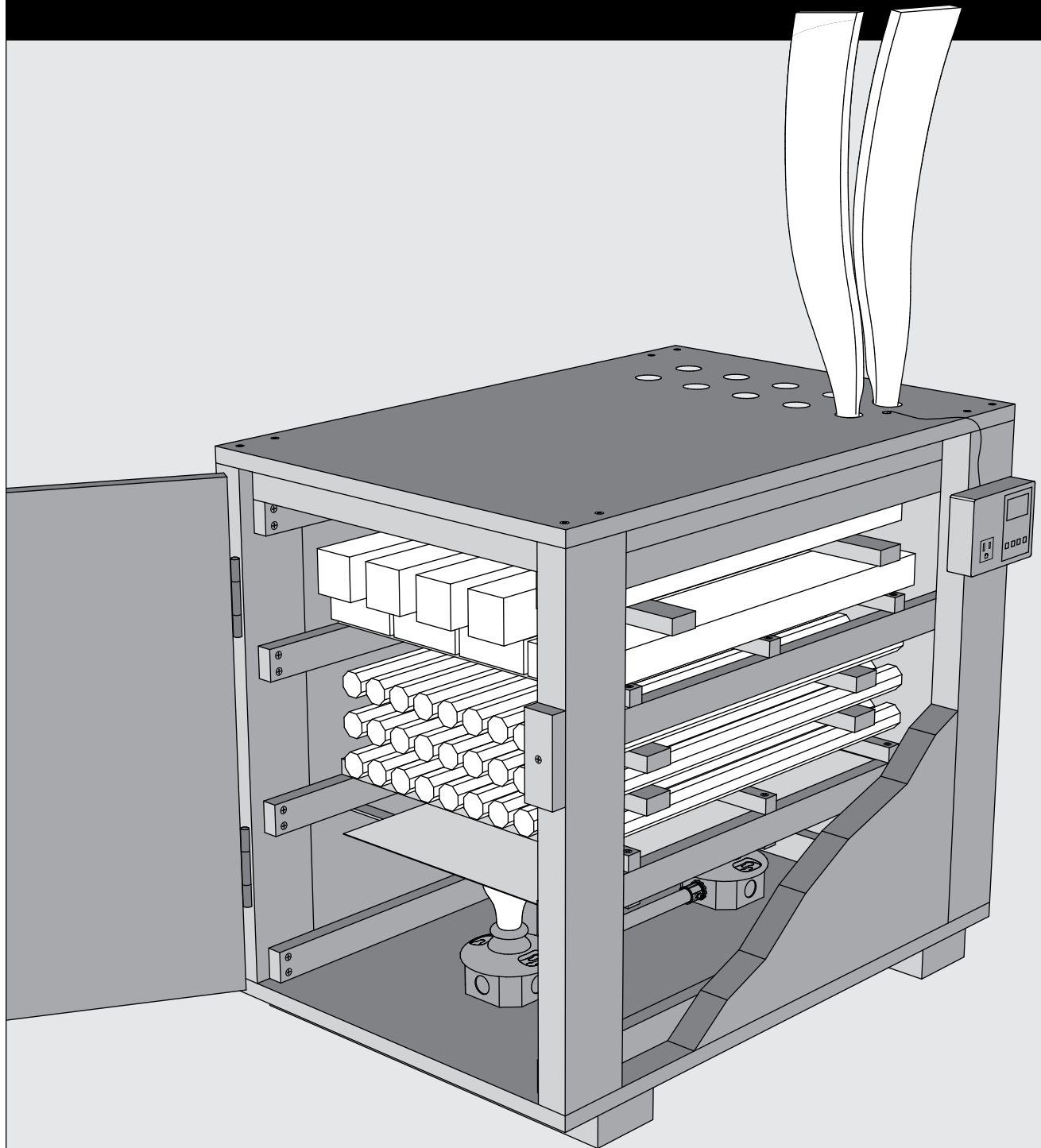


# BUILD A LIGHT BULB KILN



Written and illustrated by  
Jeff Lefkowitz

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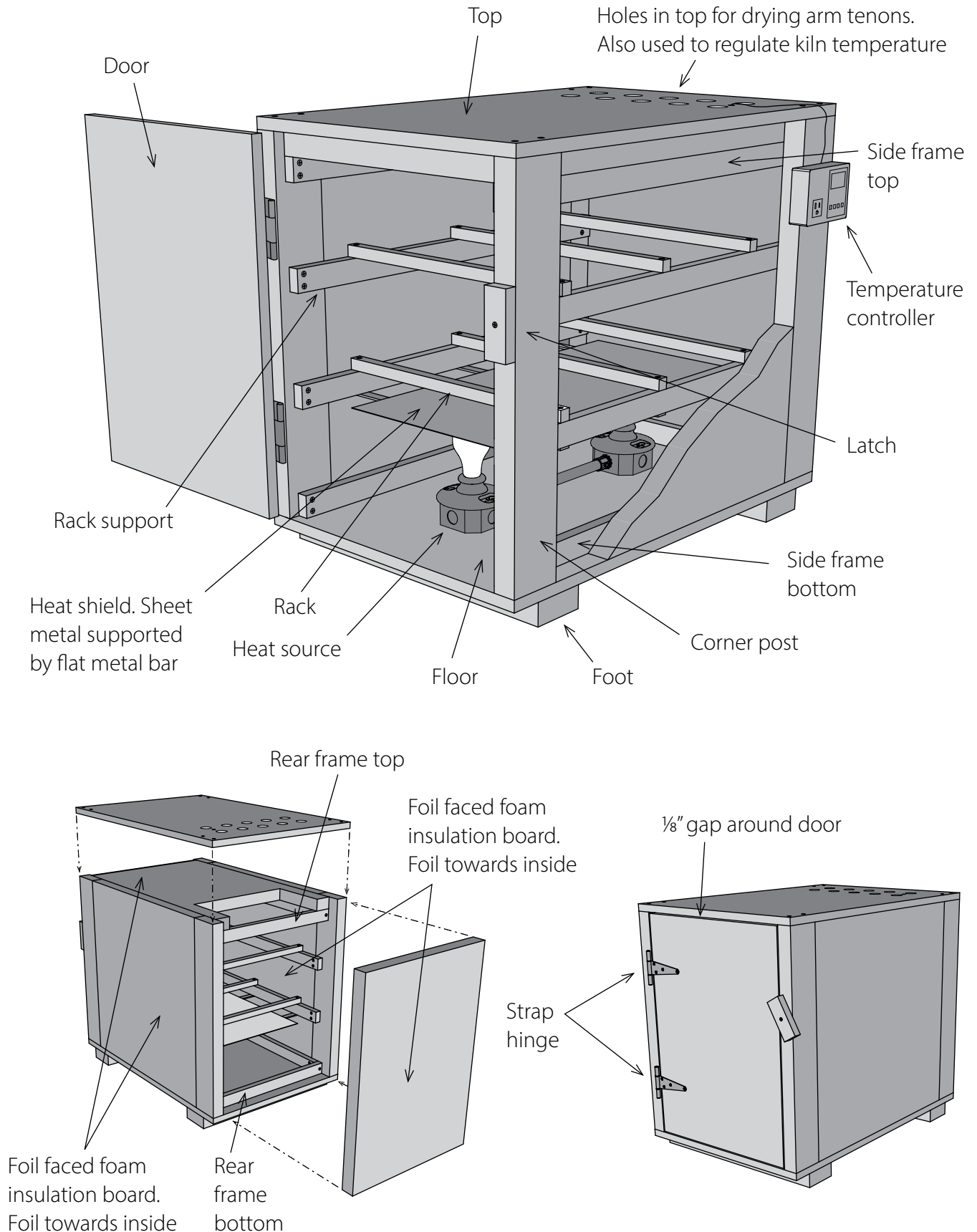
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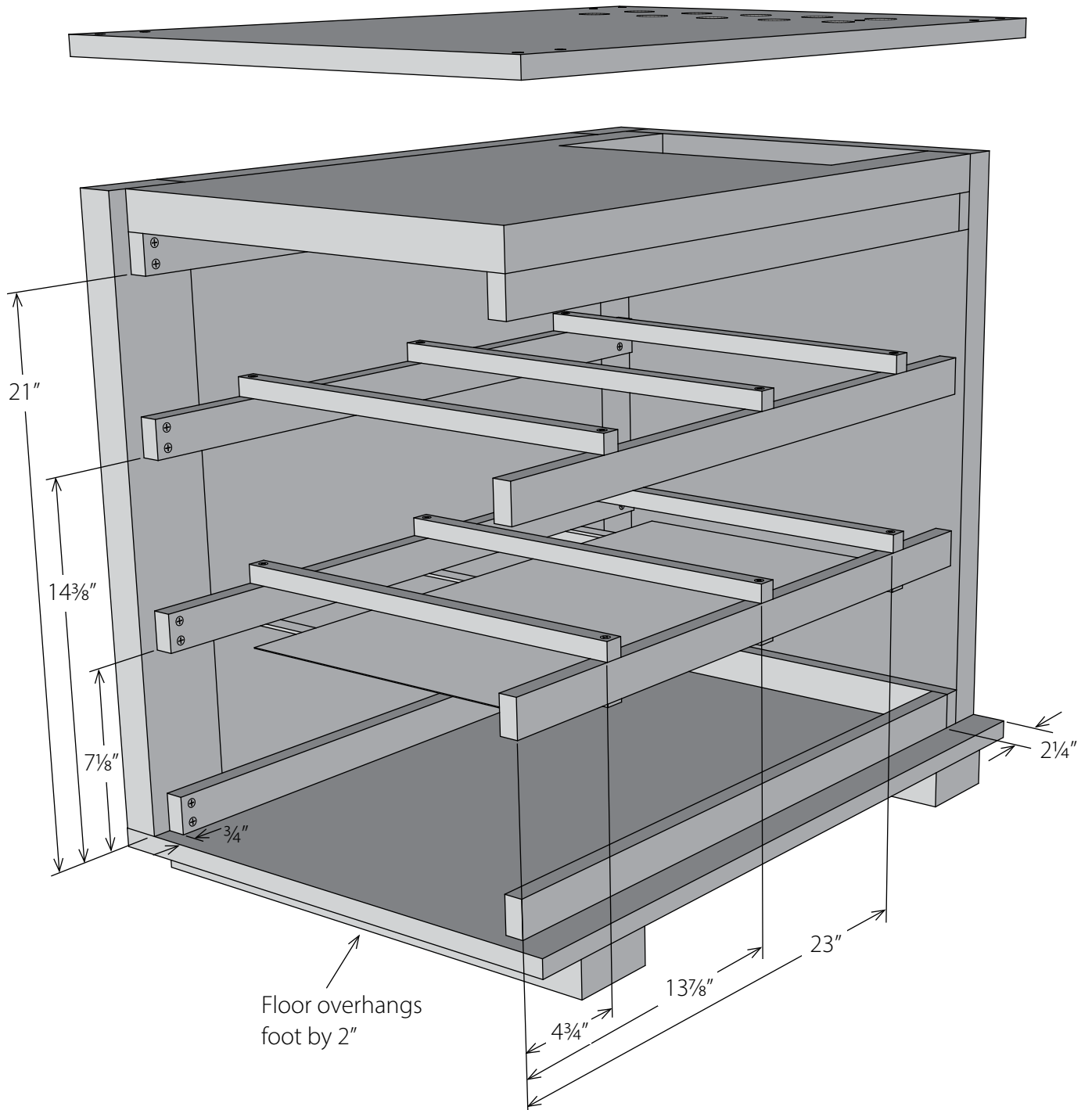


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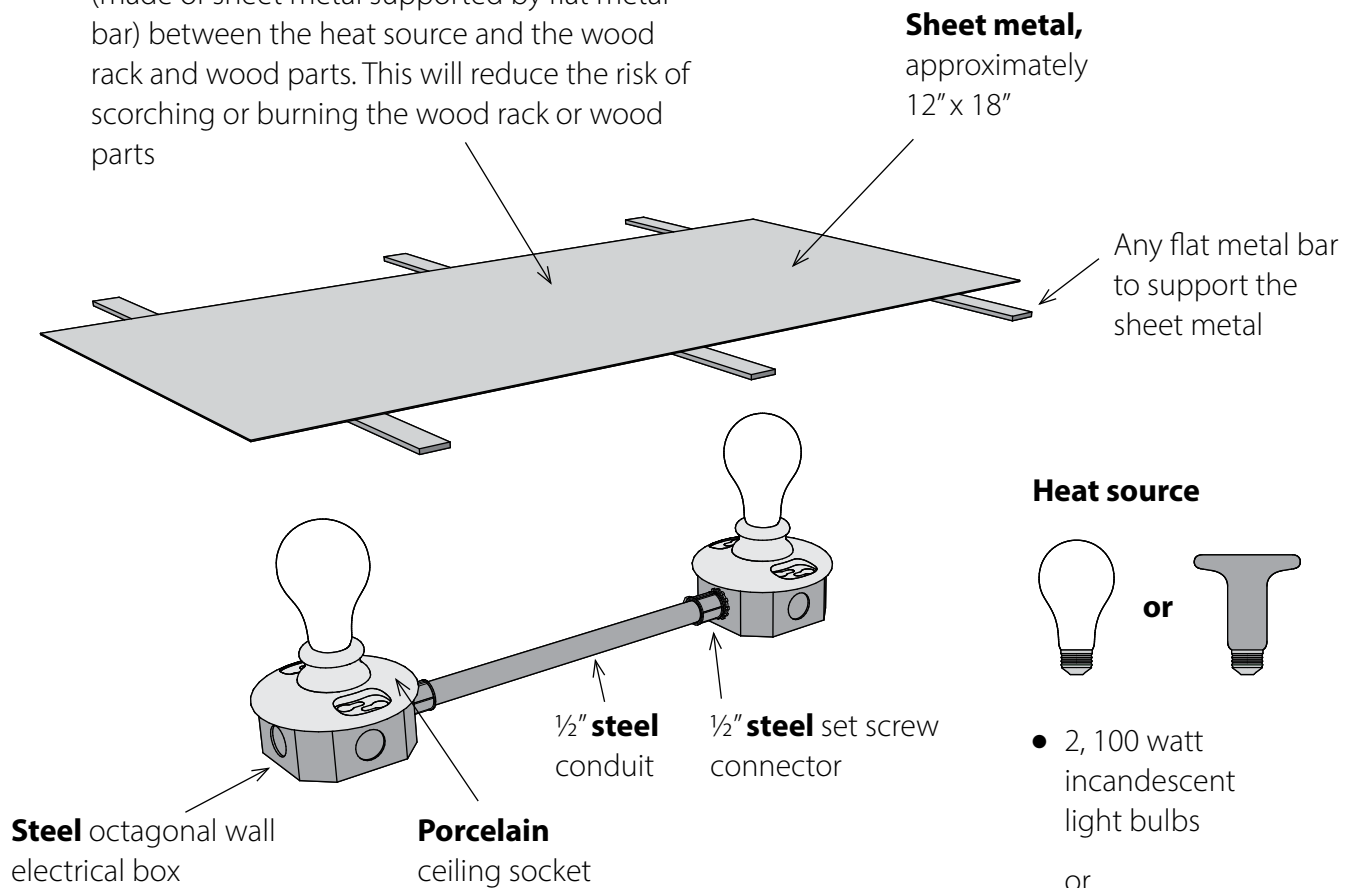


**HEATING WOOD PARTS IN A KILN IS INHERENTLY RISKY. It is up to you to take all precautions necessary to minimize the risk of fire.**

The kiln will be heated to between 110°F and 140°F.

**To reduce risk of fire:**

- Use all metal electrical components as shown below
- Use porcelain light sockets
- **VERY IMPORTANT:** Place a metal heat shield, (made of sheet metal supported by flat metal bar) between the heat source and the wood rack and wood parts. This will reduce the risk of scorching or burning the wood rack or wood parts

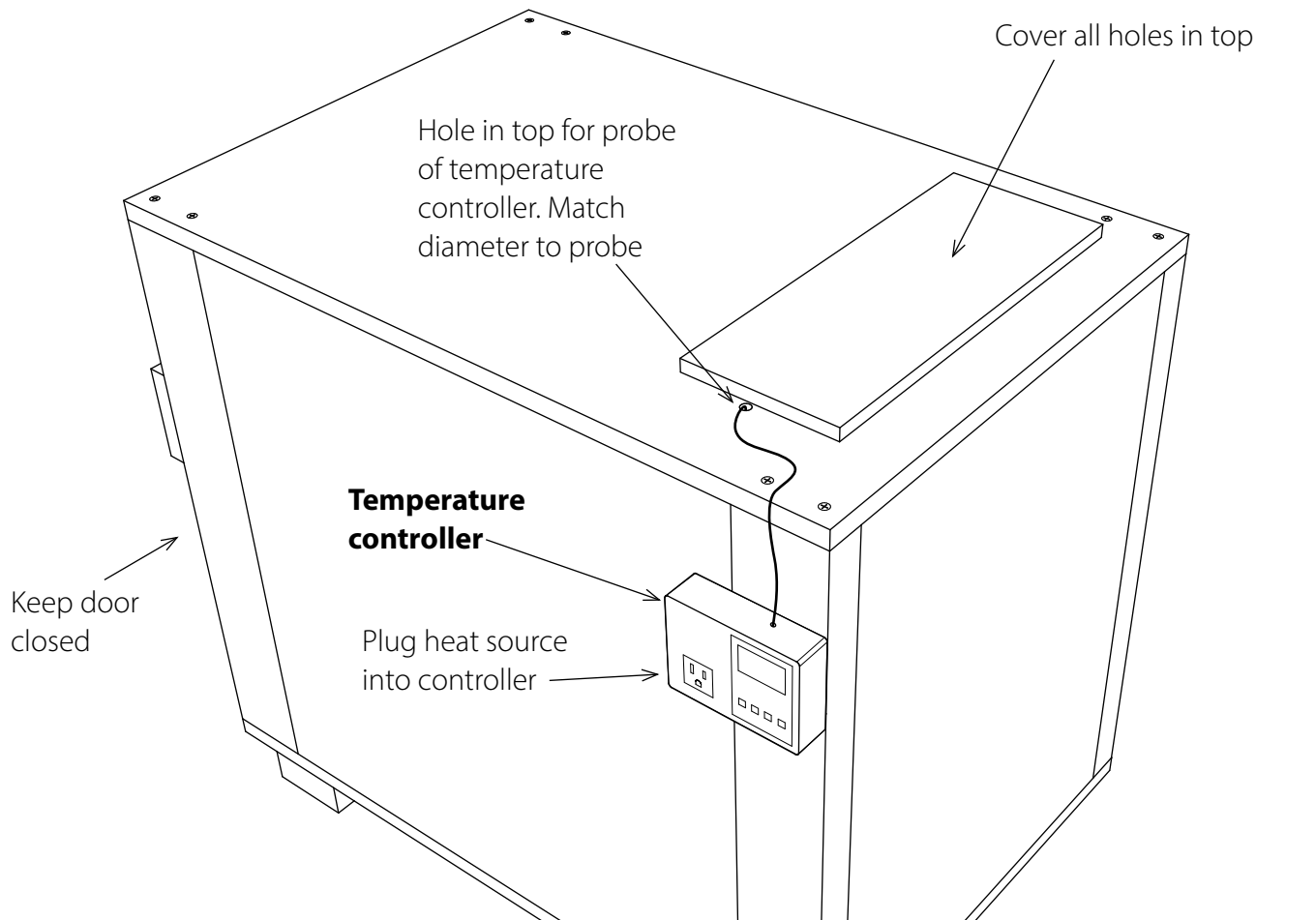


**IMPORTANT: Have a licensed electrician wire and test the electrical components**

- Connect porcelain sockets to:
  - Plug
  - or
  - Switch connected to plug

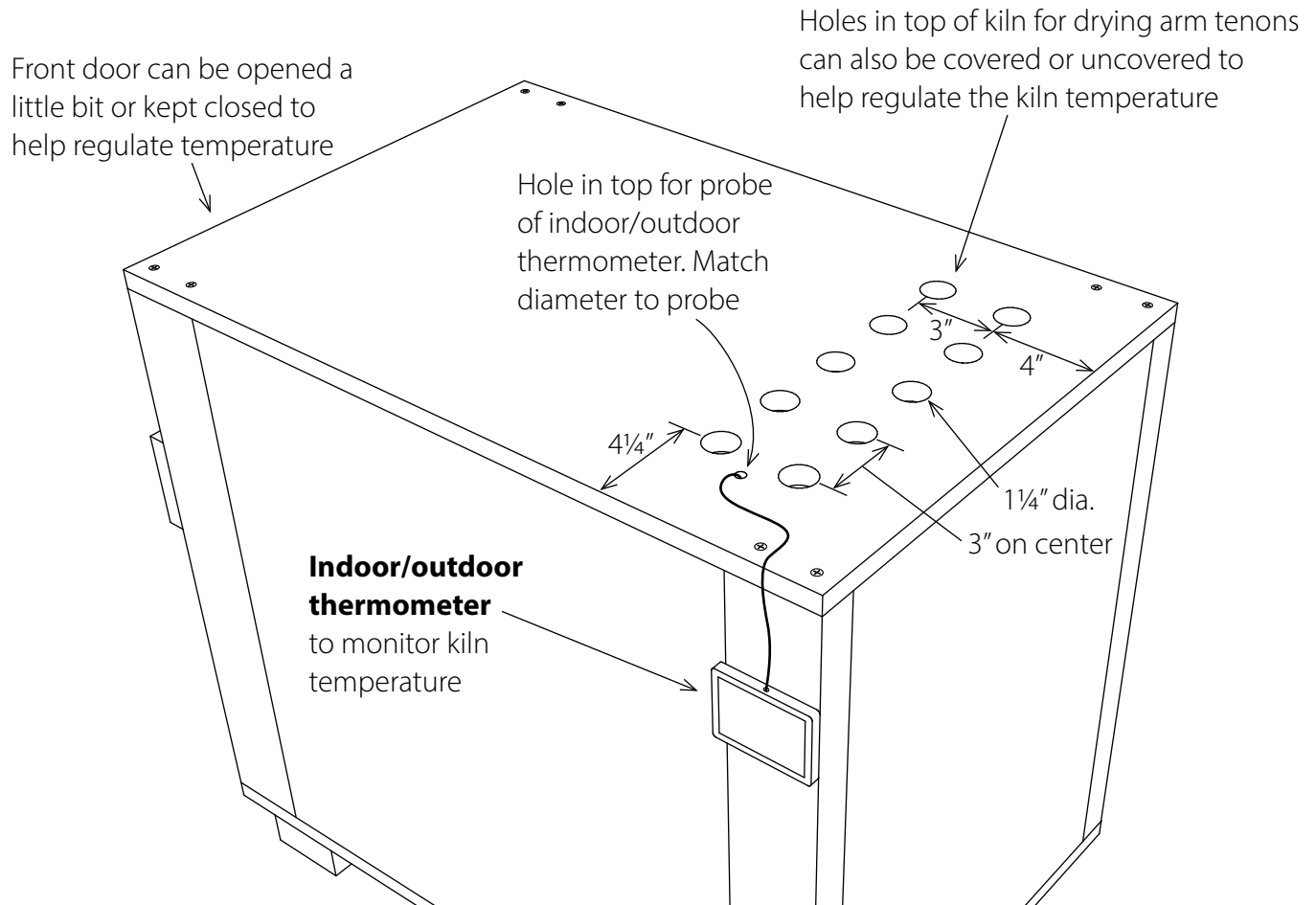
**IMPORTANT: Maximum safe temperature is 140°F**

- Kiln temperature for drying parts ranges from 110°F to 140°F
- 2, 100 watt light bulbs or 2, 100 watt ceramic heat emitters should be enough to reach desired temperature. Kiln temperature will vary based on your shop temperature

**Option 1:****Temperature Controller**

- Plug the heat source into the temperature controller and plug the controller into an electric outlet
- Set the minimum and maximum temperatures of the temperature controller. The controller will turn the heat source on and off keeping the temperature in the kiln within a set range
- Use any temperature controller that allows you to set a minimum (turn on) and maximum (turn off) temperature. This is the controller that I use and like:
  - WILLHI WH1436A 10A Temperature Controller

## Option 2: Indoor/Outdoor Thermometer



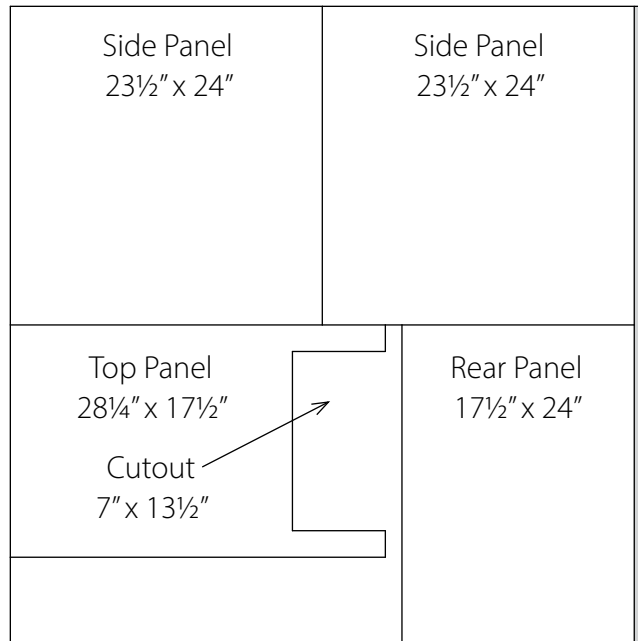
### Pay careful attention to the kiln temperature and adjust as necessary

- If temperature is too high do any or all:
  - Uncover some or all holes in top
  - Open the front door a little
  - Remove one light bulb or heat emitter
- If temperature is too low do either or both:
  - Cover some or all holes in top
  - Close front door securely

## 1½" Foil Faced Foam Insulation Board

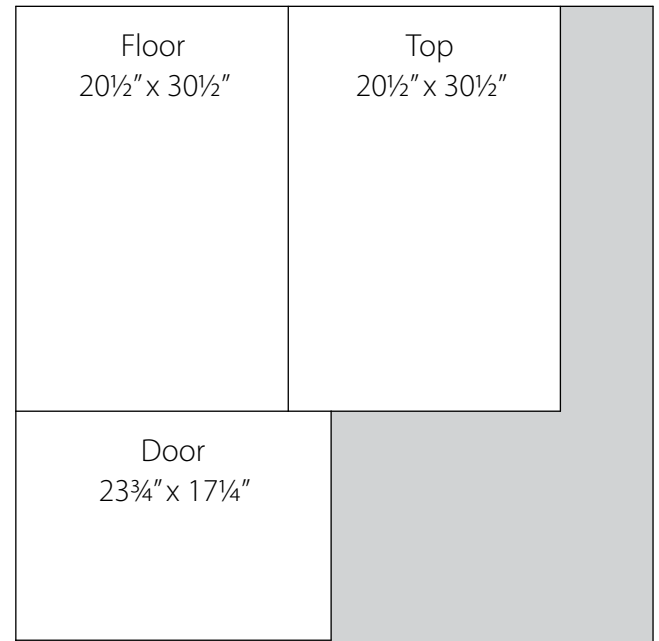
Half sheet

Foil face towards the inside of kiln

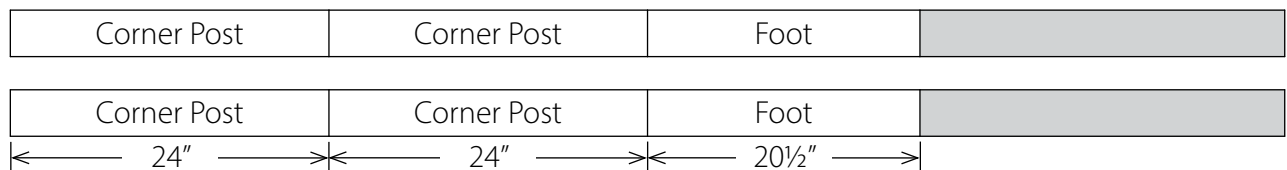


## ¾" Plywood

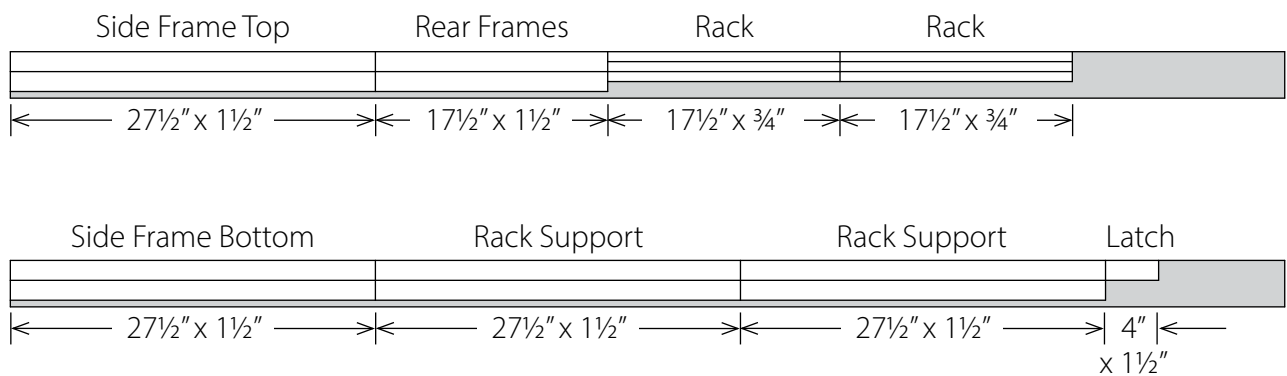
Half sheet



## 2 x 4 x 8'



## 1 x 4 x 8'





## Insulation

1½" Foil Faced Foam Insulation Board	1	Half sheet, 4' x 4'
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## Lumber

¾" Plywood	1	Half sheet, 4' x 4'
2 x 4 x 8'	2	
1 x 4 x 8'	2	

## Electrical

Steel Octagonal Wall Electrical Box	2	
½" Steel Conduit	1	About 12"
½" Steel Set Screw Connector	2	
Porcelain Ceiling Socket	2	
14/2 Indoor Wire, Wire Nuts, Power Cord, Switch (optional)		

## Heat Source and Temperature Monitoring

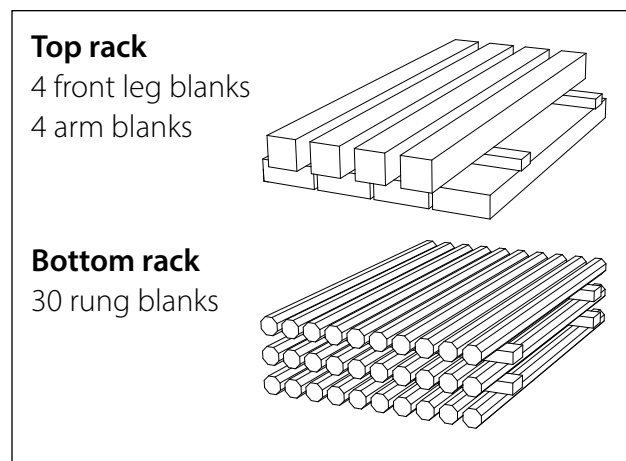
100 Watt — Incandescent Light Bulb <b>or</b> Ceramic Heat Emitter	2	
Temperature Controller: WILLHI WH1436A recommended <b>or</b>	1	
Indoor/Outdoor Thermometer	1	

## Hardware

4" Strap Hinges	2	
Sheet Metal	1	About 12" x 18"
Flat Metal Bar	3	17½" x ¾" x ⅛" or similar
Screws, 1⅝"	50	Approx. quantity

## Kiln capacity

The kiln can hold enough parts for 2 chairs



Or

