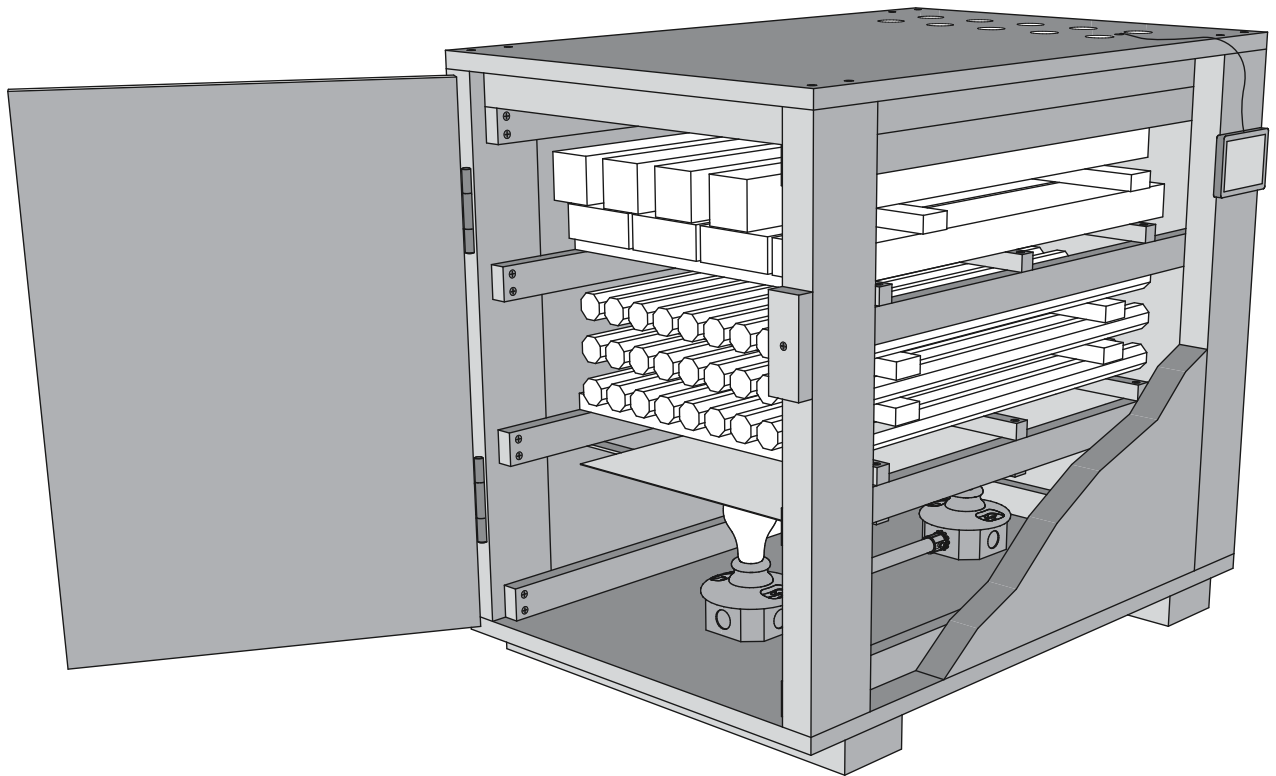

Build a Light Bulb Kiln



Written and illustrated by
Jeff Lefkowitz

Learn more about more about
building and using this light bulb kiln at
www.jointeffort.net/lbk

and

Find out more about building Brian Boggs
designed Berea Ladderback chairs at
www.jointeffort.net/blp

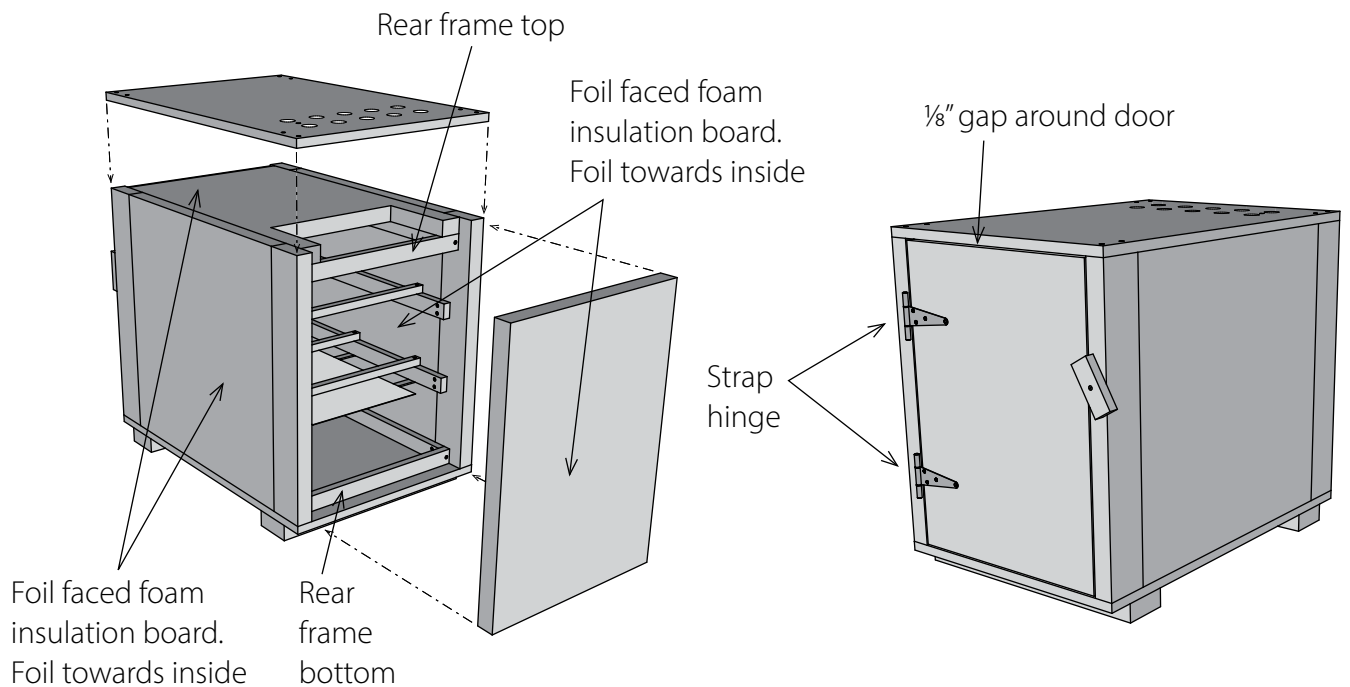
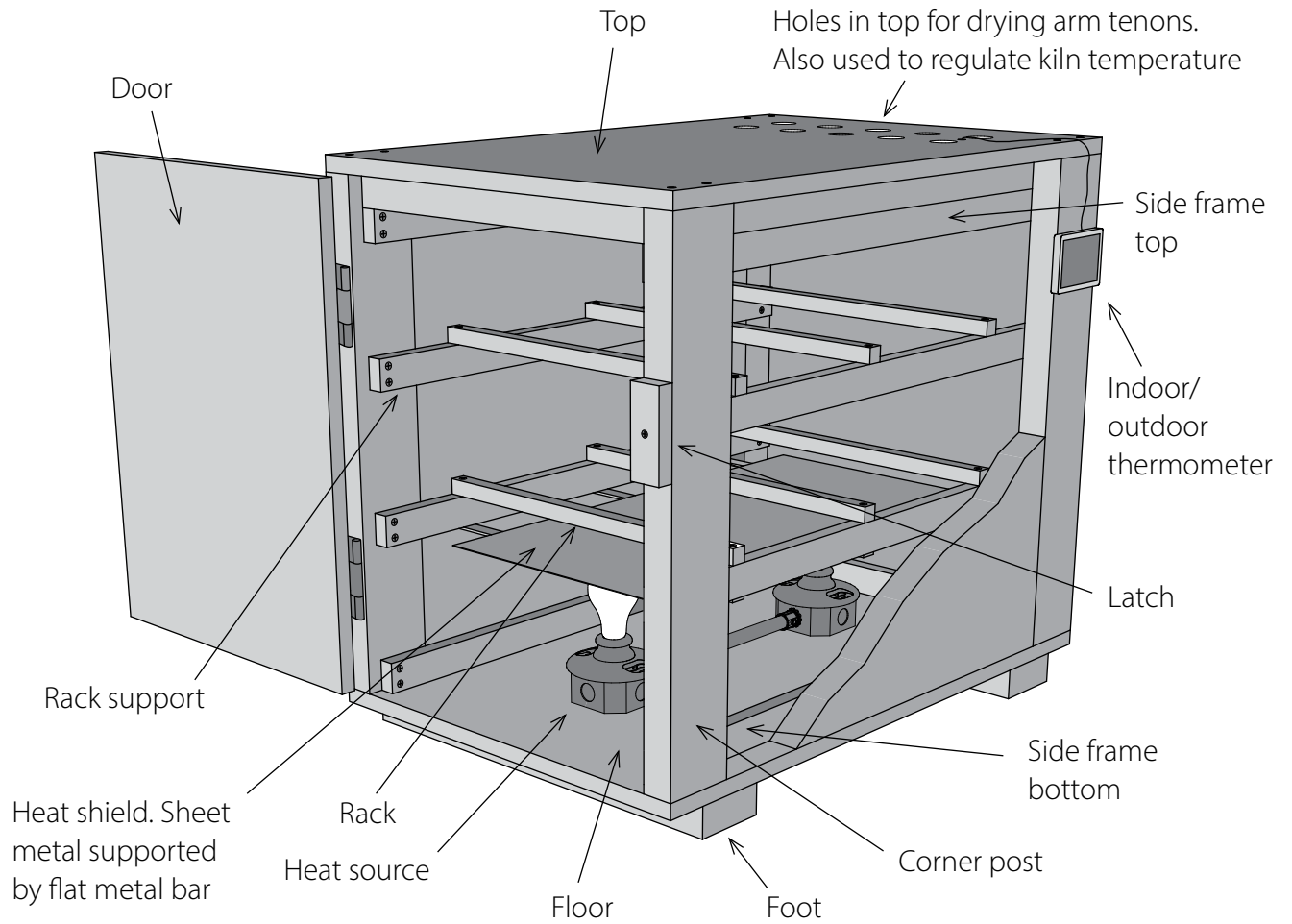
Written and illustrated by



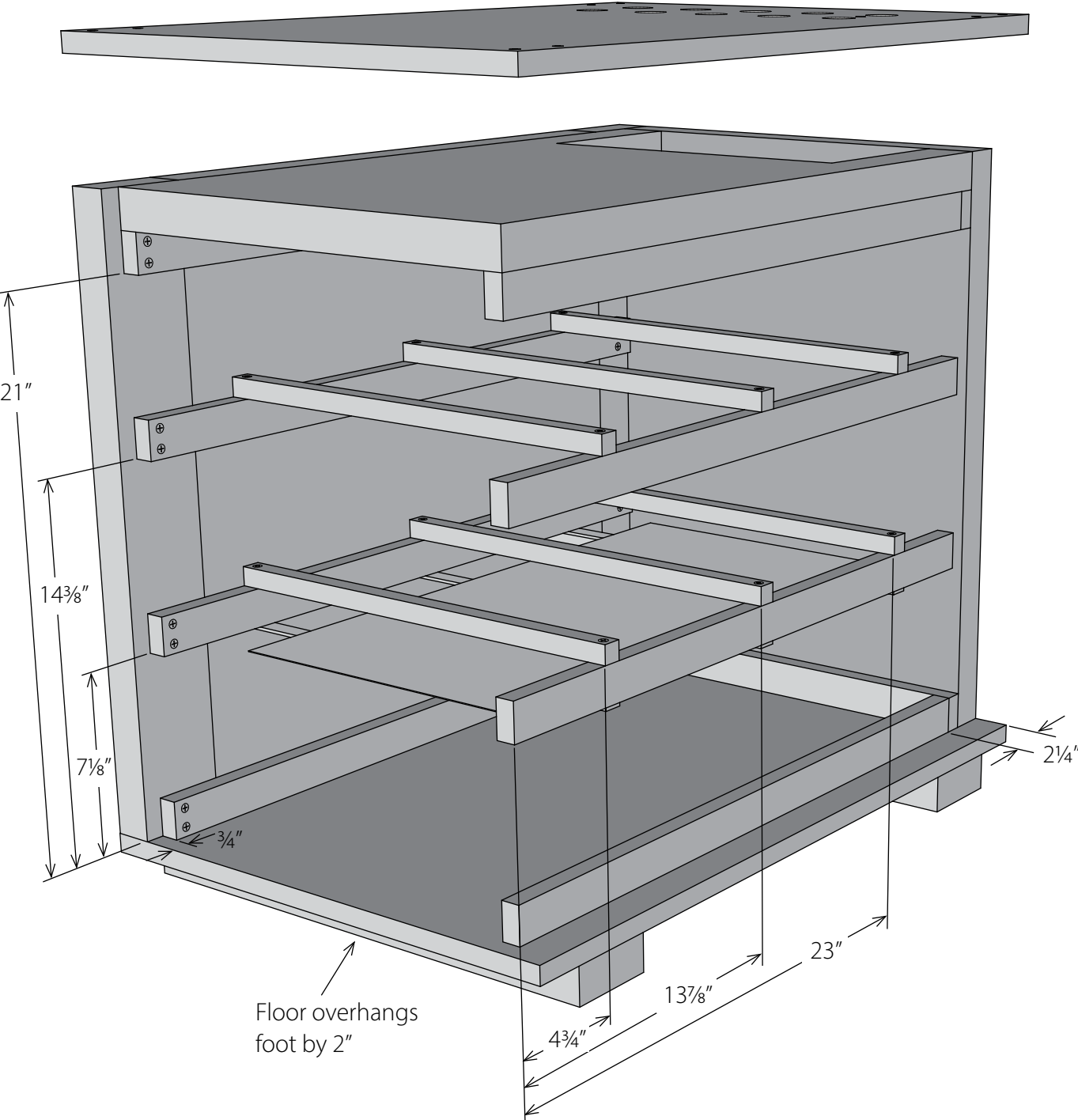
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www.jefflefkowitzchairmaker.com

Light Bulb Kiln



Light Bulb Kiln



Light Bulb Kiln

Heating the kiln

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.

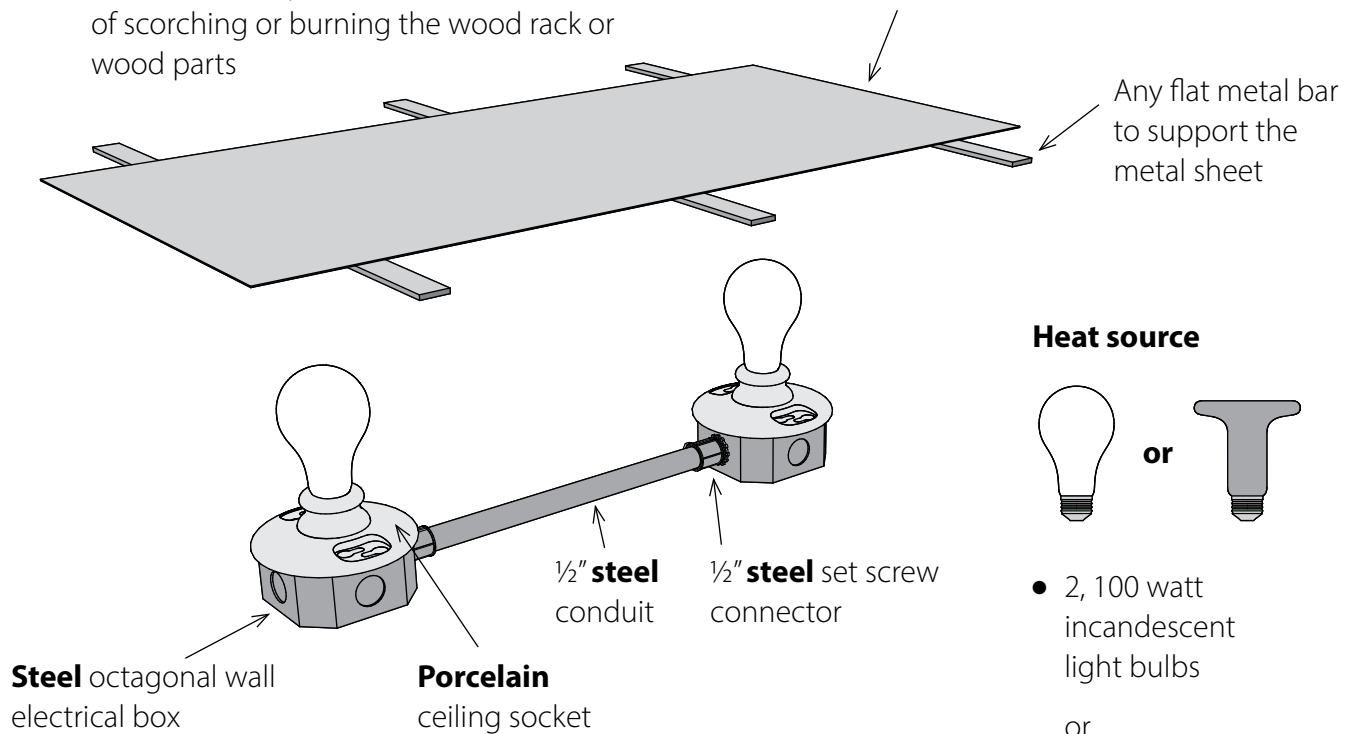
The kiln will be heated to between 110°F and 140°F.

To reduce risk of fire:

- Use all metal electrical components as shown below
- Use porcelain light sockets
- It is essential that you 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

VERY IMPORTANT:

Place metal sheet, approximately 12" x 18", between the heat source and the wood rack and wood parts. This reduces the possibility that the rack or parts will scorch or burn



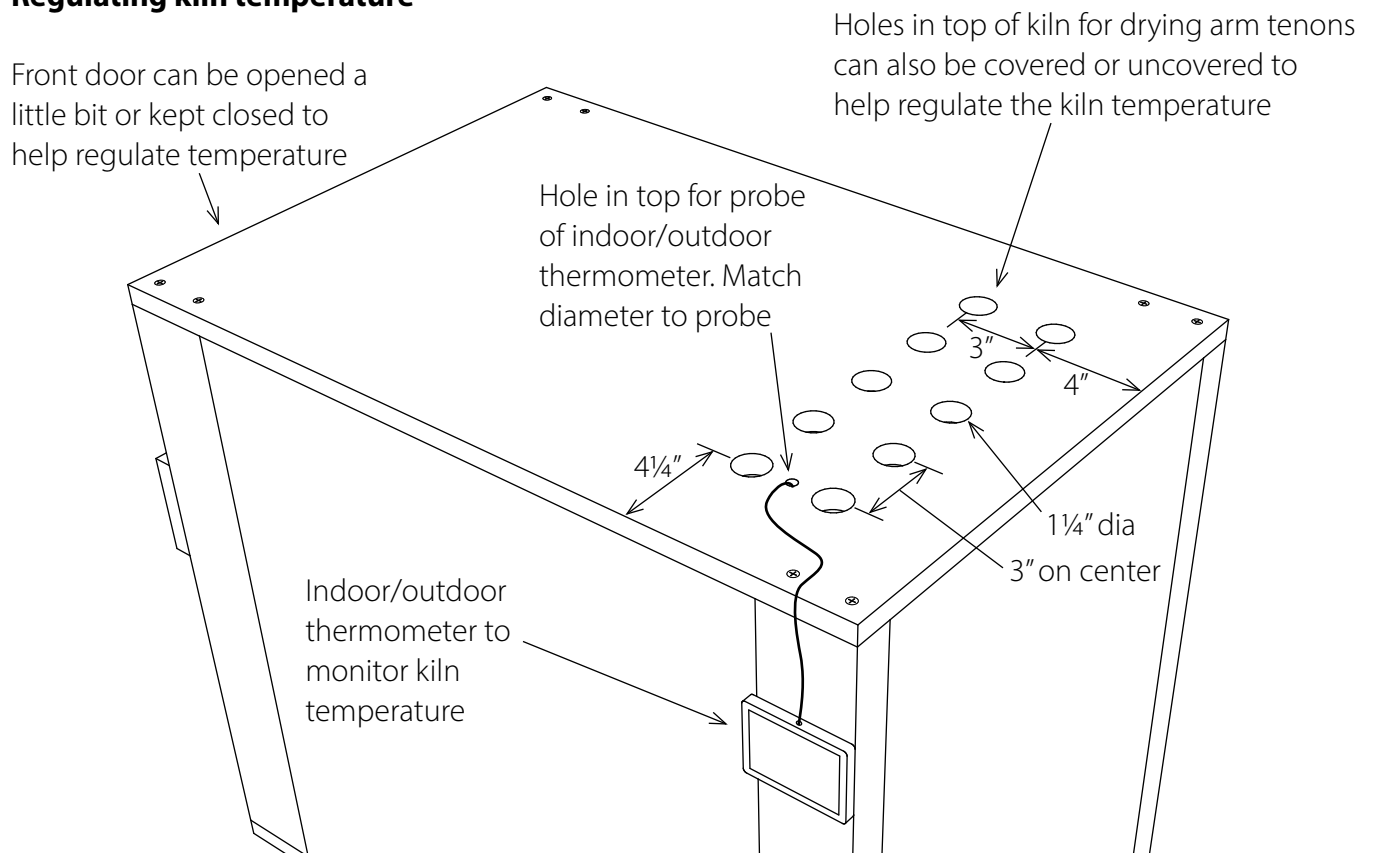
IMPORTANT: Have a licensed electrician wire and test the electrical components

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

Light Bulb Kiln

Regulating kiln temperature

Front door can be opened a little bit or kept closed to help regulate temperature



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
- Use the indoor/outdoor thermometer to monitor the temperature

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

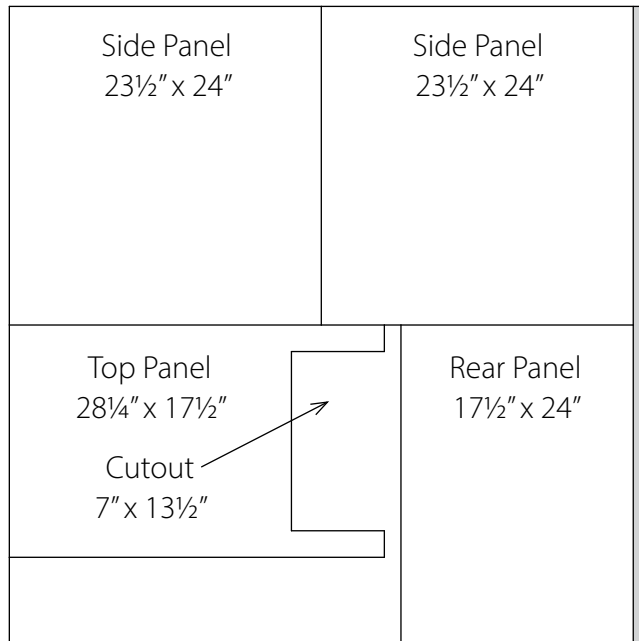
Light Bulb Kiln

Cut Diagrams

1½" Foil Faced Foam Insulation Board

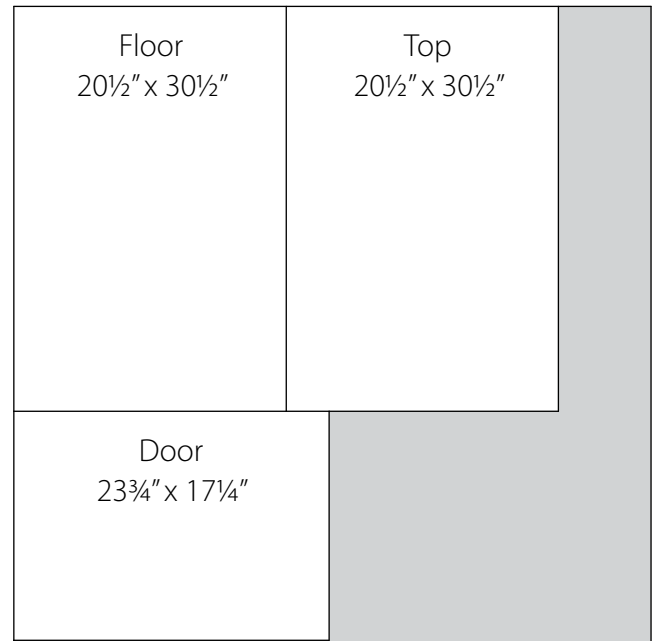
Half sheet

Foil face towards the inside of kiln

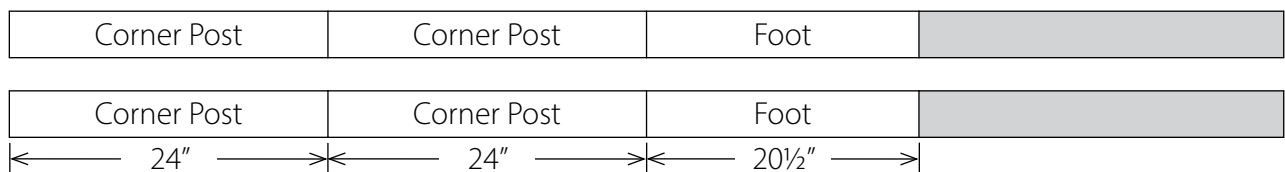


¾" Plywood

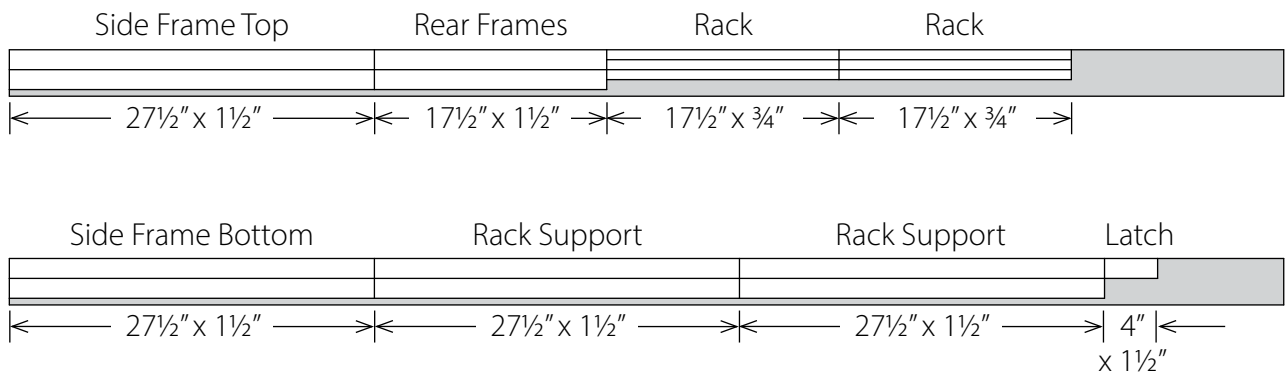
Half sheet



2 x 4 x 8'



1 x 4 x 8'



Light Bulb Kiln

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

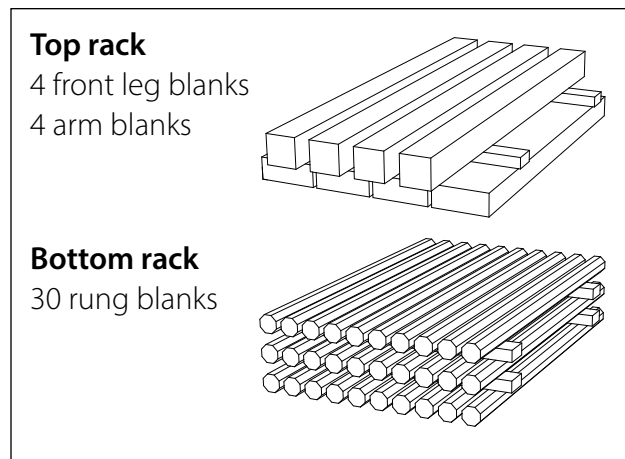
100 Watt — Incandescent Light Bulb or Ceramic Heat Emitter	2	
Indoor/Outdoor Thermometer	1	

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

