



# CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

C-18-002302

## I. IDENTIFICATION

1. Proposed Work Site at: 1627 Hoffman Street Brick.

2. Name of Owner in Fee: Patrick Moran.

Tel. [REDACTED] e-mail \_\_\_\_\_

Address 1627 Hoffman St Brick.

3. Ownership in Fee: ☒ Public ☐ Private

4. Principal Contractor: A-1 AFFORDABLE CONSTRUCTION Tel. \_\_\_\_\_

Address 164 GETTY AVENUE

CLIFTON NJ 07011

TEL: (973) 272-1344 FAX: (201) 731-0207 e-mail \_\_\_\_\_

LIC# 13VH00843200

TAX ID: 22-3386524

License No. OR, if new home, Builder Reg. No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

Home Improvement Contractor Registration No. or Exemption Reason \_\_\_\_\_

Federal Emp. ID No. \_\_\_\_\_ FAX: \_\_\_\_\_

5. Architect or Engineer \_\_\_\_\_ Contact \_\_\_\_\_

Address \_\_\_\_\_ e-mail \_\_\_\_\_

Tel. \_\_\_\_\_ FAX: \_\_\_\_\_

6. Responsible Person in Charge once Work has Begun MJ-A1 Affordable

Tel. 973-272-1344 FAX: (201) 731-0207

## V. FEE SUMMARY (for office use only)

|                                           |    | Update      | Update |
|-------------------------------------------|----|-------------|--------|
| 1. Building                               | \$ |             |        |
| 2. Electrical                             |    |             |        |
| 3. Plumbing                               |    |             |        |
| 4. Fire Protection                        |    |             |        |
| 5. <del>Elevator Devices</del> Mechanical |    | <u>125</u>  |        |
| 6. Subtotal                               |    |             |        |
| 7. Less 20% for State Plan Review         | \$ |             |        |
| 8. Subtotal                               | \$ |             |        |
| 9. State Permit Surcharge Fee             |    | <u>2-</u>   |        |
| 10. Subtotal                              | \$ |             |        |
| 11. Cert. of Occupancy                    |    |             |        |
| 12. Other                                 |    |             |        |
| 13. TOTAL                                 | \$ | <u>127-</u> |        |

## VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories \_\_\_\_\_

2. Height of Structure \_\_\_\_\_ ft.

3. Area — Largest Floor \_\_\_\_\_ sq. ft.

4. New Building Area \_\_\_\_\_ sq. ft.

5. Volume of New Structure \_\_\_\_\_ cu. ft.

6. Max. Live Load \_\_\_\_\_

7. Max. Occupancy Load \_\_\_\_\_

8. If Industrialized Building: State Approved \_\_\_\_\_ HUD \_\_\_\_\_

9. Total Land Area Disturbed \_\_\_\_\_ sq. ft.

10. Flood Hazard Zone \_\_\_\_\_

11. Base Flood Elevation \_\_\_\_\_ ft.

12. Wetlands yes \_\_\_\_\_ no \_\_\_\_\_

## IIa. PROPOSED WORK

- ☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition
- ☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction
- ☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

## IIb. SUBCODES

(Check all that apply)

- ☐ Building
- ☐ Electrical
- ☐ Plumbing
- ☐ Fire Protection
- ☒ Mechanical
- ☒ Elevator

## FOR OFFICE USE ONLY (Optional)

| Est. Cost | Plans Rec'd by | Date Rec'd | Rejection Date | Approval Date | Re-viewer | Resubmission Dates Approval | Rejection | Re-viewer |
|-----------|----------------|------------|----------------|---------------|-----------|-----------------------------|-----------|-----------|
|           |                |            |                |               |           |                             |           |           |
|           |                |            |                |               |           |                             |           |           |
|           |                |            |                |               |           |                             |           |           |
|           |                |            |                |               |           |                             |           |           |
|           |                |            |                |               |           |                             |           |           |
|           |                |            |                |               |           |                             |           |           |
|           |                |            |                |               |           |                             |           |           |

TOTAL COST 1000 \$0

## III. PLAN REVIEW (optional)

DO YOU WANT:

1. ☐ Partial Releases
2. ☐ Prototype Processing

## IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/ Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers/Standpipes
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs
11. ☐ LPGas Tanks
12. ☐ Fire Alarm

## VII. DESCRIPTION OF BUILDING USE

### A. RESIDENTIAL (primary use)

1. State Specific Use: \_\_\_\_\_
2. Use Group, Proposed: Select Group \_\_\_\_\_
3. Change in Use Group, Indicate Present: Select Group \_\_\_\_\_
4. No. of dwelling units: Total Units Income-restricted
- Gained, Sale \_\_\_\_\_
- Gained, Rental \_\_\_\_\_
- Lost, Sale \_\_\_\_\_
- Lost, Rental \_\_\_\_\_

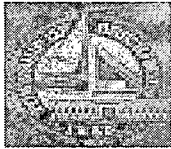
### B. NON-RESIDENTIAL (primary use)

1. State Specific Use: \_\_\_\_\_
2. Use Group, Proposed: Select Group \_\_\_\_\_
3. Change in Use Group, Indicate Present: Select Group \_\_\_\_\_

### C. MIXED USE -List secondary use(s):

### D. Construct. Classification: Present

Proposed \_\_\_\_\_



Brick Township  
401 Chambersbridge Rd  
Brick, NJ 08723

Date Issued 2/14/2019  
Control Number C-18-002302  
Permit Number 18-1861  
Permit Issue Date 7/5/2018  
Certificate Number 18-1861

## Certificate

Construction Code Division

(Certificate of Approval)

### Identification

Work Site Location: 1627 HOFFMAN ST. Brick Township, NJ Block: 838 Lot: 37 Qual: \_\_\_\_\_  
Owner in Fee: MORAN, PATRICK J. & MARGHERITA  
Owner Address: 1627 HOFFMAN ST. BRICK NJ 08724  
Telephone: [REDACTED]  
Contractor A-1 Affordable Construction  
Address 164 GETTY AVENUE Clifton NJ 07011  
Telephone: (973) 272-1344 Fax: (201) 731-0207  
License Number or Builders Registration Number: \_\_\_\_\_ Federal Emp. Number: 223386524

Home Warranty Number: \_\_\_\_\_

Type of Warranty Plan: ☐ State ☐ Private

Use Group: R-5 Construction Classification: \_\_\_\_\_

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: CHIMNEY LINER

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

**Conditions to be met:**

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

☐ Total removal of lead-based paint hazards in scope of work

☐ Partial or limited time period ( \_\_\_\_\_ years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

☐ Total removal of asbestos hazards in scope of work

☐ Partial or limited time period ( \_\_\_\_\_ years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

**Conditions to be met:**

Construction Official

Fee: \$0.00

Check Number: \_\_\_\_\_

Collected By: \_\_\_\_\_



# MECHANICAL INSPECTION TECHNICAL SECTION



**A. IDENTIFICATION—APPLICANT:** COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 838 Lot 37 Qualification Code \_\_\_\_\_

Work Site Location 1027 Hoffman Street Brick

Owner in Fee: Patrick Moran

Tel. \_\_\_\_\_ e-mail \_\_\_\_\_

Address 1027 Hoffman Street Brick street municipality zip code

Contractor: A-1 AFFORDABLE CONSTRUCTION Tel. \_\_\_\_\_

Address 164 GETTY AVENUE e-mail \_\_\_\_\_

CLIFTON NJ 07011

TEL: (973)272-1344 FAX: (201)731-0207

Contractor License No. LIC# 13VH00843200 Exp. Date \_\_\_\_\_

Home Improvement Contractor Registration No. or Exemption Reason \_\_\_\_\_

Federal Emp. ID No. \_\_\_\_\_ FAX: \_\_\_\_\_

## B. MECHANICAL CHARACTERISTICS

Use Group Present: R-5

Heating System work: ☐ New OR ☐ Modification to Existing OR ☐ Conversion OR ☐ Replacement

Type: ☐ Hydronic ☐ Hot Air

Fuel Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar ☐ Other \_\_\_\_\_

Estimated Cost of Mechanical Work \$ 1000

### JOB SUMMARY (Office Use Only)

#### PLAN REVIEW

☐ No Plans Required

☐ Mechanical Plans Approved

Date: \_\_\_\_\_ Approved by: \_\_\_\_\_

Joint Plan Review Required:

☐ Bldg. ☐ Elec. ☐ Plumb. ☐ Fire.

☐ Elev.

SUBCODE APPROVAL for PERMIT

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

Approved by: \_\_\_\_\_

SUBCODE APPPROVAL for CERTIFICATE

☐ CA ☐ CCO

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

Approved by: \_\_\_\_\_

#### INSPECTIONS

Type:

Gas Piping

Appliance

Chimney/Vent

Oil Piping

Oil Tank

LPG Tank

Hydronic Piping

Fireplace

Chimney Cert.

Other \_\_\_\_\_

#### DATES

Failure

Failure

Approval

Initial

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Applicant sign/Contractor

sign and seal here:

Print name here: George Solimene

☒ Licensed Contractor

☐ Exempt Applicant

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK

install ALuminum Chimney Liner.

NO.

FIXTURE/EQUIPMENT

\_\_\_\_\_

Water Heater

\_\_\_\_\_

Fuel Oil Piping Connections

\_\_\_\_\_

Gas Piping Connections

\_\_\_\_\_

Steam Boiler

\_\_\_\_\_

Hot Water Boiler

\_\_\_\_\_

Hot Air Furnace

\_\_\_\_\_

Oil Tank

\_\_\_\_\_

LPG Tank

\_\_\_\_\_

Fireplace

\_\_\_\_\_

Generator

\_\_\_\_\_

Other Chimney Liner

FEE (Office Use Only)

\$ \_\_\_\_\_

Administrative Surcharge \$ \_\_\_\_\_

Minimum Fee \$ \_\_\_\_\_

State Permit Surcharge Fee \$ \_\_\_\_\_

TOTAL FEE \$ \_\_\_\_\_

## CERTIFICATION IN LIEU OF OATH

### I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals, including such certification as the construction official may require, have been given or will be given prior to permit issuance.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature \_\_\_\_\_ Date \_\_\_\_\_

### II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals, including such certification as the construction official may require, have been given or will be given prior to permit issuance.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.



**A-1 Affordable  
Construction**

164 Getty Avenue  
Clifton NJ 07011

Agent Name \_\_\_\_\_

Address \_\_\_\_\_

Telephone (973) 272-1344

Signature \_\_\_\_\_

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:23-2.15(b)4.

- IV. ☐ HOME ELEVATION: Include Home Elevation Contractor Certification as per N.J.S.A. 52:27D-123.16.



# MECHANICAL INSPECTION TECHNICAL SECTION



**A. IDENTIFICATION—APPLICANT:** COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 838 Lot 37 Qualification Code \_\_\_\_\_  
Work Site Location 1627 Hoffman Street Brick

Owner in Fee: Patrick Moran

Tel. \_\_\_\_\_ e-mail \_\_\_\_\_  
Address 1627 Hoffman Street Brick  
street municipality zip code

Contractor: A-1 AFFORDABLE CONSTRUCTION Tel. \_\_\_\_\_  
Address 164 GETTY AVENUE  
CLIFTON NJ 07011 e-mail \_\_\_\_\_  
TEL: (973)272-1344 FAX: (201)731-0207

Contractor License No. LIC# 13VH00843200 Exp. Date \_\_\_\_\_  
TAX ID: 22-3386524

Home Improvement Contractor Registration No. or Exemption Reason \_\_\_\_\_

Federal Emp. ID No. \_\_\_\_\_ FAX: \_\_\_\_\_

## B. MECHANICAL CHARACTERISTICS

Use Group Present: R-5

Heating System work: [ ] New OR [ ] Modification to Existing OR [ ] Conversion OR [ ] Replacement

Type: [ ] Hydronic [ ] Hot Air

Fuel Type: [ ] Gas [ ] Oil [ ] Electric [ ] Solar [ ] Other \_\_\_\_\_

Estimated Cost of Mechanical Work \$ 1000

### JOB SUMMARY (Office Use Only)

#### PLAN REVIEW

[ ] No Plans Required

[ ] Mechanical Plans Approved

Date: \_\_\_\_\_ Approved by: \_\_\_\_\_

Joint Plan Review Required:

[ ] Bldg. [ ] Elec. [ ] Plumb. [ ] Fire

[ ] Elev.

SUBCODE APPROVAL for PERMIT

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

Approved by: \_\_\_\_\_

SUBCODE APPROVAL for CERTIFICATE

[ ] CA [ ] CCO

Date: 2-8-19

Approved by: \_\_\_\_\_

#### INSPECTIONS

Type:

Gas Piping

Appliance

Chimney/Vent

Oil Piping

Oil Tank

LPG Tank

Hydronic Piping

Fireplace

Chimney Cert

Other FINAL

#### DATES

Failure

Failure

Approval

Initial

2-8-19

## C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Applicant sign/Contractor sign and seal here:

Print name here: George Solimene

☒ Licensed Contractor

☐ Exempt Applicant

## D. TECHNICAL SITE DATA

### DESCRIPTION OF WORK

install ALUMINUM Chimney Liner.

### NO. FIXTURE/EQUIPMENT

\_\_\_\_ Water Heater  
\_\_\_\_ Fuel Oil Piping Connections  
\_\_\_\_ Gas Piping Connections  
\_\_\_\_ Steam Boiler  
\_\_\_\_ Hot Water Boiler  
\_\_\_\_ Hot Air Furnace  
\_\_\_\_ Oil Tank  
\_\_\_\_ LPG Tank  
\_\_\_\_ Fireplace  
\_\_\_\_ Generator  
\_\_\_\_ Other Chimney Liner

### FEE (Office Use Only)

\$ \_\_\_\_\_

Administrative Surcharge \$ \_\_\_\_\_

Minimum Fee \$ \_\_\_\_\_

State Permit Surcharge Fee \$ \_\_\_\_\_

**TOTAL FEE \$** \_\_\_\_\_



# CONSTRUCTION PERMIT

Date Issued 4/5/18  
Control # C-18-002302  
Permit # 18-1861

IDENTIFICATION Block: 838 Lot: 37 Qualifier \_\_\_\_\_  
Work Site Location: 1627 HOFFMAN ST. Brick Township, NJ Contractor A-1 Affordable Construction  
Address 164 GETTY AVENUE Clifton NJ 07011  
Owner in Fee MORAN, PATRICK J. & MARGHERITA  
1627 HOFFMAN ST. BRICK NJ 08724 Telephone: (973) 272-1344  
Lic. No. or Bldrs. Reg. No. 13VH00843200 13VH00843200  
Telephone: [REDACTED] Federal Employee No. 22336624

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT  
☐ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION  
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☒ OTHER

DESCRIPTION OF WORK:

CHIMNEY LINER

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$1,000

Daniel F. Xxxxxxx  
Construction Official

6/19/18  
Date

U.C.C. F170  
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

## PAYMENTS (Office Use Only)

|                  |                    |
|------------------|--------------------|
| Building         | \$0                |
| Electrical       | \$0                |
| Plumbing         | \$0                |
| Fire Protection  | \$0                |
| Elevator Devices | \$0                |
| Other            | \$125.00           |
| DCA Training Fee | \$2                |
| CO Fee           |                    |
| Other            | \$0                |
| Total            | \$127              |
| Check No.        | <u>11395</u>       |
| Cash             | \$0                |
| Credit           | \$0                |
| Collected By     | <u>[Signature]</u> |

## REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☒ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



# CHIMNEY VERIFICATION FOR REPLACEMENT OF FUEL-FIRED EQUIPMENT

BLOCK \_\_\_\_\_ LOT \_\_\_\_\_ QUALIFICATION CODE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
WORK SITE ADDRESS 1627 Hoffman St. Wick NJ  
Owner in Fee \_\_\_\_\_  
Verifying Individual GEORGE SOLIMENE Company A1 AFFORDABLE CONSTRUCTION  
Address 164 GETTY AVENUE CLIFTON NJ 07011  
Tel: (973) 272-1344 Fax: (201) 731-0207

## Check the Appropriate Box(es):

### Type of Replacement:

- ☐ Oil to Gas Conversion  
☐ Gas to Oil Conversion  
☐ Gas Appliance Replacement  
☐ Oil to Oil Replacement  
☒ Other \_\_\_\_\_

### Existing Vent/Chimney:

- ☐ "B" Label Vent  
☐ "L" Label Vent  
☐ Flexible Liner  
☐ Power Vent/Exhauster

Size 8x8

- ☐ Chimney-Interior  
☒ Chimney-Exterior  
☒ Masonry Chimney-Tile Lined  
☐ Masonry Chimney-Unlined  
☐ Other \_\_\_\_\_

Appliance 1: Further CE  
Appliance 2: Hot water  
Appliance 3: \_\_\_\_\_

Fuel Type  
Oil / ☒ Gas / Other: \_\_\_\_\_  
Oil / ☒ Gas / Other: \_\_\_\_\_  
Oil / Gas / Other: \_\_\_\_\_

BTU Rating (Input/hour)  
100,000  
40,000

## CHIMNEY LINER

If a chimney liner is being installed, all documentation on the liner must accompany the Permit application.

Manufacturer: SELKIRK Model: ALK/AFCI UL Listing: 1777(MH17666)

Material of Liner: Stainless Steel \_\_\_\_\_ Aluminum ☒

Size of Appliance Vent: 4 1/2" Size of Liner: 6" Height of Chimney: 15 ft

Length of Connector: 2 ft Vent Connector Rise: 2 ft

How does the appliance vent? ☐ Natural Draft ☒ Fan-assisted ☐ Other \_\_\_\_\_

## PLEASE SIGN ONE OF THE FOLLOWING VERIFICATION STATEMENTS

### For Oil or Coal to Gas Conversions:

I have verified that the chimney/vent is in good repair and clear of obstruction and is substantially clean of residue from its previous use serving an oil or coal appliance. I have verified that the chimney/vent is appropriately lined and sized for the appliance(s) being installed.

Signature \_\_\_\_\_

Date \_\_\_\_\_

### Oil to Oil or Gas to Gas Replacements or New/Additional Appliances:

I have verified that the existing chimney/vent is in good repair and clear of obstruction. I have verified that the existing chimney/vent is appropriately lined and sized for the appliance(s) being installed and/or remaining.

Signature \_\_\_\_\_

Date \_\_\_\_\_

### Direct Vent Appliance:

I hereby verify that the appliance(s) being installed is a direct vent appliance. I further verify that the existing chimney/vent is appropriately lined and sized for any remaining appliances.

Signature \_\_\_\_\_

Date \_\_\_\_\_

### Verification Not Submitted:

I choose not to submit verification. I understand that I will be required to be present for the inspection to remove and reinstall the chimney vent connector.

Signature \_\_\_\_\_

Date \_\_\_\_\_

FOR MINOR AND EMERGENCY WORK, THIS FORM MUST BE PROVIDED WITH YOUR PERMIT APPLICATION. FOR ALL OTHER WORK, THIS FORM MUST BE PRESENTED TO THE CODE OFFICIAL PRIOR TO FINAL INSPECTION.

*All applicable information requested on this form must be supplied.  
This form may not be submitted by a homeowner in lieu of the required inspection.*

CA-20

NOT AN  
ELECTRICIAN'S  
OR PLUMBER'S  
LICENSE

State Of New Jersey  
New Jersey Office of the Attorney General  
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE  
Division of Consumer Affairs

HAS REGISTERED

A-1 AFFORDABLE CONSTRUCTION  
George Solimene  
139 Ackerman Ave.  
Clifton NJ 07011

FOR PRACTICE IN NEW JERSEY AS A(N): Home Improvement Contractor

02/22/2018 TO 03/31/2019  
VALID

13VH00843200  
LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

ACTING DIRECTOR

New Jersey Office of the Attorney General  
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE  
Division of Consumer Affairs

HAS REGISTERED

A-1 AFFORDABLE CONSTRUCTION  
Home Improvement Contractor

NOT AN  
ELECTRICIAN'S  
02/22/2018 TO 03/31/2019  
VALID

13VH00843200  
License/Registration/Certification #

PLEASE DETACH HERE  
IF YOUR LICENSE/REGISTRATION/  
CERTIFICATE ID CARD IS LOST  
PLEASE NOTIFY:  
Division of Consumer Affairs  
P.O. Box 46016  
Newark, NJ 07101

PLEASE DETACH HERE

# FLEXI-LINER® Installation Instructions

## Aluminum Flexible Chimney Liner and Gas Vent Connector

Model ALK/AFCL

PLEASE READ AND UNDERSTAND THE REQUIREMENTS BEFORE PROCEEDING

### For Installation into Masonry Chimneys

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

#### Types of Appliance

Flexi-Liner® is designed for use in existing masonry or listed factory-built chimneys and vents as a chimney liner for Category 1 listed gas-fired appliances equipped with draft hoods and other gas appliances listed for use with Type B Gas Vent that burn natural gas or propane, under neutral or negative draft.

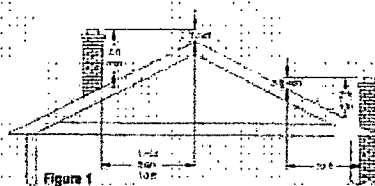
**CAUTION:** THIS ALUMINUM LINER IS NOT INTENDED FOR SOLID OR LIQUID FUEL-BURNING APPLIANCES!

#### Sizes, Location & Clearances

Ensure your installation will conform with all federal and

municipal building code requirements. Before commencing installation, CONTACT LOCAL GAS UTILITY OR LOCAL BUILDING OR FIRE OFFICIALS ABOUT

RESTRICTIONS AND INSTALLATION IN YOUR AREA. Obtain any necessary building permits. 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.)



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. Vent size recommendations are detailed in the CAN/CSA-B149.100 in Canada or the National Fuel Gas Code NFPA-54 in the USA. As per the above Fuel Gas Codes, all flexible metallic chimney liners are

to be sized using Type B Gas Vent sizing tables, with maximum capacities reduced by 20%. We have included sizing information in the back of this instruction book for flexible chimney liners.

Consult the appliance manufacturer's installation instructions regarding the maximum venting run allowed.

**WARNING**  
Failure to follow these installation instructions could cause FIRE, CARBON MONOXIDE POISONING OR DEATH. If you are unsure of installation requirements, call the Phone Number listed on the back of these instructions.

**IMPORTANT:** FLEXI-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.



UL1777  
CAN/ULC-S635

Flexi-Liner®

IT IS OF THE UTMOST IMPORTANCE THAT THIS CHIMNEY LINER BE INSTALLED ONLY IN ACCORDANCE WITH THESE INSTRUCTIONS. 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 MANUFACTURER'S WARRANTY. KEEP THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE USE.

## FLEXI-LINER®

### Aluminum Flexible Chimney Liner and Gas Vent Connector

### Installation Instructions

Your liner has been listed for installation at zero clearance to the inside masonry surface of an existing masonry or factory-built chimney and with zero clearance between the outside surface of the masonry chimney and surrounding combustibles.

Do not fill the airspace between the liner and chimney with loose fill insulation or cement.

The Flexi-Liner and any Type B Gas Vent may be used in any combination desired to complete the system.

When used as a Vent Connector, install with 1" (25mm) minimum airspace clearance to combustibles.

At no time should an exposed portion of the Flexi-Liner be enclosed or pass through any combustible area or materials, such as walls, ceilings, floors, roofs, attics, crawl spaces or joist areas, as this product is not listed as Type B Gas Vent.

Use Type B Gas Vent or Flexi-Sleeve (sold separately) to minimize condensation and down-drafting, particularly if:

- The flue gas temperature is below 280°F at the entry point into the liner.
- Flexible Liner is to be installed in an exterior or oversized chimney. An exterior chimney has one or more sides exposed to the outdoors.
- The liner system is venting only fan-assisted appliances.
- The masonry chimney contains solid or liquid fuel residue from prior heating appliances.
- The appliance is equipped with a vent damper.

#### Liner Components

The following parts are available for liner installation.

- 15' Flexible Liner Kit (3" to 5" only)
- 25' Flexible Chimney Liner Kit
- 35' Flexible Chimney Liner Kit

Kits include applicable length of Flexible Liner, Support/Flashing assembly, Round Top, Mortar Guard, screws and installation instructions.

**Note:** The 5.5" flex kit also includes a 5.5" to 6" Flexible Connector.

The following additional parts are available.

- Guide Cone (pull-down)
- 10' Extension Kit
- Flexible Connector
- B-Vent Adapter
- Flexible Sleeve Insulation

#### Tools and Materials

The following tools and materials are needed.

- Safety gloves
- Eye protection
- Ladder or scaffolding to reach the roof
- Masonry drill bit 1/2" or 3/8"
- High speed drill bit 3/8"
- 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

**CAUTION:** Always wear gloves and eye protection during installation to avoid personal injury.

#### 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.

#### Chimney Preparation

##### PREPARING FOR A STAND-ALONE APPLIANCE INSTALLATION

If no opening currently exists, determine the location of the point where the vent system will penetrate the masonry wall, and prepare an opening through the masonry and any existing clay liner (with a masonry drill bit, cold chisel and hammer) large enough to accommodate the Mortar Guard, allowing for the Flexible Liner to exit the chimney opening. The opening must be located above the appliance outlet as high as possible to maximize connector rise yet maintain the proper clearances (see Figure 2a). It is recommended to install an inspection/clean-out door on the opposite side if conditions permit.

## FLEXI-LINER®

### Aluminum Flexible Chimney Liner and Gas Vent Connector

### Installation Instructions

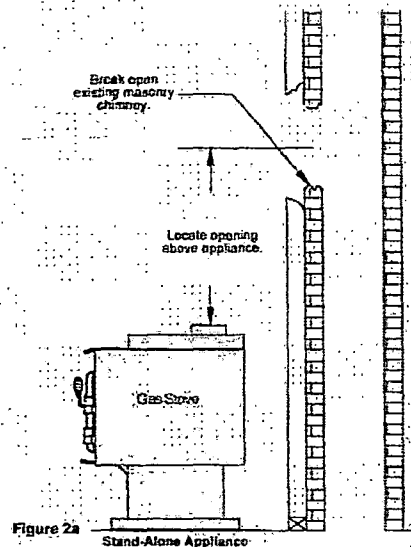


Figure 2a

#### 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).

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

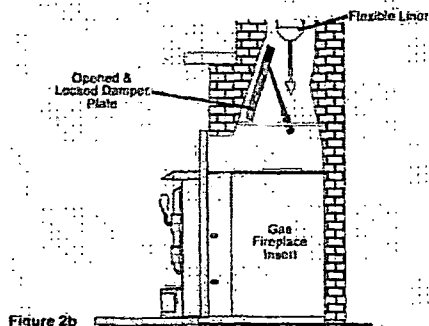


Figure 2b

Flexi-Liner®

#### PREPARING TOP OF CHIMNEY

Your chimney may have a clay tile liner that 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 are showing. Once the repairs are done, follow the **Flashing/Support Installation - Masonry Chimney** section on page 5. 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. When you have finished making the top of the chimney flush, fill in any cracks and uneven surfaces with mortar.

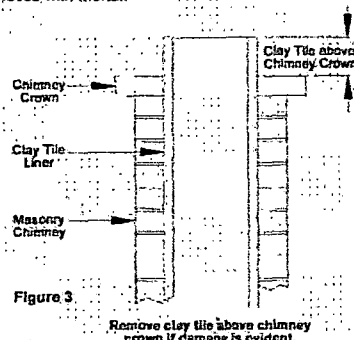


Figure 3

#### Liner Preparation

##### DETERMINING LINER LENGTH

Determine the required length of the liner by measuring the distance from the prepared opening to the top of the chimney, allowing for a 90-degree bend at the inlet. If the flexible liner will extend directly to the appliance, add the distance from the appliance exhaust collar to the prepared opening in the chimney flue, allowing for any required bends. Multiple lengths may be joined, using the Flexible Connector (see Figure 4).

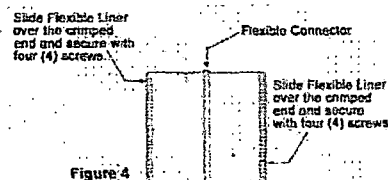


Figure 4

3

## FLEXI-LINER®

### Aluminum Flexible Chimney Liner and Gas Vent Connector

### Installation Instructions

#### TRIMMING THE LINER

Select the length(s) necessary to accommodate the required distance determined above. Stretch the Flexible Liner to the desired length (requires 2 people) by placing both hands around the circumference of the ends of the liner and gently pulling. If any Flexible Liner requires cutting, use a sharp fine-toothed hacksaw.

**CAUTION:** Do not attach the Flexible Connector and use it to stretch the liner. This may result in damage to the Flexible Liner.

#### GUIDE CONE (PULL-DOWN ASSEMBLY)

A Guide Cone (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 Flexible Liner through the chimney. With one end of the rope, simply tie a knot around the band of the Guide Cone. Attach the Guide Cone to the flex by sliding it over the Flexible Liner and inserting screws through the prepunched holes (see Figure 5). Once the Flexible Liner has been lowered in its final position, remove the Guide Cone.

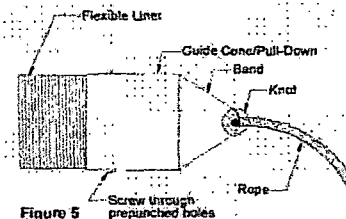


Figure 5

#### Installing the Liner

##### STAND-ALONE APPLIANCE

Gather all necessary component parts and locate them near the termination of the chimney. This should consist of a Support/Flashing assembly, a Round Top, and the prepared length of Flexible Liner complete with Guide Cone and rope. Feed the Guide Cone and rope down the chimney flue (see Figure 6). 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. After feeding the liner down the chimney to the bottom, form a 90-degree bend and bring the Flexible Liner through the prepared opening of the chimney wall (see Figure 6).

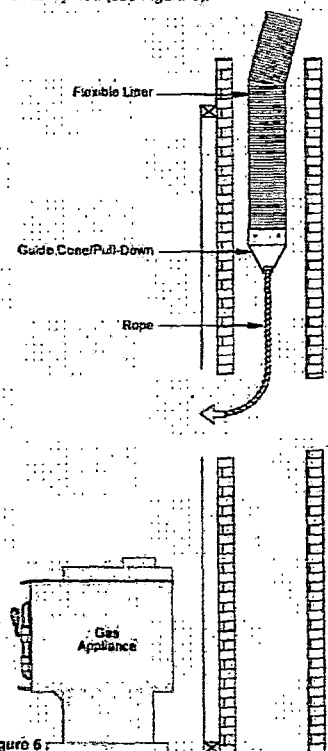


Figure 6

For the liner to extend directly to the appliance, continue to pull through the required amount of liner to allow a proper connection to the appliance exhaust collar. Any portion of liner used as a connector in a nearly horizontal orientation should include a minimum slope of 1/4" per foot upward from the appliance toward the chimney.

4

Flexi-Liner®

## FLEXI-LINER®

### Aluminum Flexible Chimney Liner and Gas Vent Connector

#### GAS FIREPLACE INSERT

Follow the Liner Preparation - Guide Cone (Pull-Down Assembly) section on page 4. Feed the liner down the chimney until it exits through the masonry fireplace opening (see Figure 7). Most gas fireplace inserts are equipped with a removable draft hood for easy flex to insert connection. Check the insert manufacturer's instructions for correct connection. Remove the Guide Cone from the Flexible Liner.

Attach the Flexible Liner over the collar of the gas fireplace insert (check the appliance manufacturer's instructions for proper attachment). Once the insert is in its proper place, pull the excess Flexible Liner from the top of the chimney.

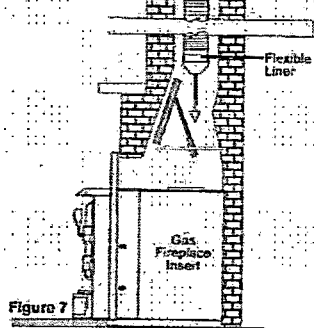


Figure 7

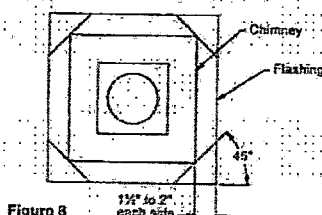


Figure 8

#### Flashing/Support Installation - Masonry Chimney

Position the 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) of overhang on each side of the clay tile. Cut off each corner at 45° (see Figure 8), and bend over the excess at the marked line, using a pair of hand folders.

Flexi-Liner®

#### Installation Instructions

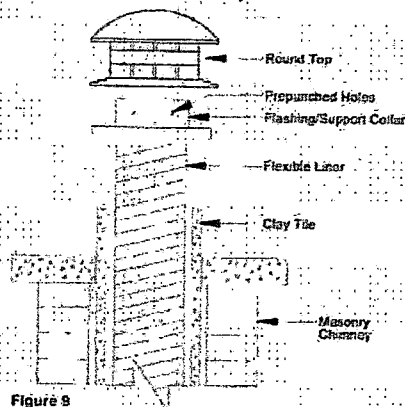


Figure 9

#### Round Top Installation - Masonry

Pull enough of the Flexible Liner through the Flashing/Support assembly to be able to slide the Round Top into the Flexible Liner (see Figures 9 and 10).

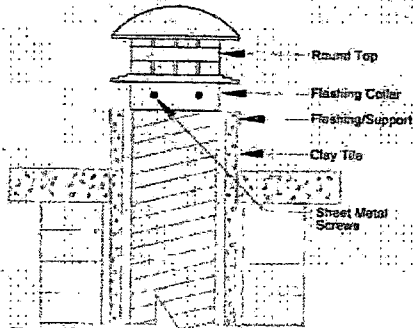


Figure 10

Slide the Round Top and Liner back through the Flashing/Support assembly until the skirt of the Round Top comes in contact with the collar of the Flashing/Support assembly. Install the four (4) 3/4" sheet metal screws (provided) through the prepunched holes in the Flashing collar (see Figure 9).

**Note:** For 5.5" Flex, the Round Top installs to the outside of Flex, and must be fastened with screws.

5

## FLEXI-LINER®

### Aluminum Flexible Chimney Liner and Gas Vent Connector

#### Installation Instructions

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 10).

#### Round Top Installation - Existing Factory-Built Chimney

One method is offered for the installation of Flexi-Liner in an existing factory-built chimney.

#### Flexible Liner Kit with Liner Round Top

1. Remove existing chimney top and discard.
2. Center the Flashing/Support on the factory-built chimney. Mark the outline of the factory-built chimney on the underside of the Flashing/Support plate (see Figure 11a). The flashing is then trimmed flush with the outline, and secured in place from the top with sheet metal screws once it is siliconed in place, as per step 6.
3. As an alternative to step 2, to have an overhang, the flashing/support is trimmed approximately 2" larger in diameter than the marked outline (see Figure 11b). It is then slit and folded to fit down over the chimney. The screws are installed from the side once it is siliconed in place, as per step 6.
4. Lower the flexible liner down through the factory-built chimney to the desired position.
5. Place a wide bead of high-temperature silicone along the entire top surface of the factory-built chimney.
6. Place the trimmed Flashing/Support over the Flexible Liner. Lower the Flashing/Support so that the plate comes to rest on the factory-built chimney. Press the plate firmly into the silicone to create a good seal, and secure into place with #8 x 1/4" stainless steel metal screws, as per Figure 11b or 12.
7. Slide the Liner Round Top and the Flexible Liner back through the Flashing/Support assembly until the skirt of the Round Top comes in contact with the collar of the Flashing/Support. Install the four (4) sheet metal screws (provided), using the prepunched holes in the flashing collar and through the flex and Round Top. Apply silicone sealant to any exposed fences, holes or screws.

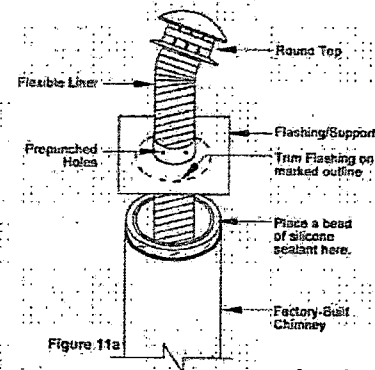


Figure 11a

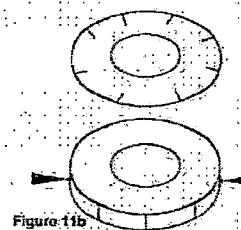


Figure 11b

When flashing is trimmed with an overhang, screws are inserted from the side.

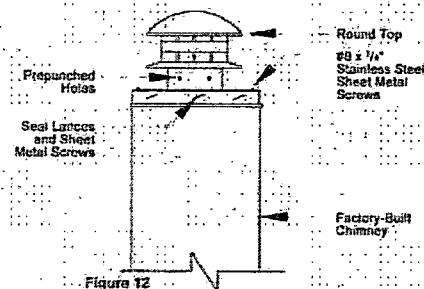


Figure 12

Flexi-Liner®

6

## FLEXI-LINER®

### Aluminum Flexible Chimney Liner and Gas Vent Connector

#### Installation Instructions

#### Mortar Guard Installation

Back at the appliance, if you have not done so previously, slide the Mortar Guard over the end of the Flexible Liner protruding from the prepared opening. Position the Mortar Guard within the prepared opening, such that it will provide a protective barrier between the Liner and any required filler material. Refer to the Installation Completion section on page 8. Ensure that the end of the mortar guard, with the Listing Label attached, extends into the room a minimum of 2" so that the label is visible for inspection.

#### Appliance Connection

Final connection of the flexible liner to the appliance may be made in a number of ways and will depend on specific conditions.

#### TYPE B VENT CONNECTOR

If Type B Vent is recommended as a connector (if clearances to combustibles or sizing guidelines suggest), the Flexible Liner should extend at least 2" (50mm) beyond the Mortar Guard.

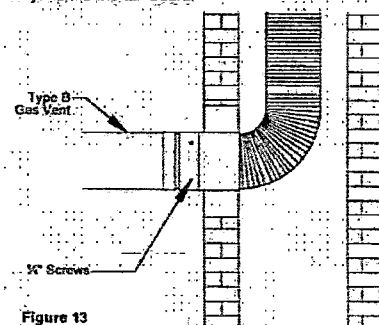


Figure 13

#### FLEXIBLE LINER B-VENT ADAPTER

The Flexi-Liner universal B-Vent adapter connects Flexible Liner pipe to all brands of Type B Gas Vent pipe. To install:

1. Prior to installation, a Mortar Guard should be installed within the prepared opening, such that it will provide a protective barrier between the liner and any required filler material. Ensure that the end of the Mortar Guard, with the listing label attached, extends into the room a minimum of 2" so that the label is visible for inspection (refer to main instructions for additional details).

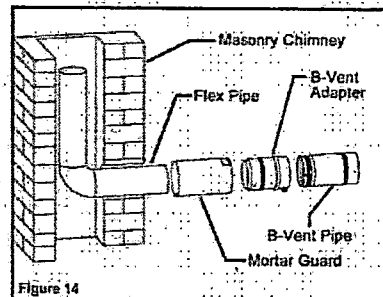


Figure 14

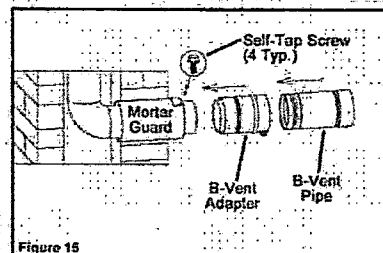


Figure 15

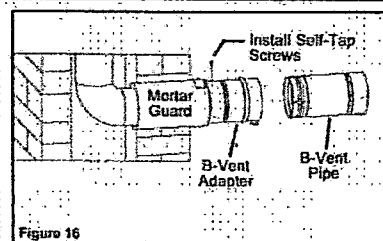


Figure 16

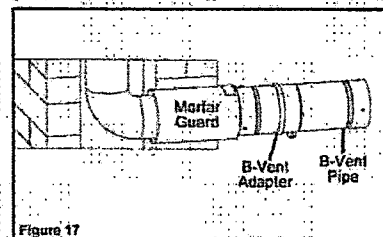


Figure 17

## FLEXI-LINER®

### Aluminum Flexible Chimney Liner and Gas Vent Connector

#### Installation Instructions

2. The Flexible Liner should be installed such that it extends at least 2" beyond the Mortar Guard, allowing sufficient length for attaching the universal B Vent adapter to the flex (see Figures 14 and 15).
3. Engage the bullet end of the universal B Vent adapter with the flex pipe. Once fully engaged, secure the flex to the adapter using four (4) self-tapping sheet metal screws. Install the screws so that they penetrate through the flexible liner and the inner liner of the adapter (see Figure 16).
4. Engage the type B vent pipe with the universal B vent adapter. Once fully engaged, tighten the machine screw so that the adapter clamps down and secures the B vent pipe in place (see Figure 17).
5. Refer to main instructions to complete installation.

#### SINGLE-WALL VENT CONNECTOR PIPE

Trim the Flexible Liner flush with the Mortar Guard. Insert the end of a single-wall vent connector pipe (by others) into the Flexible Liner. Secure into place with four (4) evenly spaced screws through the Mortar Guard and into the Flexible Liner and the vent connector (see Figure 18).

**Note:** The 5.5"-6" Flexible Connector is required when connecting 6" single-wall pipe to the 5.5" flexible liner.

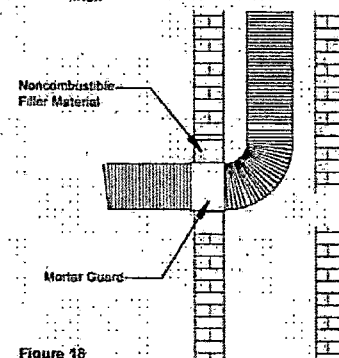


Figure 18

When used as a single-wall vent connector, and if it is acceptable, the Flexible Liner system may be extended all the way to the appliances and installed with 1" (25mm) airspace clearance to combustibles. Remember to include a minimum of 1/4" per foot rise in any horizontal sections (from the appliance to the chimney) and keep turns to a minimum (see Figure 18).

#### Installation Completion

After the appliance is correctly positioned and 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 noncombustible filler material may be used as a substitute instead of mortar.

#### Final Inspection

Ensure all gas piping, electrical, and vent connections are complete and up to code requirements. After adjusting the appliance and lighting the main burner, allow a couple of minutes for warm-up. Check the vent operation by holding a lighted match or smoking material just under the rim of the draft hood relief opening.

Proper venting will draw the flame or smoke into the draft hood. Improper venting, indicated by escape or spillage of burned gas, will cause smoke to move away from the draft hood and a flame to flicker or go out.

#### Liner Maintenance

The Flexible Liner should be inspected by a qualified heating or chimney technician before each heating season to ensure it is free of debris and condensation and that all components are in good condition. This can be accomplished by removing the vent connector and looking into the liner at its base.

The Round Top can be removed for inspection purposes by removing the fastening screws. Again, have it inspected by a qualified heating or chimney technician.

#### Reference

Upon completion of the installation, fill in the information below and keep in a safe place for future reference:

Chimney Model: \_\_\_\_\_  
 Installation Date: \_\_\_\_\_  
 Dealer Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, Province/State: \_\_\_\_\_  
 Technician's Name: \_\_\_\_\_  
 Technician's Certification Number: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, Province/State: \_\_\_\_\_

# FLEXI-LINER®

## FLEXI-LINE R SIZER

Corrugated Chimney Liner for Gas Fired Appliances

### SINGLE APPLIANCE

| Height, Ft. | Connector Type: Double or Single Wall | FLEXI-LINER Diameter "D" (Inches)                                                     |    |    |      |    |    |    |   |   |    |
|-------------|---------------------------------------|---------------------------------------------------------------------------------------|----|----|------|----|----|----|---|---|----|
|             |                                       | 3"                                                                                    | 4" | 5" | 5.5" | 6" | 7" | 8" |   |   |    |
|             |                                       | Appliance Input Rating Limits (x1000 BTU/h)<br>Reduces 20% from Vertical Chimney Vent |    |    |      |    |    |    |   |   |    |
|             |                                       | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
| 15'         | Double                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
|             | Single                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
| 25'         | Double                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
|             | Single                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
| 30'         | Double                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
|             | Single                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
| 35'         | Double                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
|             | Single                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
| 40'         | Double                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
|             | Single                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
| 45'         | Double                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |
|             | Single                                | 1                                                                                     | 2  | 3  | 4    | 5  | 6  | 7  | 8 | 9 | 10 |

### MULTIPLE APPLIANCES

| Height, Ft. | Connector Type<br>Double or Single Wall | FLEXI-LINER Diameter "D" (Inches)                                                              |     |     |     |     |     |     |     |     |     |
|-------------|-----------------------------------------|------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|             |                                         | 4                                                                                              | 5   | 5.5 | 6   | 7   | 8   |     |     |     |     |
|             |                                         | Combined Appliance Input Rating Limits (x1000 BTU/h)<br>Reduces 20% from Vertical Chimney Vent |     |     |     |     |     |     |     |     |     |
|             |                                         | "C"                                                                                            |     |     |     |     |     |     |     |     |     |
| 15'         | Double                                  | 100                                                                                            | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 |
|             | Single                                  | 50                                                                                             | 75  | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 |
|             | Double                                  | 110                                                                                            | 160 | 210 | 260 | 310 | 360 | 410 | 460 | 510 | 560 |
| 25'         | Double                                  | 110                                                                                            | 160 | 210 | 260 | 310 | 360 | 410 | 460 | 510 | 560 |
|             | Single                                  | 55                                                                                             | 80  | 105 | 130 | 155 | 180 | 205 | 230 | 255 | 280 |
|             | Double                                  | 120                                                                                            | 170 | 220 | 270 | 320 | 370 | 420 | 470 | 520 | 570 |
| 30'         | Double                                  | 120                                                                                            | 170 | 220 | 270 | 320 | 370 | 420 | 470 | 520 | 570 |
|             | Single                                  | 60                                                                                             | 90  | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 |
|             | Double                                  | 130                                                                                            | 180 | 230 | 280 | 330 | 380 | 430 | 480 | 530 | 580 |
| 35'         | Double                                  | 130                                                                                            | 180 | 230 | 280 | 330 | 380 | 430 | 480 | 530 | 580 |
|             | Single                                  | 65                                                                                             | 95  | 125 | 155 | 185 | 215 | 245 | 275 | 305 | 335 |
|             | Double                                  | 140                                                                                            | 190 | 240 | 290 | 340 | 390 | 440 | 490 | 540 | 590 |
| 40'         | Double                                  | 140                                                                                            | 190 | 240 | 290 | 340 | 390 | 440 | 490 | 540 | 590 |
|             | Single                                  | 70                                                                                             | 100 | 130 | 160 | 190 | 220 | 250 | 280 | 310 | 340 |
|             | Double                                  | 150                                                                                            | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
| 45'         | Double                                  | 150                                                                                            | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|             | Single                                  | 75                                                                                             | 105 | 135 | 165 | 195 | 225 | 255 | 285 | 315 | 345 |

See Rigid Connector Sizing Table below for Multiple Appliance Systems

# FLEXI-LINER®

Aluminum Flexible Chimney Liner and Gas Vent Connector

Installation Instructions

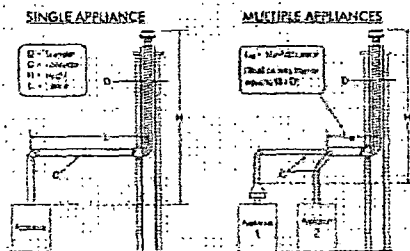
## RIGID CONNECTOR - SIZING INFORMATION

### VENT CONNECTOR CAPACITIES

FOR MULTIPLE CATEGORY 1 APPLIANCES CONNECTED TO A COMMON VENT

| System Height, Ft. | Connector Type: Double or Single Wall | Connector Rise, Ft. | 3"      |         |         | 4"      |         |         | 5"      |         |         | 6"      |         |         |
|--------------------|---------------------------------------|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    |                                       |                     | Fan Min | Fan Max | Nat Max | Fan Min | Fan Max | Nat Max | Fan Min | Fan Max | Nat Max | Fan Min | Fan Max | Nat Max |
| 15                 | Double                                | 1                   | 21      | 50      | 30      | 33      | 89      | 53      | 47      | 142     | 83      | 64      | 220     | 120     |
|                    |                                       | 2                   | 22      | 53      | 35      | 35      | 96      | 63      | 49      | 153     | 99      | 66      | 235     | 142     |
|                    |                                       | 3                   | 24      | 55      | 40      | 36      | 102     | 71      | 51      | 163     | 111     | 68      | 248     | 160     |
|                    | Single                                | 1                   | NA      | NA      | 29      | 79      | 87      | 52      | 116     | 138     | 81      | 177     | 214     | 116     |
|                    |                                       | 2                   | NA      | NA      | 34      | 83      | 94      | 62      | 121     | 150     | 97      | 185     | 230     | 138     |
|                    |                                       | 3                   | NA      | NA      | 39      | 87      | 100     | 70      | 127     | 160     | 109     | 193     | 243     | 157     |
| 25                 | Double                                | 1                   | 21      | 58      | 32      | 32      | 106     | 58      | 48      | 169     | 90      | 61      | 267     | 130     |
|                    |                                       | 2                   | 22      | 61      | 38      | 34      | 112     | 68      | 48      | 179     | 107     | 63      | 279     | 154     |
|                    |                                       | 3                   | 23      | 63      | 43      | 35      | 117     | 77      | 49      | 187     | 120     | 65      | 290     | 173     |
|                    | Single                                | 1                   | 48      | 58      | 31      | 78      | 104     | 56      | 114     | 164     | 87      | 172     | 258     | 125     |
|                    |                                       | 2                   | 52      | 61      | 37      | 82      | 109     | 66      | 119     | 174     | 104     | 180     | 271     | 148     |
|                    |                                       | 3                   | 55      | 63      | 41      | 86      | 113     | 74      | 124     | 183     | 117     | 188     | 282     | 168     |
| 30                 | Double                                | 1                   | 20      | 62      | 33      | 31      | 113     | 59      | 45      | 181     | 93      | 60      | 288     | 134     |
|                    |                                       | 2                   | 21      | 64      | 39      | 33      | 118     | 70      | 47      | 190     | 110     | 62      | 299     | 156     |
|                    |                                       | 3                   | 22      | 66      | 44      | 34      | 123     | 79      | 48      | 198     | 124     | 64      | 309     | 178     |
|                    | Single                                | 1                   | 47      | 60      | 31      | 77      | 110     | 57      | 112     | 175     | 89      | 169     | 278     | 129     |
|                    |                                       | 2                   | 51      | 62      | 37      | 81      | 115     | 67      | 117     | 185     | 106     | 177     | 290     | 152     |
|                    |                                       | 3                   | 54      | 64      | 42      | 85      | 119     | 76      | 122     | 193     | 120     | 185     | 300     | 172     |
| 35                 | Double                                | 1                   | 20      | 64      | 34      | 31      | 118     | 60      | 45      | 190     | 95      | 59      | 303     | 137     |
|                    |                                       | 2                   | 21      | 66      | 40      | 33      | 123     | 72      | 47      | 198     | 112     | 61      | 314     | 162     |
|                    |                                       | 3                   | 22      | 68      | 45      | 34      | 128     | 81      | 48      | 206     | 127     | 63      | 323     | 182     |
|                    | Single                                | 1                   | 47      | 62      | 32      | 77      | 115     | 58      | 111     | 183     | 91      | 167     | 293     | 131     |
|                    |                                       | 2                   | 51      | 64      | 38      | 81      | 119     | 68      | 116     | 193     | 108     | 175     | 304     | 155     |
|                    |                                       | 3                   | 54      | 66      | 43      | 85      | 123     | 78      | 121     | 200     | 121     | 183     | 313     | 176     |
| 45                 | Double                                | 1                   | 19      | 69      | 35      | 30      | 128     | 63      | 44      | 207     | 98      | 58      | 334     | 142     |
|                    |                                       | 2                   | 21      | 71      | 42      | 32      | 132     | 75      | 46      | 215     | 117     | 60      | 343     | 169     |
|                    |                                       | 3                   | 22      | 73      | 47      | 33      | 137     | 84      | 47      | 221     | 132     | 62      | 352     | 190     |
|                    | Single                                | 1                   | 46      | 67      | 33      | 75      | 124     | 59      | 110     | 199     | 94      | 164     | 322     | 135     |
|                    |                                       | 2                   | 50      | 69      | 39      | 80      | 128     | 71      | 115     | 208     | 111     | 172     | 331     | 161     |
|                    |                                       | 3                   | 53      | 70      | 44      | 84      | 132     | 81      | 120     | 214     | 122     | 180     | 340     | 183     |

NA means "Not Allowed"



#### GENERAL VENTING REQUIREMENTS

- A1. The air space around an installed Flex-Liner system must not be used to vent other appliances.
- A2. A Flex-Liner System venting more than one appliance shall not be installed in a higher than the highest appliance being vented.
- A3. For single appliances venting into the Flex-Liner System, the Flex-Liner may be installed in a higher than the appliance being served, provided:
  - a) The vent height is at least 10 ft.
  - b) The liner size is not larger than one per 45 ft.
  - c) The FAN MAAT is reduced by 10% for each additional "bend" in the system.
  - d) The outlet is larger than 4" for the appliance to be vented.
- A4. Reduce Flex-Liner capacity for elbows (bends) as follows:
  - a) For each 90° elbow, reduce capacity by 10%.
  - b) For each 45° elbow, reduce capacity by 5%.
  - c) For each additional elbow, reduce capacity by 10% for MAAT and 15% for FAN.
- A5. Multiple Appliances (Furnaces) at the bottom of the system shall be vented through the Flex-Liner as follows:
  - a) For each 90° elbow in the common vent, reduce capacity by 10% for MAAT and 15% for FAN.
  - b) For each 45° elbow in the common vent, reduce capacity by 5%.
  - c) For each 90° elbow in the common vent, reduce capacity by 10% for MAAT and 15% for FAN.
- A6. Common Venting: Flex-Liner shall be installed in a common vent as follows:
  - a) Do not use these types of fittings: any device such as a vent damper, draft regulator or heat exchanger, etc., which restricts the flow of vent gases. Refer to the instructions provided by the manufacturer of the device for venting instructions.
  - b) Interconnection between the table entries is prohibited. Interconnection beyond the table entries is not recommended.
  - c) Vent connector sizes for multiple appliances are listed in the following table included in the following manual gas code: NFPA 54 (ANSI) and 54.1 (ANSI).
  - d) These tables and drawings from the National Fuel Gas Code (NFPA 54 & ANSI 54.1). Consult code data and information and equipment manufacturer instructions if there is any discrepancy between them.

#### ADDITIONAL COMMENTS

1. Flex-Liner System is UL listed for venting in masonry or factory built chimneys and venting through existing chimneys for appliances listed for venting.
2. The use of Flex-Liner System is limited to the installation of one or two appliances and the use of the Flex-Liner System is limited to the installation of one or two appliances and the use of the Flex-Liner System is limited to the installation of one or two appliances.
3. The use of a 1" fitting is not recommended for a common venting pipe.
4. AVOID CONDENSATION and/or PHASED IN MULTIPLE APPLIANCES
  - a) Install Flex-Liner as per installation instructions.
  - b) Seal up appliances as per appliance manufacturer instructions.
5. Consult local authorities for restrictions and regulations in your area.
6. Venting gas fired appliances into masonry chimneys is prohibited unless a listed gas vent is installed in a listed chimney in Code is used. Over-sized, non-listed venters may be used DO NOT substitute a Code Chart.

**FLEXI-LINER®**

## FLEXI-LINER®

### Aluminum Flexible Chimney Liner and Gas Vent Connector

### Installation Instructions

#### Index

|                                                         |      |
|---------------------------------------------------------|------|
| Types of Appliance                                      | 1    |
| Sizes, Location & Clearances                            | 1    |
| Liner Components                                        | 2    |
| Tools and Materials                                     | 2    |
| Chimney Inspection and Cleaning                         | 2    |
| Chimney Preparation                                     | 2    |
| Preparing for a Stand-Alone Appliance Installation      | 2    |
| Preparing for an Insert                                 | 3    |
| Preparing Top of Chimney                                | 3    |
| Liner Preparation                                       | 3    |
| Determining Liner Length                                | 3    |
| Trimming the Liner                                      | 4    |
| Guide Cone (Pull-Down Assembly)                         | 4    |
| Installing the Liner                                    | 4    |
| Stand-Alone Appliance                                   | 4    |
| Gas Fireplace Insert                                    | 5    |
| Flashing/Support Installation - Masonry Chimney         | 5    |
| Round Top Installation - Masonry                        | 5    |
| Round Top Installation - Existing Factory-Built Chimney | 6    |
| Mortar Guard Installation                               | 7    |
| Appliance Connection                                    | 7    |
| Type B Vent Connector                                   | 7    |
| Flexible Liner B-Vent Adapter                           | 7    |
| Single-Wall Vent Connector Pipe                         | 8    |
| Installation Completion                                 | 8    |
| Final Inspection                                        | 8    |
| Reference                                               | 8    |
| Sizing Information                                      | 9-11 |

**SELKIRK**

Selkirk Corporation  
5050 Corporate Exchange Blvd.  
Grand Rapids, MI 49512  
Tel Free: 1-800-433-6341

www.selkirkcorp.com  
info@selkirkcorp.com

Selkirk Chimneys Corporation  
P.O. Box 526, Grand  
Hammond, IN 46341  
Tel Free: 1-833-SELKIRK (735-5475)