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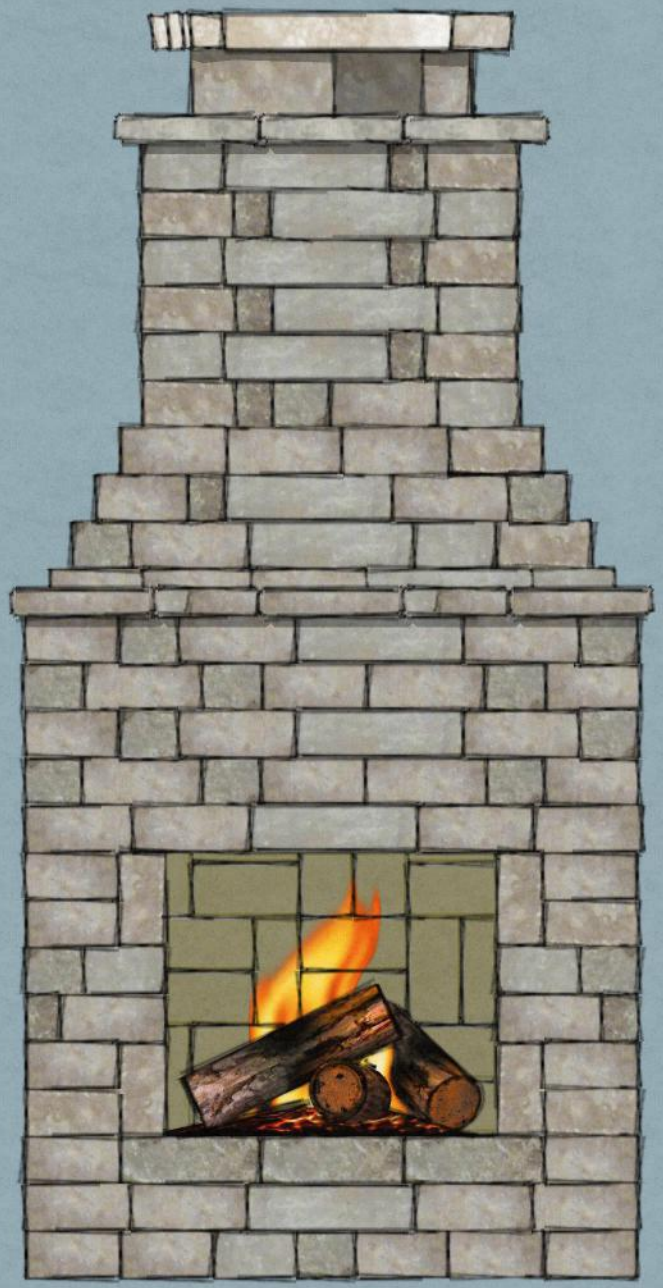


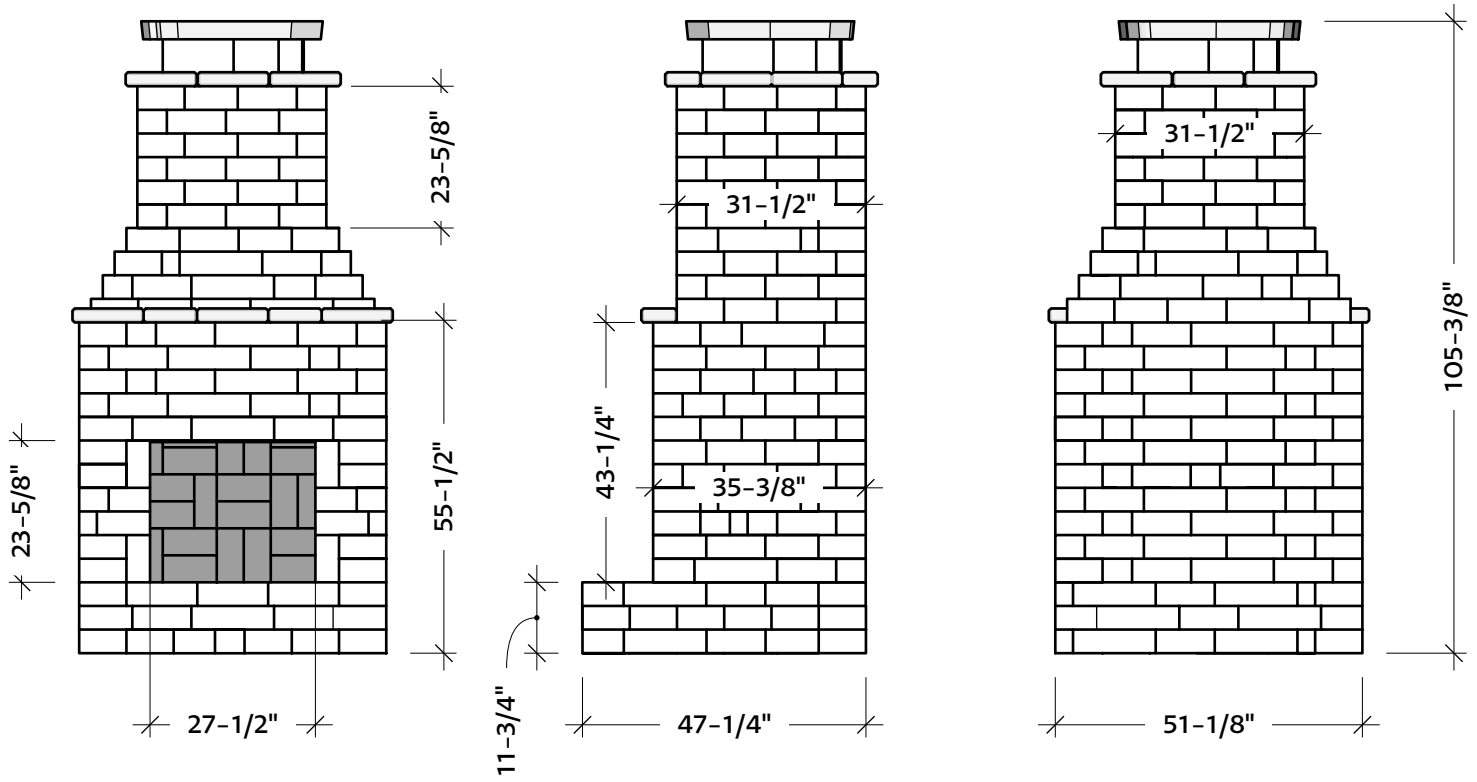
FPP-5228
Princeton
Princeton Fireplace
version 05

www.romanstone.com

FPP-5228

Princeton Fireplace

All sizes in this document are approximate.



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Step by step instructions for assembling FPP-5228 on a prepared surface/base.
If you have any questions, please visit:
www.romanstone.com

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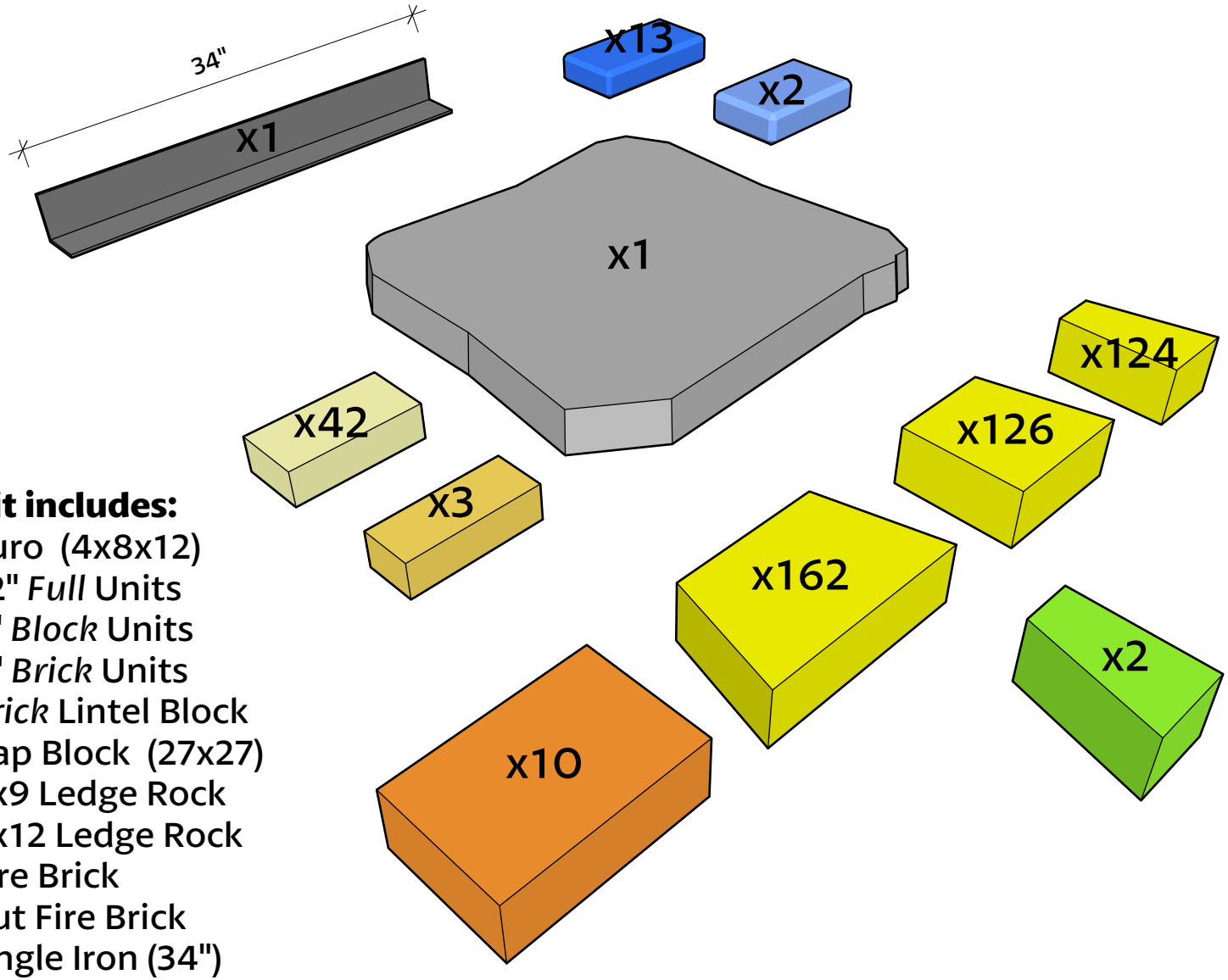

This kit includes:

10	Euro (4x8x12)
162	12" *Full* Units
126	8" *Block* Units
124	4" *Brick* Units
2	*Brick* Lintel Block
1	Cap Block (27x27)
2	6x9 Ledge Rock
13	6x12 Ledge Rock
42	Fire Brick
3	Cut Fire Brick
1	Angle Iron (34")
12	Tubes Adhesive

All sizes in this document are approximate.

When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive – this will cause the blocks to "swim." A small bead is ideal.

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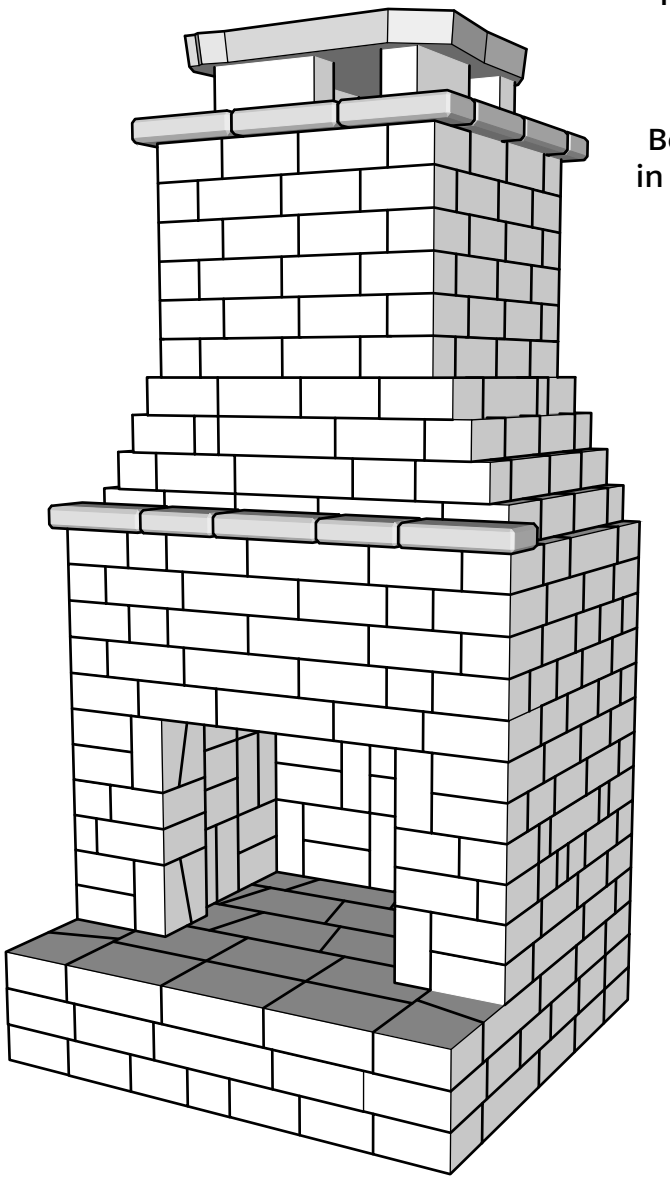
Princeton Fireplace

REVISIONS

	MM/DD/YY	REMARKS
1	1/28/2020	First release – TP
2	4/04/2020	Improvements – TP
3	5/02/2020	Step 15 clarification – Thanks Jason C.
4	5/03/2020	Complete Update
5	5/25/2020	Continued Improvements –TP

Included with kit

Tools Needed:
Dead Blow Hammer
Hammer
Caulk Gun
4 Foot Level
Torpedo Level
Square
2 Ladders (6ft min.)



This set of instructions assumes you are building on a level grade on a level foundation.

Be sure to prepare foundation as set out in Romanstone's Base Preparation Guide. For any questions, visit your Romanstone Dealer, or find us on the web: romanstone.com.

Be sure you have the latest version instructions!

Download the Base Prep instructions. (PDF)

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Tools needed

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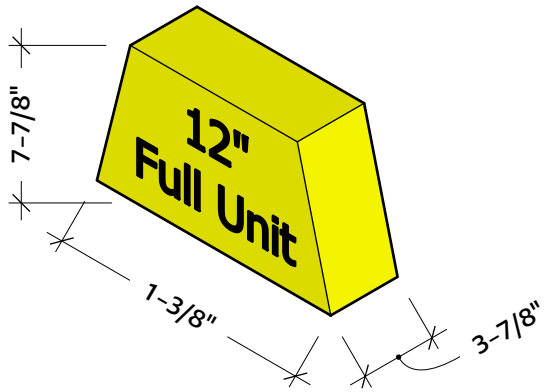
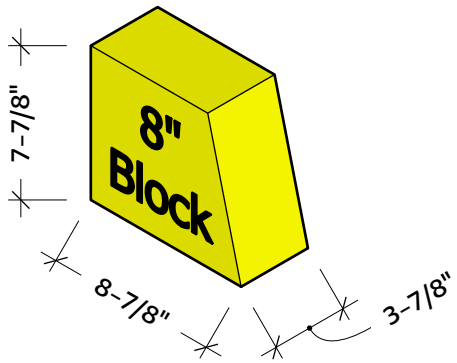
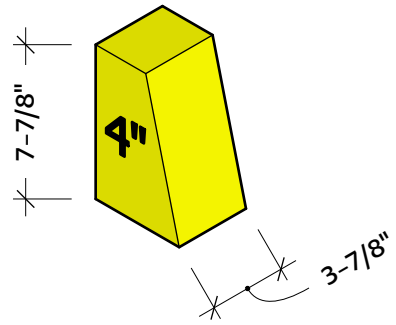
Unit Size Color Key



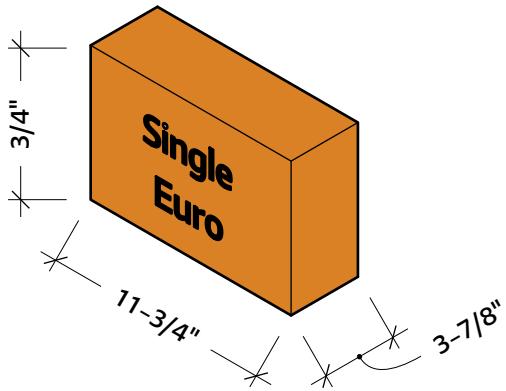
The 12" *Full* unit is the largest unit. It measures 12" (300mm) across the middle of the block. Flipping or spinning yields the same results. Shown in yellow.



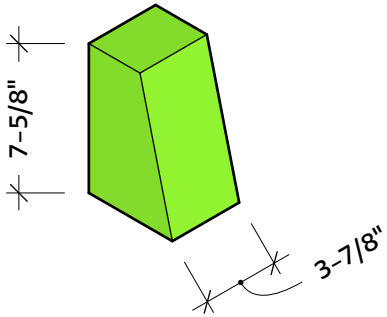
The 8" *Block* unit is essentially 2/3 of the full unit. It measures 8" (200mm) across the middle of the block. Be sure to flip it along the square side to get the correct placement of the angled side.



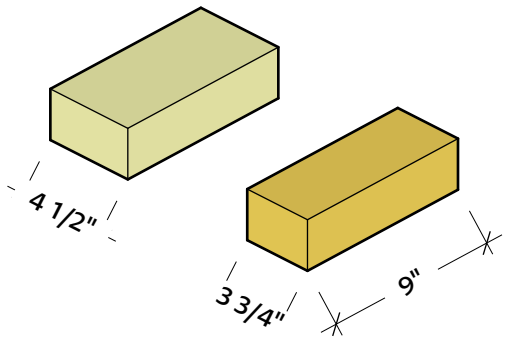
The 4" *Brick* unit is the remaining 1/3 of the full unit. It is the smallest unit measuring 4" (100mm) across its center. You can obtain a *Full* unit by combing a *Block* and a *Brick* unit together.



The Rectangular Euro block is a solid 4x8x12 inch unit. Depicted in orange.



Lintel Block. There are two precision cut lintel block in your kit. They will be untumbled.



Fire brick. These hard refractory brick are very dense. Use them to line your firebox. Three come cut to a narrower width.

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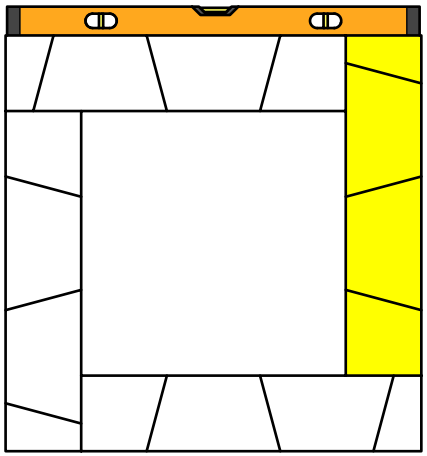
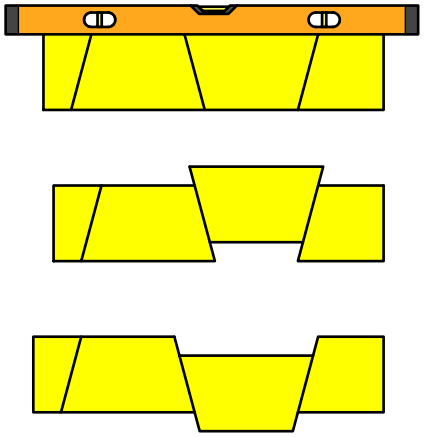
KEY1

Correct

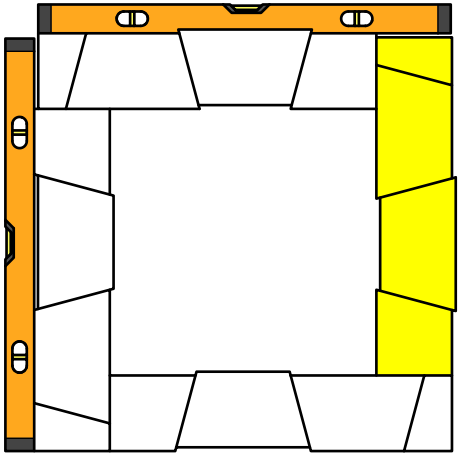


The key to keeping your kit square is to keep all the blocks flush and in a straight line. Be sure to use a straight edge to keep every run of blocks flush and straight.



As you can see in this drastic example, the length of a run of blocks can change if they are not laid flush and straight. Be sure to keep them abutted tightly together.

Incorrect



Here you can see how small variances will keep you from achieving a square build. Being out of square will also make building plumb impossible.

When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive – this will cause the blocks to "swim." A small bead is ideal.

Almost every issue or difficulty encountered while building this kit can be eliminated by following this simple technique on every course.

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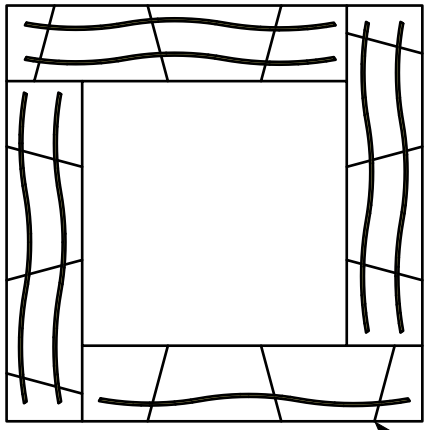
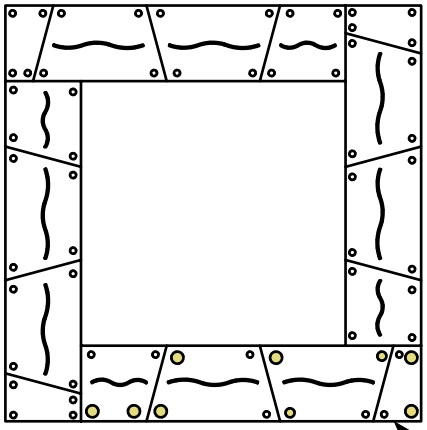
#1 TIP

1/4" Bead



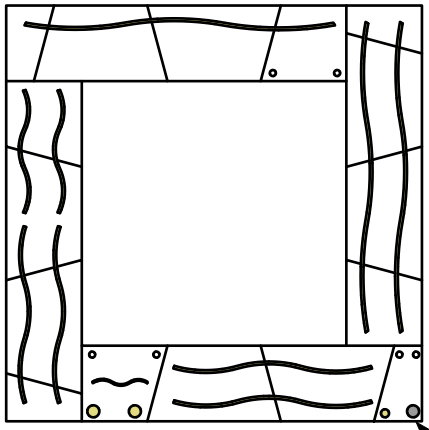
Glue every course after blocks are swept clean. Do not glue vertical joints. This allows water to exit . You can glue only one side to help micro-adjust blocks up to 1/16".

Dollops



Some people prefer using small dollops of glue. This is also acceptable and allows good drainage. Once again, dollops can be use to micro-adjust blocks up to 1/16".

Mixed



You can use any and all the gluing techniques as desired. If you need to adjust over 1/16" you can glue coins as needed. Don't fix larger gaps at once. Use a few courses.

When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive - this will cause the blocks to "swim." A small bead is ideal.

When gluing blocks together, be sure not to use too much adhesive this will cause the blocks to "swim." A small bead is preferred. Ideally, the blocks should "grind" together when set in place. Try to get your base perfectly level to avoid the need for shimming.

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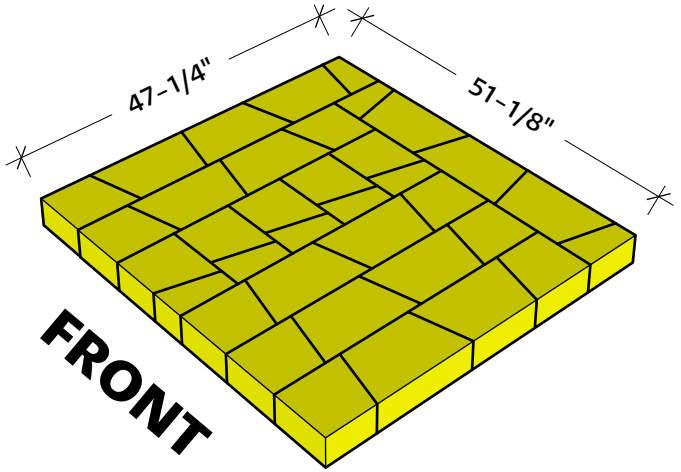
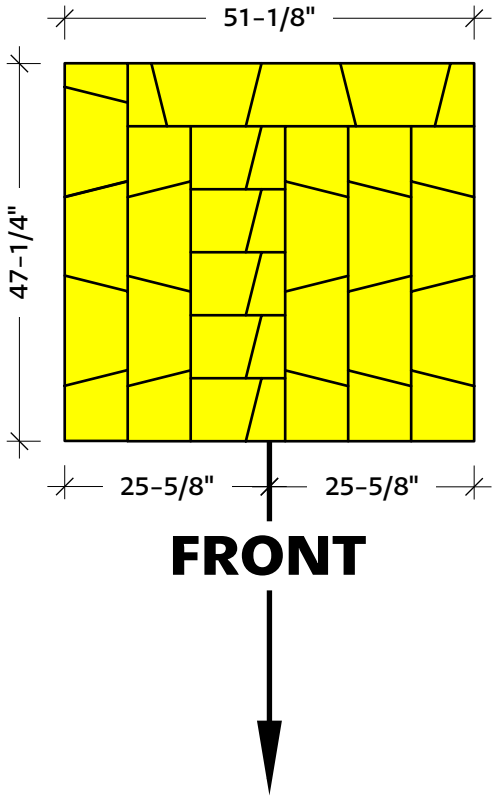
#2 TIP

This is your foundation block. One cannot over emphasize the importance of properly installing this layer. **Be sure to take the time to ensure it is "perfectly" square and level.** Any imperfections here will continue to show up over and over as you build this kit.





The middle of the base does not align at the middle of a full block. Be sure to take your time to find center if your working from the center out.

When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive - this will cause the blocks to "swim." A small bead is ideal.

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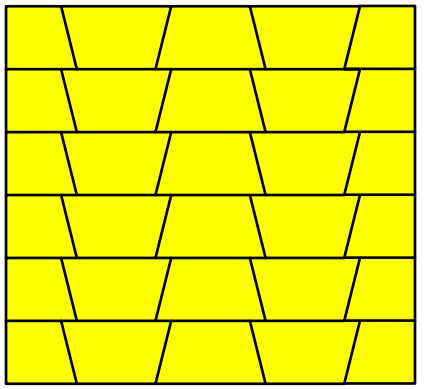
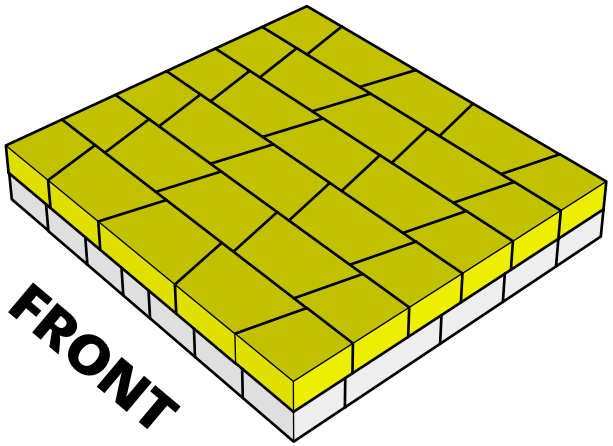
01

This is your foundation block. One cannot over emphasize the importance of properly installing this layer. **Be sure to take the time to ensure it is "perfectly" square and level.** Any imperfections here will continue to show up over and over as you build this kit.



FRONT



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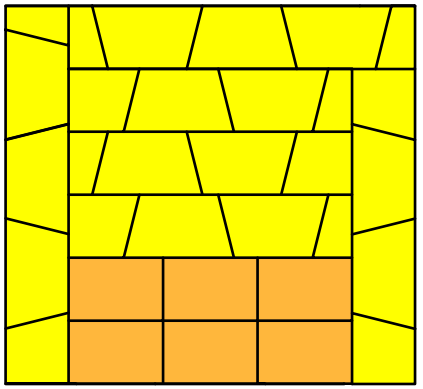
Consider not gluing these central block of the fire box floor (depicted by the darker shaded block). They will be much easier to flip over or replace if needed down the road.



FRONT

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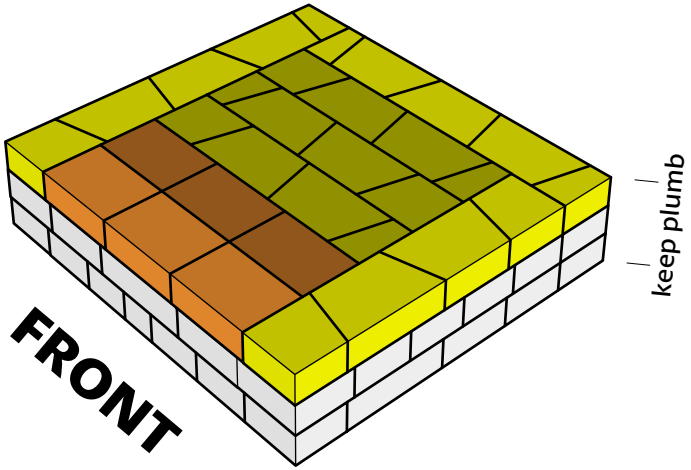
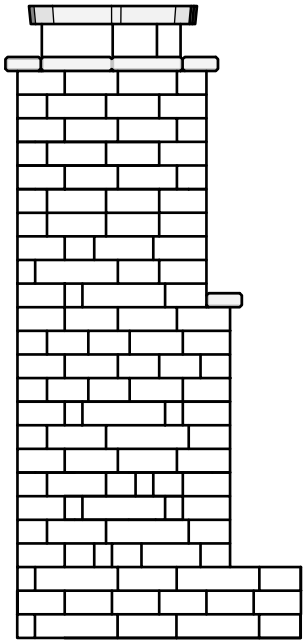


The entire back of the fire-place is flush. There are no set-backs. Be sure to keep your fireplace plumb as you build. Use your 4' level and check often.



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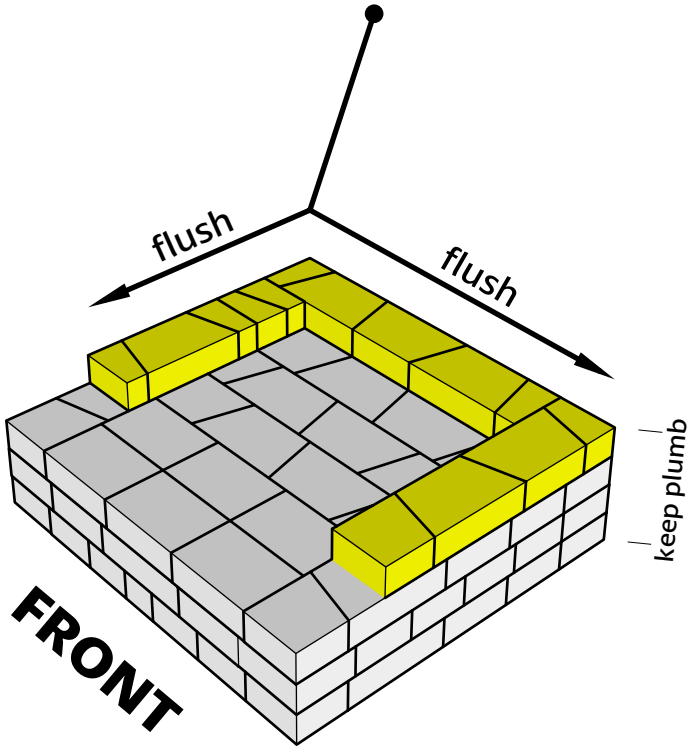
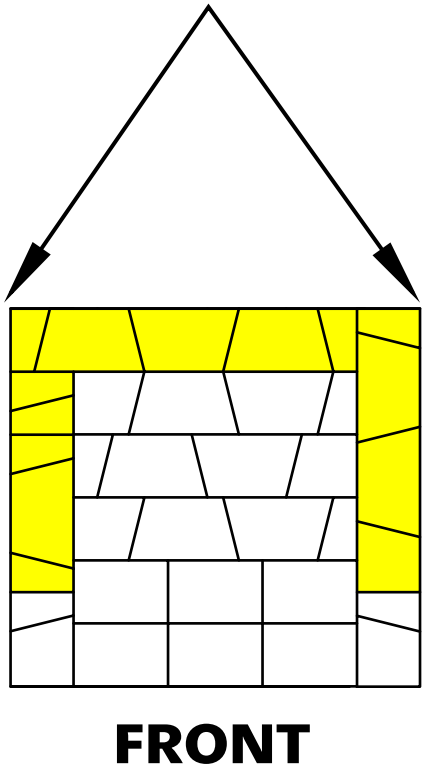
Be sure to keep the outer faces of the block flush. Use a 4' level to keep them in a line. This will ensure they end up at the same length, too.



Always start building from the outside corners. This will help ensure you keep your structure plumb.



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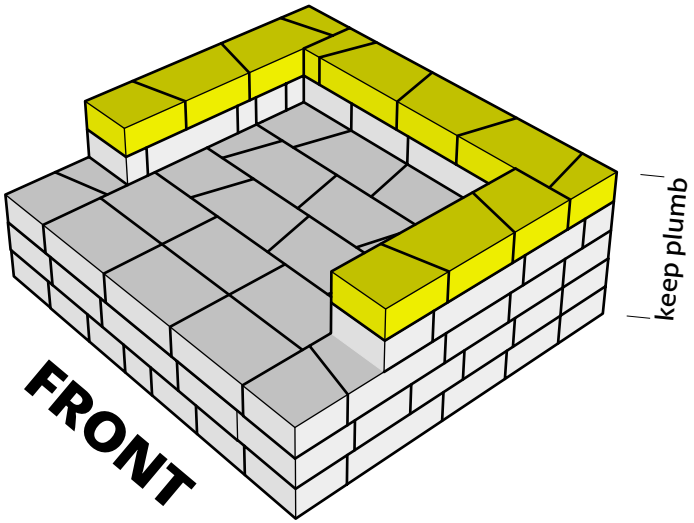
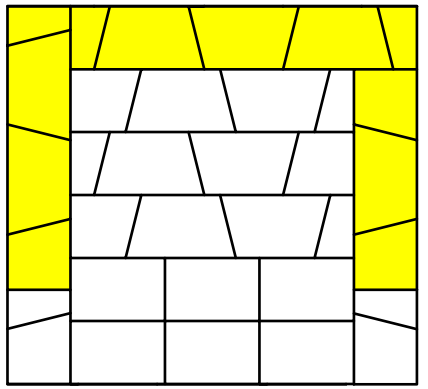
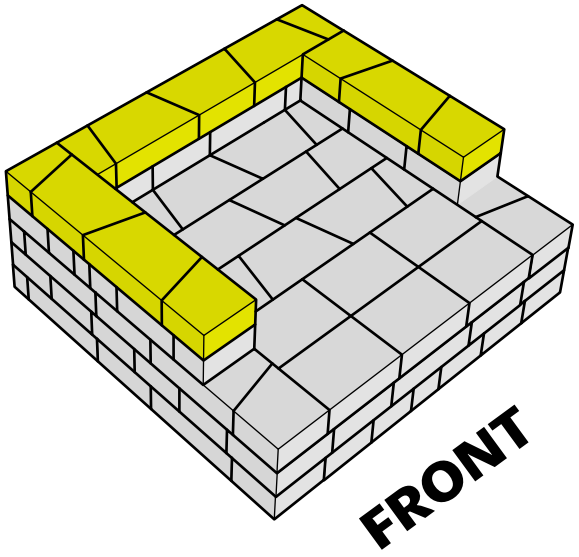
Start building from this outside corner. Keep your structure flush, level, and plumb.







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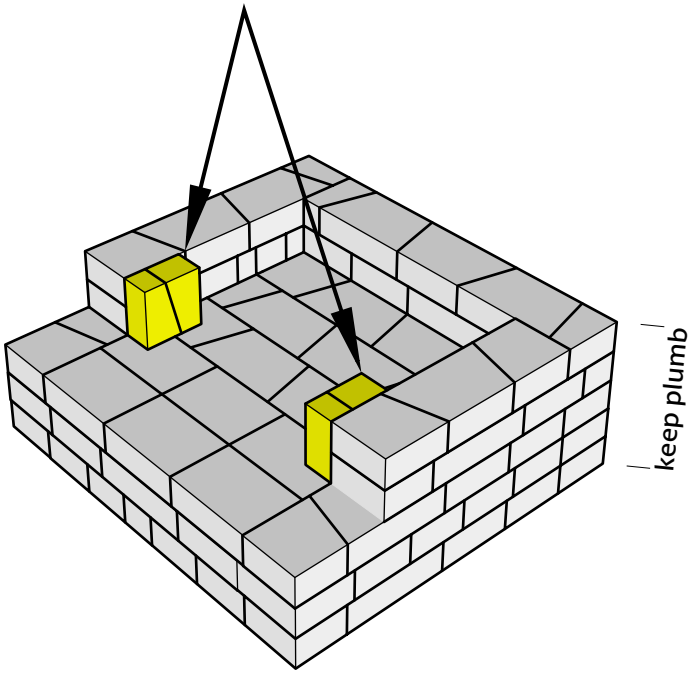
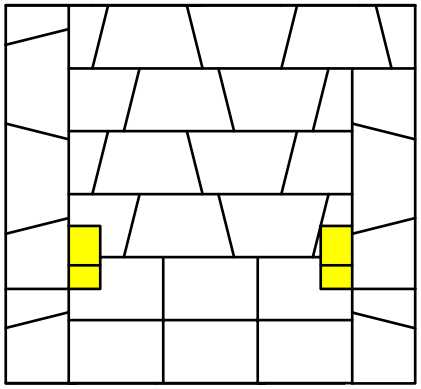
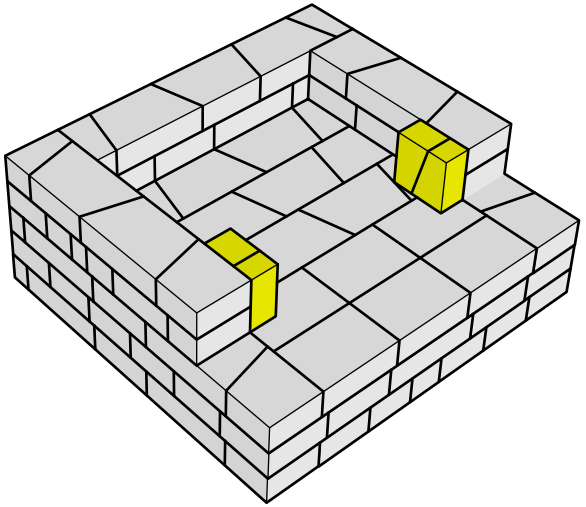
It is very important to place these block in a vertical fashion as shown. Placing them horizontally will cause them to slide apart.







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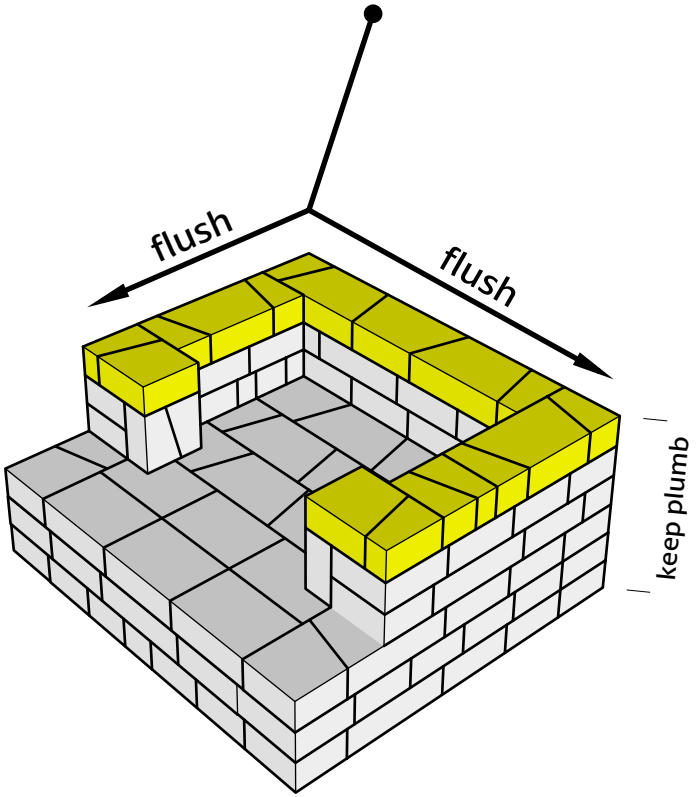

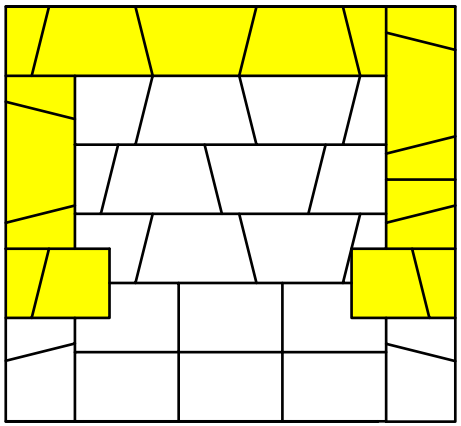

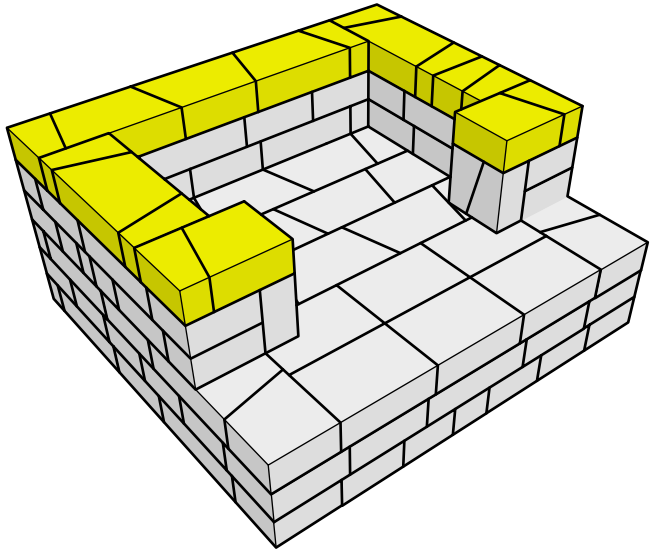

When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive – this will cause the blocks to "swim." A small bead is ideal.

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1	1/28/2020	First release - TP
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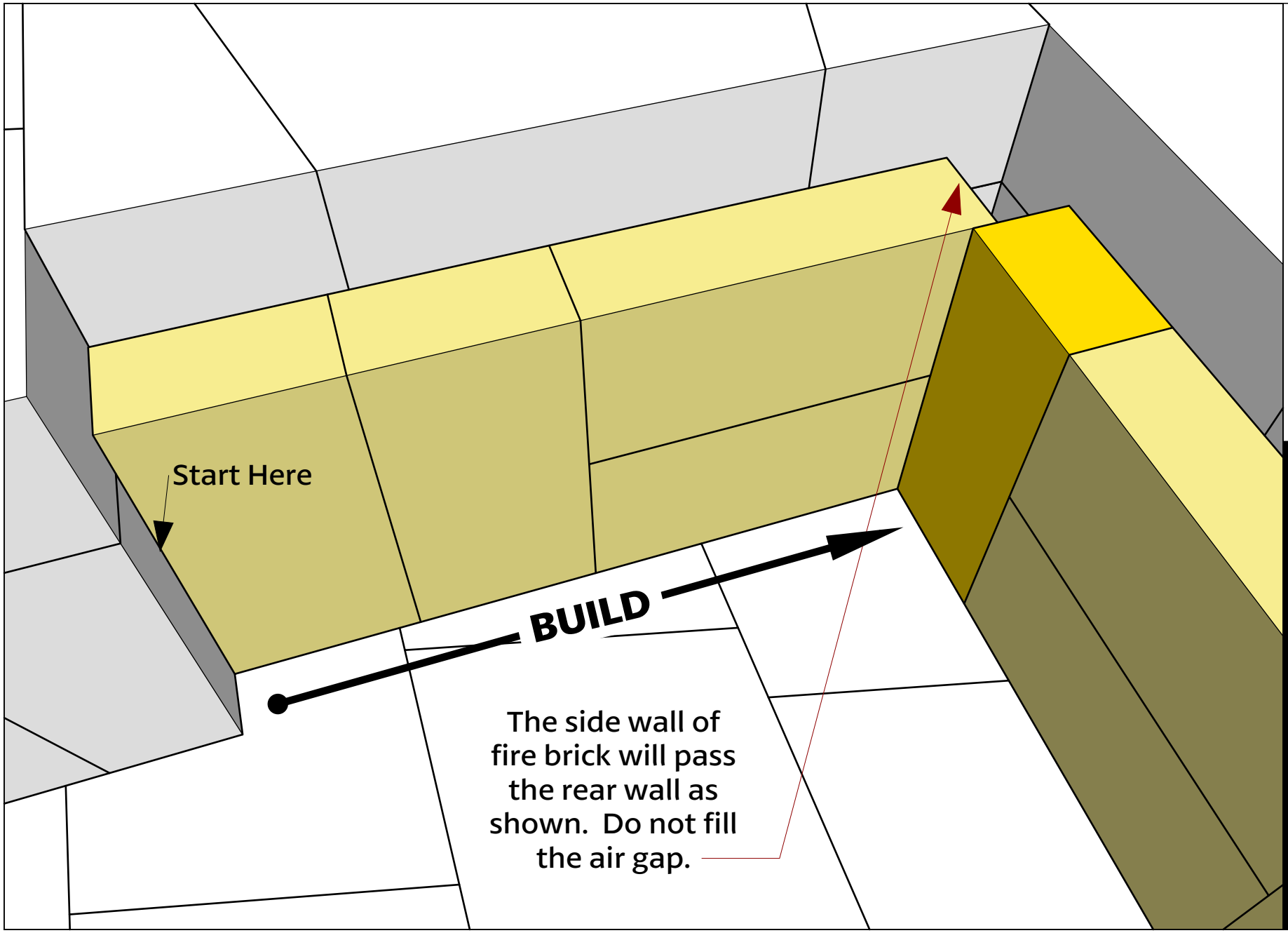

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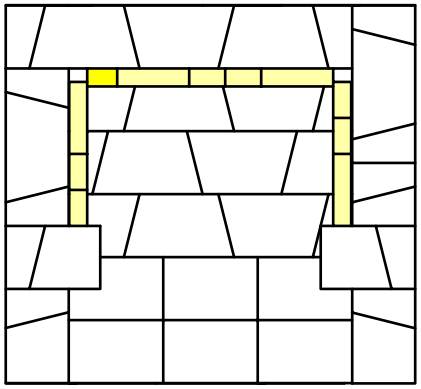
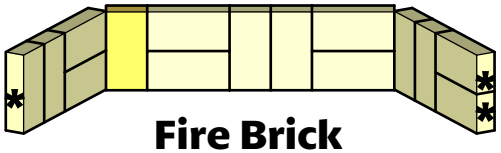
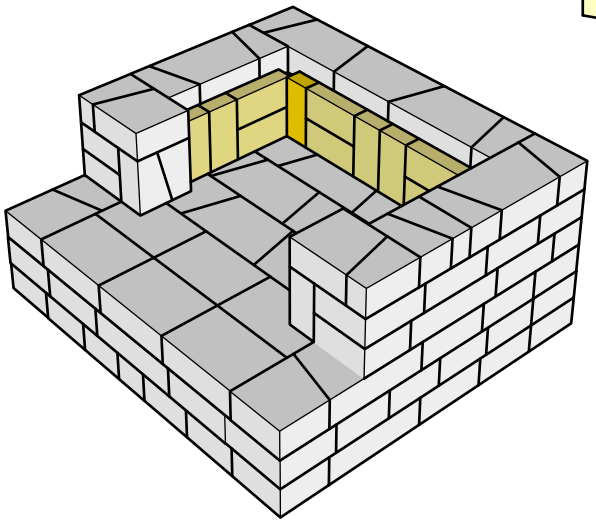
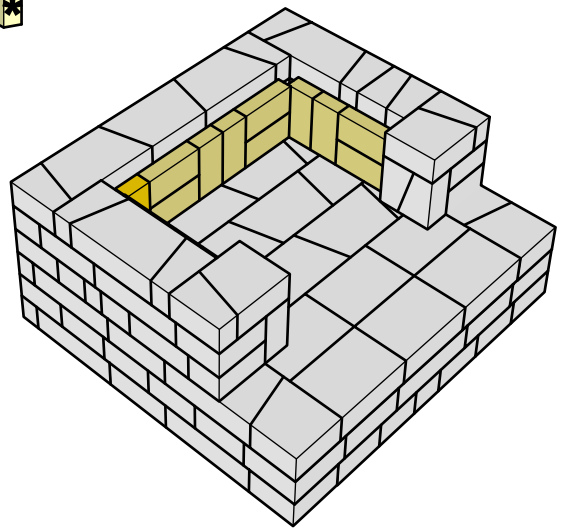




Fire Brick Pattern





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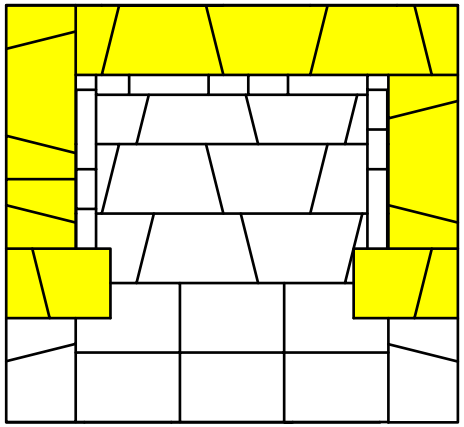

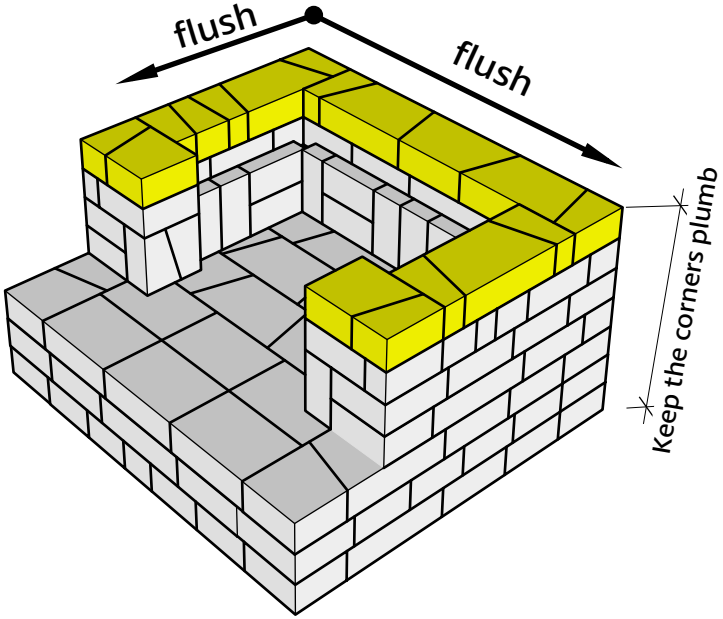

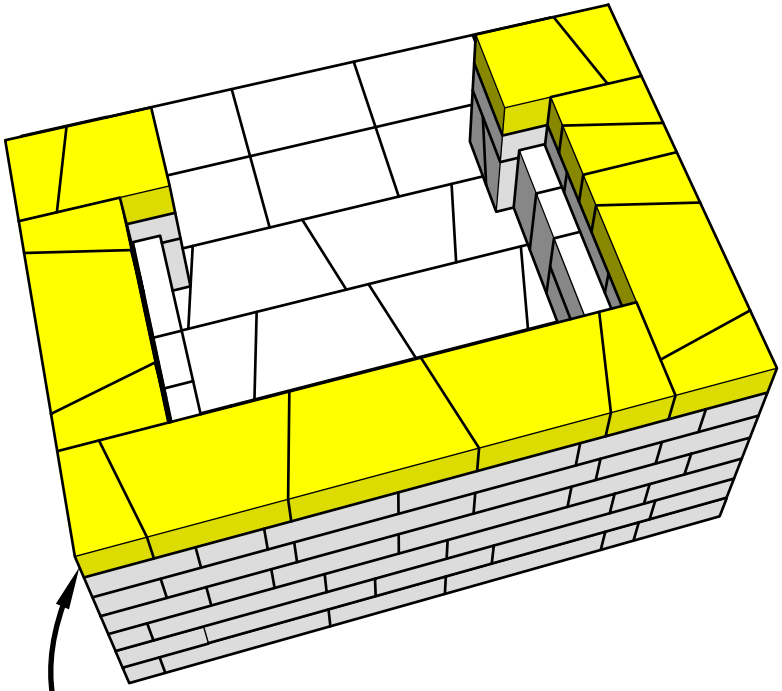

Start building from this outside corner. Keep your structure plumb. If the corners are not lining up, be sure to keep the face of the blocks flush. This will ensure every run is the right length.

When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive – this will cause the blocks to "swim." A small bead is ideal.

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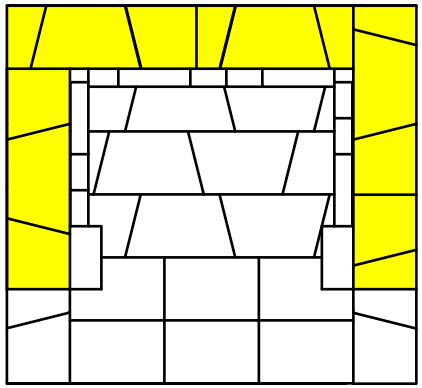

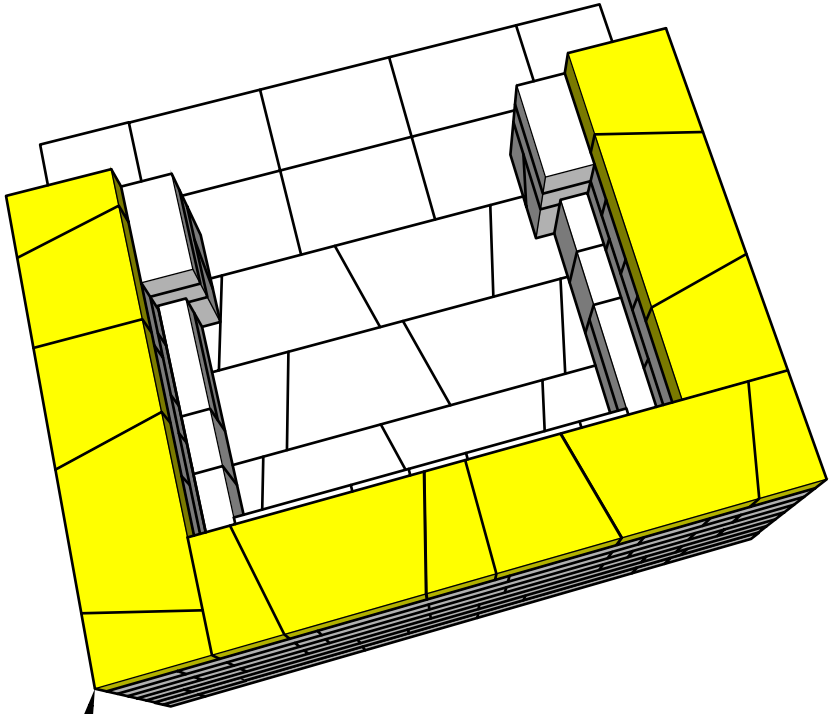

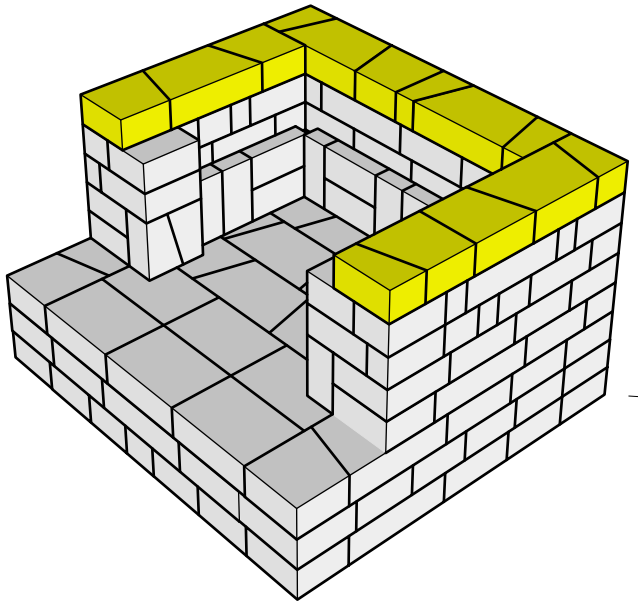

Keep the corners plumb

Start building from this outside corner. Keep your structure plumb. If the corners are not lining up, be sure to keep the face of the blocks flush. This will ensure every run is the right length.

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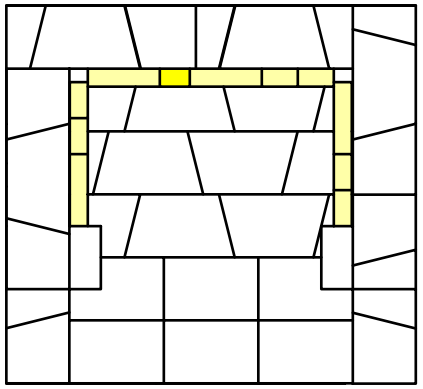
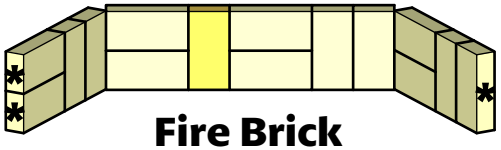
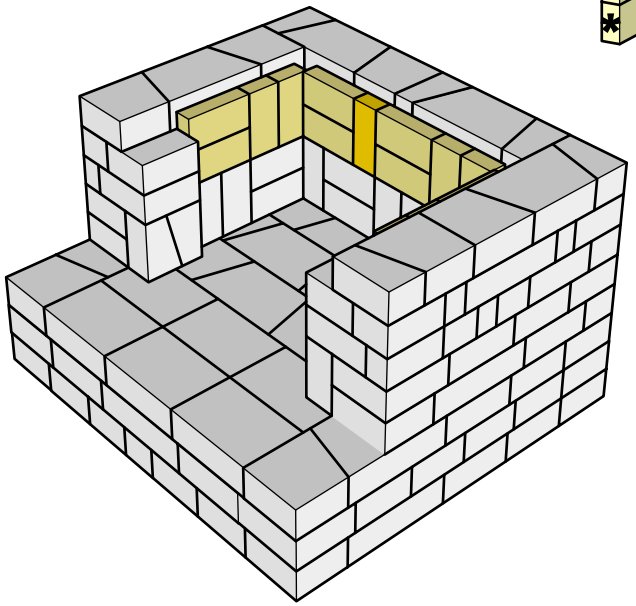
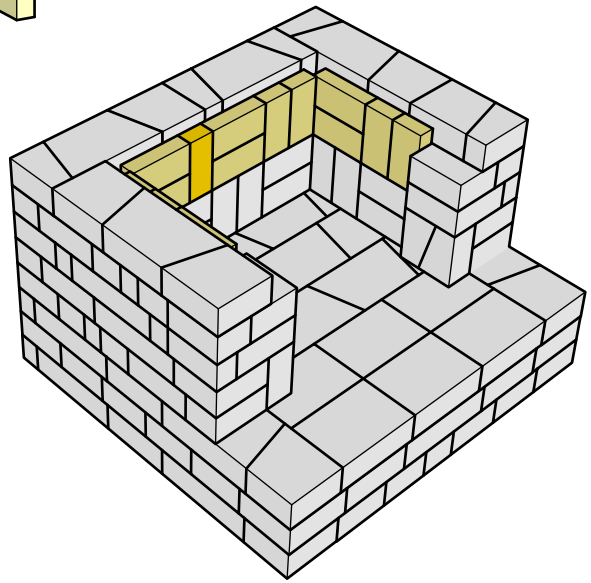




Fire Brick Pattern





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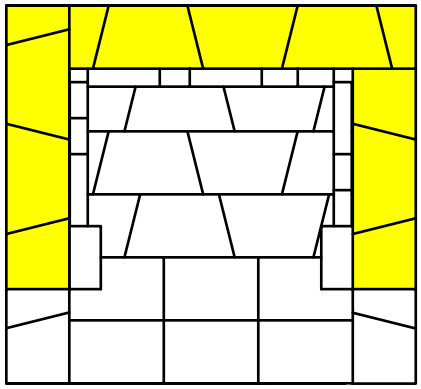
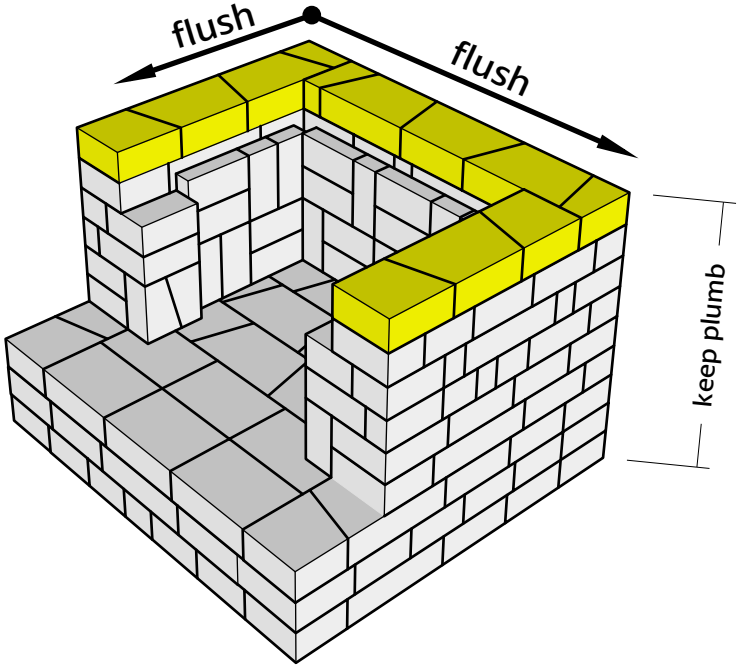
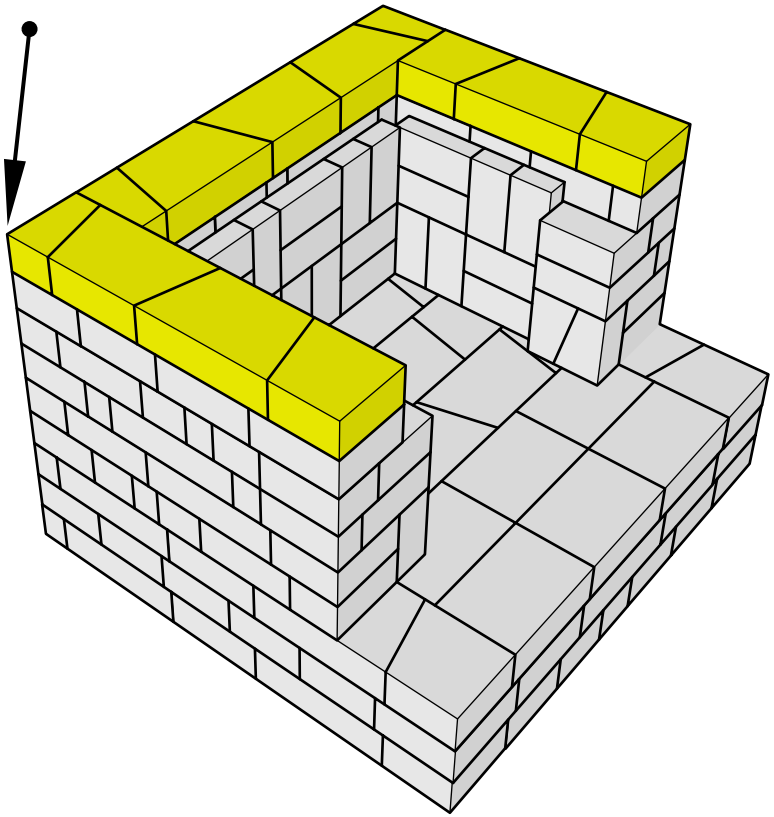


Start building from this outside corner. Keep your structure flush, level, and plumb.





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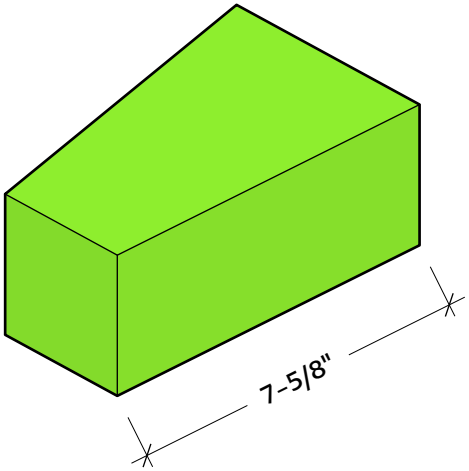
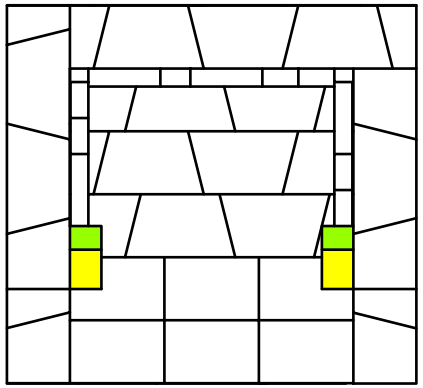


It is very important to place these lintel block exactly as shown. Be sure to glue these block as well. These block will support your angle iron.



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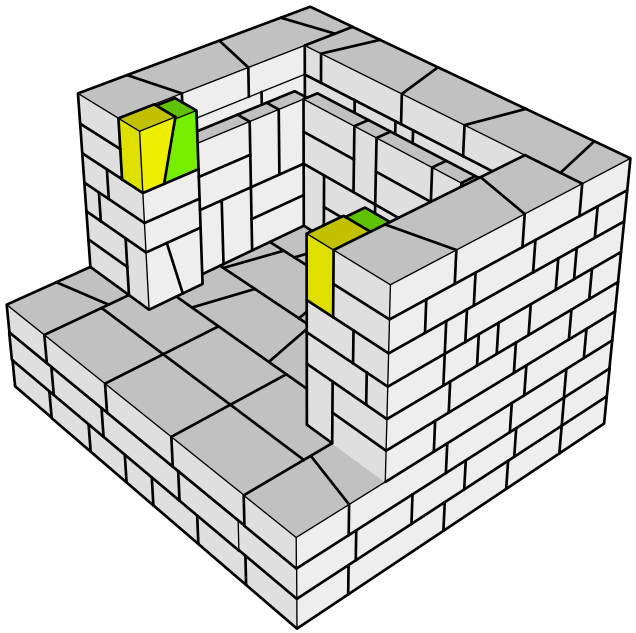

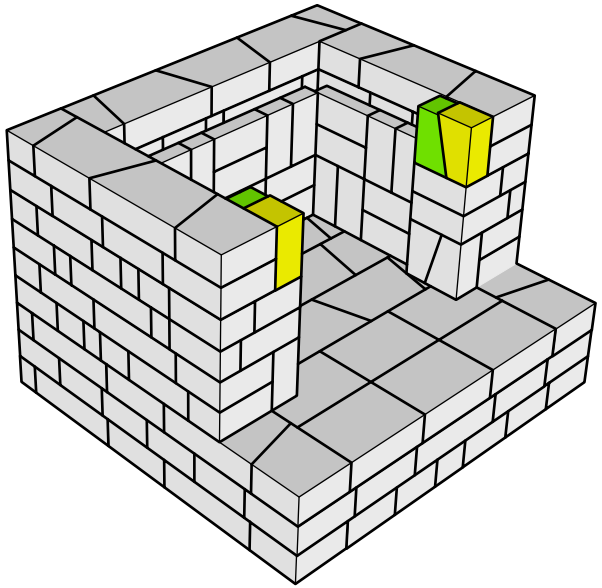

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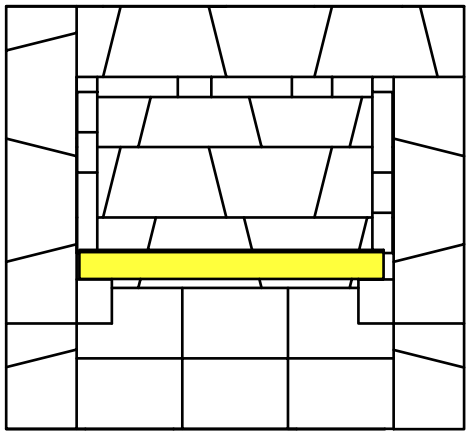
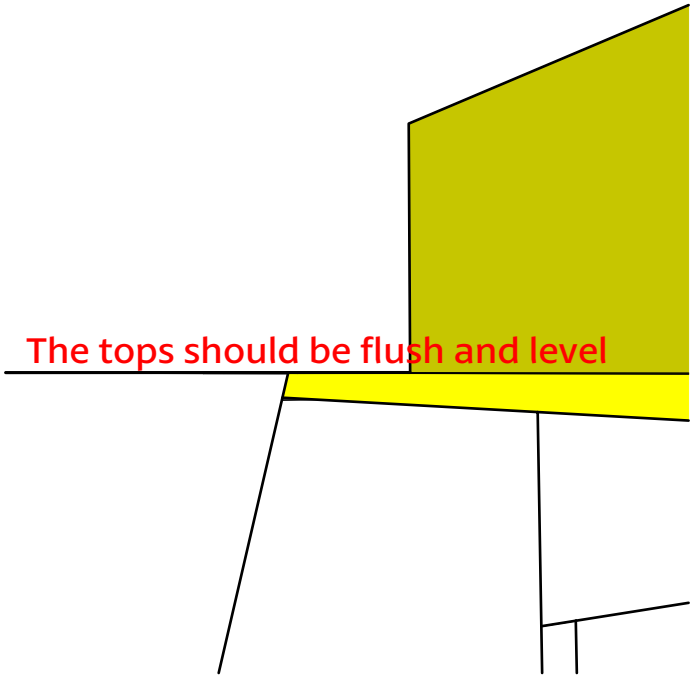
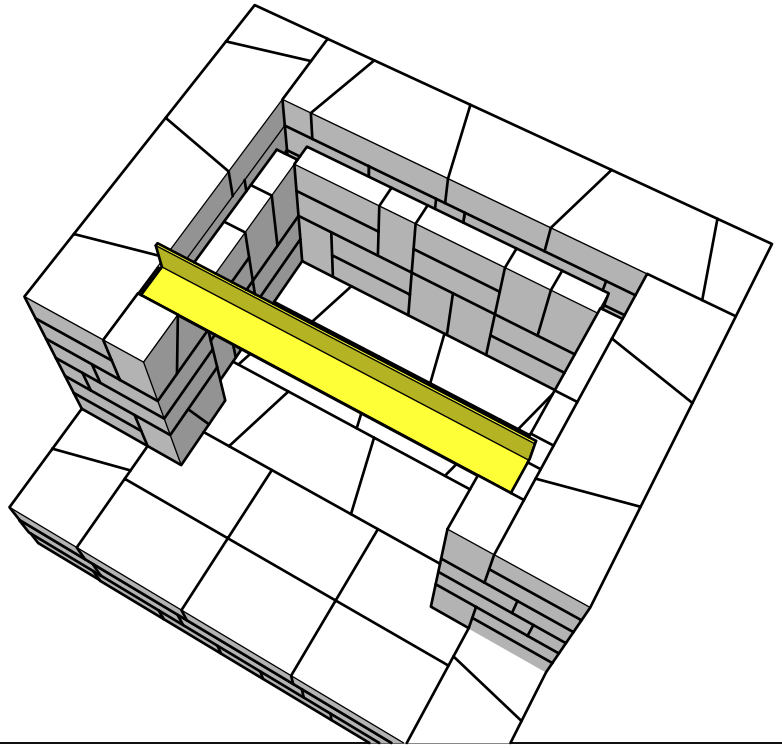


Place the angle iron such that the top of the angle leg is flush with the top of the surrounding blocks. If you do not make sure the top of the lintel is flush, the block will appear to sag above the opening.

Be sure that the longer side of the angle points upward. You may need to use coins as shims or add sand/mortar under the angle iron to make it flush.

Be sure to roughly center the iron to the fire box opening. There will be extra room to allow for the angle iron to expand.





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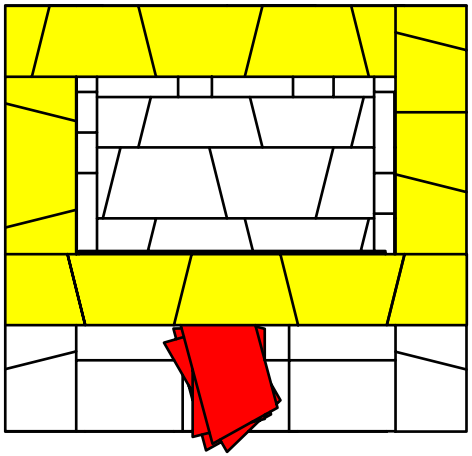
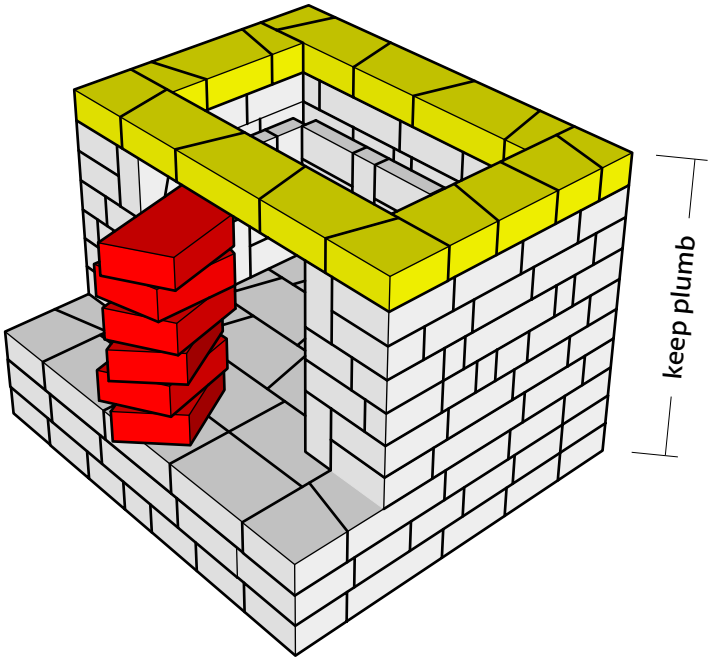
You will need to set up TEMPORARY support blocks before proceeding to this step.

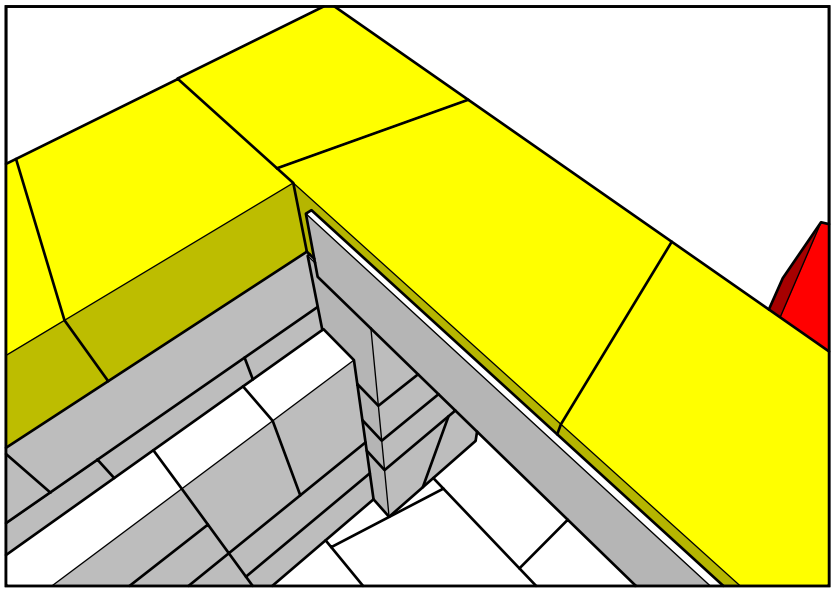
Be sure to just catch the corner of the support block. It will be easier to remove later.

DO NOT GLUE THESE SUPPORT BLOCKS!





Tap the angle iron forward until it is fairly close to the edge of the block. The taller side points upward.



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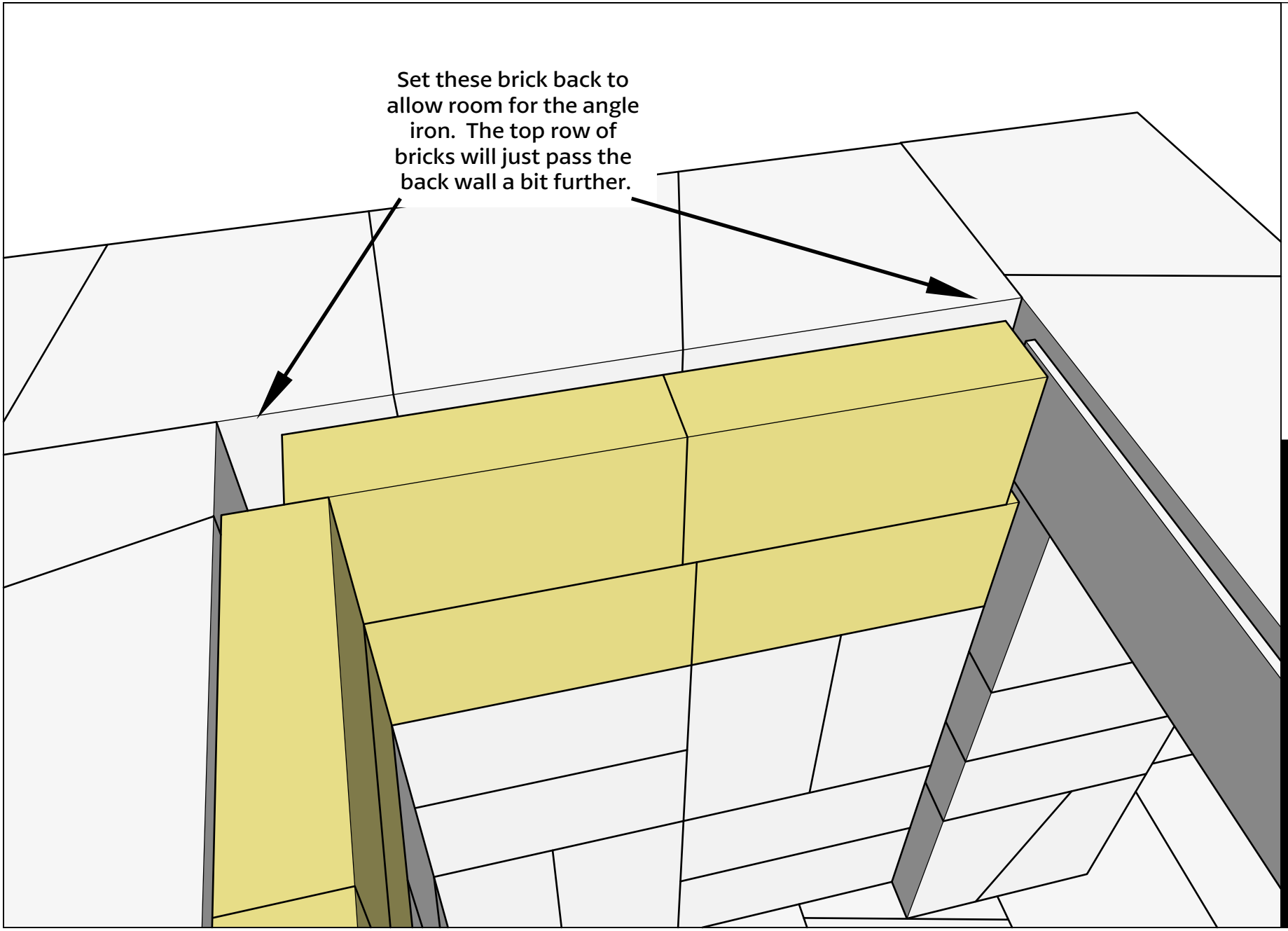

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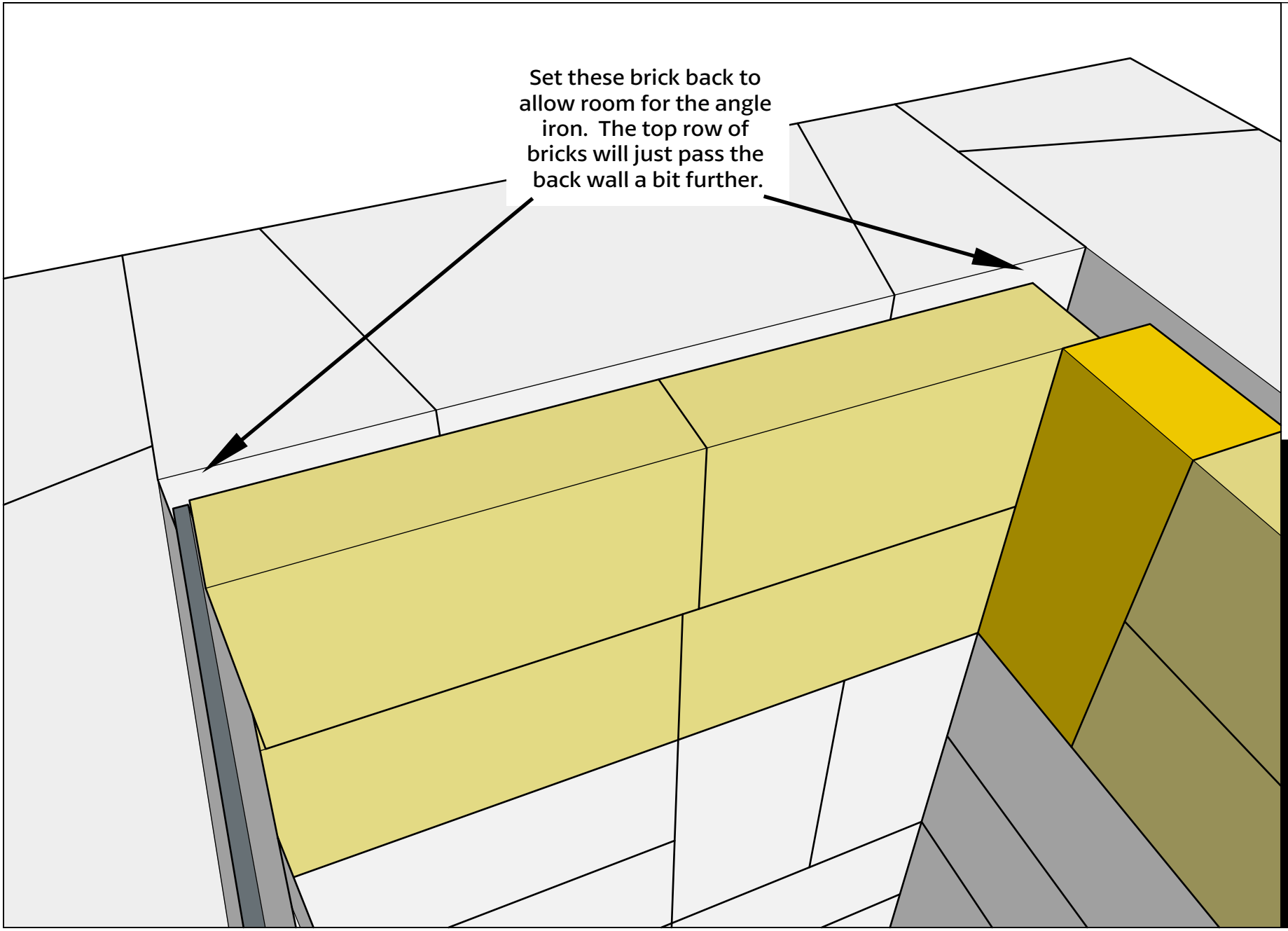

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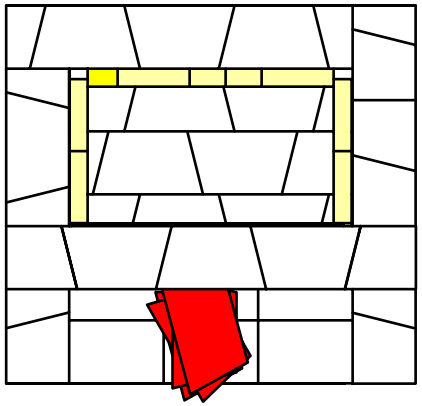
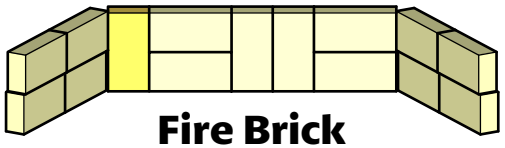
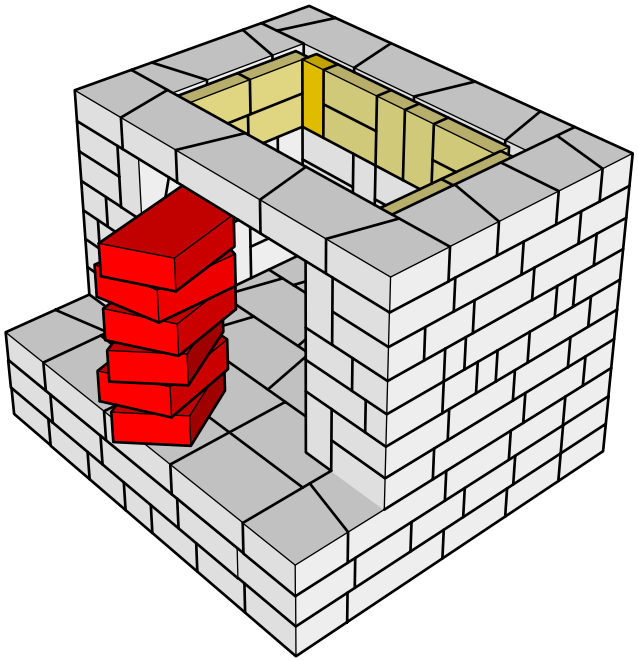
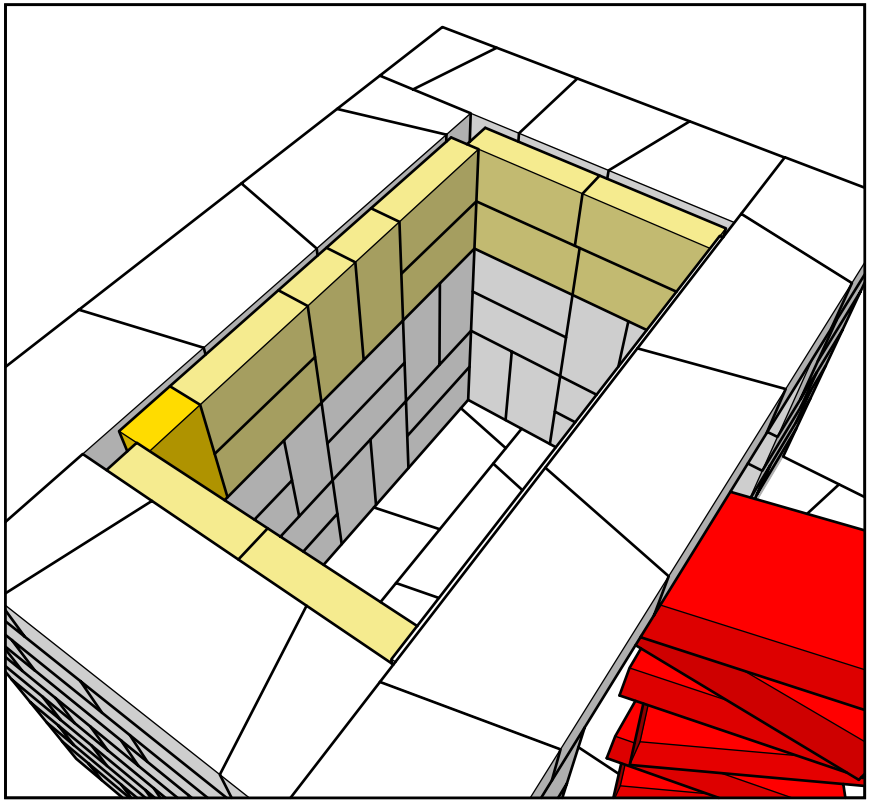




Fire Brick Pattern





When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive – this will cause the blocks to "swim." A small bead is ideal.

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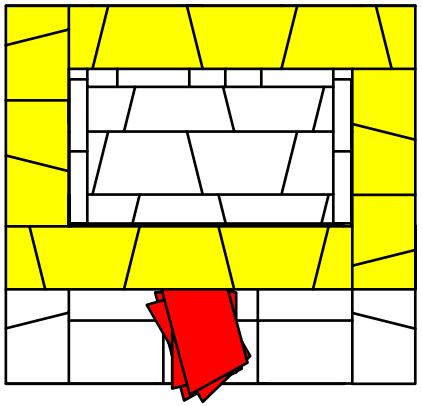
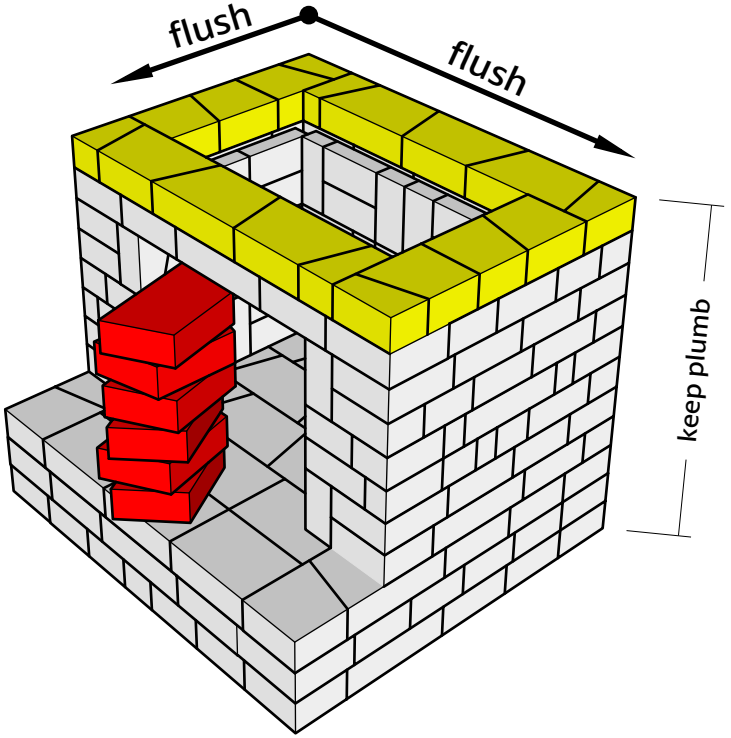
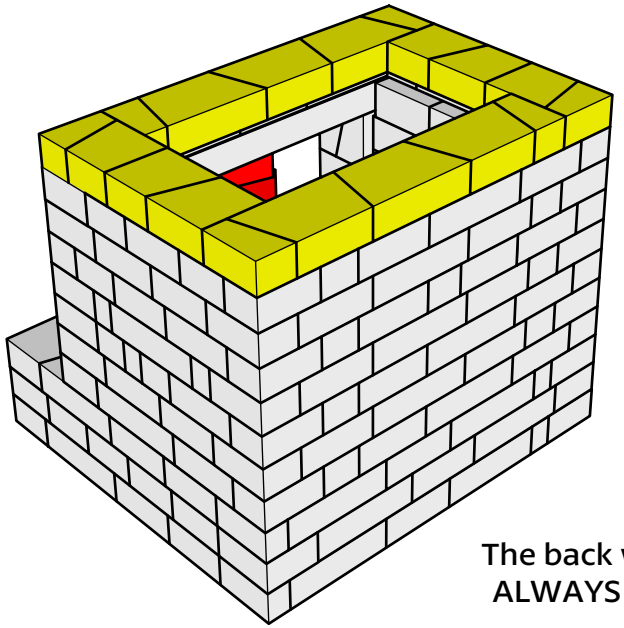


Keep the back wall of the fireplace plumb. You're doing a great job!

When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive – this will cause the blocks to "swim." A small bead is ideal.





The back wall is ALWAYS flush.

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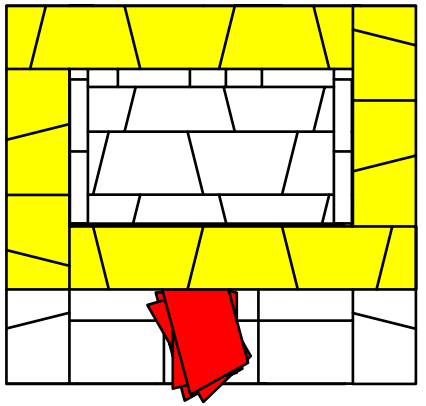

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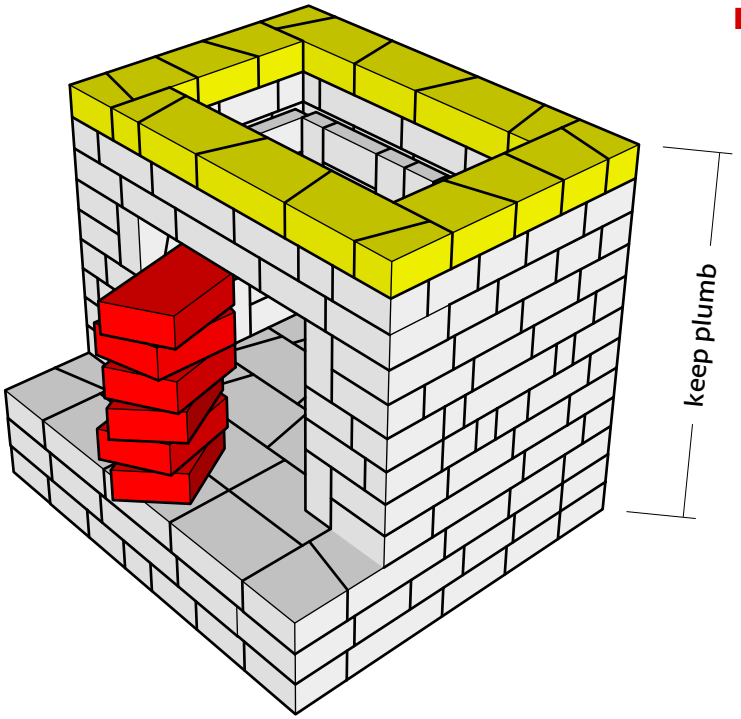
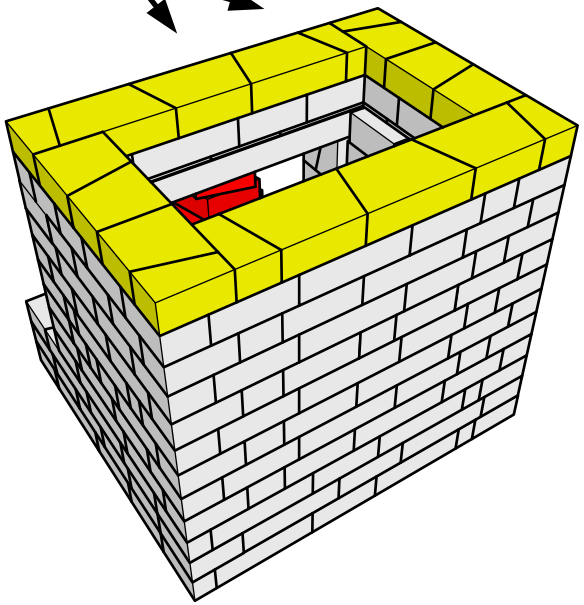


DO NOT GLUE THESE SUPPORT BLOCKS!



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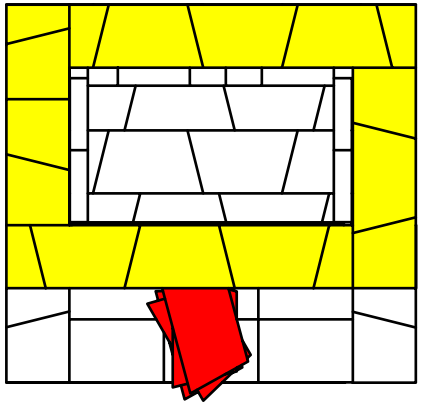
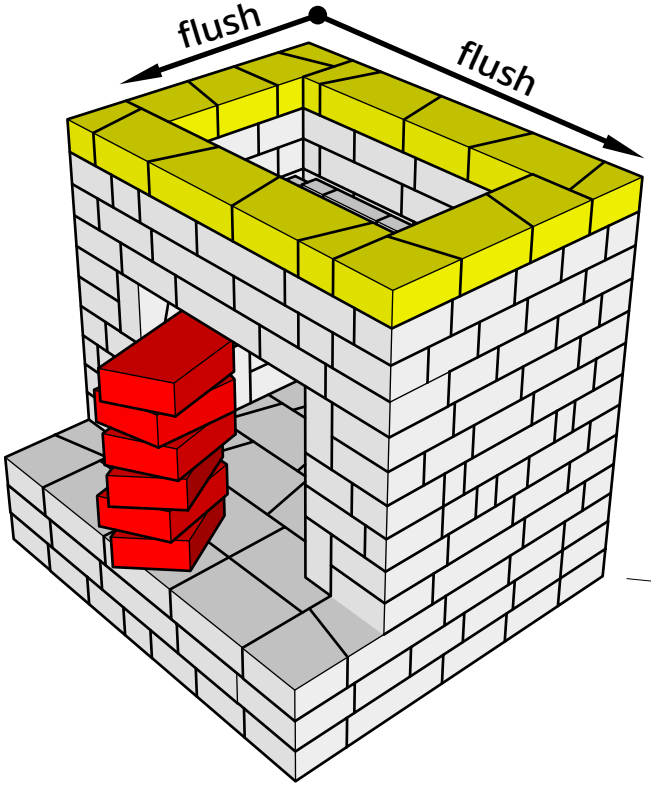
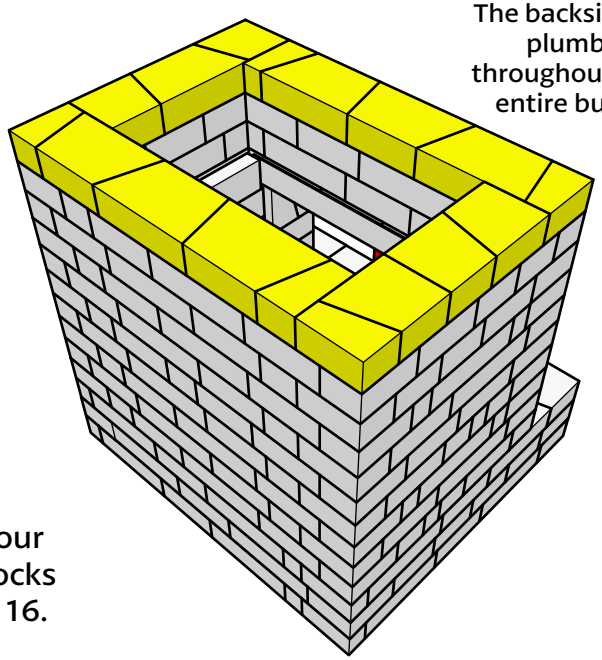


Keep the back wall of the fireplace plumb.



Remove your support blocks from step 16.



The backside is plumb throughout the entire build.

When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive – this will cause the blocks to "swim." A small bead is ideal.

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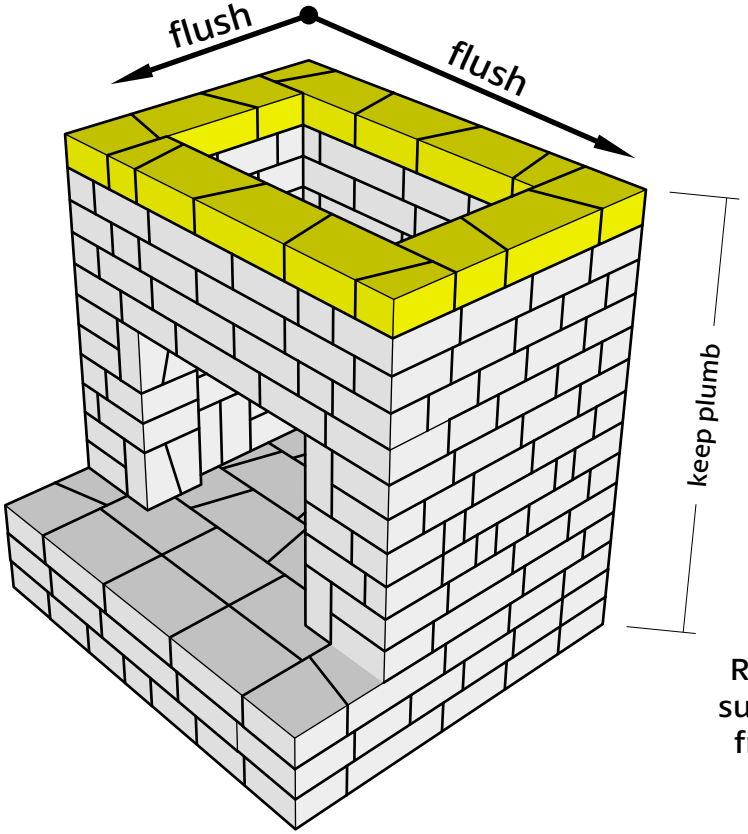
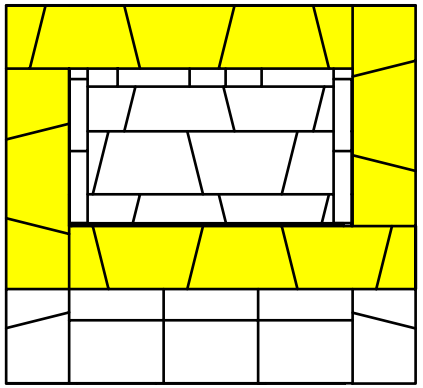
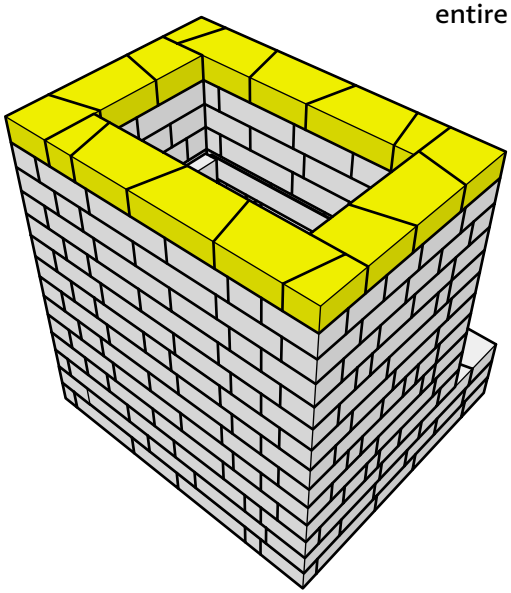
Keep the back wall of the fireplace plumb and the block faces straight and flush with each other.



Remove your support blocks from step 16.



The backside is plumb throughout the entire build.



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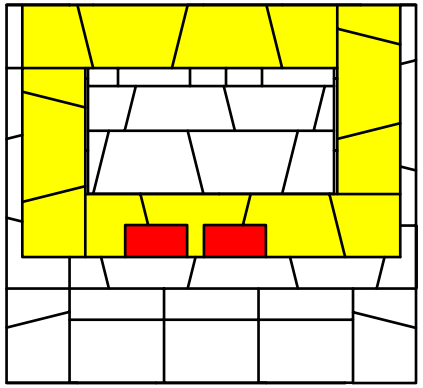
✱These block tend to want to rock back into the opening. Stack block to hold them into place until you place the next course.



Keep the back wall of the fireplace plumb. Rack the block in approximately 2" from each side and about 4" from the front.

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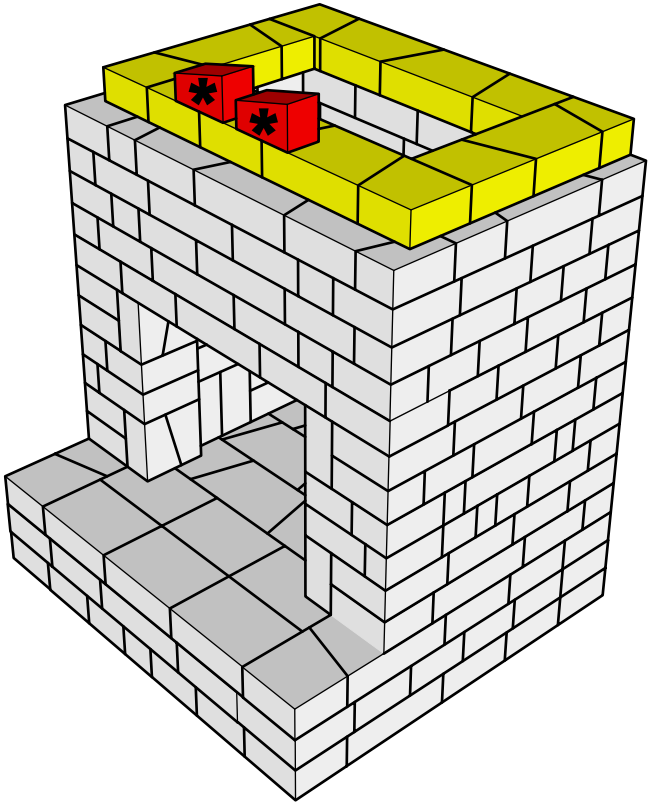
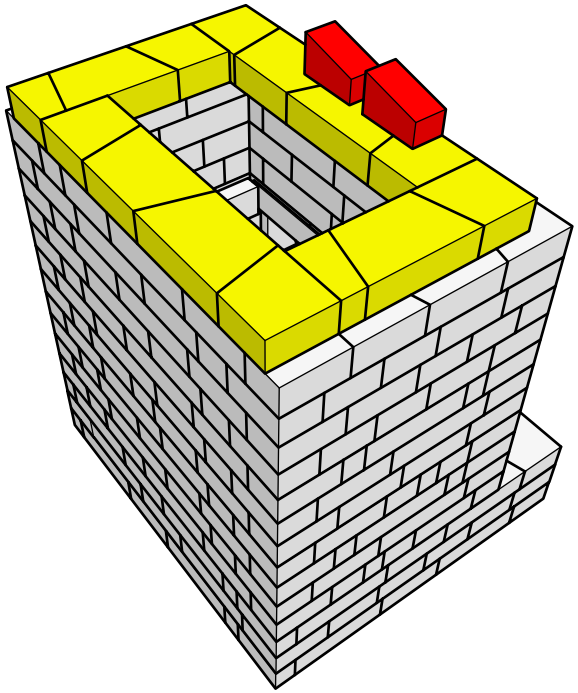


The backside is plumb throughout the entire build.



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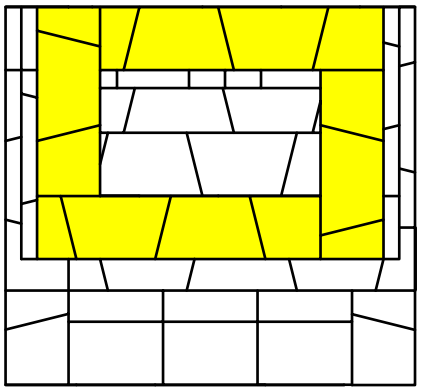
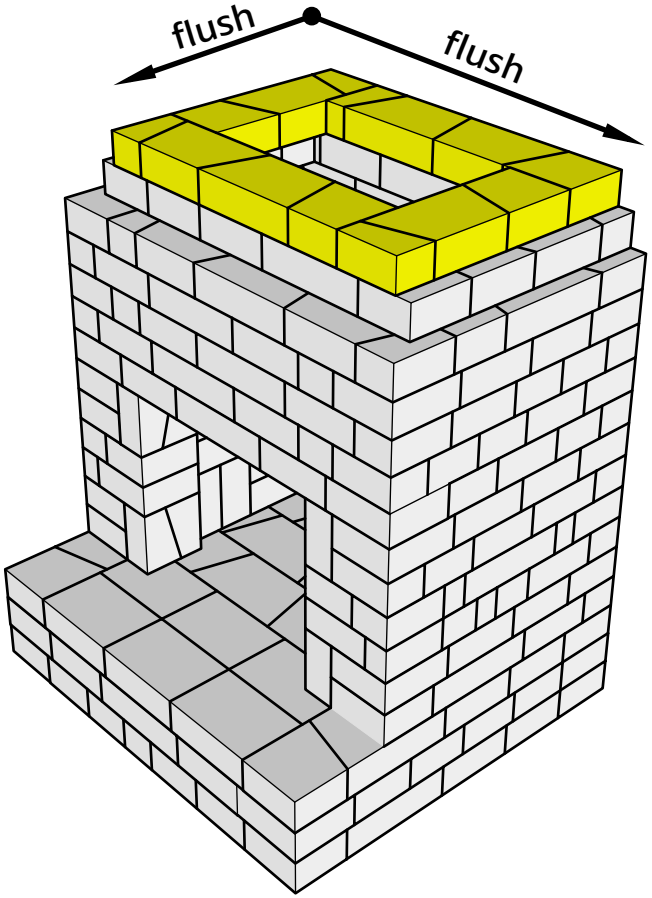
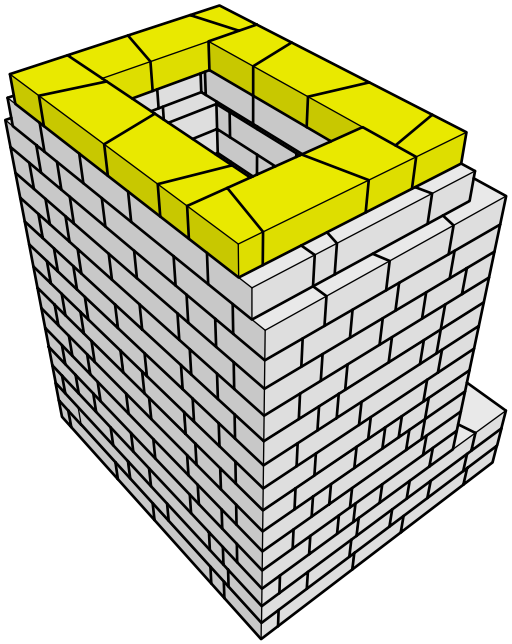




The backside is plumb throughout the entire build.



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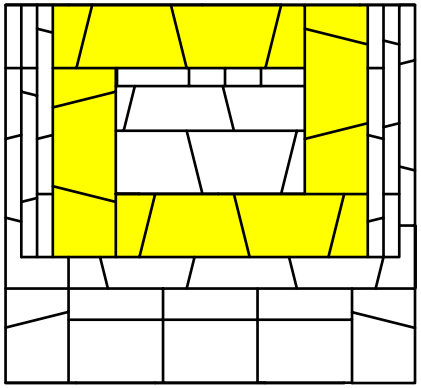
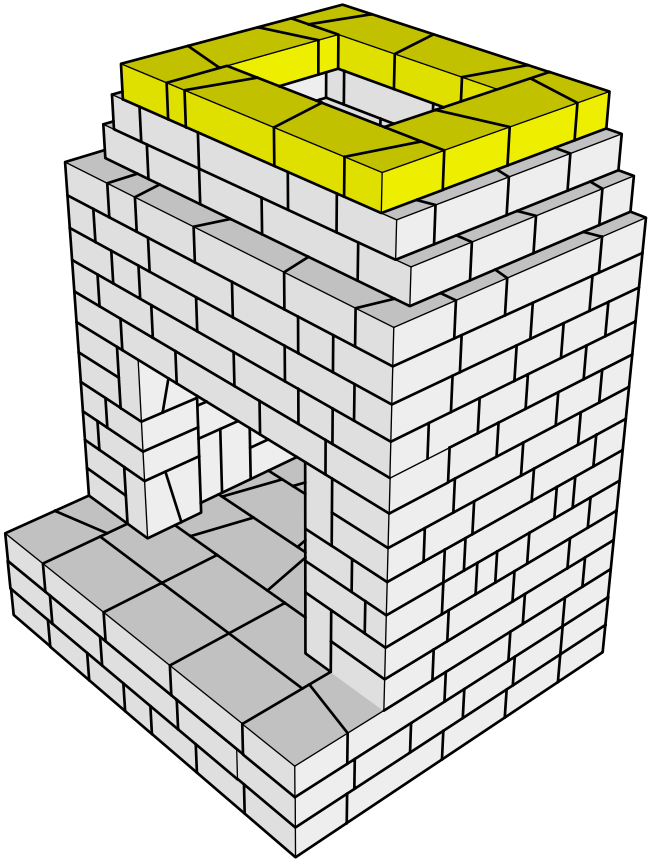
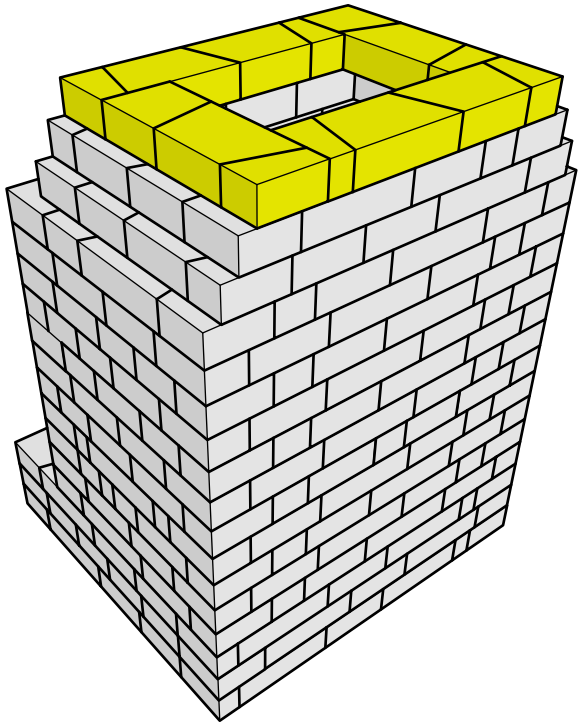
Keep the back wall of the fireplace plumb. Rack the block in approximately 2" from each side.





The backside is plumb throughout the entire build.



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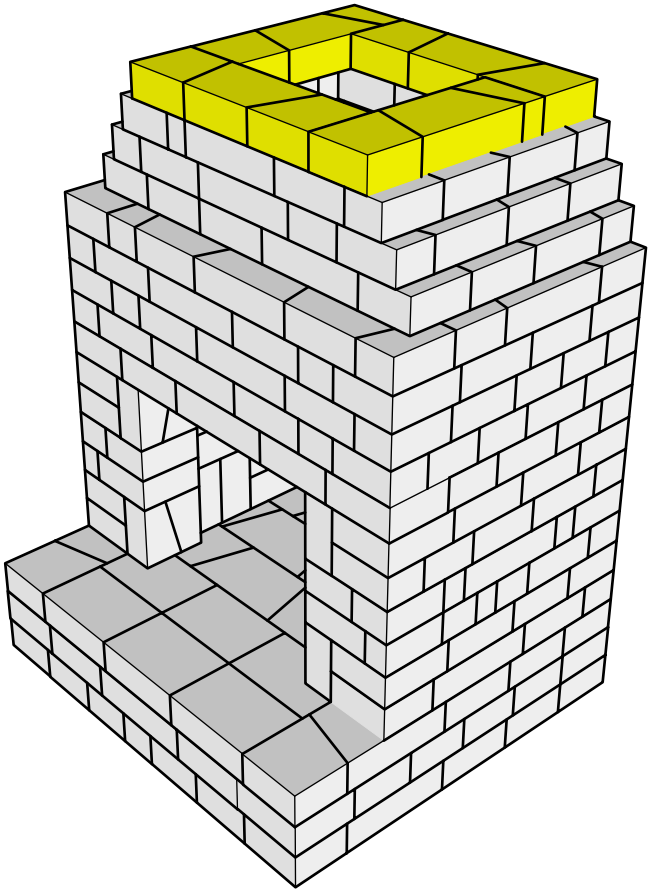
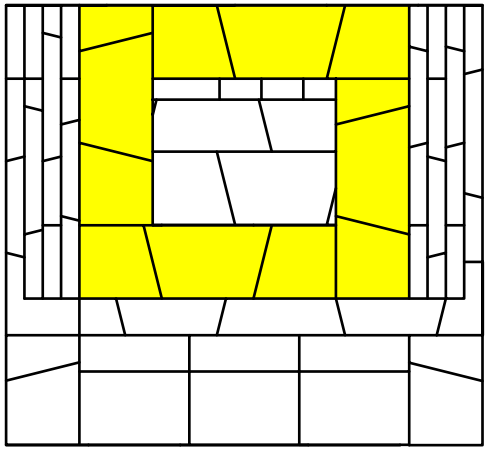
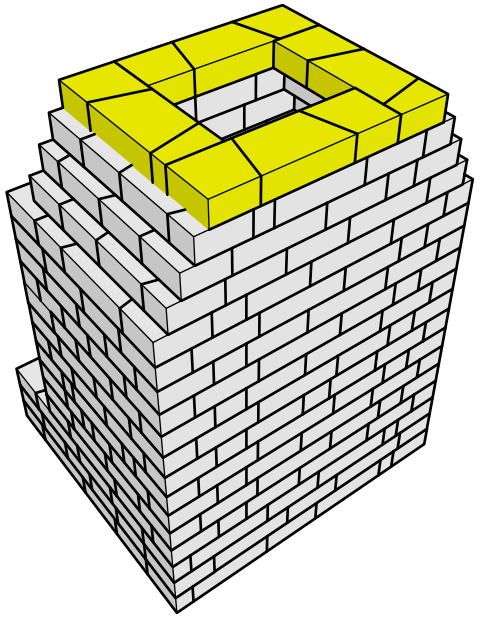
Keep the back wall of the fireplace plumb. Rack the block in approximately 2" from each side.







The backside is plumb throughout the entire build.

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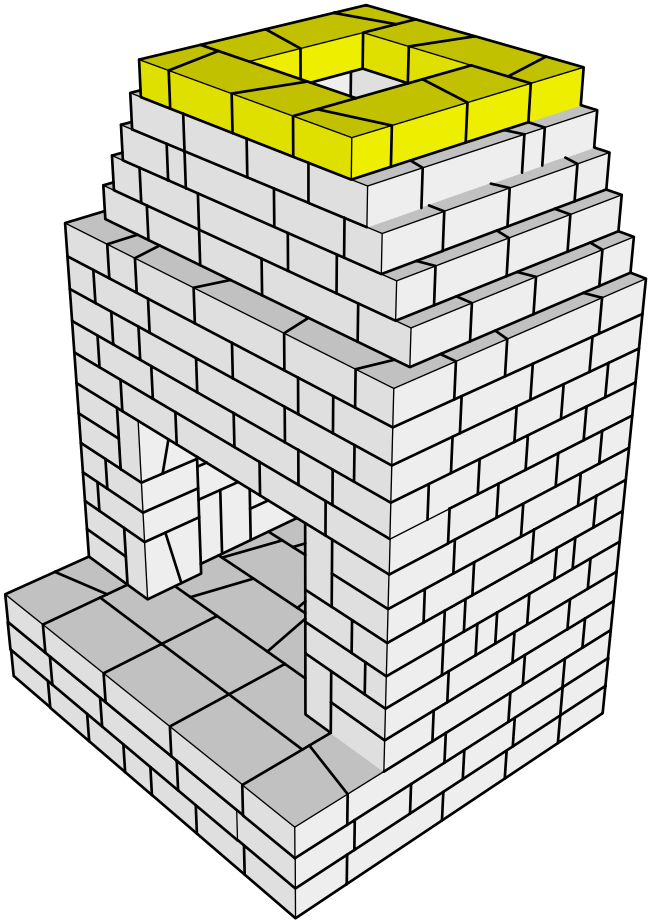
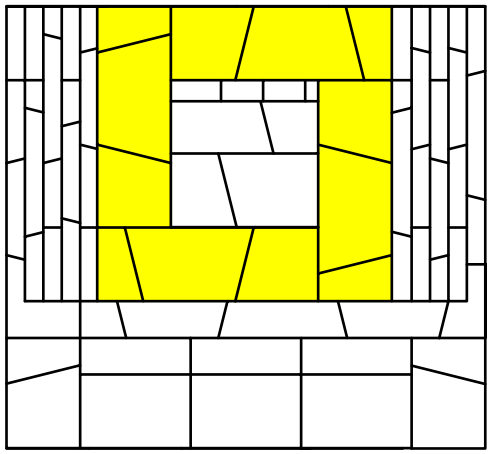
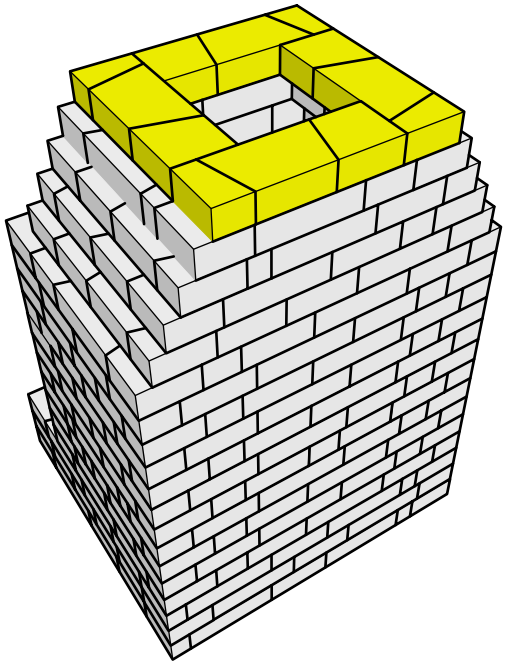
Keep the back wall of the fireplace plumb. Rack the block in approximately 2" from each side. This is the first course of the chimney!







The backside is plumb throughout the entire build.

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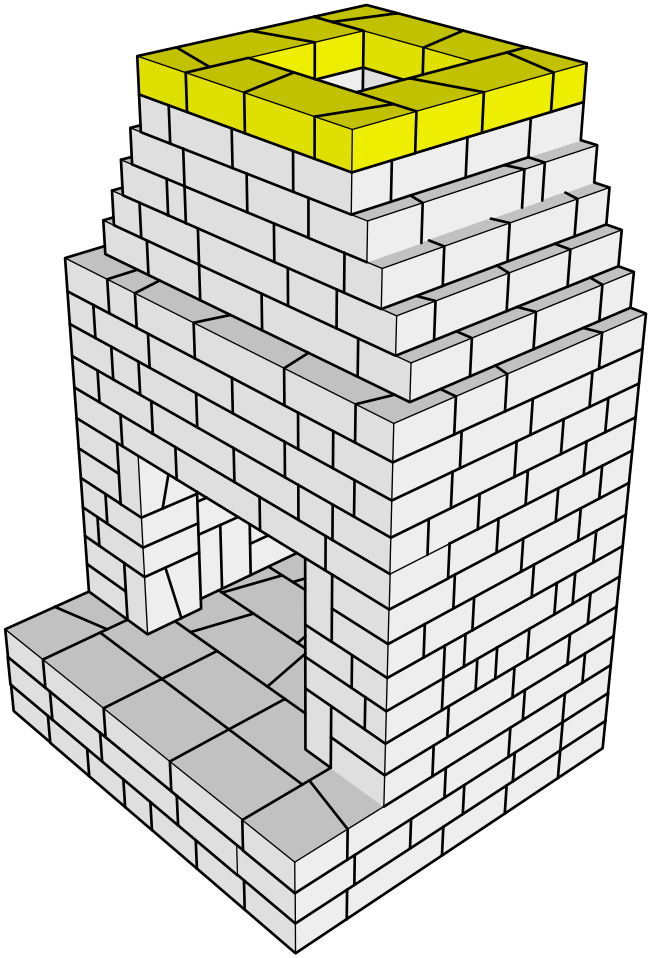

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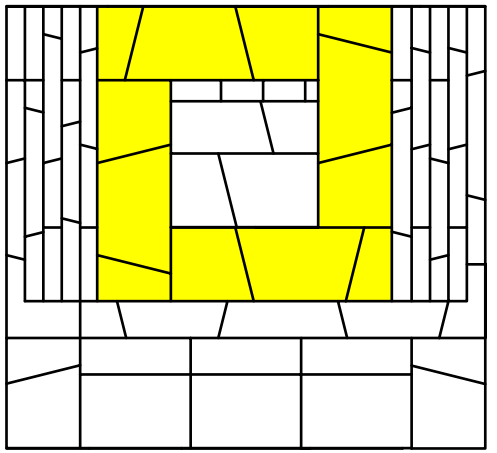

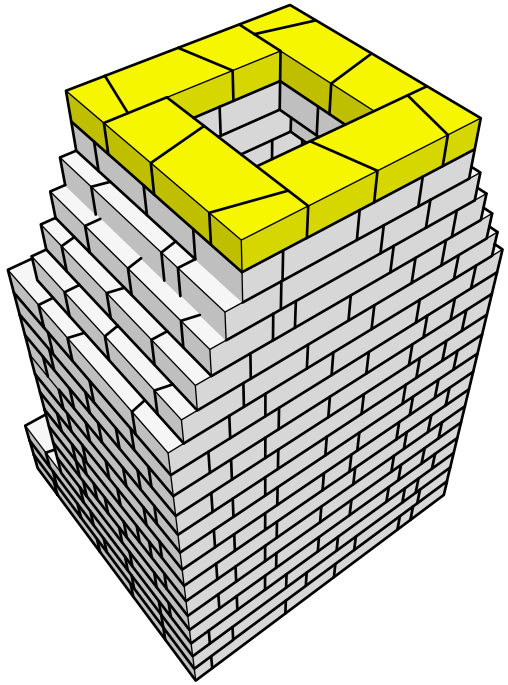

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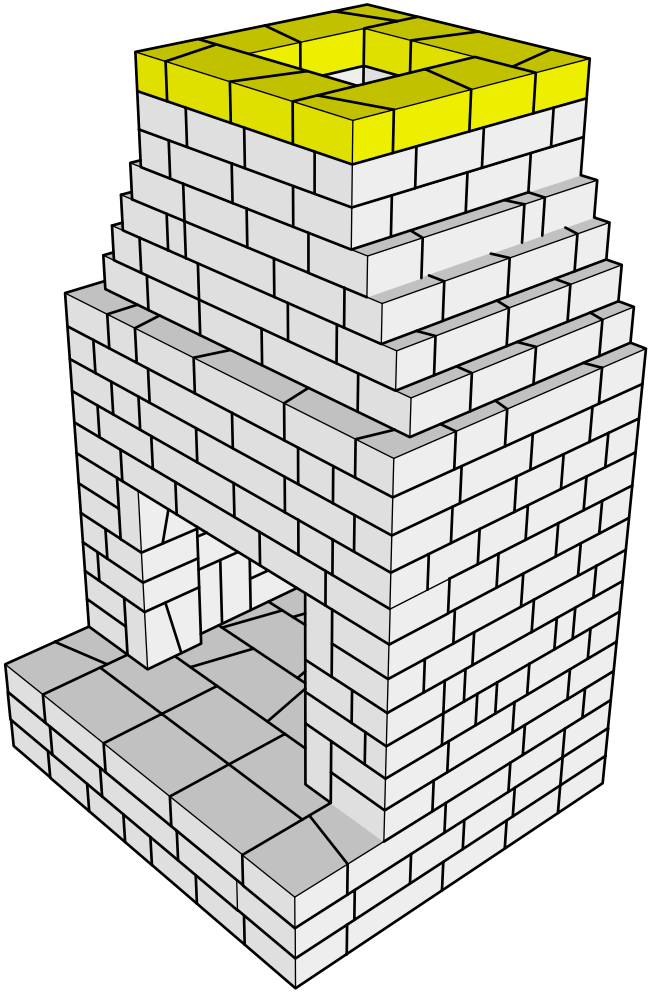

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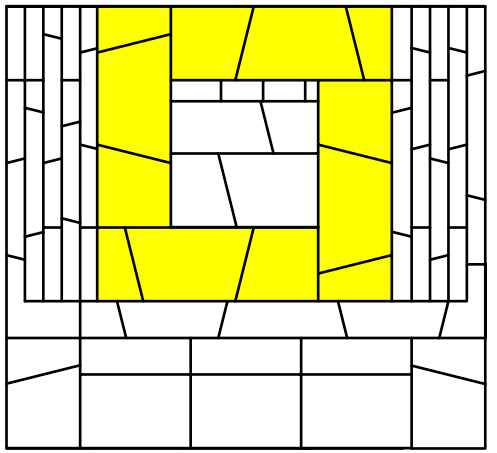

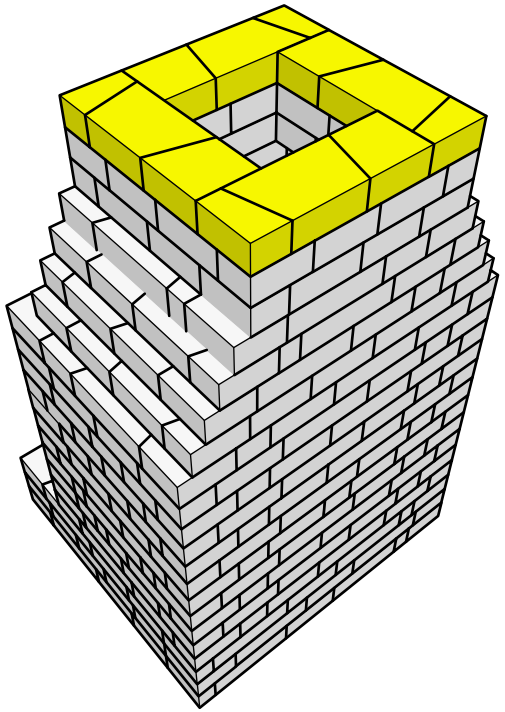

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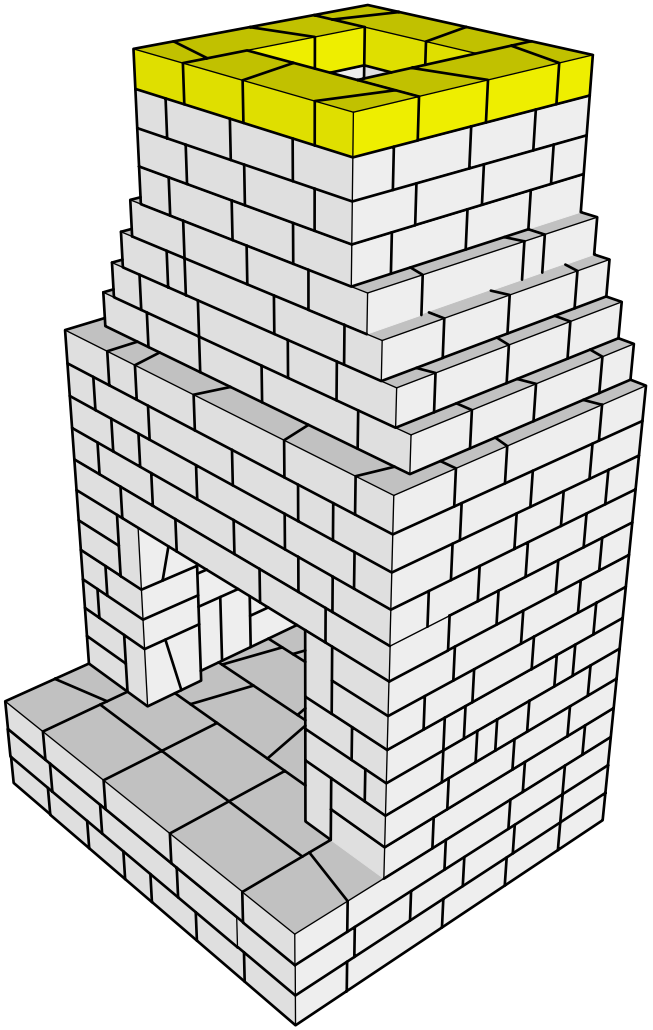
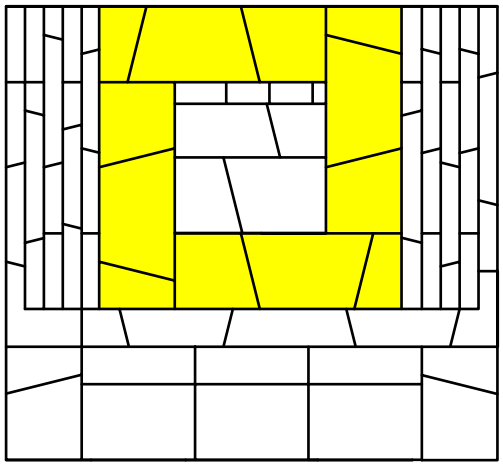
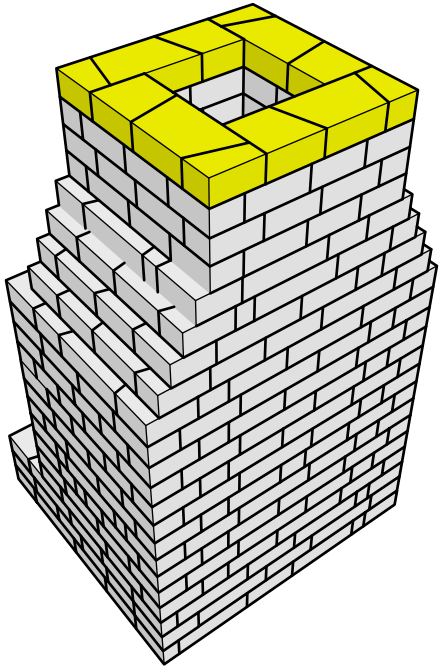




The backside is plumb throughout the entire build.



When constructing your kit, be sure to keep all blocks level, square, and plumb. Use a four foot level and check often. Starting on a level foundation is key. When gluing blocks together, be sure not to use too much adhesive – this will cause the blocks to "swim." A small bead is ideal.

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Princeton Fireplace

REVISIONS

	MM/DD/YY	REMARKS
1	1/28/2020	First release – TP
2	4/04/2020	Improvements – TP
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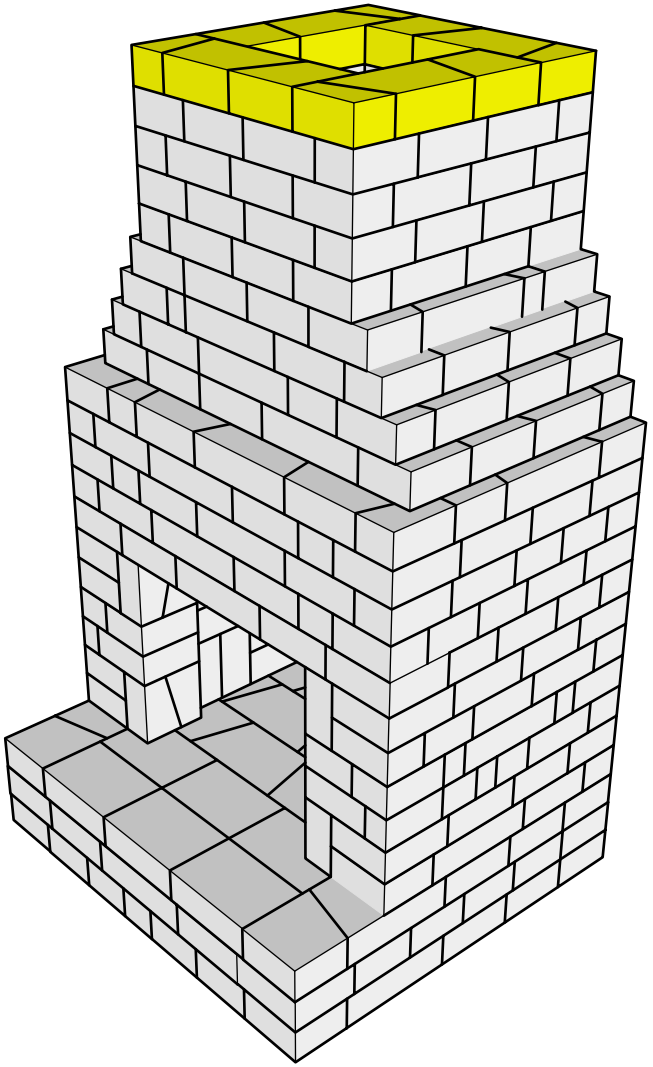
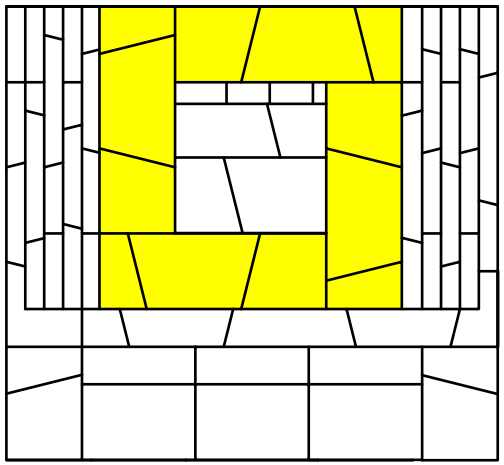
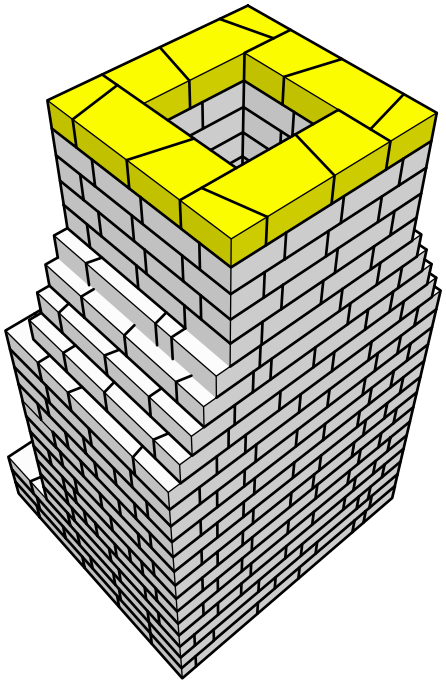


The backside is plumb throughout the entire build.





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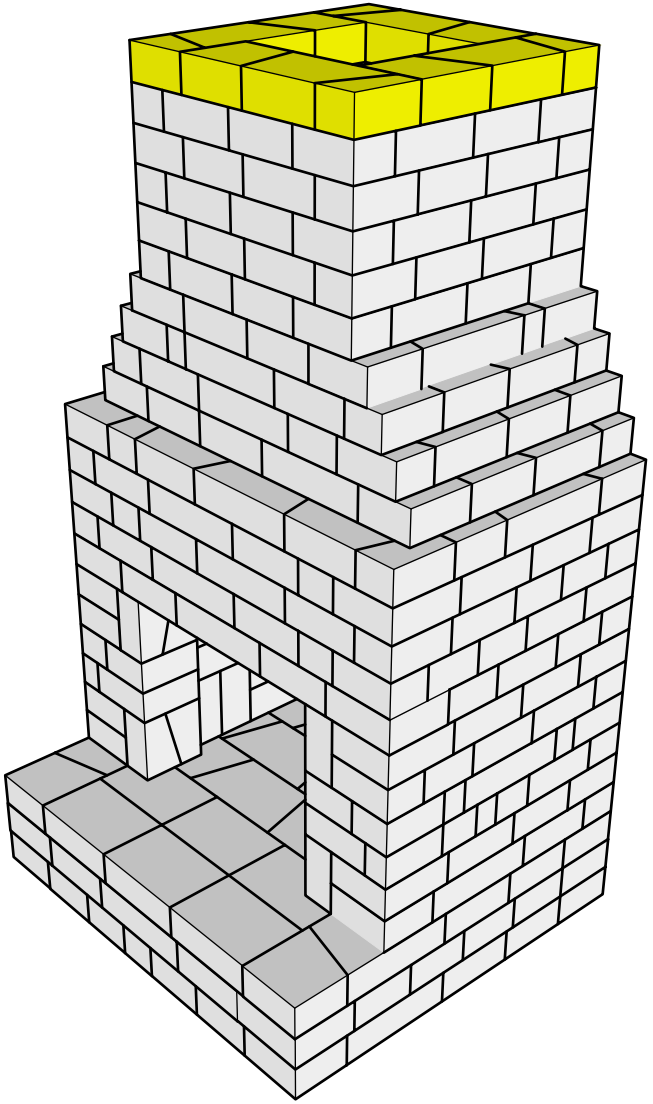

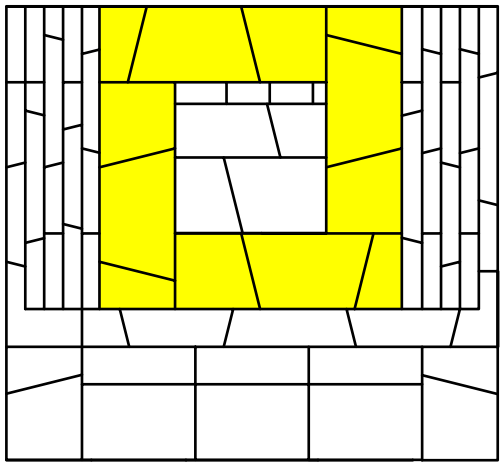

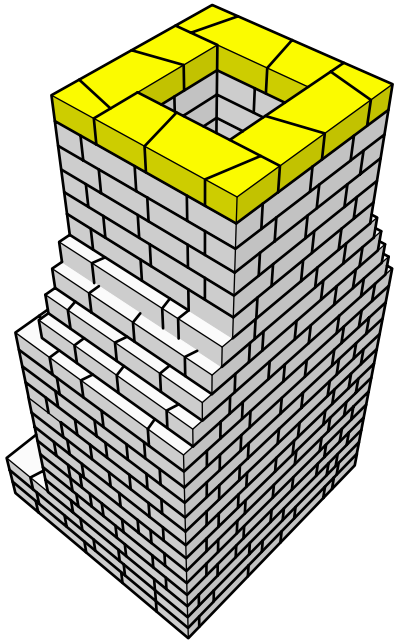

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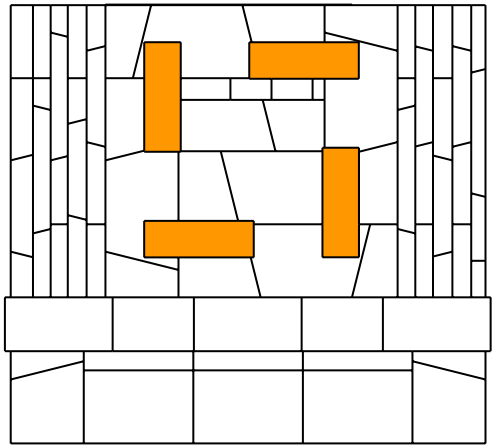
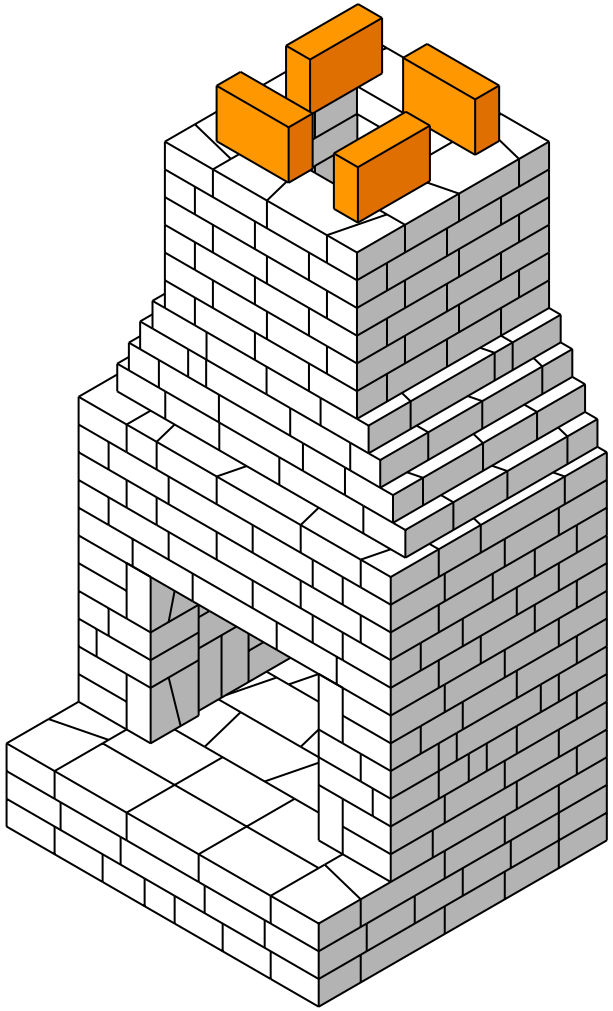
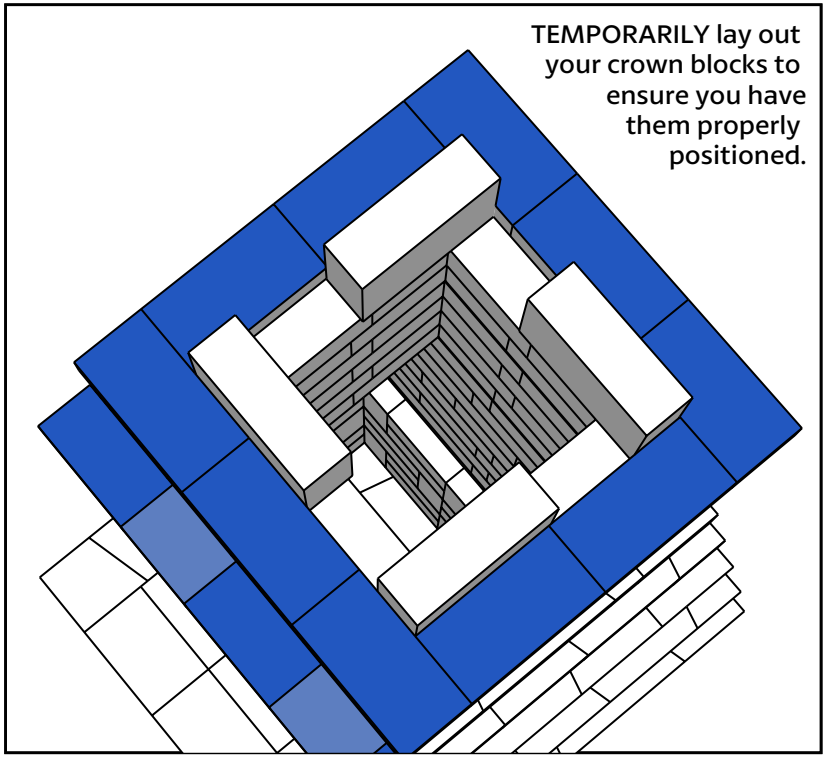
Before gluing the top four blocks in place, TEMPORARILY lay out your crown blocks (blue shades) to ensure you have them properly positioned. **DO NOT GLUE THE CROWN BLOCKS AT THIS TIME.** Only glue the four cap support blocks (depicted in orange). You want to pull your support block in about 3/8" to allow extra room when squaring your cap later.







TEMPORARILY lay out your crown blocks to ensure you have them properly positioned.

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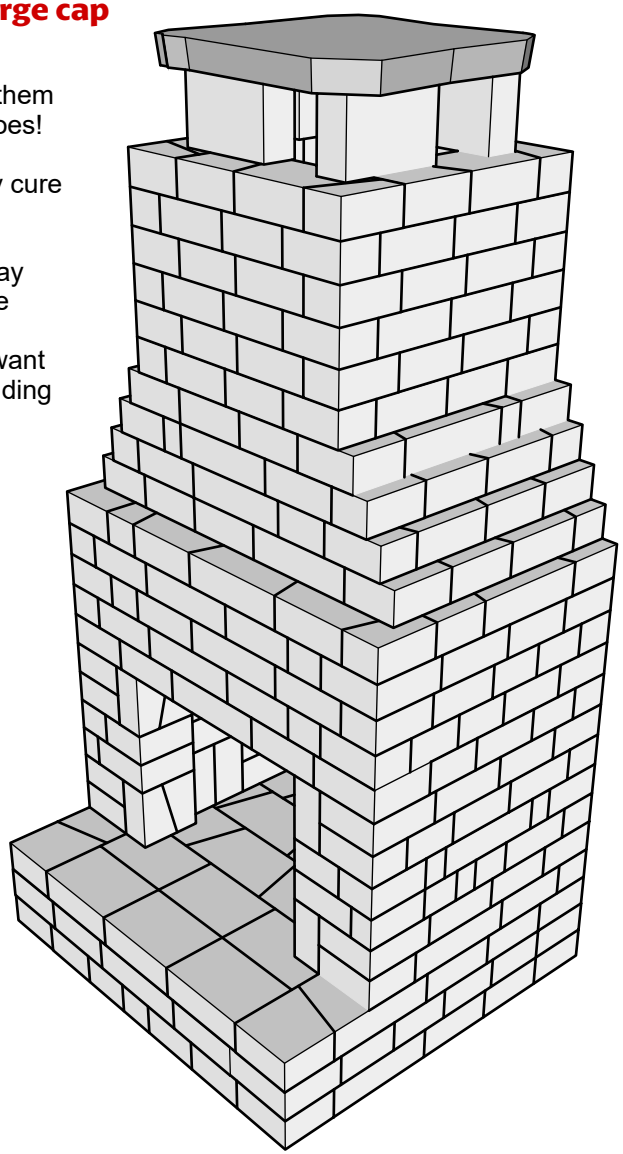
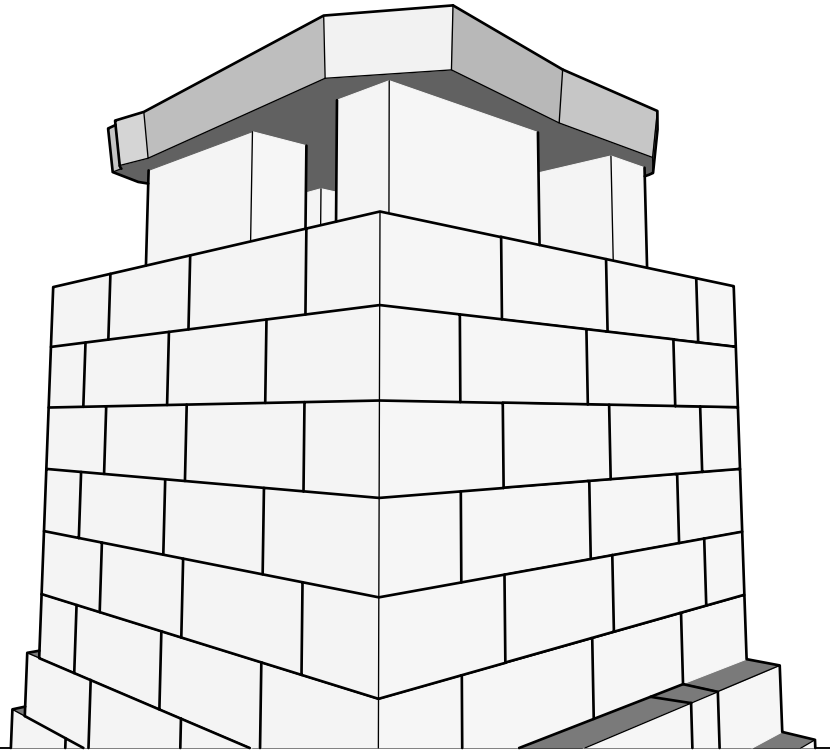
Remove the un-glued crown blocks before you install the large cap block.

You don't want them falling on your toes! Also, allow the adhesive to fully cure on the support blocks before proceed-ing to lay the cap on these supports. You definitely don't want the cap block sliding out of control.



After the adhesive is set, place the cap block up-side-down on the top of your four block. Since the stone will be viewed from the ground looking up, the decorative side of the cap should be facing the ground. You may need to add some sand or coins to keep the cap from rocking on the block.

Placing the cap is the hardest part of the entire build. Use ladders and/or scaffolding. You can use the ledges created by the racked block as a "stairway" to move the block up until the final heave.



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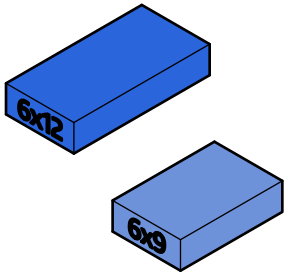
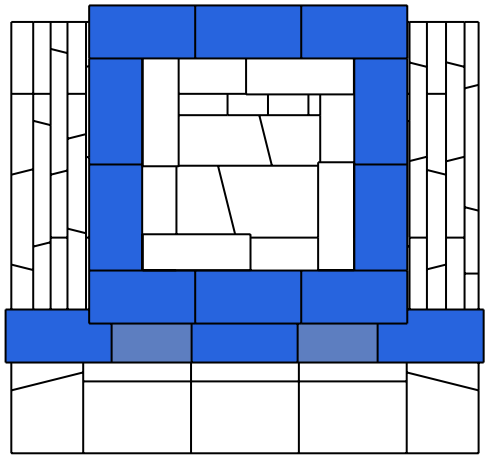
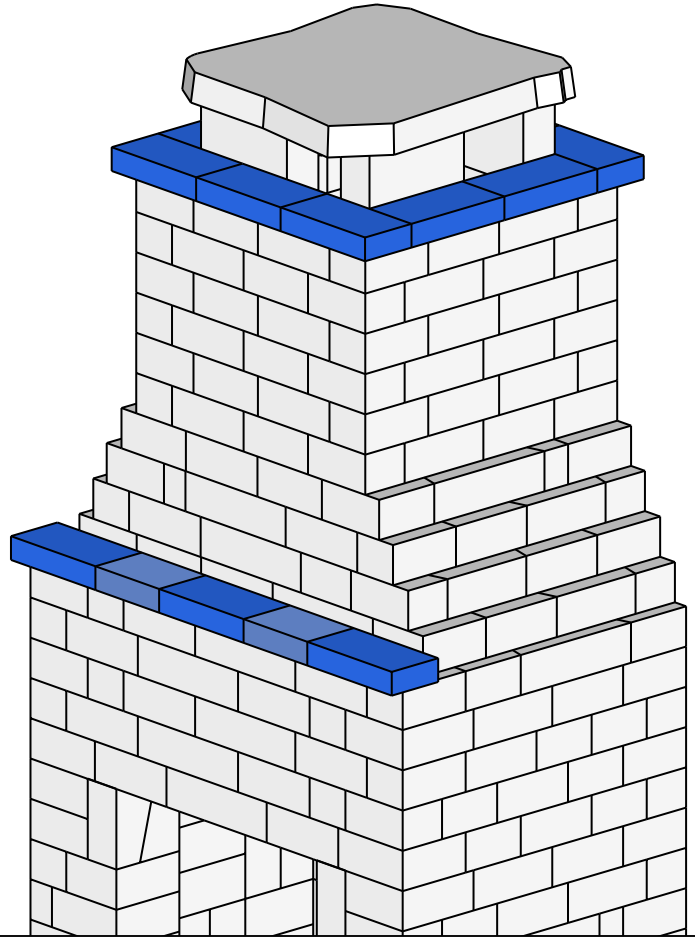
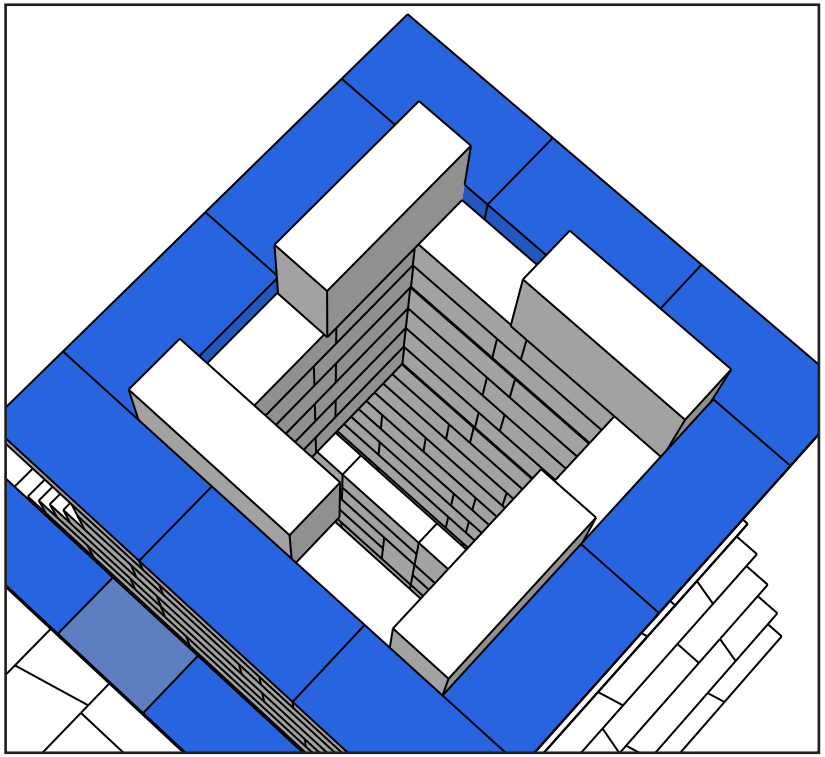


Add the finishing blocks. The back and sides of the crown are identical from one side to the other. I like to start from the front center. Work out from the center mantle block. There will be a slight overhang on the front and sides. Glue these trim pieces well. They are the only block that aren't locked into place.







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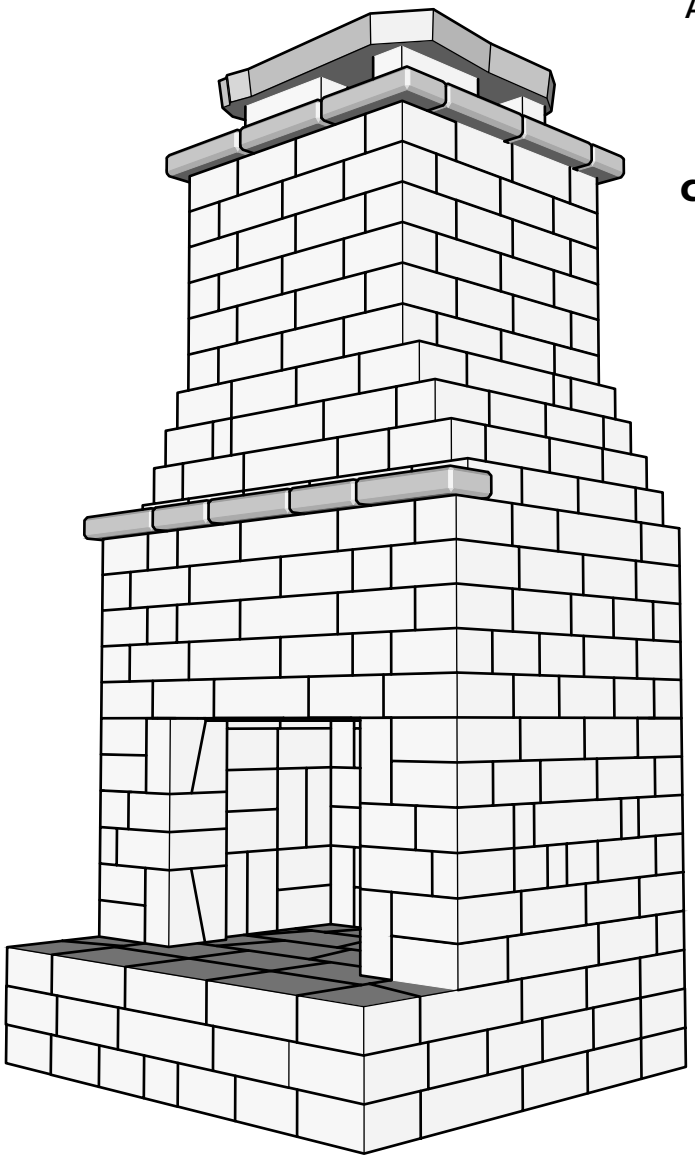
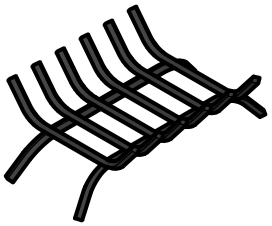
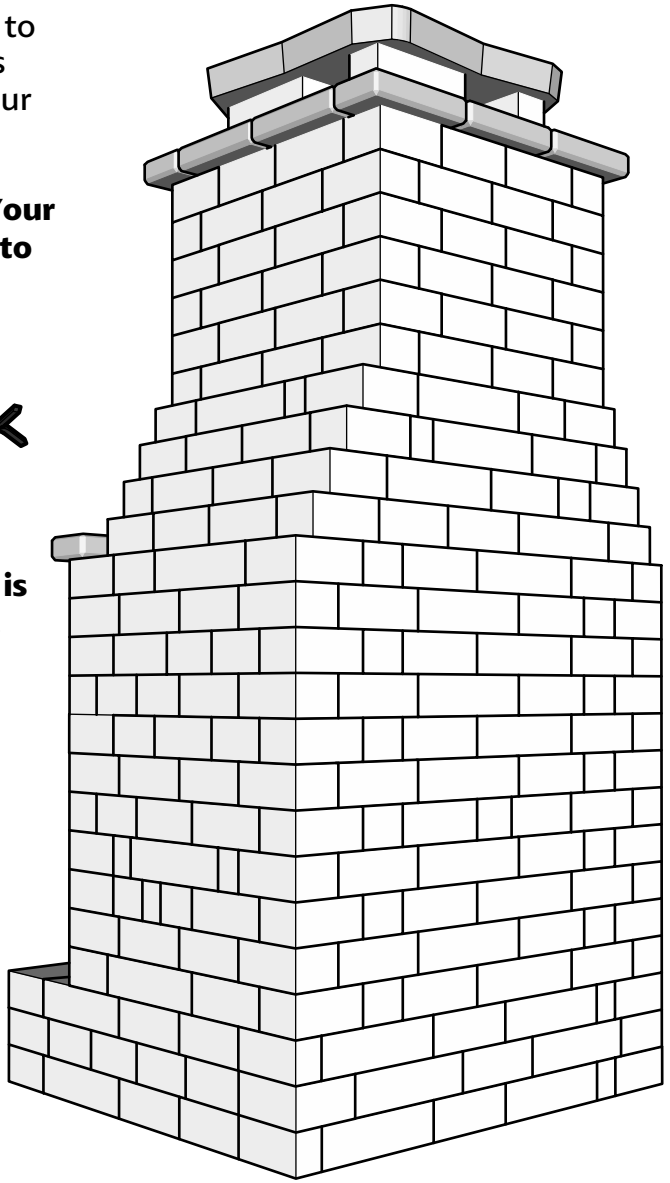


Allow the fireplace to cure for 72 hours before building your first fire.

Congratulations! Your fireplace is ready to use.



A fireplace grate is recommended.



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