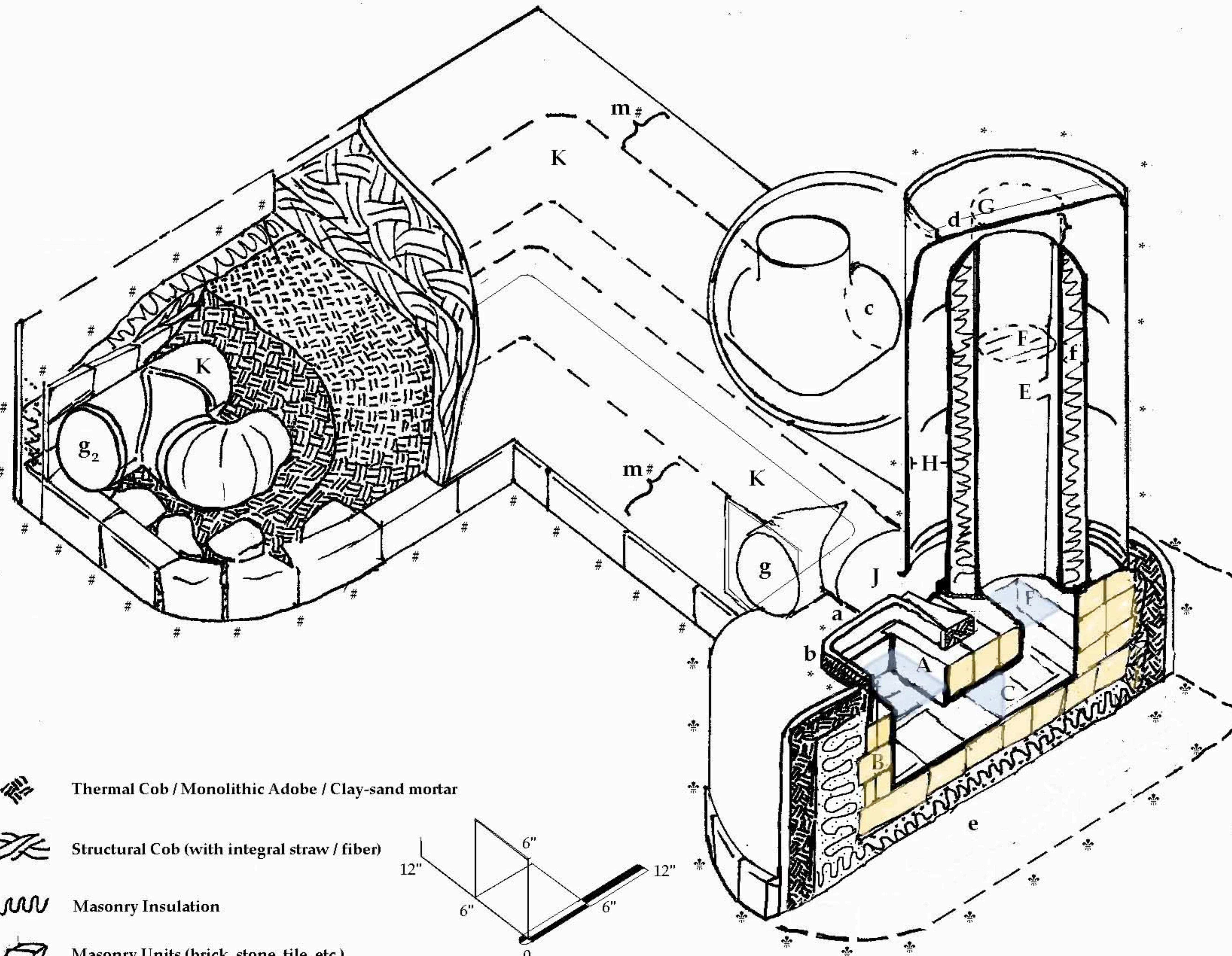


# ROCKET MASS HEATER



## Critical Dimensions

*Rocket Mass Heaters*, p. 35-36  
I. Evans & L. Jackson

$$E \geq 3B, 2D, \text{ or } B+D$$

$$C \leq A, F, G, H, J, \text{ \& } K$$

In this drawing,  
diameter at K (& F) = 6",  
C (& all cross-sections) =  
approx. 30 square inches.

L = 25 feet, d = 15"

Estimated mass of system:  
7,000 lbs (135 lbs/sf)

Masonry thickness at  
combustion unit = 8",  
at heat-exchange = 4"-6"

## Additional Considerations

L (length of heat exchange)  
M (masonry thickness)

Estimated temperatures at:  
\* d = 400-700 degrees F  
# m = 80-120 degrees F  
C, E = 1200-1500 degrees F

Clearances to combustibles  
\* woodstove \* masonry heater  
# *Rocket Mass Heaters*, (p. 62)



Thermal Cob / Monolithic Adobe / Clay-sand mortar

Structural Cob (with integral straw / fiber)

Masonry Insulation

Masonry Units (brick, stone, tile, etc.)

