FMI PRODUCTS, LLC

MASONRY CHIMNEY INSTALLATION INSTRUCTIONS

FMI PRODUCTS, LLC's masonry chimney system consists of an outer block and a Ø14 inch inner liner flue. The chimney components must be assembled on-site using an approved masonry adhesive to cement the components together. This chimney system may also include offset chimney blocks for use when requiring offsets to chimney vertical runs. Also available is a brick ledge component (MCSBL814) designed to support chimney top brick veneer finishes. A spark arrestor and a masonry chimney termination cap are both required (find online or in a masonry supply yard).

Recommended minimum overall chimney height for the Grand Meridian Fireplace system using the masonry chimney system is 14'-0" for straight chimney stacks and 17'-0" for chimney stacks with an offset.

Maximum overall height from bottom of the firebox is 40'-0".

The chimney system must always vent vertically to the outside of the building.

The system requires an Anchor Plate/Damper assembly Model MC14AP (Figure 1) to be installed on top of the fireplace prior to beginning installation of the masonry chimney. Four holes around the flue are used as templates for the rebar locations. Drill 1" deep holes into the fireplace Dome Top in order to anchor the four #3 rebar (Ø3/8") required when building a straight stack.

If an offset is started directly from the Dome Top, no rebar is required, but every 6th offset section needs to be supported (Figure 2).

Figure 1

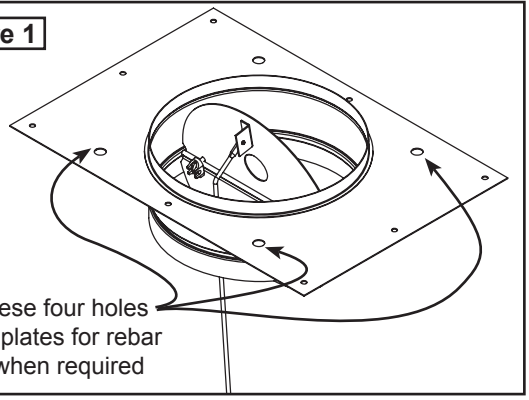
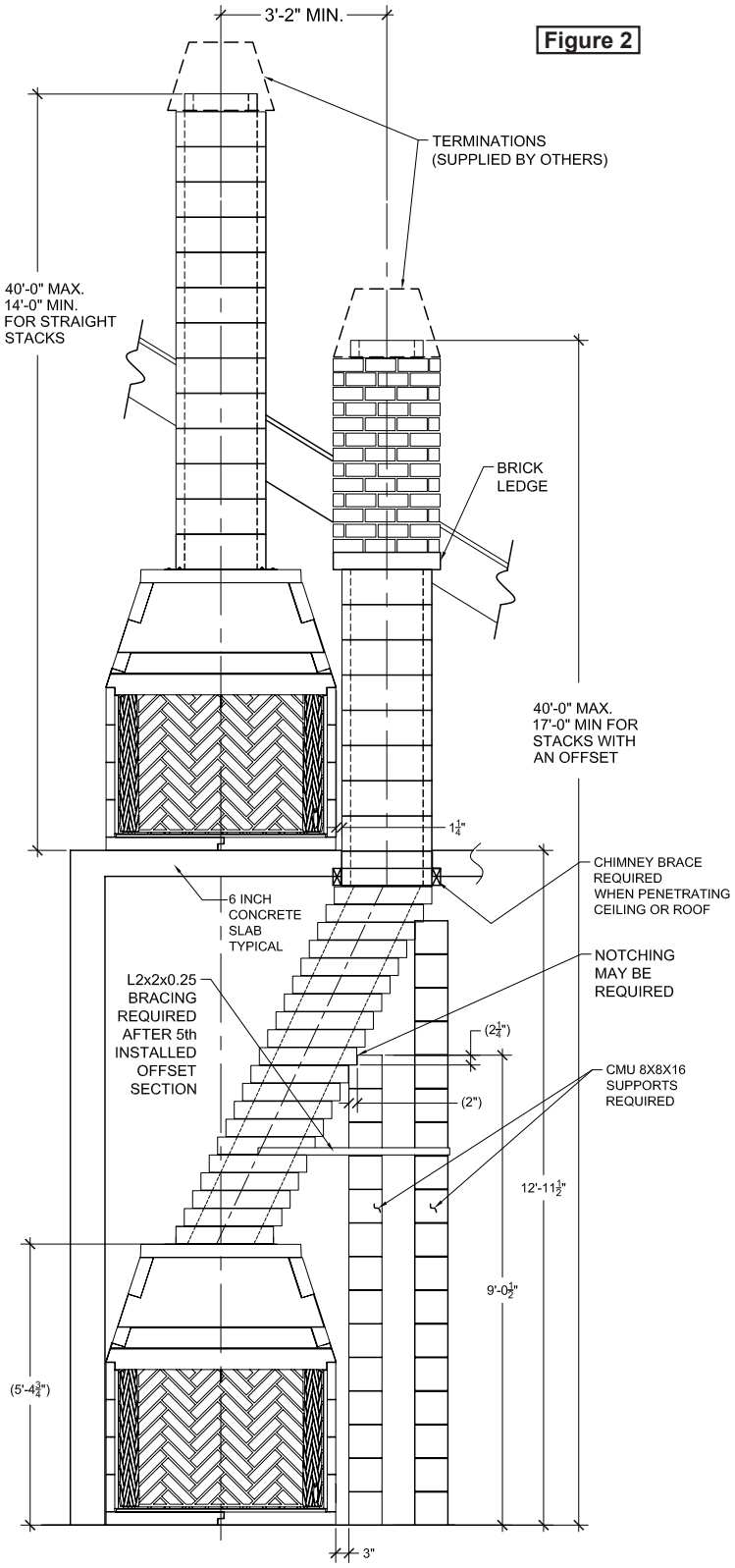
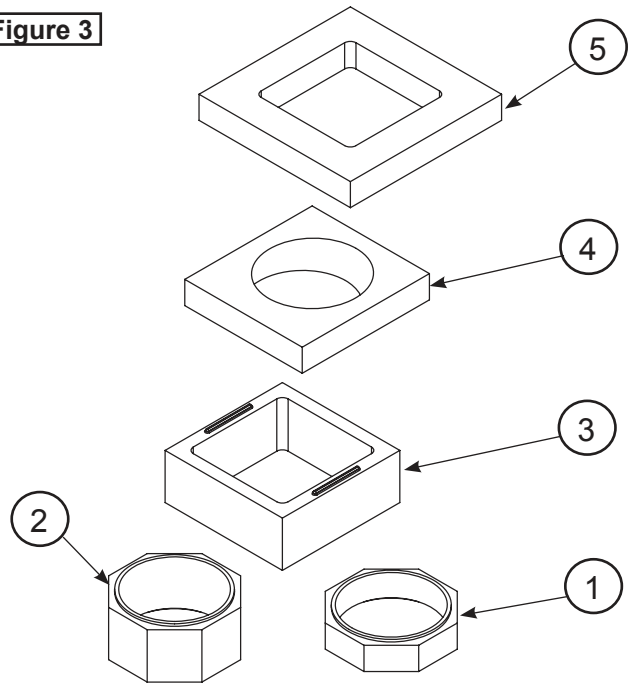


Figure 2



The Masonry Chimney System consists of the following components:

Figure 3



ITEM NO.	P/N	DESCRIPTION
1	MCL414	INNER LINER Ø14" X 4" HIGH (STARTER)
2	MCL814	INNER LINER Ø14" X 8" HIGH (STANDARD)
3	MCS814	OUTER LINER Ø14"
4	MCSOS814	OFFSET ELBOW SECTION Ø14"
5	MCSBL814	BRICK LEDGE Ø14"

IMPORTANT SAFETY INFORMATION

Your Grand Meridian Fireplace must be supported by a non-combustible concrete slab, which in turn is also supported by concrete or steel substructure design capable of carrying the total weight of the Grand Meridian Fireplace and the Masonry Chimney System.

Creosote and soot information and the need for removal:

When wood burns slowly, tar and other organic vapors are produced which combine with expelled moisture and form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow burning fire and accumulate on the flue lining. When ignited this creosote makes an extremely hot fire. Because of creosote and soot buildup, it is necessary to inspect and clean the fireplace and chimney prior to use and periodically during the heating season. Cleaning should be done annually at a minimum.

Before servicing, allow the fireplace to cool. Always shut off any electricity or gas to the fireplace while servicing.

Use only solid fuel, Natural or Propane/LP gas log sets in your Grand Meridian Fireplace. Do not use artificial wax based logs, chemical chimney cleaners or flame colorants.

Never use gasoline, kerosene, gasoline-type lantern fuel, charcoal lighter fluid or similar liquids to start or “freshen up” a fire in this fireplace.

Always keep the flue damper open when heat is present in the fireplace.

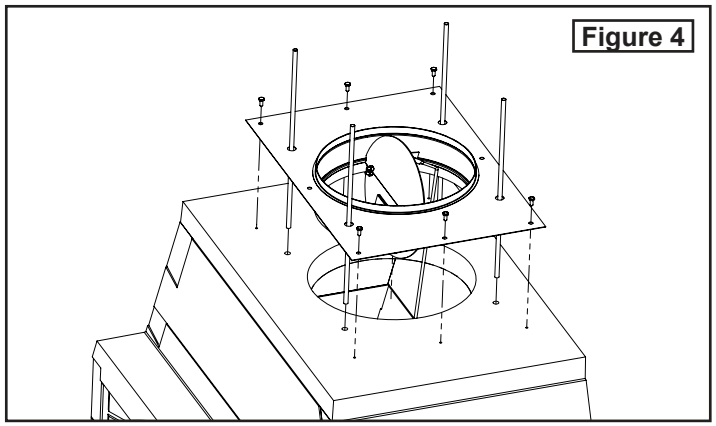
Do not use a fireplace insert or any other product not specified for use in a Class A wood burning fireplace and chimney system unless written authorization is given by FMI PRODUCTS, LLC. Failure to heed this warning may cause a fire hazard and will void the warranty.

The manufacturer does not warranty “Smoke Free” operation nor is the manufacturer responsible for inadequate system draft caused by mechanical systems, general construction conditions, inadequate chimney heights, adverse wind conditions or any unusual environmental conditions or factors beyond the manufacturer’s control.

INSTALLATION INSTRUCTIONS FOR STRAIGHT STACK

1. After completing the assembly of the Grand Meridian Fireplace, install the Anchor Damper/Plate Assembly (MC14AP) as shown in Figure 4. Apply hi-temp sealant around the lower ring just below the plate to prevent flue products from leaking. Use the four holes of the Anchor Plate as a template to drill Ø3/8" x 1" deep holes for the #3 rebar required for a straight stack directly on the fireplace Dome Top. Secure with ITW Epoxy or Simpson Epoxy. Follow the manufacturer’s instructions for proper application of adhesive.

Figure 4



2. Apply mortar (MM525) to the base of starter section of inner flue (MCL414) . NOTE: Position inner flue so that a flat face runs parallel with the front face of the firebox. This will allow the outer flue section to follow proper form and fit. If offsets are started directly from the Dome Top, then apply mortar directly to its base and make sure you position a flat side parallel to the firebox face.

3. For a straight stack that begins directly on top of the unit, start with a small 4" high inner flue (MCL414) and continue with 8" tall inner flue sections (MCL814). When terminating the stack, the inner flue will stick out by 4" and allow for a 4" tall Brick Ledge section to be installed.

Figure 5

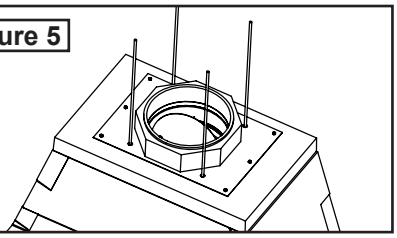


Figure 6

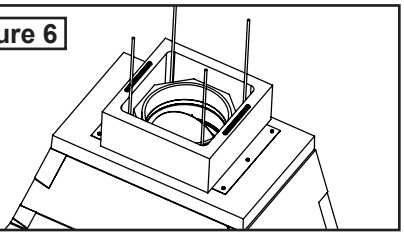
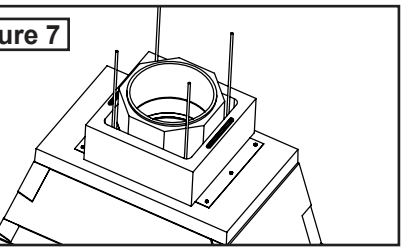


Figure 7



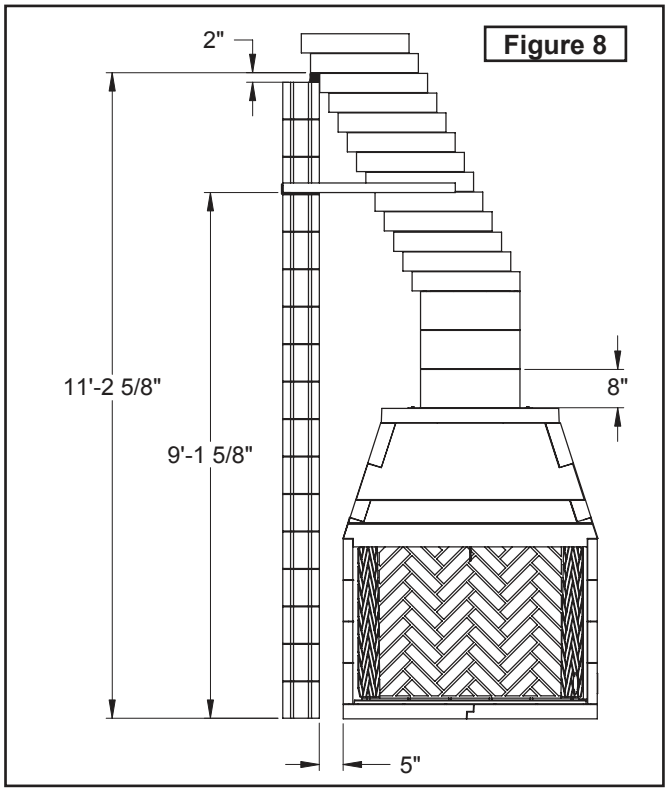
4. If an offset (MCSOS814) is required after a short run of straight flue (less than 4'), start with a standard 8" high inner flue (MCL814). The offset will require that the inner and outer flue is flush at the beginning of the offset sections. After the offset is complete, resume the straight stack with a short 4" high inner flue (MCL414) and continue with 8" high inner (MCL814) and outer (MCS814) sections. At the point of termination, the inner flue should stick out above the outer flue by 4" which is required for the Brick Ledge section.

5. If an offset (MCSOS814) is being installed, support is required for every 6th or 7th offset section being installed. Supports need to be installed by a qualified professional. Examples of supports are shown in Figure 2 and Figure 8 showing a support pillar constructed out of 8x8x16 CMU blocks stacked to the left of the unit and including a support brace constructed out of L2x2x0.25 angle iron. Rebar also needs to be used when building your support column. The dimensions shown are nominal and 1/8 grout gaps have been considered (CMU block actual dimensions are 7.62" x 7.62" x 15.62" and are shown staggered with a 1/8" grout gap between each).

6. **IMPORTANT!** When applying mortar to each section, it is imperative that the blocks be maintained moist (not soaking) so they do not absorb the water out of the mortar and cause adhesion to fail. Frequently run a damp sponge to the parts before the mortar is applied!

Once all sections are completed, install a spark arrestor and termination cap (provided by others) to complete the installation.

Figure 8



INSTALLATION INSTRUCTIONS FOR DIRECT OFFSET

1. When starting offsets (MCSOS814) directly from the top of the fireplace, position the offset section completely to one side of the Anchor / Damper Plate (MC14AP) collar. Figure 9 and 10 show the offset section position for a left side offset. For right side offsets, reverse the position as shown. NOTE: The edge-to-edge distances vary by firebox size.

Figure 9 **(Dimensions for MM49 shown)**

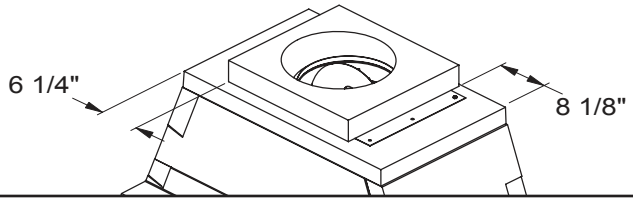
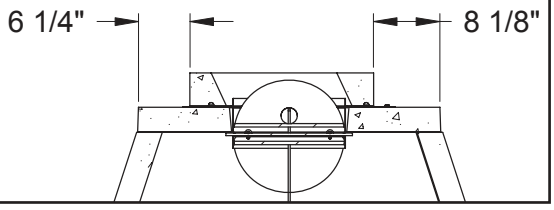


Figure 10 **(Dimensions for MM49 shown)**



2. Supports are required for every 6th offset. Dimensional characteristics would vary as shown in Figure 11. Make sure rebar is included in the support column. Build the support column centered to the flue as shown in the side view in Figure 11.

3. After the first column support as shown in Figure 11, if continuing the offset sections, another support will be required and must stem from adjoining support structure.

⚠ WARNING to the licensed design professional and/or building contractor: It is your responsibility to be certain that the FMI PRODUCTS, LLC flue system and fireplace can be properly supported by the surrounding structure.

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact FMI PRODUCTS, LLC at 1-866-328-4537.

You can also visit our web site at **www.fmiproducts.com.**

Figure 11

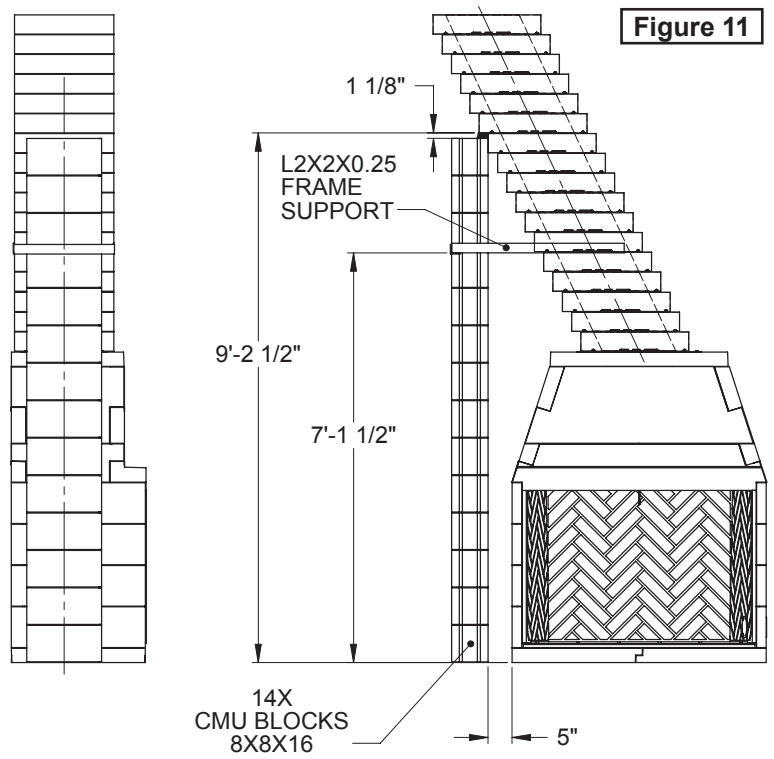


Figure 12

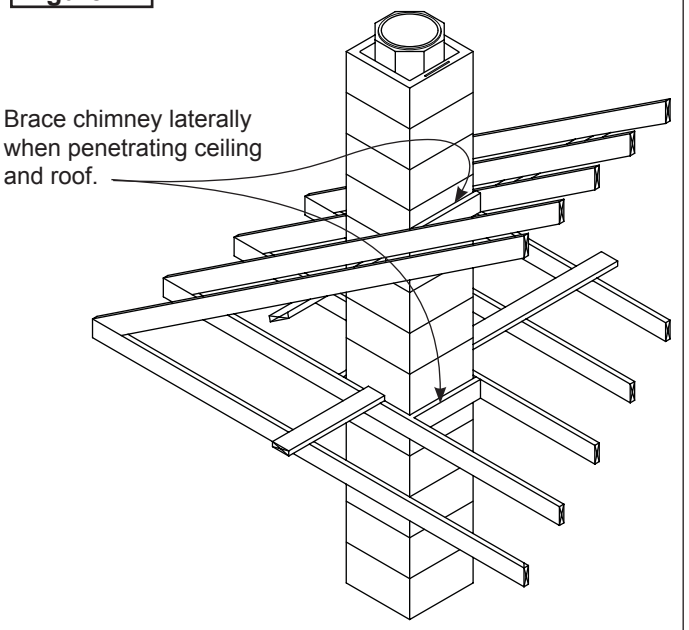


Figure 13