in accordance with our installation instructions/recommendations;
- (e) damage (to products, appliances or structure on or resulting from improper installation or repair, misuse or abuse (including, but not limited to, excessive or improper operating condition), or alteration or adjustment other than in conformity with our installation instructions and specifications, whether performed by a contractor, service company, technician, or yourself;
- (f) any products that have been moved from their original installation site.
- (g) damage caused by burning driftwood, garbage, or any other prohibitive material which has been burned in the appliance served by the chimney
- (h) damage that results from accidents such as fire, flood, high winds, "acts of God", or any other contingency beyond our control.

**\*\* Due to the wide variance in installation practices and other conditions beyond our control, we do not guarantee or in any way warrant the installation of Chimney and Venting products.**

### CLAIM PROCEDURE:

If you believe that a product is defective, notify us in writing at the following location:

**SELKIRK CANADA CORPORATION**  
P.O. Box 526, Depot 1,  
Hamilton, Ontario, Canada , L8L 7X6  
ATTN: WARRANTY CLAIMS DEPARTMENT  
905-662-6600, 800-263-9308, Fax: 905-662-5352  
www.selkirkcanada.com

**SELKIRK LLC**  
ATTN: WARRANTY CLAIMS  
14081 Quorum Dr., Dallas, Texas 75240  
800-992-VENT (8368),  
Toll Free Fax 877- 393-4145  
www.selkirkinc.com

Notification should include a description of the product, model and serial number (if applicable) and a description of the product defect. Upon receipt of a written claim under this limited warranty and evidence of the date of purchase or installation, at our option and in our sole discretion, we will provide replacement product with similar or like quality of available Selkirk product excluding any installation costs. Selkirk Canada Corporation reserves the right to inspect or investigate any warranty claims prior to determining whether to provide replacement product. If, as determined by Selkirk Canada Corporation, repair or replacement of the product is not commercially practicable or cannot be completed in a timely manner, we may refund the purchase price paid for the product, prorated to the terms of this warranty, upon verification by providing a copy of your invoice or receipt of bill of sale.

Selkirk products covered under this warranty:

model AFCL, ALT, DSP, DT, DWC, DWS, FC (JSC), QC, RV, SC (JM), SFCL, SL, SPR, SSII, SS PLUS, ST, UT, VP, WV