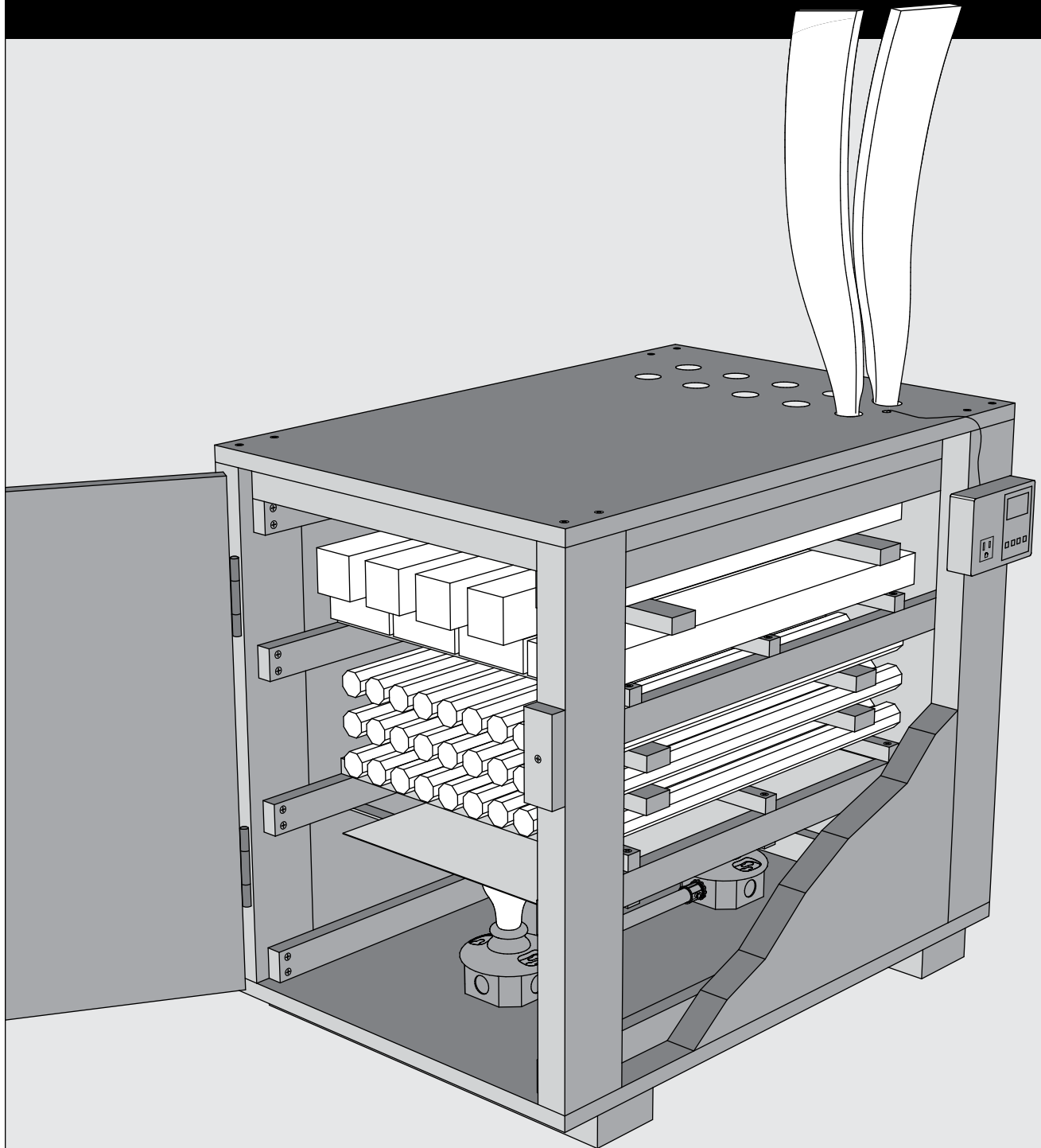


BUILD A LIGHT BULB KILN



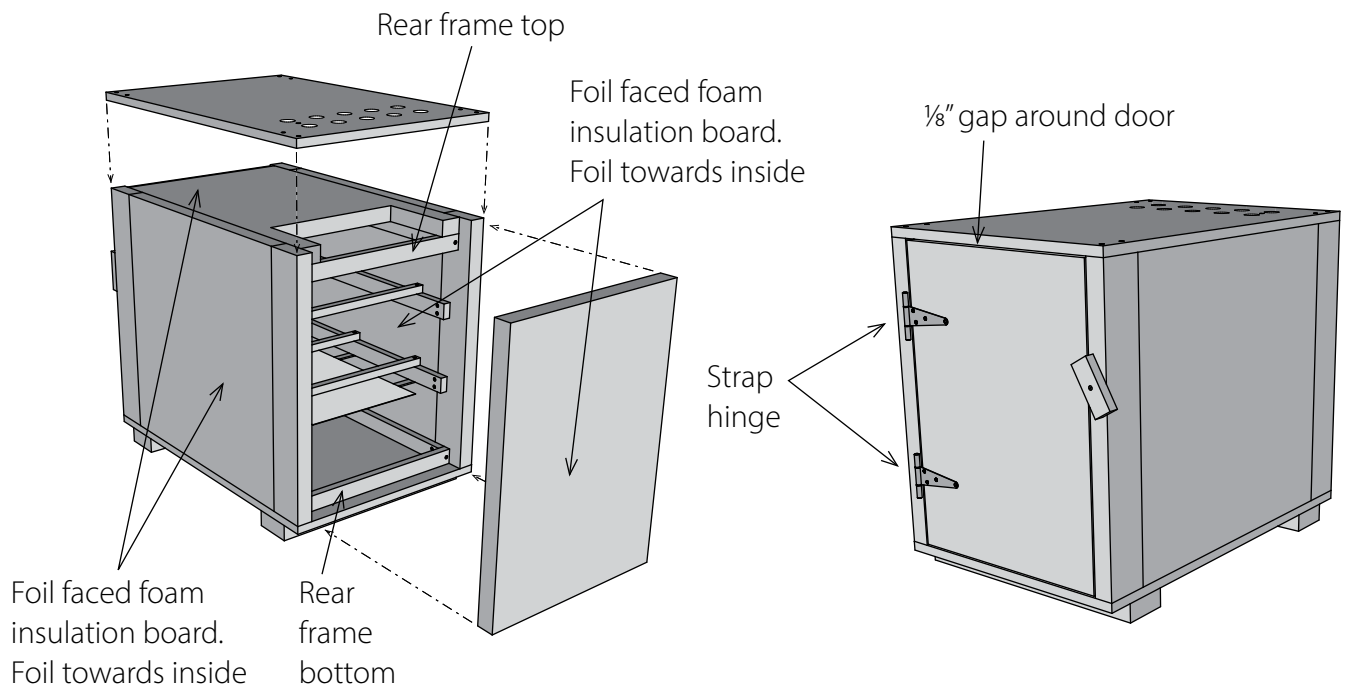
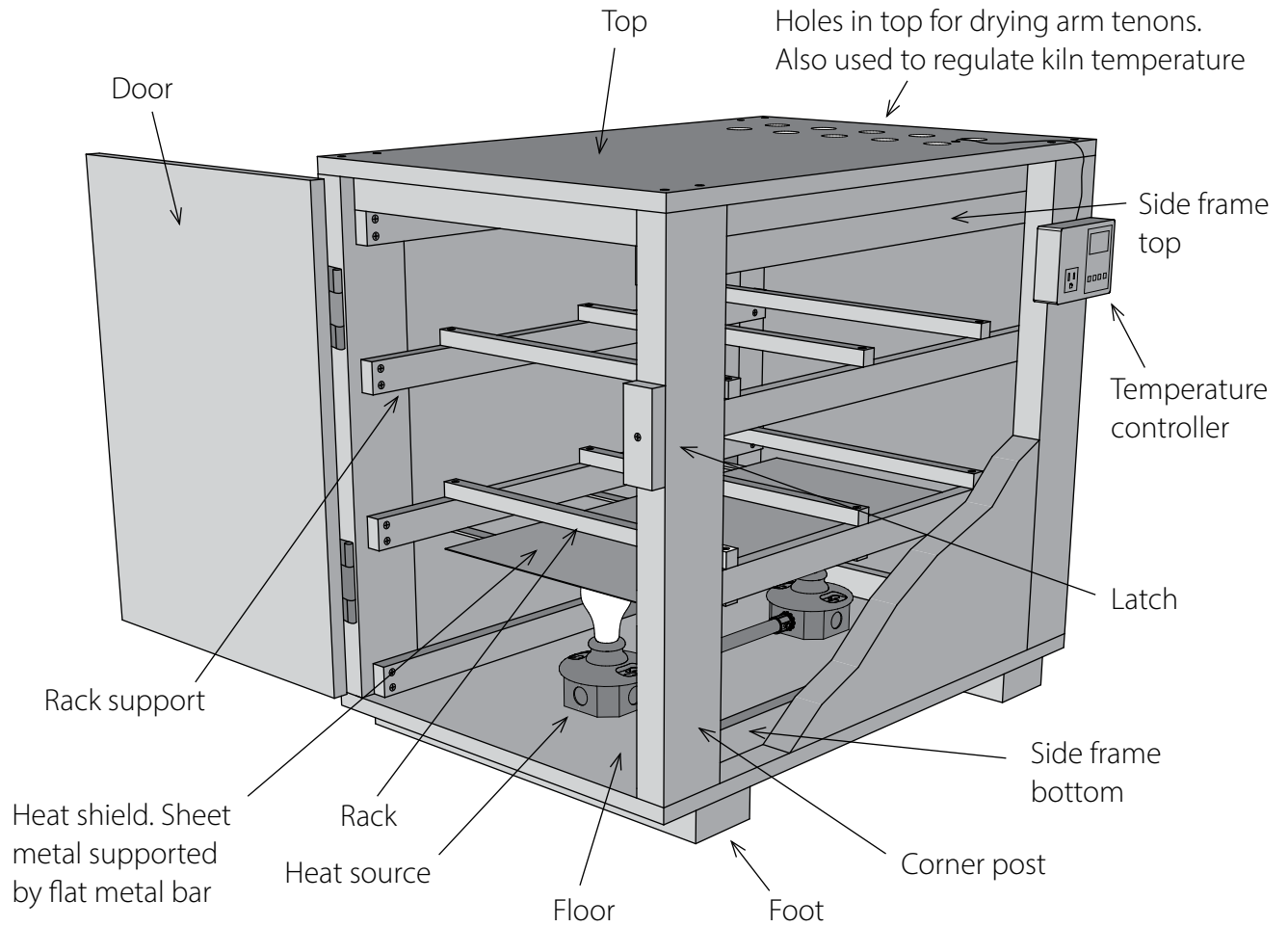
Written and illustrated by
Jeff Lefkowitz

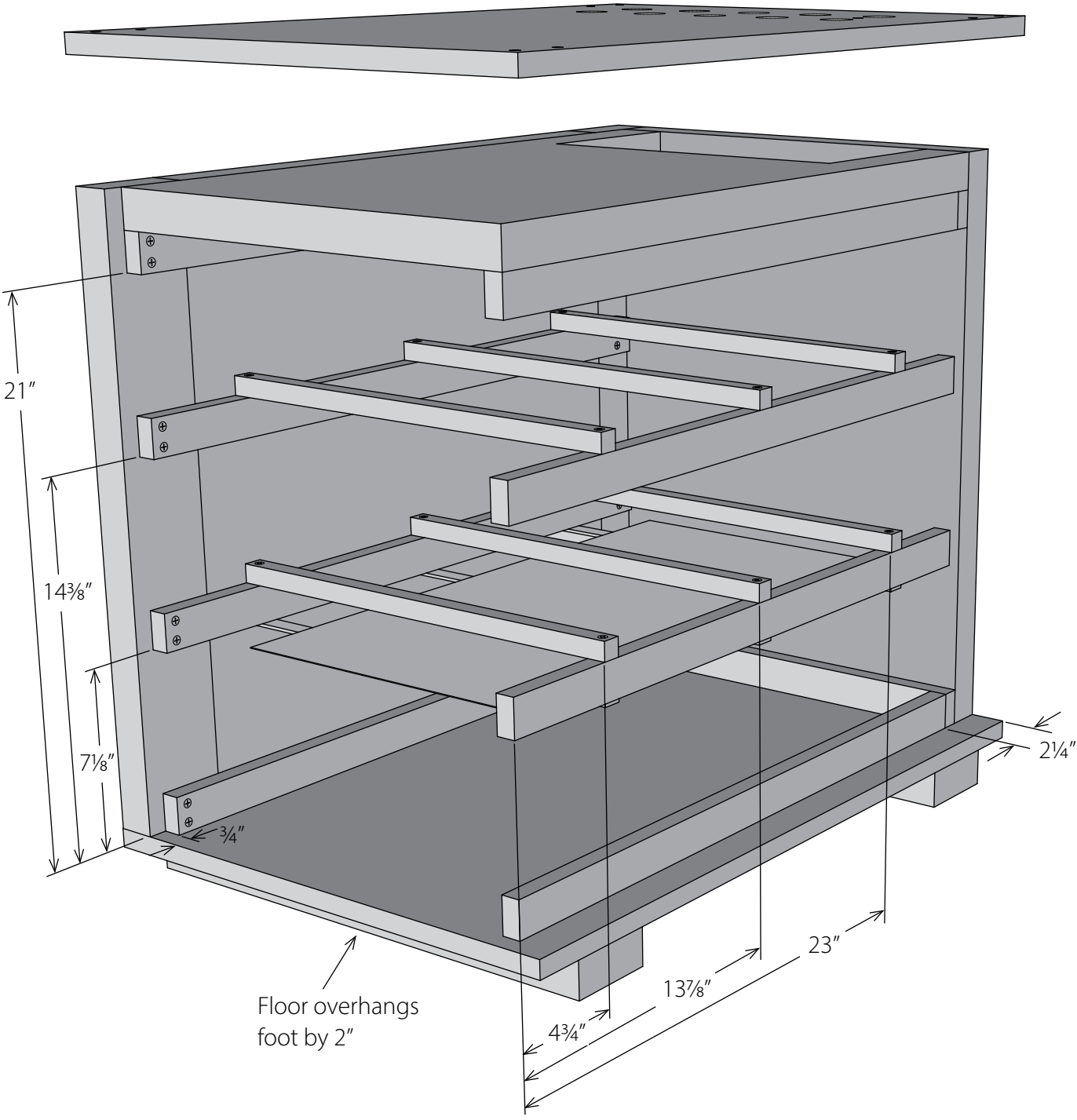
Written and illustrated by



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www.jefflefkowitzchairmaker.com



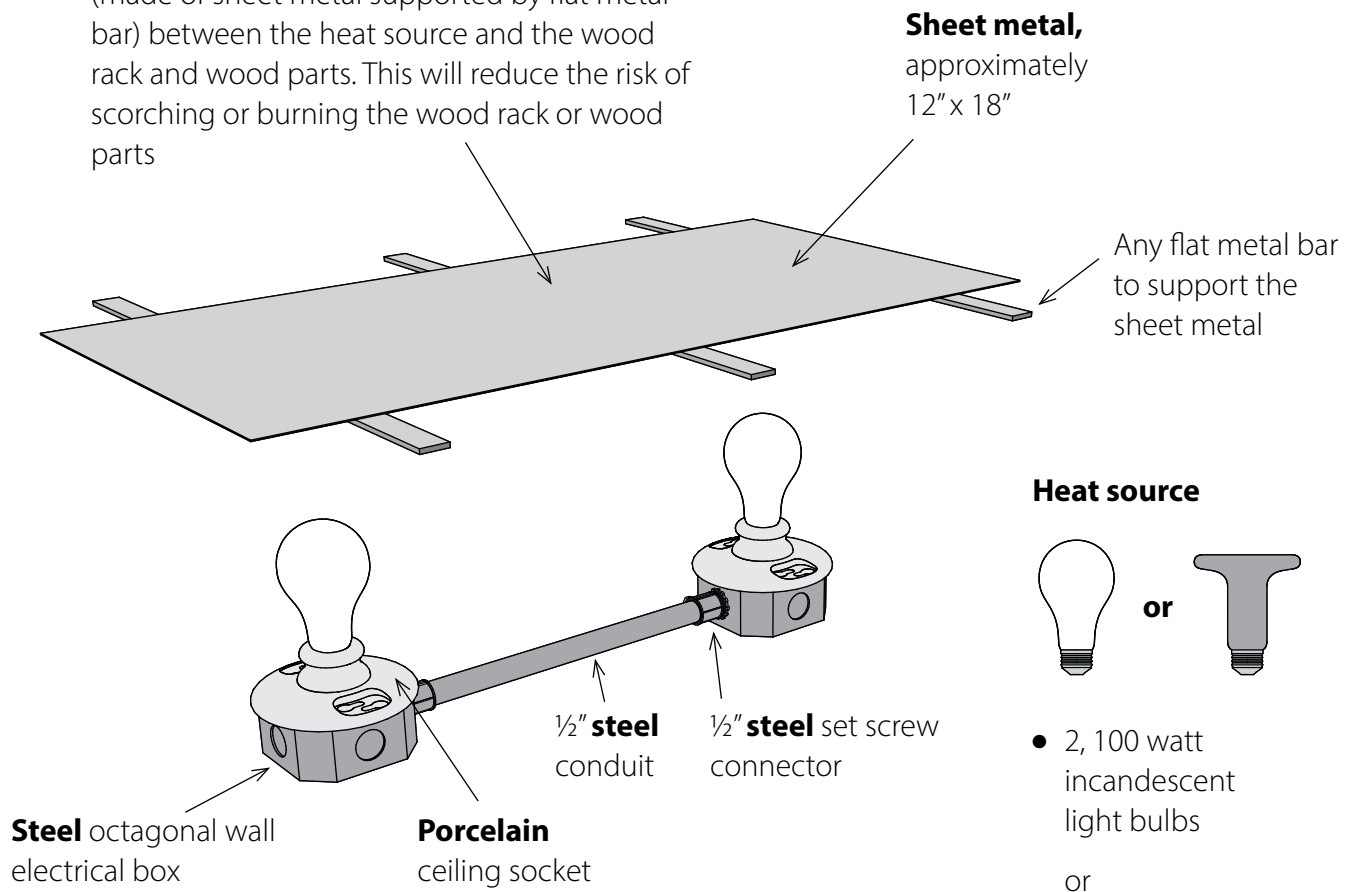


HEATING WOOD PARTS IN A KILN IS INHERENTLY RISKY. It is up to you to take all precautions necessary to minimize the risk of fire.

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



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

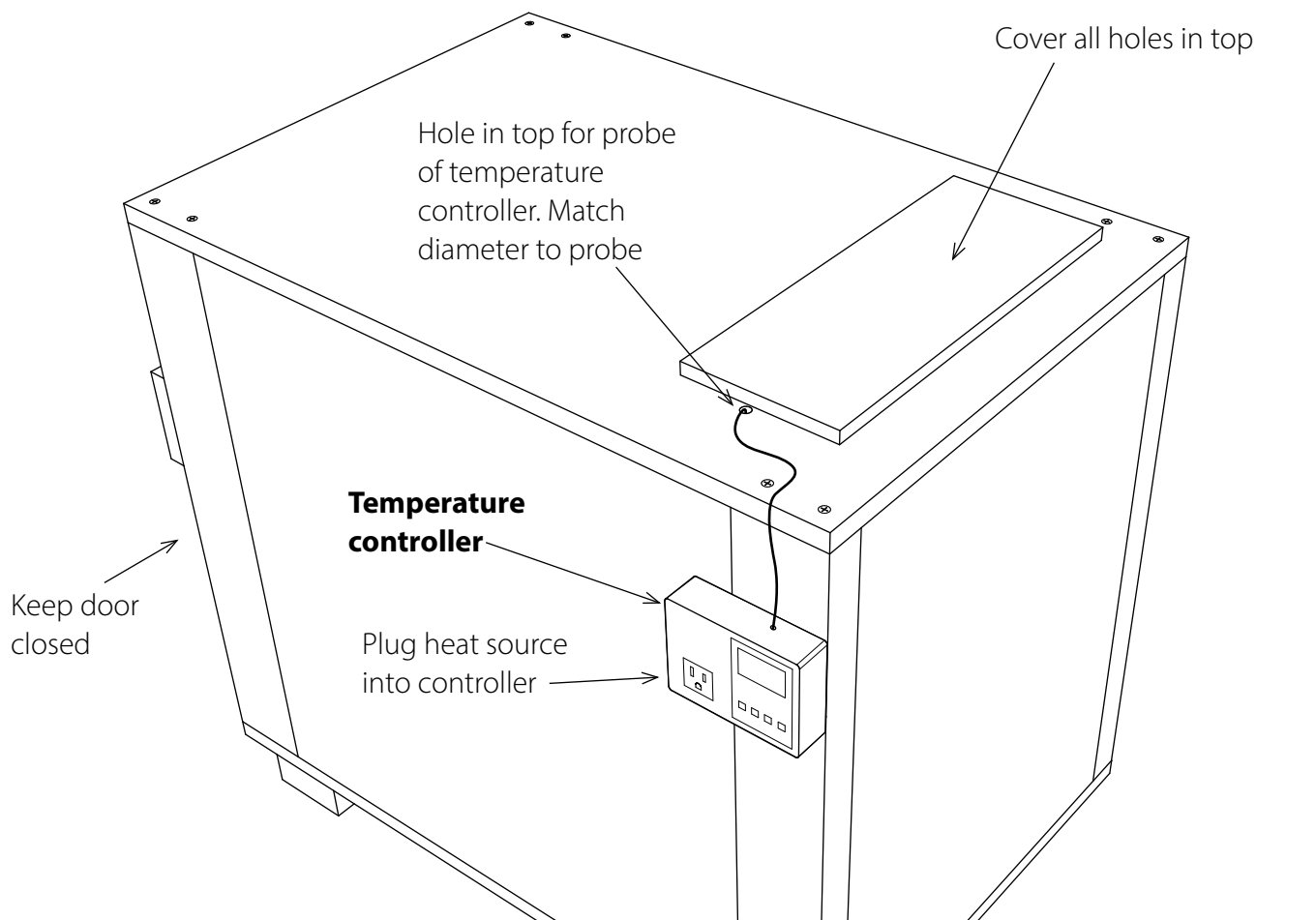
- Connect porcelain sockets to:
 - Plug
 - or
 - Switch connected to plug

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

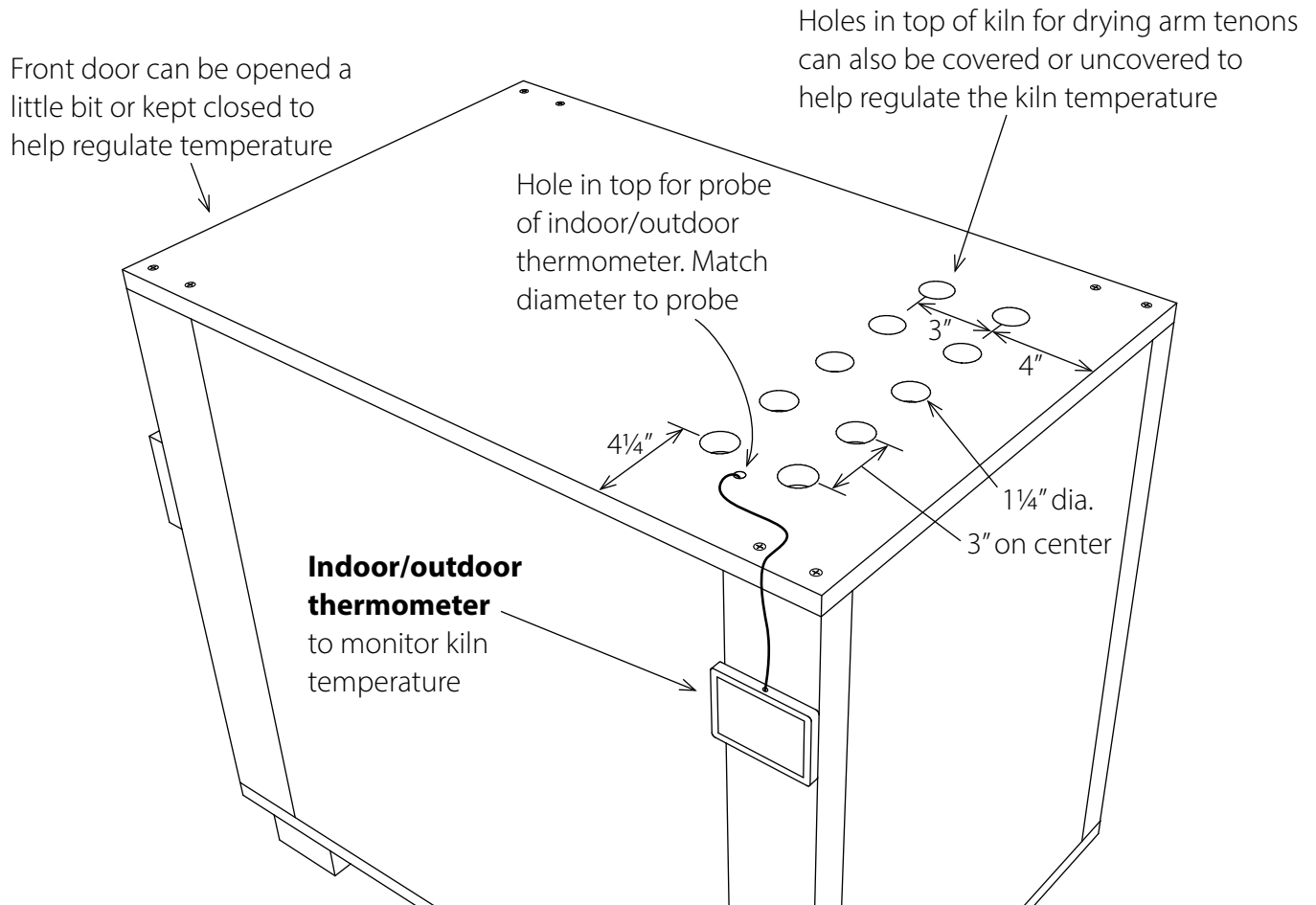
Option 1:

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



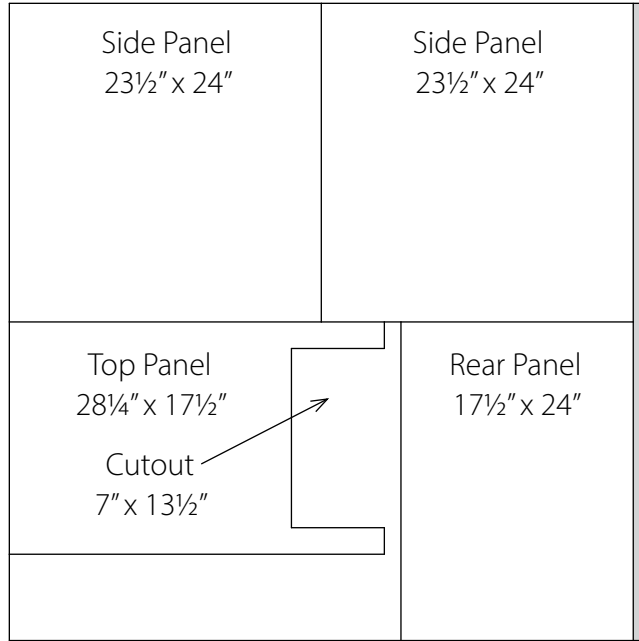
Pay careful attention to the kiln temperature and adjust as necessary

- 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

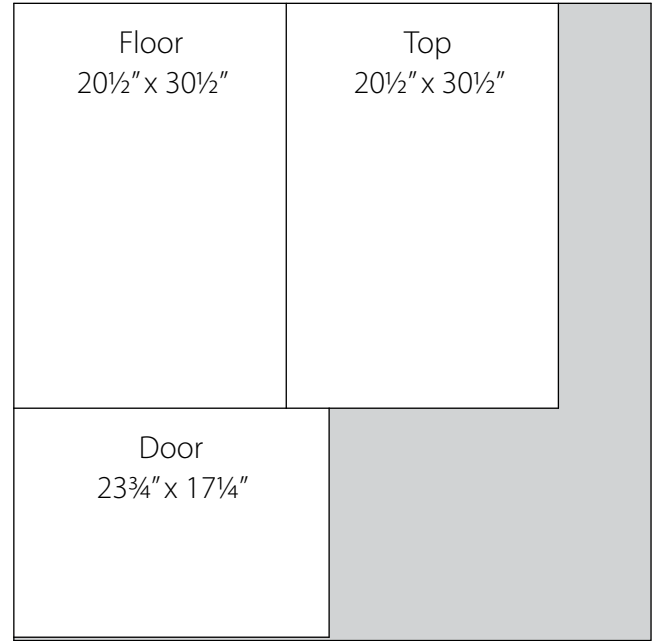
Half sheet

Foil face towards the inside of kiln

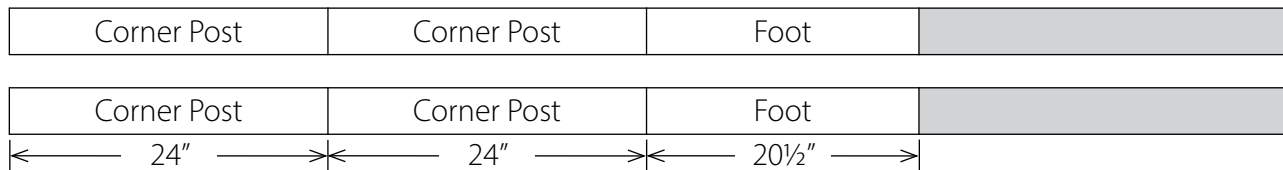


¾" Plywood

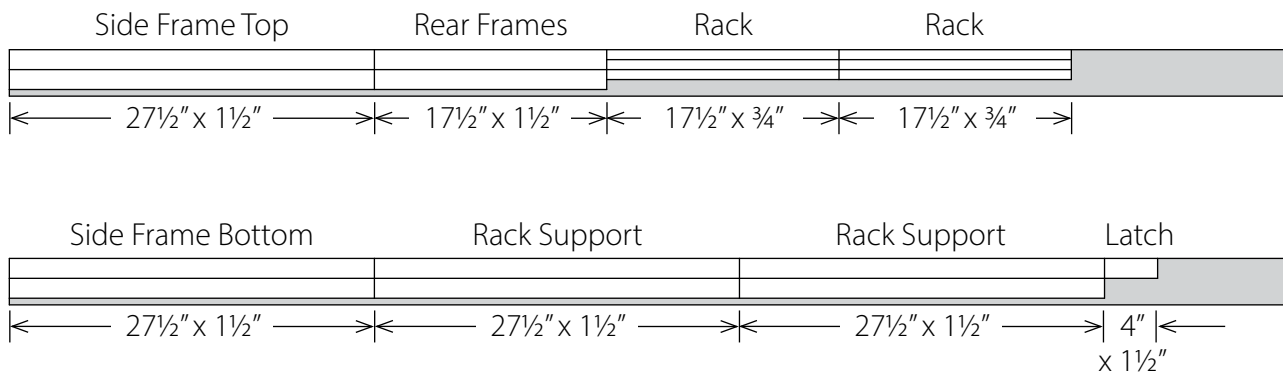
Half sheet



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

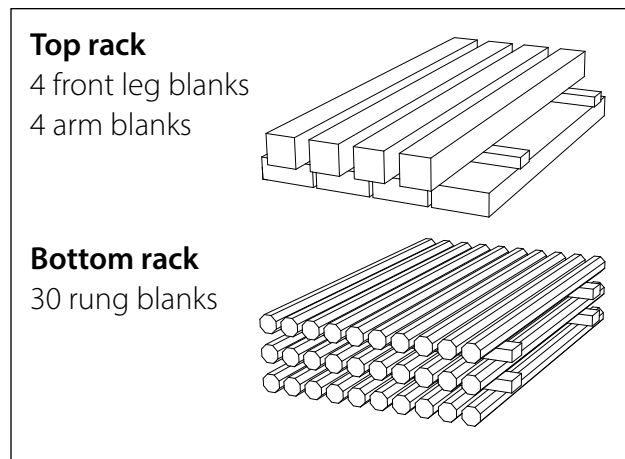
100 Watt — Incandescent Light Bulb or Ceramic Heat Emitter	2	
Temperature Controller: WILLHI WH1436A recommended or	1	
Indoor/Outdoor Thermometer	1	

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

