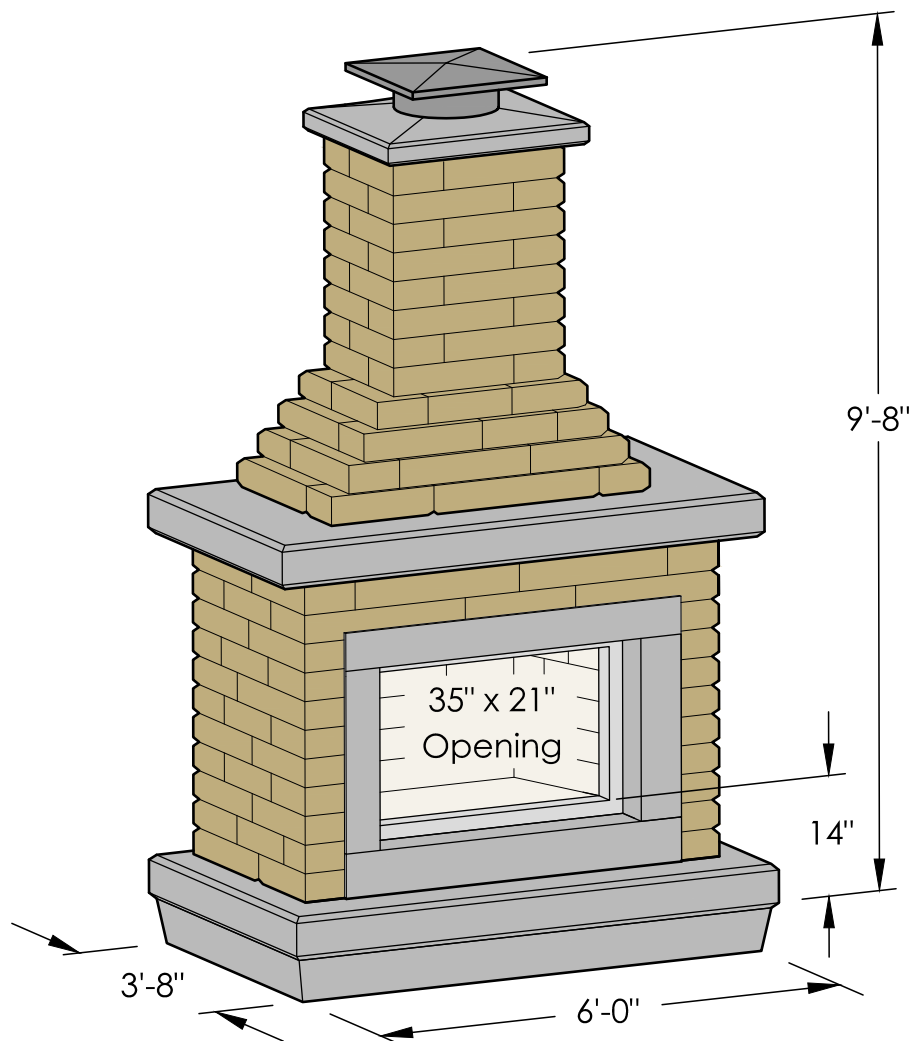




# Claremont Fireplace Kit

## INSTALLATION INSTRUCTIONS



## Planning

- Familiarize yourself with all applicable local building codes. Only install the fireplace in a location and in such a way as to meet all relevant codes and requirements.
- Obtain all necessary permits.
- Choosing the proper site orientation for any outdoor fire place is a critical step minimize excess smoke or downdraft. Consider the following when selecting the fire place location and orientation:
  - a. Consider the prevailing wind direction and shelter the opening from the wind and its eddie currents.
  - b. Nearby structures or trees will affect the draw of the chimney. Locating the fireplace under the canopy of a tree may adversely effect the draw of the chimney.
  - c. If the fireplace is built near an enclosure or porch be sure to allow adequate ventilation for any smoke to escape.
- Make sure to install the fireplace an adequate distance from any combustable material and/or structure, including but not limited to, buildings, decks or trees.
- Never install the fireplace in an area near combustable flooring material, such as a wood deck.

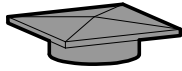
## Safety

- Prior to starting your project, contact your local utility marking service and have utilities located in project area. Hand dig around utilities that are in or near the location of any excavation.
- Perform all work in accordance with all local and federal OSHA requirements.
- Be sure to use appropriate personal protective equipment at all times. Hard hats must be worn if objects could be lifted overhead, and/or if required by law.
- Never stand under or in the fall-path of any of the components as they are being placed.
- Keep fingers and other extremities above and clear of the bottom surface of each component when placing them.
- Only use equipment and chains that are rated to safely handle the weights of the heaviest piece of the fireplace. Be sure to factor in the working angle of the chain or strap when determining the total load that will be required.
- Wear appropriate fall protection if working at or above heights from which an injury from falling could occur and/or heights that require fall protection according to local and federal safety standards.



# KIT INCLUDES ALL OF THE FOLLOWING COMPONENTS

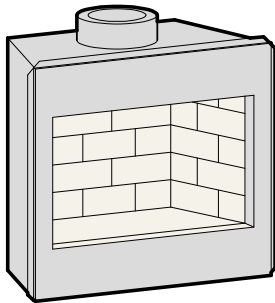
## METAL COMPONENTS



Spark Arrestor



Double Wall  
Stainless Steel  
Chimney Liner



Stainless Steel  
Fireplace Insert

## OTHER INCLUDED COMPONENTS

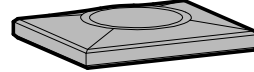
- Bag of Mortar



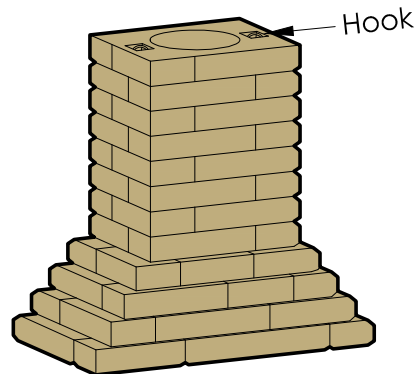
- Miscellaneous Fasteners

## MASONRY COMPONENTS

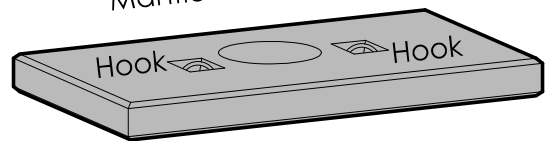
Chimney Cap = 200 lbs



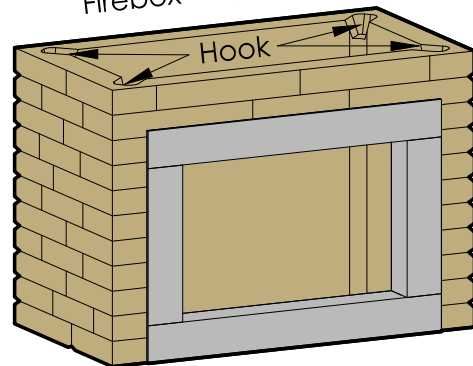
Chimney = 2,300 lbs



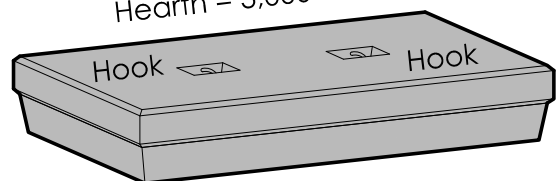
Mantle = 1,400 lbs



Firebox = 3,000 lbs



Hearth = 3,000 lbs

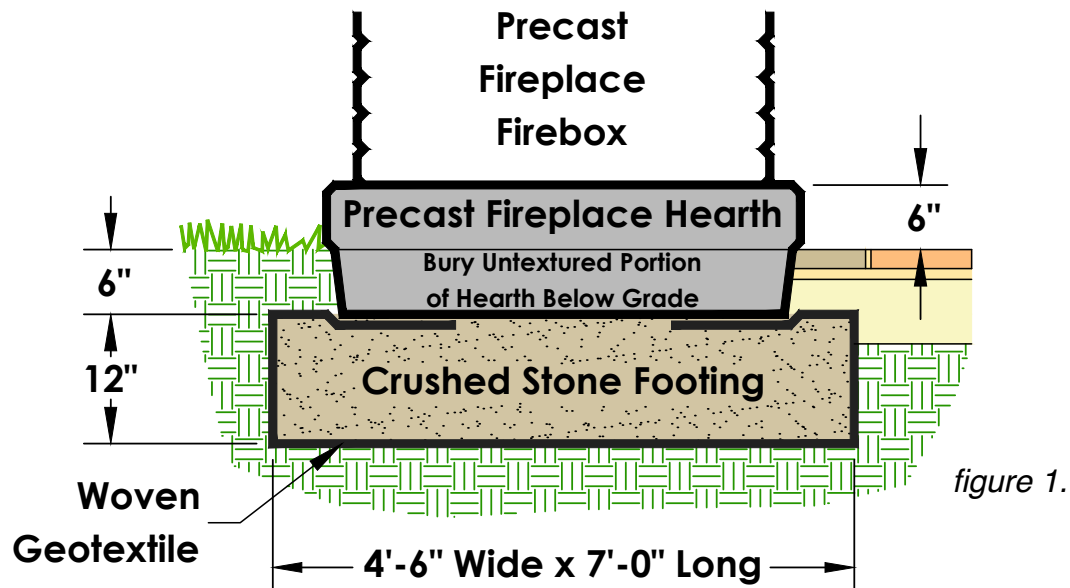


## Tools and Equipment Needed to Install Fireplace Kit:

- A skid steer, excavator or crane capable of safely lifting 3,000lbs 6' up and 2,300lbs 12' up
- Rated chains or lifting straps capable of lifting 3,000lbs factoring in the angle of the lift
- Plate compactor
- Hand Tools: Shovel, Rake, Trowel, Straight Screwdriver, Pliers,
- Cordless drill capable of drilling into concrete
- Lifting straps for setting chimney cap
- Bucket, mortar tub, or wheelbarrow for mixing mortar.

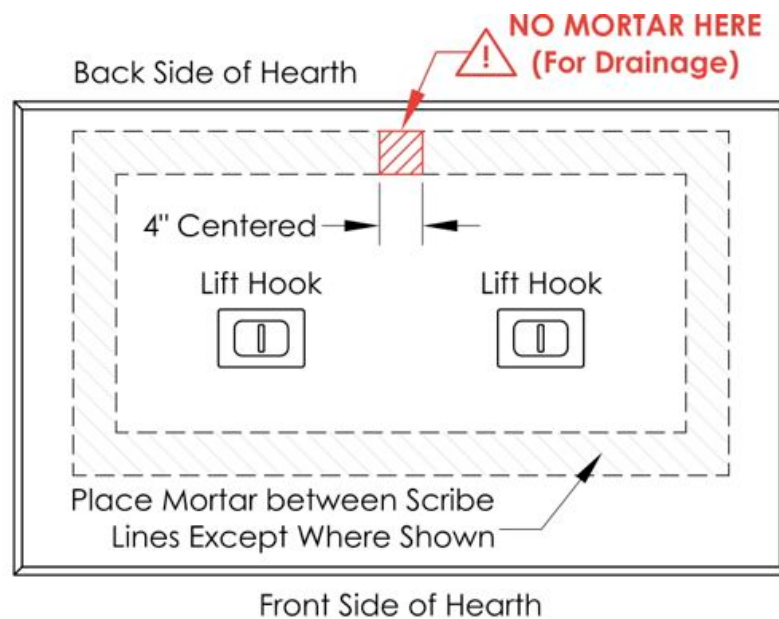
## Step 1. Prepare the Footing:

- *Note: The following foundation detail and installation instructions may not be suitable if existing soils are fine-grained clays or silts or if poor soil conditions, such as expansive, compressible, frost-susceptible, or saturated soils, exist at the site. Consult a local geotechnical engineer familiar with the soils in your area if these conditions exist.*
- Excavate for the crushed stone footing according to the detail shown below (figure 1).
- Remove topsoil, roots, organic materials, and debris from the excavation.
- Existing subgrade should be firm, granular, and free-draining with a minimum load bearing capacity of 2,000 lbs per square foot. If subgrade soils are disturbed during excavation, compact disturbed soils to 95% of Standard Proctor.
- Install the woven geotextile per the detail shown below (note, weed mat or felt fabric are not suitable alternatives to woven geotextile)
- Place the crushed stone footing in three compacted 4" lifts achieving 95% of Standard Proctor throughout the footing.
- Grade the top of the footing to be level in both directions and 6" below the desired finish grade of the surrounding area.



## Step 2. Install Hearth:

- Make sure that the crushed stone footing is perfectly level and that the top of the footing is 6" below finished grade.
- Using appropriately rated equipment and lifting chains or straps, place the hearth unit on the prepared footing with the front side facing the the desired location of the firebox opening. Identify the front side according to the detail below (*figure 2.*).
- Make sure that the hearth unit is level in both directions, as this will affect the appearance of the finished fireplace. If the hearth is not level, make adjustments accordingly.



*figure 2.*



*Set hearth on prepared base*



*Ensure hearth is level both ways*



### Step 3. Install Firebox

- Using the provided mortar, place a thin(*approximately 1/4"*) bed of mortar uniformly around the center of the hearth inside the reference lines that are molded into the hearth. Keep the center 4" at the back clear of mortar to allow for proper drainage(*see figure 2. above*).



*Place a thin bed of mortar around hearth inside the reference lines. Leave a gap in the mortar bed in back per figure 2*

- While mortar is still fresh, set the firebox on the hearth. Be sure to center the walls of the firebox in the center of the reference lines that are molded into the hearth. Check the firebox for level and make adjustments to the mortar bed as necessary. If the gap between the firebox and the hearth is greater than 1/4", your mortar bed is either too thick, or the mortar was not fresh when the firebox was placed. In this case, remove the firebox, clean off the existing mortar, reapply the mortar thinner and more workable, and reset the firebox.

*Set firebox on hearth. Center on reference lines. Check for level.*



#### Step 4. Install Stainless Insert:

- Prepare the firebox to receive the stainless insert. Clean out excess mortar and debris from the inside and outside of firebox as this will effect how the inserts sits.



*Remove excess mortar and debris*

- Set Stainless Insert inside firebox. Use care to ensure that insert is not scratched or damaged. Center and level insert in opening.



*Carefully set insert in firebox.*



*Center and level insert in firebox*



- Secure the insert to the concrete firebox with the attached screws. Use the top two holes on vertical flanges on each side of the insert. The holes for these screws must be predrilled with the included bit. Prepare chimney opening.



*Pre-drill holes*



*Fasten insert to firebox with screws*



*Unscrew vent collar*



*Remove and save the vent collar*



*Expand chimney opening*



*Test-fit inner chimney pipe in opening*



### Step 5. Install Mantle:

- Place a uniform, thin bed of mortar around the entire upper surface of the firebox.
- Place mantle on firebox with the front face facing the front of the fireplace(*the front face can be identified as it is approximately 8" from the reference line, the back face of the mantle is approximately 3" from the reference line*).
- When placing the mantle on the firebox, align it relative to the firebox in the following way: centered side-to-side(approximately a 4.5" overhang on each side), 5"(nominal) overhang in the front, approximately flush in the back.



*Place mortar on top surface of firebox*



*Set mantle on firebox*



*Center the mantle side-to-side (approximate 4.5" overhang), leave a 5" overhang on the front and approximately flush in the back.*

## Step 6. Install Chimney

- Place a very thin bed of mortar inside the reference line on the mantle. Too much mortar will cause an unsightly gap to be visible between the mantle and the chimney. Concrete adhesive can be substituted for mortar on this step.
- Set the chimney on the mantle with the front side of the chimney facing the front side of the fireplace (the front is the cleaner looking of the two sides, the back has a slightly visible vertically staggered mold seam). Align the chimney so that it is flush with the outside of the reference lines.



*Place a very thin bed of mortar on mantle inside reference lines*

*Set chimney on mantle. Align chimney such that the outside of the chimney is flush with the reference line.*





### Step 7. Insert Chimney Pipes:

- This kit includes two sections of double-wall chimney pipe.
- Remove the inner wall sections from the outer wall sections and connect the two inner wall sections together.
- Insert the connected inner wall section into the chimney and connect it to the crimped open stainless steel insert (*Note, this step will be very difficult if the latter part of Step 4 was not properly followed, including crimping the chimney opening and test-fitting the chimney pipe to the chimney opening*).
- Expand the bottom of the outer-wall chimney pipe with pliers.
- Connect the vent collar from Step 4 to the bottom of the outer-wall chimney pipe.
- Connect the two outer wall chimney pipes together.
- Insert the outer-wall chimney pipe and vent collar assembly into the chimney and around the inner wall (*Note, the vent collar does not need to be re-screwed to the stainless insert*).



Insert connected inner-wall sections in



Expand the bottom of outer-wall section



Attach vent collar



Insert outer-wall vent collar assembly

**Step 8. Install Chimney Cap and Spark Arrestor:**

- Apply a thin bed of mortar or an appropriate exterior concrete adhesive to the top of the chimney.
- Safely lift and place chimney cap on chimney with lifting straps that are rated to handle the weight of the chimney cap safely. Ensure that the straps are attached to the chimney cap in such a way as to make it impossible for the chimney cap to be dropped during placement. ***Be sure that no person is ever below the chimney cap as it is being lifted.***
- Center the chimney cap on the chimney.
- Securely fasten the spark arrestor to the chimney. The easiest way to accomplish is to perform the following:
  - a. Back off the attached spark arrestor anchor screws
  - b. One person lift and hold the outer wall chimney pipe a eight inches above the top of the chimney cap.
  - c. With the outer chimney pipe elevated, lower the spark arrestor onto the outer chimney pipe until the spark arrestor alignment guides are seated on the chimney pipe.
  - d. Securely fasten the spark arrestor anchor screws to the chimney pipe, gradually tightening opposing screws a few turns at a time until all are tightly secured.



*Place chimney cap on chimney with appropriately rated, secured lifting straps*

*Fasten spark arrestor to outer wall chimney pipe*





### Step 9. Finishing Touches:

- Clean off any excess mortar or drips from mortar that visible.
- Clean out the weep-hole (small drainage cavity at the bottom center of the backside of the firebox).
- Grade around the hearth in such a way to allow for water to drain away from the fireplace.
- Install non-combustable patio material in front of the fireplace up to grade such that only the textured portion of the hearth is exposed.
- Ensure that the owner of the fireplace receives the included *User Manual*, and firebox information.

