



DESCHUTES FIREPLACE INSTALLATION



The Concrete Advantage. | [westerninterlock.com](http://westerninterlock.com)

**NOTICE:** Check your pallets!

We strive to maintain the highest level of integrity when palletizing our kits, but sometimes mistakes get made. To ensure that your project goes off without a hitch, use the checklist below to verify the contents of the kit before starting.

## PART CHECKLIST

### Deschutes Fireplace

- 174 Chateau Wall™ 300
- 30 Chateau Wall™ 200
- 31 Chateau Wall™ 100
- 2 Chateau Wall™ 200s (*notched*)
- 35 Firebrick 4.5x9x1.25"
- 4 Firebrick 4.5x4.5x1.25"
- 3 Firebrick 2.25x9x1.25"
- 4 Firebrick 3.375x4.5x1.25"
- 4 Firebrick 5x4.5x1.25"
- 4 Firebrick 6x4.5x1.25"
- 2 Fireplace Hearth 13x22.5x2.5"
- 1 Fireplace Trim 9x19x2.5"
- 8 Permanent Polymer Shims
- 1 27" 4"x6" Angle Iron Support
- 9 SB20 Adhesive 10oz Tubes
- 1 12"x24" Steel Chimney Cap
- 1 611 Refractory Cement 1 gal. pail
- 1 Margin Trowel
- 1 Installation Manual



**100**  
200x100x100mm • 7.87x3.94x3.94"



**200**  
200x200x100mm • 7.87x7.87x3.94"



**300**  
300x200x100mm • 11.81x7.87x3.94"

### Deschutes Woodbox

- 39 Chateau Wall™ 300
- 8 Chateau Wall™ 200
- 1 33"x33" Woodbox Cap
- 4 Permanent Polymer Shims
- 3 SB20 Adhesive 10oz Tubes



# Deschutes Fireplace Installation



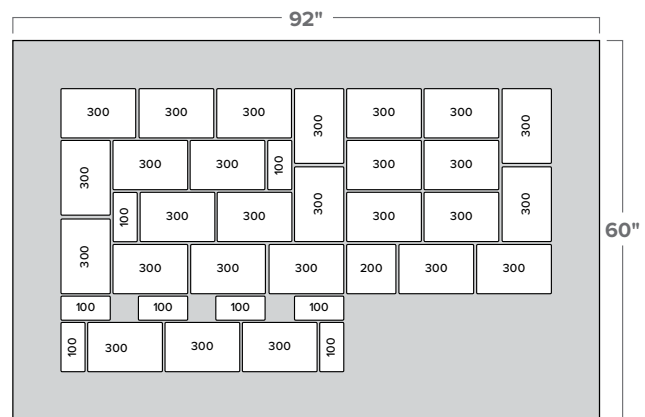
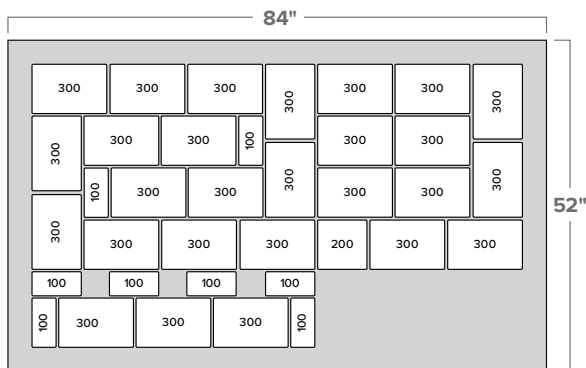
Know what's below.  
Call before you dig.

## NOTICE: Know What's Below!

Whether you are planning to do it yourself or hiring a professional, smart digging means calling 811 before each job. Homeowners often make risky assumptions about whether or not they should get their utility lines marked, but every digging job requires a call - even small projects like planting trees and shrubs.

## BASE PREPARATION

Base can be constructed of either poured slab or compacted gravel. It is extremely important that the base be level. See base construction requirements below.



### Concrete Base Foundation

- Slab must be a minimum of 4" deep
- Slab must extend 4" outside perimeter of the fireplace base
- Reinforce slab with 6"x6" #10 woven wire mesh (WWM)
- Compact sub-base soils (95% of standard proctor-ASTM D698)
- Slab as described requires approximately 15 90lb bags of concrete mix

### Aggregate Base Foundation

- Base must be a minimum of 6" deep
- Base must be constructed of 3/4-0 gravel (ODOT road base or equivalent)
- Base must extend 8" outside perimeter of the fireplace base
- Base as shown requires approximately .75 cubic yards (2000lbs) of gravel
- Compact sub-base soils (95% of standard proctor-ASTM D698)
- Compact aggregate base (95% of standard proctor-ASTM D698)

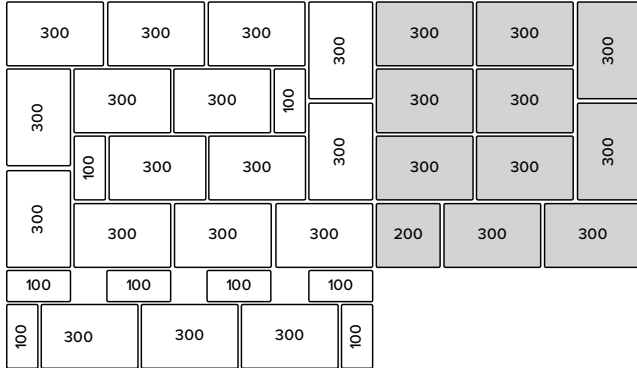
### PRO TIP: Adhesive Application

Use the included 10oz tubes of SB20 to glue each course together. Place several dime-sized globs of adhesive on each block, taking care to hold back from the edge to avoid adhesive spewing out of the joint. For best results, give each stone a quick brushing to remove any dust and debris from the block's surface.



**PRO TIP: Setting the First Course**

Use a level and rubber mallet to ensure that each stone is completely level before moving on. Be sure to check from top-to-bottom and side-to-side.



**COURSE 1**

**Blocks Needed (as shown)**

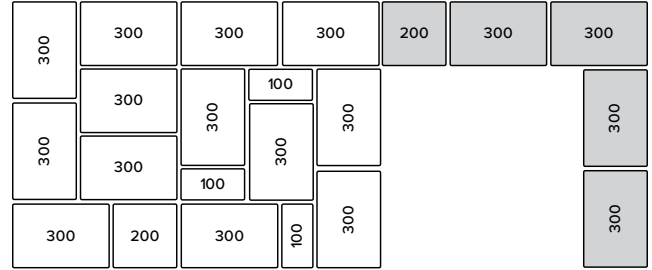
- 100 8
- 200 1
- 300 27

**Blocks Needed (fireplace only)**

- 100 8
- 300 17



Optional woodbox shown in gray.



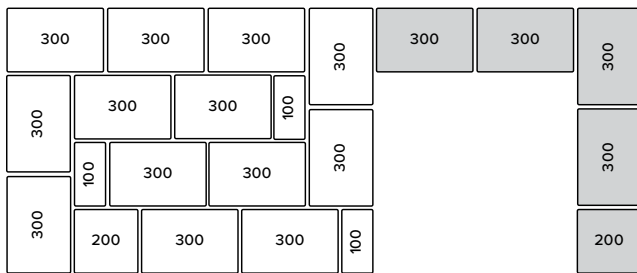
**COURSE 2**

**Blocks Needed (as shown)**

- 100 3
- 200 2
- 300 17

**Blocks Needed (fireplace only)**

- 100 3
- 200 1
- 300 13



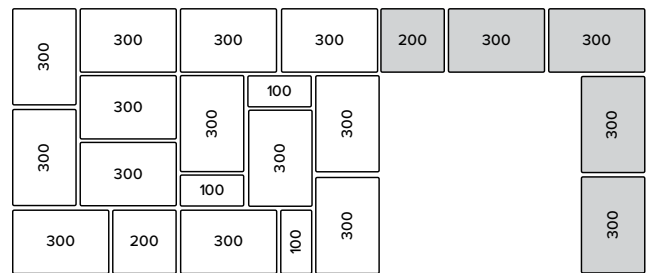
**COURSE 3**

**Blocks Needed (as shown)**

- 100 3
- 200 2
- 300 17

**Blocks Needed (fireplace only)**

- 100 3
- 200 1
- 300 13



**COURSE 4**

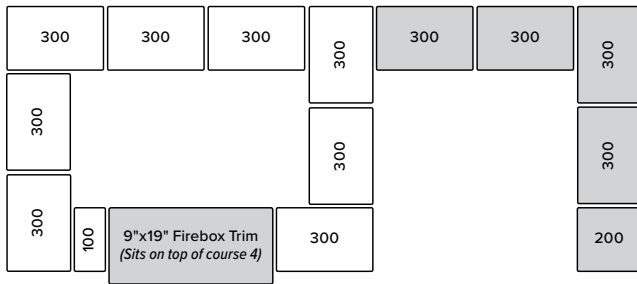
**Blocks Needed (as shown)**

- 100 3
- 200 2
- 300 17

**Blocks Needed (fireplace only)**

- 100 3
- 200 1
- 300 13





## COURSE 5

**Blocks Needed** (as shown)

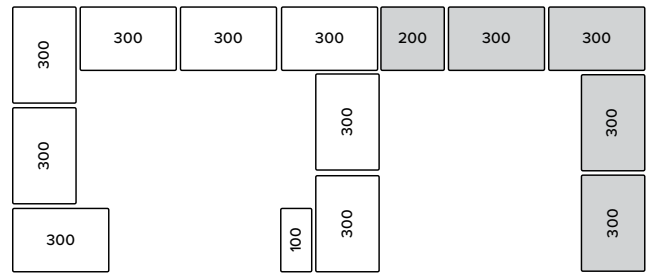
- 100 1
- 200 1
- 300 12

Hearth 1

**Blocks Needed** (fireplace only)

- 100 1
- 300 8

Hearth 1



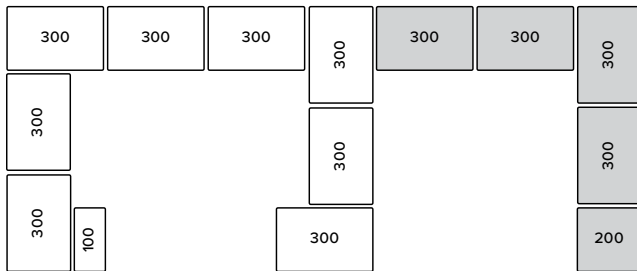
## COURSE 6

**Blocks Needed** (as shown)

- 100 1
- 200 1
- 300 12

**Blocks Needed** (fireplace only)

- 100 1
- 300 8



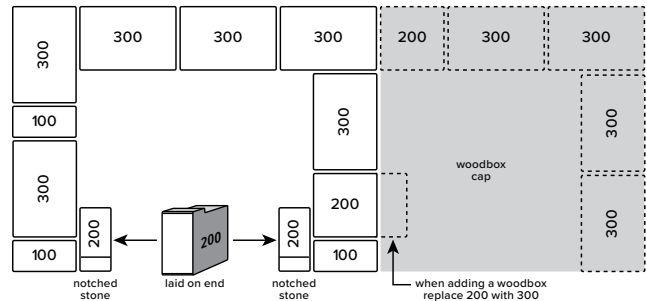
## COURSE 7

**Blocks Needed** (as shown)

- 100 1
- 200 1
- 300 12

**Blocks Needed** (fireplace only)

- 100 1
- 300 8



## COURSE 8

**Blocks Needed** (as shown)

- 100 3
- 200 3 (2 notched)
- 300 11

Woodbox cap 1

**Blocks Needed** (fireplace only)

- 100 3
- 200 3 (2 notched)
- 300 6

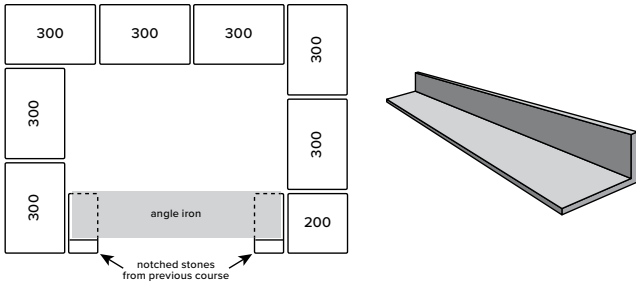


**PRO TIP:** Install the firebrick after Course 8

It is easiest to install the firebrick once you have laid Course 8. Access to the fireplace interior is the best at this point. See page 9 for installation instructions.



If you are building a fireplace with a woodbox, once Course 8 is laid, the woodbox is complete.



### COURSE 9

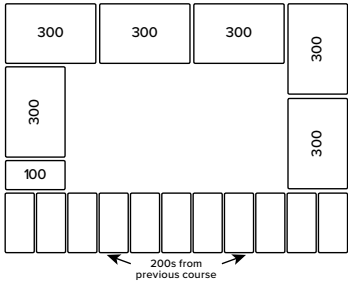
**Blocks Needed (as shown)**

- 200 1
- 300 7
- Angle Iron 1



**Blocks Needed (fireplace only)**

- 200 1
- 300 7
- Angle Iron 1



### COURSE 11

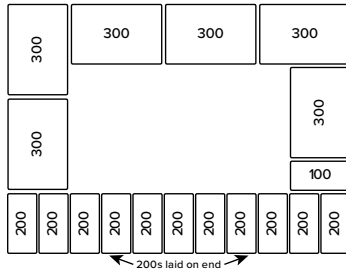
**Blocks Needed (as shown)**

- 100 1
- 300 6



**Blocks Needed (fireplace only)**

- 100 1
- 300 6



### COURSE 10

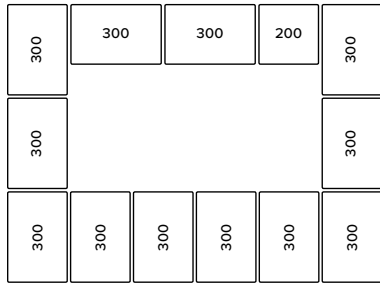
**Blocks Needed (as shown)**

- 100 1
- 200 11 (laid on end)
- 300 6



**Blocks Needed (fireplace only)**

- 100 1
- 200 11 (laid on end)
- 300 6



### COURSE 12

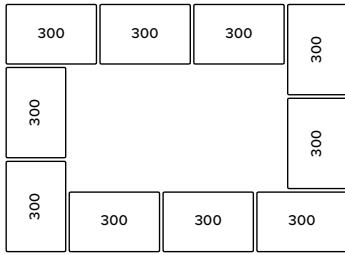
**Blocks Needed (as shown)**

- 200 1
- 300 12



**Blocks Needed (fireplace only)**

- 200 1
- 300 12



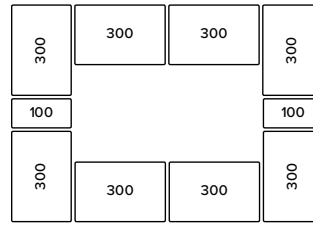
## COURSE 13

**Blocks Needed (as shown)**

300 10

**Blocks Needed (fireplace only)**

300 10



## COURSE 14

**Blocks Needed (as shown)**

100 2

300 8

**Blocks Needed (fireplace only)**

100 2

300 8



## COURSE 15

**Blocks Needed (as shown)**

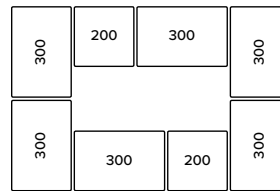
200 2

300 6

**Blocks Needed (fireplace only)**

200 2

300 6



## COURSE 16

**Blocks Needed (as shown)**

200 2

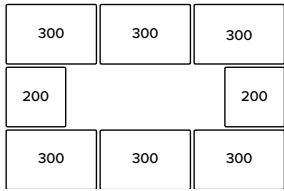
300 6

**Blocks Needed (fireplace only)**

200 2

300 6





## COURSE 17

**Blocks Needed (as shown)**

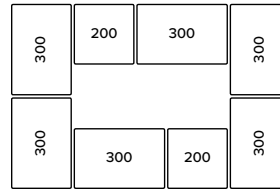
200 2

300 6

**Blocks Needed  
(fireplace only)**

200 2

300 6



## COURSE 18

**Blocks Needed (as shown)**

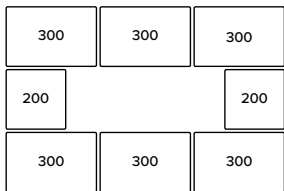
200 2

300 6

**Blocks Needed  
(fireplace only)**

200 2

300 6



## COURSE 19

**Blocks Needed (as shown)**

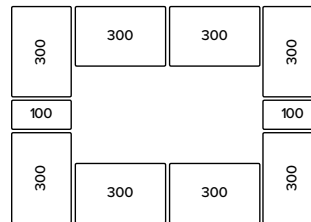
200 2

300 6

**Blocks Needed  
(fireplace only)**

200 2

300 6



## COURSE 20

**Blocks Needed (as shown)**

100 2

300 8

**Blocks Needed  
(fireplace only)**

100 2

300 8





# FIREBRICK INSTALLATION

## STEP 1: Clean the block

For best results, we recommend that you either brush or vacuum the block to remove any dust from the surface for proper adhesion.

## STEP 2: Mix the Refractory Cement

The included one gallon bucket of 611 Refractory Cement comes premixed, but we recommend that you give it a quick but thorough mix before starting.

## STEP 3: Lay the Floor

|           |        |           |
|-----------|--------|-----------|
| 2¼"x9"    | 2¼"x9" | 2¼"x9"    |
| 4½" x 4½" |        | 4½" x 4½" |
|           |        |           |
| 4½" x 4½" |        | 4½" x 4½" |

### Firebrick Needed

- 9"x4½" 7
- 4½"x4½" 4
- 2¼"x9" 3

Begin by laying the floor in the bottom of the firebox. **It is not necessary to mortar the floor in place.** Place a full brick in the front left corner and end with a half brick on the right side. Continue the installation by placing bricks edge to edge (no joint) as shown below. When you finish the bottom of the firebox, there will be a small gap between the firebrick and the back wall.

## STEP 4: Lay the Back Wall

|           |  |           |
|-----------|--|-----------|
| 3⅜" x 4½" |  | 3⅜" x 4½" |
|           |  |           |
| 3⅜" x 4½" |  | 3⅜" x 4½" |
|           |  |           |

### Firebrick Needed

- 9"x4½" 10
- 3⅜"x4½" 4

Now you are ready to install the back wall. Apply a thin layer of refractory cement to the back of the firebricks, and install them as shown below. Make sure to leave a even gap on either side of the firebox, it will be covered by the sides.

## STEP 5: Lay the sides

|          |        |
|----------|--------|
|          | 4½"x6" |
| 4½" x 5" |        |
|          | 4½"x6" |
| 4½" x 5" |        |

LEFT

|        |          |
|--------|----------|
| 4½"x6" |          |
|        | 4½" x 5" |
| 4½"x6" |          |
|        | 4½" x 5" |

RIGHT

### Firebrick Needed

- 9"x4½" 8
- 6"x4½" 4
- 5"x4½" 3

The final step is to lay the sides of the firebox. Use the same technique described in the other steps, but following the layout shown.



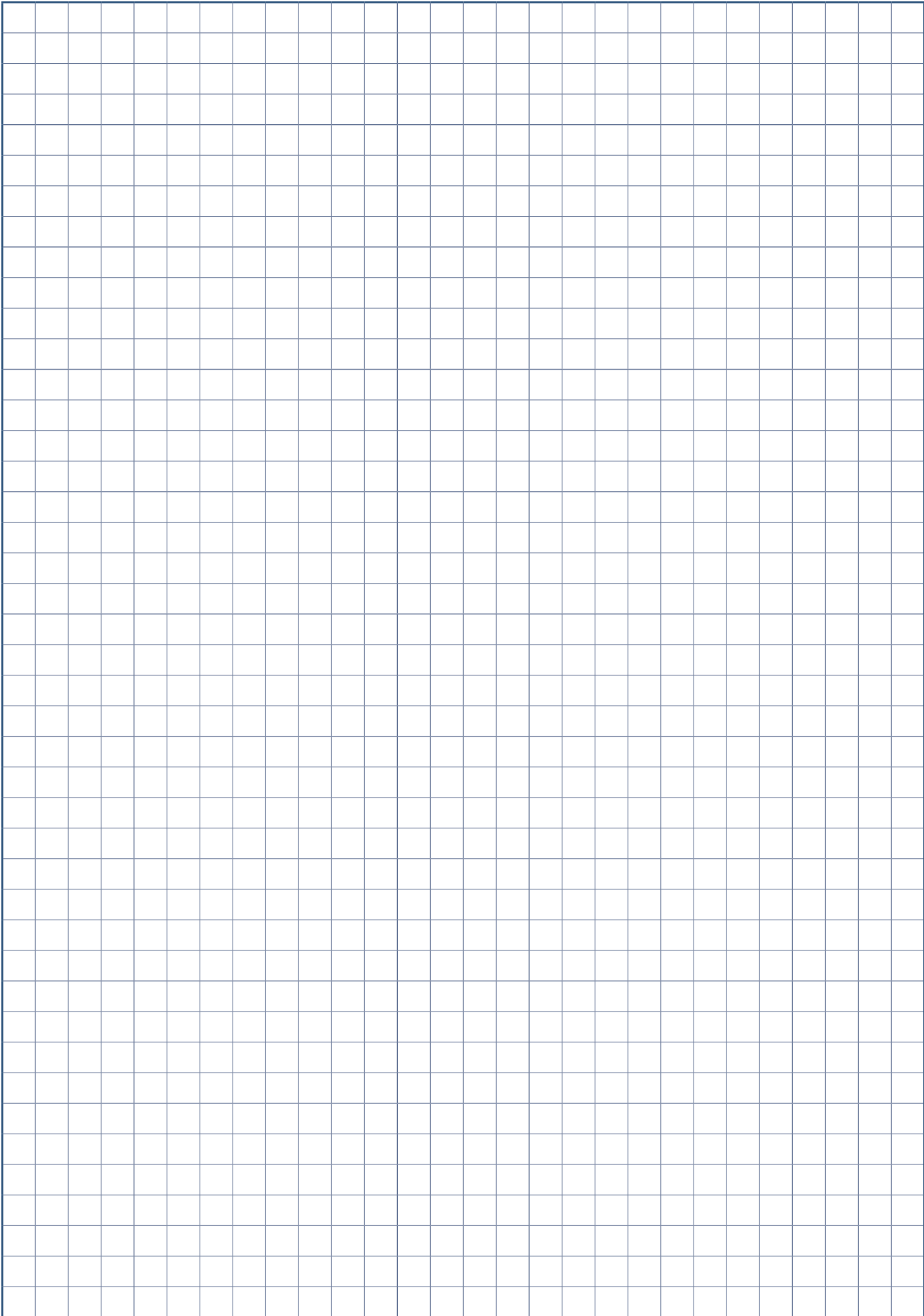


## FINISH

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You're almost done! There's just a few more steps remaining. They are:

- Place Deschutes chimney cap on top of fireplace with flanges toward inside. Glue all four corners underneath flange using SB20 adhesive.
- Glue hearth stones in place using SB20 adhesive.
- Set cap on woodbox if you did not already do so with Course 8. Glue in place using SB20 adhesive.
- Wait at least 24 hours before firing up the fireplace to let the glue and refractory cement cure.



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