



Rigid Aluminum Chimney Liner(RACLxxxx)

Installation instructions for installing a rigid aluminum liner into an existing masonry chimney for venting gas appliances with maximum temperature at the draft hood of 245 degrees C.

Material Used:

Grade 1100 Aluminum x 0.025" thick (0.64mm) for venting gas or propane fired appliances using an integral draft diverter only. The safe operation of this lining system is based on the use of parts supplied by the manufacturer and its performance may be affected if the combination of these parts are not used in the actual building construction.

Scope:

1. All work to be done in a workman like manner
2. The masonry chimney must be structurally sound and conform to section 9.21 of applicable Building Codes. NOTE that if is not in compliance it must be brought up to compliance prior to installation.
3. Sizing of the liner cannot be reduced from diameter exiting the appliance.
4. All work to be carried out by a contractor registered under the "energy act", or authority having jurisdiction.
5. The maximum height to be supported by the support plate is 50 ft.

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

ALSO NOTE: The lining system safety, code compliancy, warranty and performance may be comprised - IS VOID - if Installation directions are not followed.

AND: Listed rain caps incorporating bird screens are necessary and/or required in some areas but may be susceptible to blockage through freezing moisture in areas of low ambient temperature - consult authority having jurisdiction.

If during inspection, the existing chimney is not in compliance with applicable building code and/or manufacturer's installation instructions, the liner shall not be installed until appropriate steps have been taken in order to bring the chimney or vent into compliance with the applicable code and/or manufacturer's instructions.

Installation:

1. Before a liner can be installed the masonry chimney must be inspected for cracks, loose or missing bricks, mortar, or other materials that could inhibit correct installation of the lining system. The masonry chimney must also be professionally cleaned before installation.
2. Break off any excess clay tile that may exist above the brickwork of chimney.
3. Secure snaplock pipe along seam and affix with 3 - $\frac{1}{8}$ " x $\frac{1}{4}$ " long aluminum pop rivets equally spaced along length of the pipe starting 6 inches in from each end. (Note: use $\frac{1}{8}$ " drill, holes are not predrilled). NOTE: the size of the vent is determined by the appliance manufacturer and cannot be reduced from that diameter.
4. All flue joints must be secured with a minimum of 3 pop rivets. The flue pipe connection must conform to the applicable building codes or authority having jurisdiction.
5. All flue parts and pipe must be installed with crimp side down (pipe is supplied in 3 and 5 foot lengths only). If any other lengths are required, you may cut pieces of pipe down to required length using only the end crimped by the manufacturer.
6. Begin by inserting pipe down the chimney from the top, fixing each section together as it is lowered.
7. When the desired length has been reached, secure the top section to the chimney top with a support assembly. Secure each assembly to chimney top using 4 pieces $\frac{1}{4}$ " x $1\frac{1}{4}$ " nail anchors. Use 4 pieces #8 x $\frac{1}{4}$ " S.M.S. (supplied) to secure pipe to support through holes provided (see figure 2).
8. Cut the liner to leave a minimum 6" (150mm) and maximum 24" (600mm) above the flashing.
9. At the bottom, remove enough masonry to enable the base elbow to be installed.
10. Replace and repair the masonry around the base elbow using mortar mix.
11. Clearance from the single wall liner to combustibles construction must be 6". If this is difficult to achieve, special modifications must be made to the base elbow and "bvent" adapters manufactured by "Don Park" must be used. The following detailed instructions must be followed to accomplish the task.
 - 11a). You may cut back the base elbow to required length, not exceeding a minimum of 4 $\frac{1}{2}$ " out from the throat of the base elbow.
 - 11b). Insert Female "Bvent" adapter (supplied by Don Park upon request) into base elbow.
 - 11c). Use length of "bvent" necessary to achieve required clearances from combustibles.
 - 11d). Use Male "bvent" adapter (supplied by Don Park upon request) to revert back to single wall venting and terminate gas appliance.
12. Trim the flashing to fit the top of the chimney and mortar in place.
13. Install "RACL" rain cap (storm collar already attached) to the top using 3 pop rivets ($\frac{1}{8}$ " x $\frac{1}{4}$ ") or 3 screws (#8 x $\frac{1}{2}$ " s.m.s.) to secure raincap.
14. The liner is not to be field ovalized.
15. Fill in Installation record Label with date and contractor's name and affix adjacent to liner.

Maintenance:

1. This assembly should be inspected by an authorized company representative, a certified gas fitter or chimney sweep before each heating season to insure it is free from debris and all components are in good condition.
2. This liner system shall be used to vent only listed gas appliances with draft diverters and other gas appliances listed for use with Type "B" gas vent.
3. The rain cap can be removed for inspection purposes by removing the fastening screws. As gas is a clean burning fuel and the rain cap stops debris from entering the system, cleaning should not be necessary.
4. Listed rain caps incorporating bird screens are necessary and/or required in some areas but may be susceptible to blockage through freezing moisture in areas of low ambient temperature - consult authority having jurisdiction.

IMPORTANT: DO NOT FILL ANY VOID AROUND VENT WITH LOOSE INSULATION.

Warranty

Don Park warrants the RACL & Bvent products to be free of defects in workmanship and materials for a period of one year. Warranty is limited to replacement of the liner or refunding purchase price (exclusive of shipping and installation costs). No other warranty, expressed or implied is valid.

Note: the above warranty is valid with RACL/Bvent products manufactured by Don Park only. If any other products are used the warranty will be invalid.



INSTALLATION RECORD:

Installer: _____

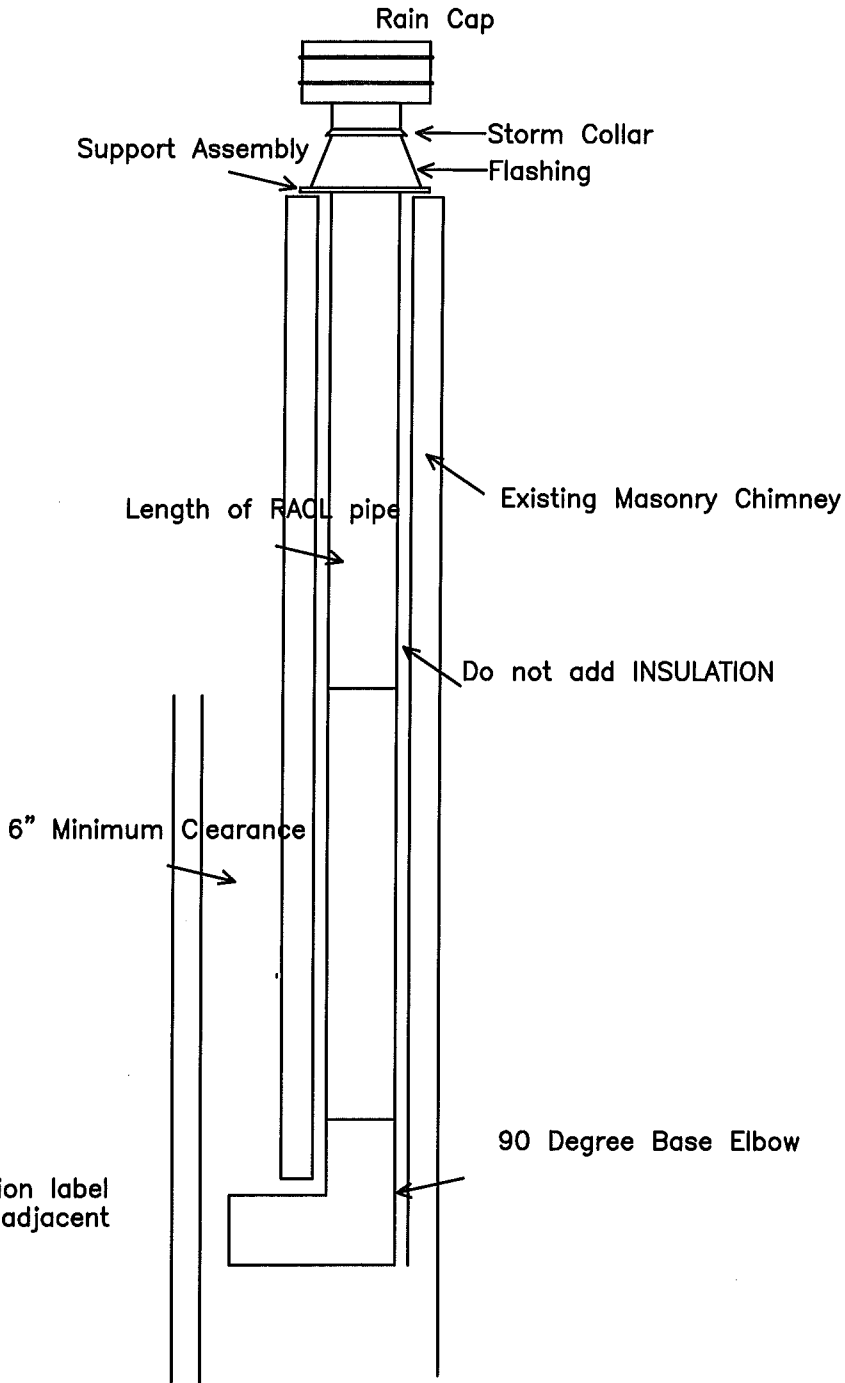
Address Installed at: _____

Date Installed: _____

Warning: this vent is for use with gas appliances installed with draft hoods (max temp. of flue products at hood outlet of 245 degrees C - 470 degrees F. Not for use with solid or liquid fuels.

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Rigid Aluminum (RACL) Installation Instructions



NOTE: Installation label to be affixed adjacent to liner

Figure 2 - Detail Support Plate Installation

