



W.D.

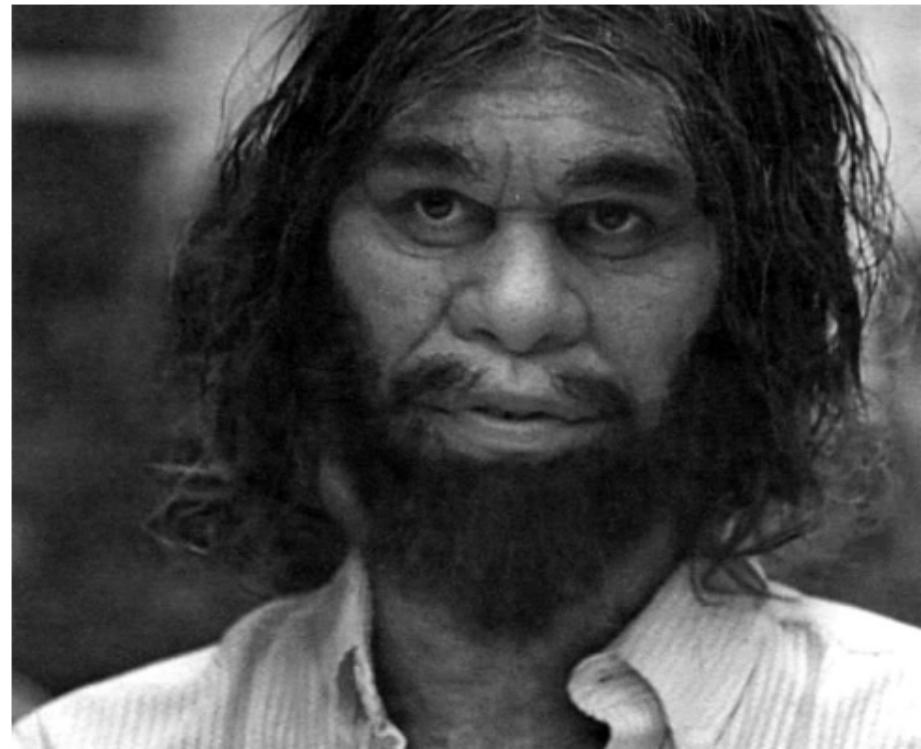
W.W.T.D.





GEICO®

So easy a caveman
can do it.



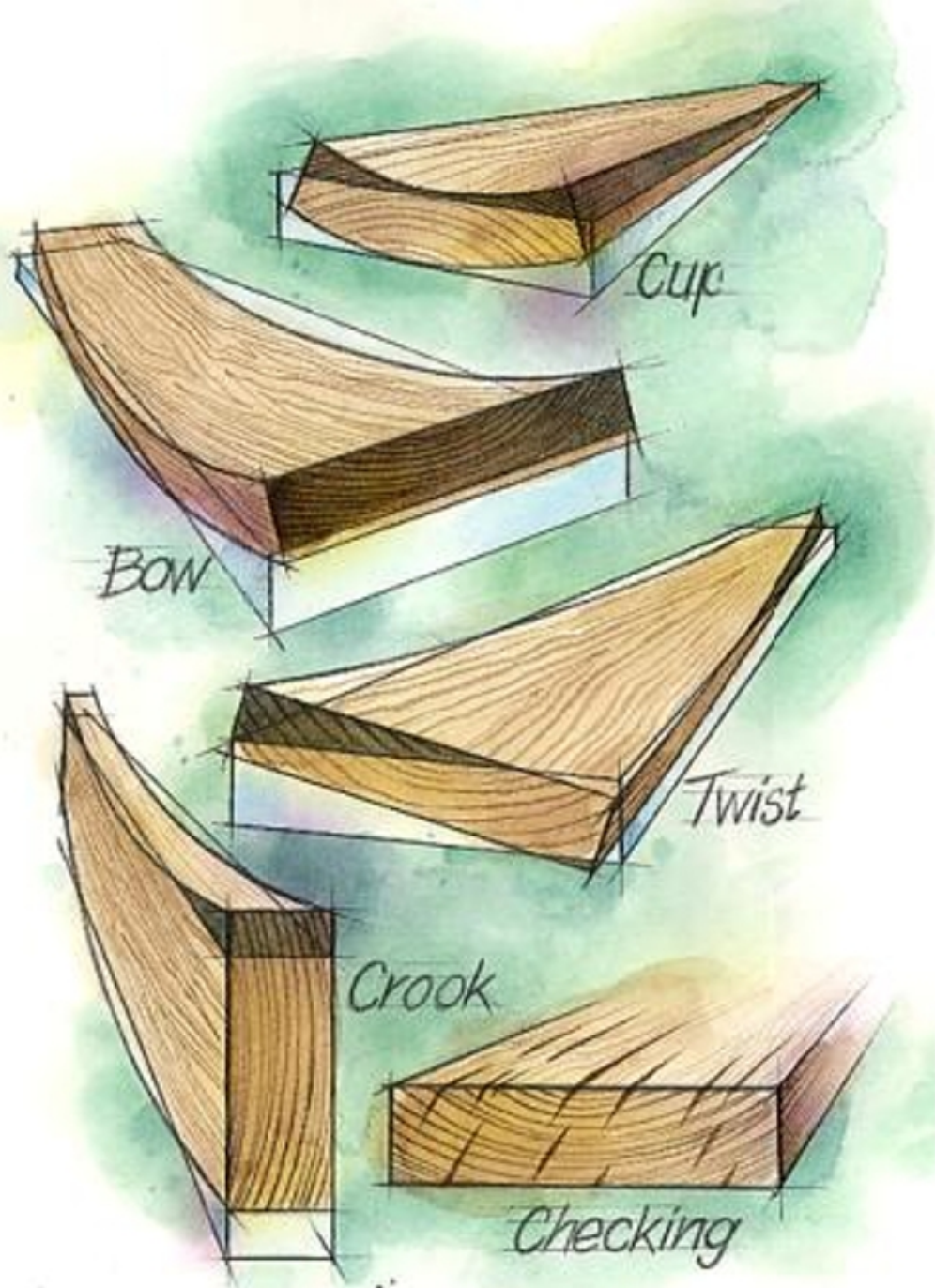
WALDEN

So simple Thoreau
can do it.





SITE OF
THOREAU'S
CABIN
1845-1849
HENRY DAVID THOREAU







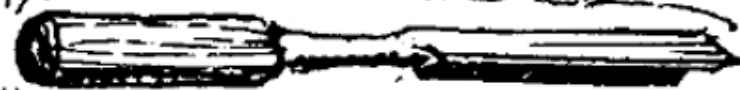
Knife

cornering
a Chisel

Apple
butter
Paddle



a Fitting Mallet



mortising
Chisel

and
mortising

Axe

a boring
Auger



a
Brace



No
few



Table 3A Yield Limit Equations, Double Shear

<u>Yield Mode</u>	<u>Capacity</u>		<u>Yield Mode</u>	<u>Capacity</u>	
I _m	$Z = \frac{D l_m F_{em}}{4K_\theta}$	(3.4-1)	III _s	$Z = \frac{k_3 D l_s F_{em}}{1.6(2 + R_e)K_\theta}$	(3.4-3)
I _s	$Z = \frac{D l_m F_{es}}{2K_\theta}$	(3.4-2)	V	$Z = \frac{\pi D^2}{2} F_{vp}$	(3.4-4)

Notes: $K_\theta = 1 + 0.25(\theta/90)$ (3.4-5)

$$k_3 = -1 + \sqrt{\frac{2(1 + R_e)}{R_e} + \frac{2F_{yb}(2 + R_e)D^2}{3F_{em}l_s^2}} \quad (3.4-6)$$

$$F_{vp} = 1365 G_p^{0.926} G_t^{0.778} \quad (3.4-7)$$

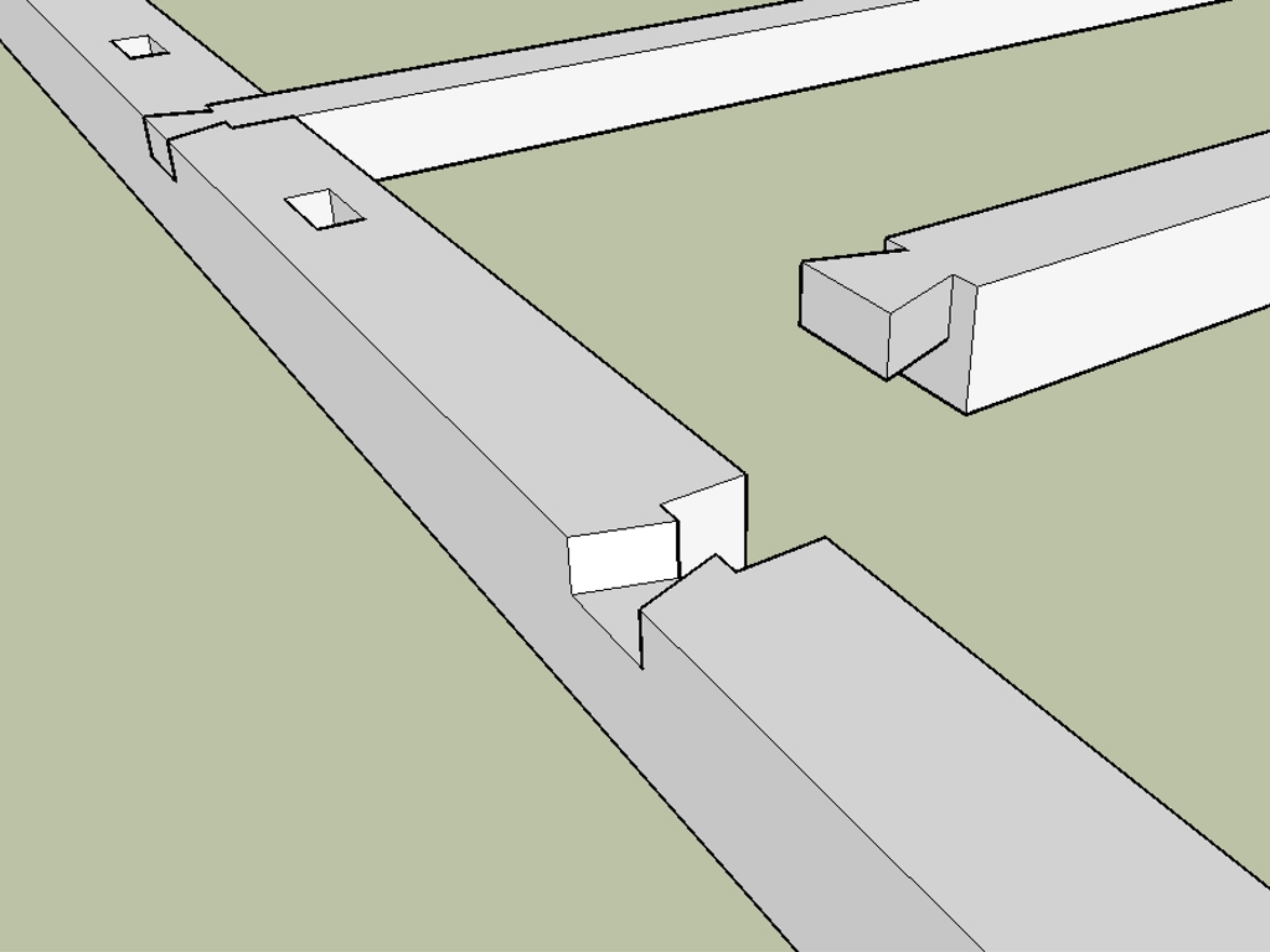
D = peg diameter (in)

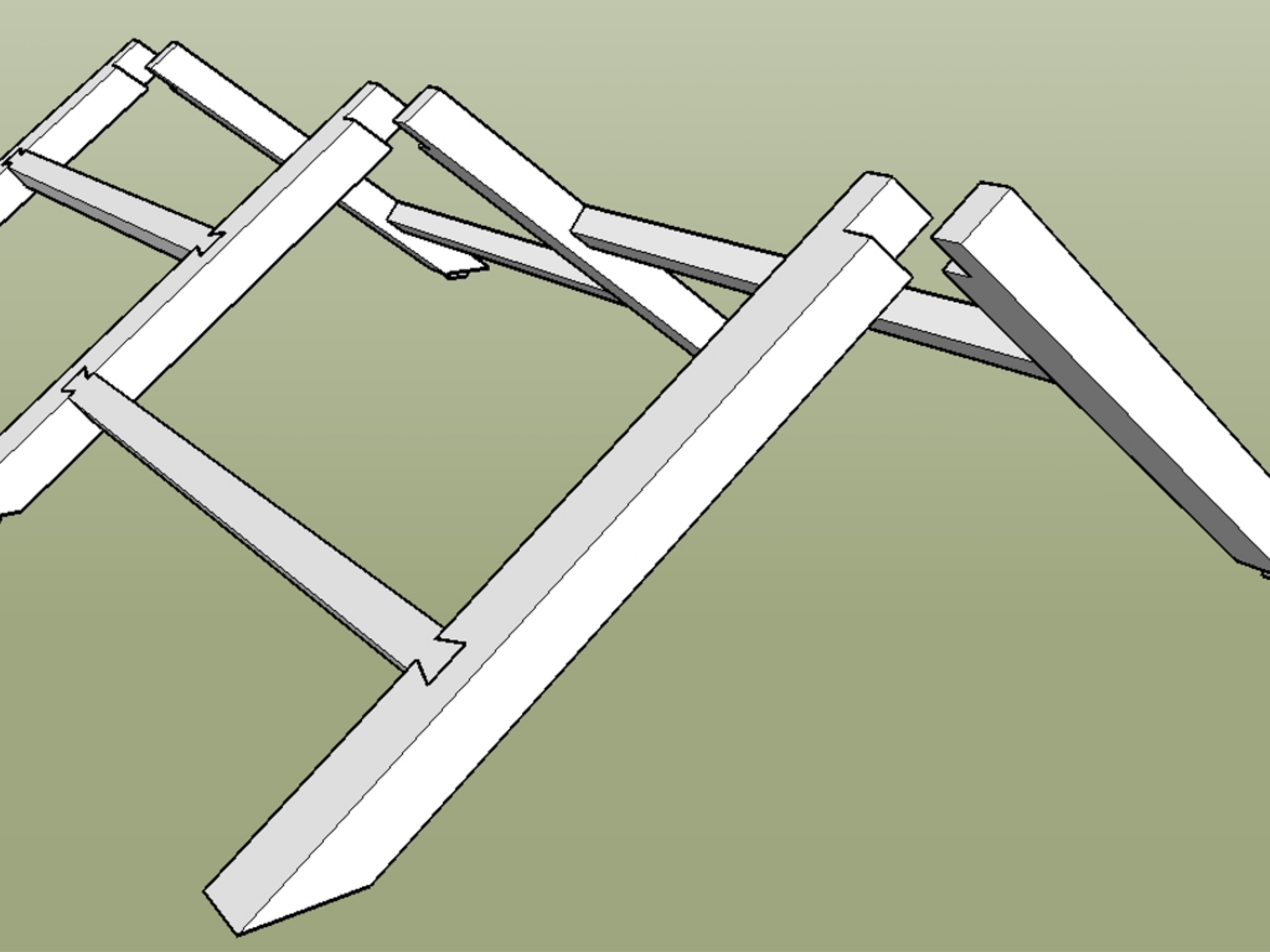
F_{yb} = dowel bearing yield strength of the peg (psi)

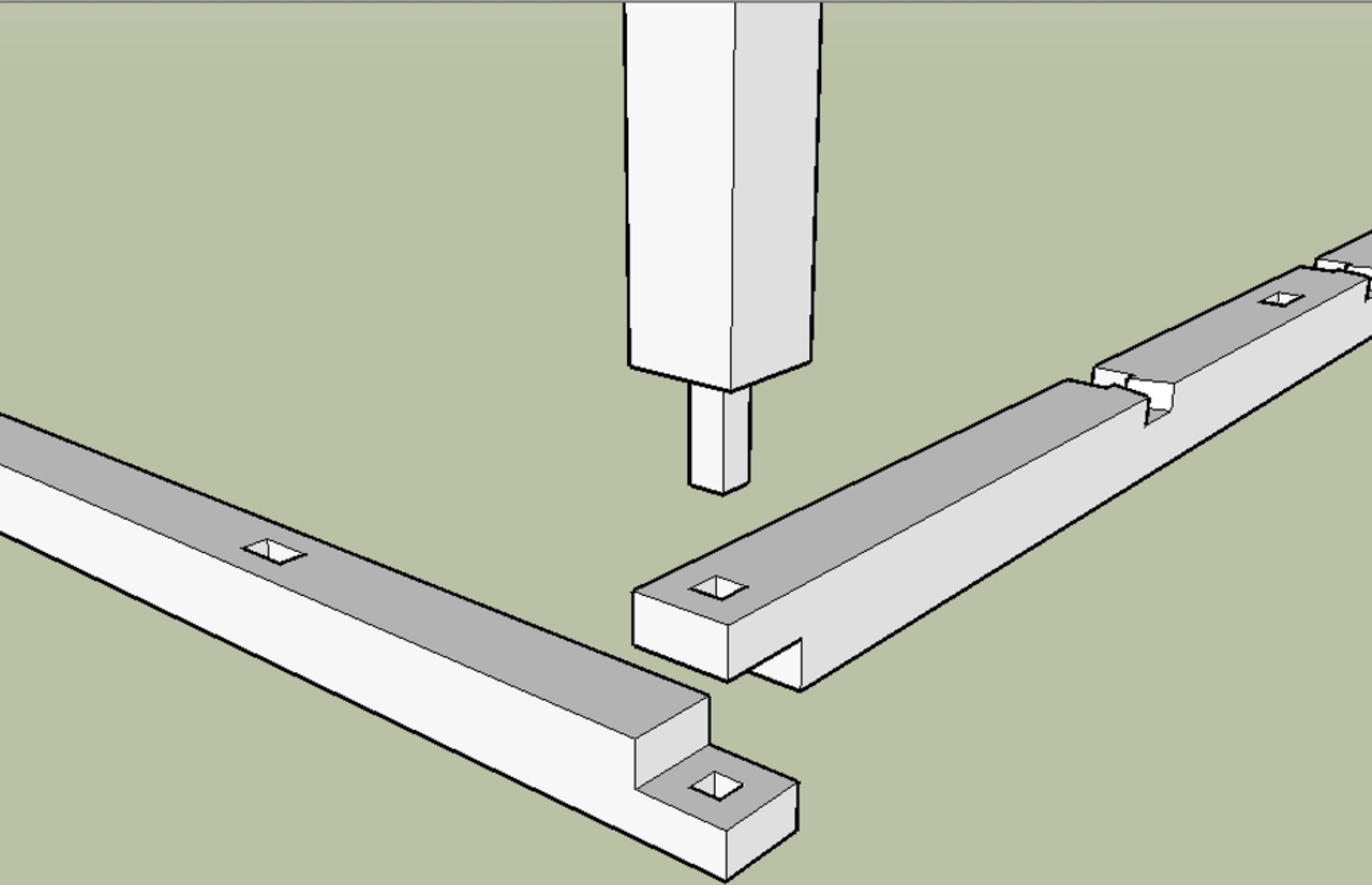
$R_e = F_{em}/F_{es}$

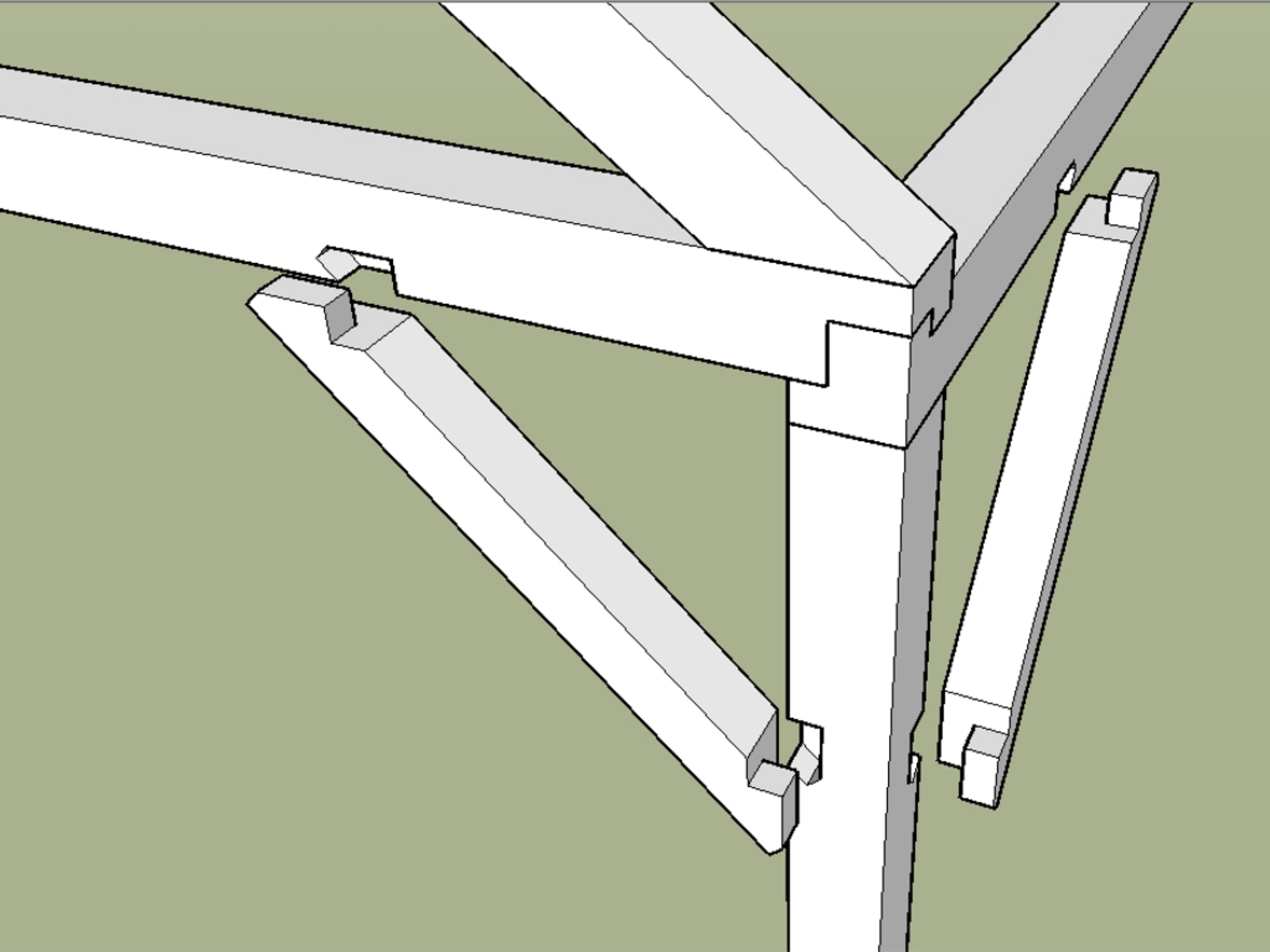
l_m = tenon breadth (in)

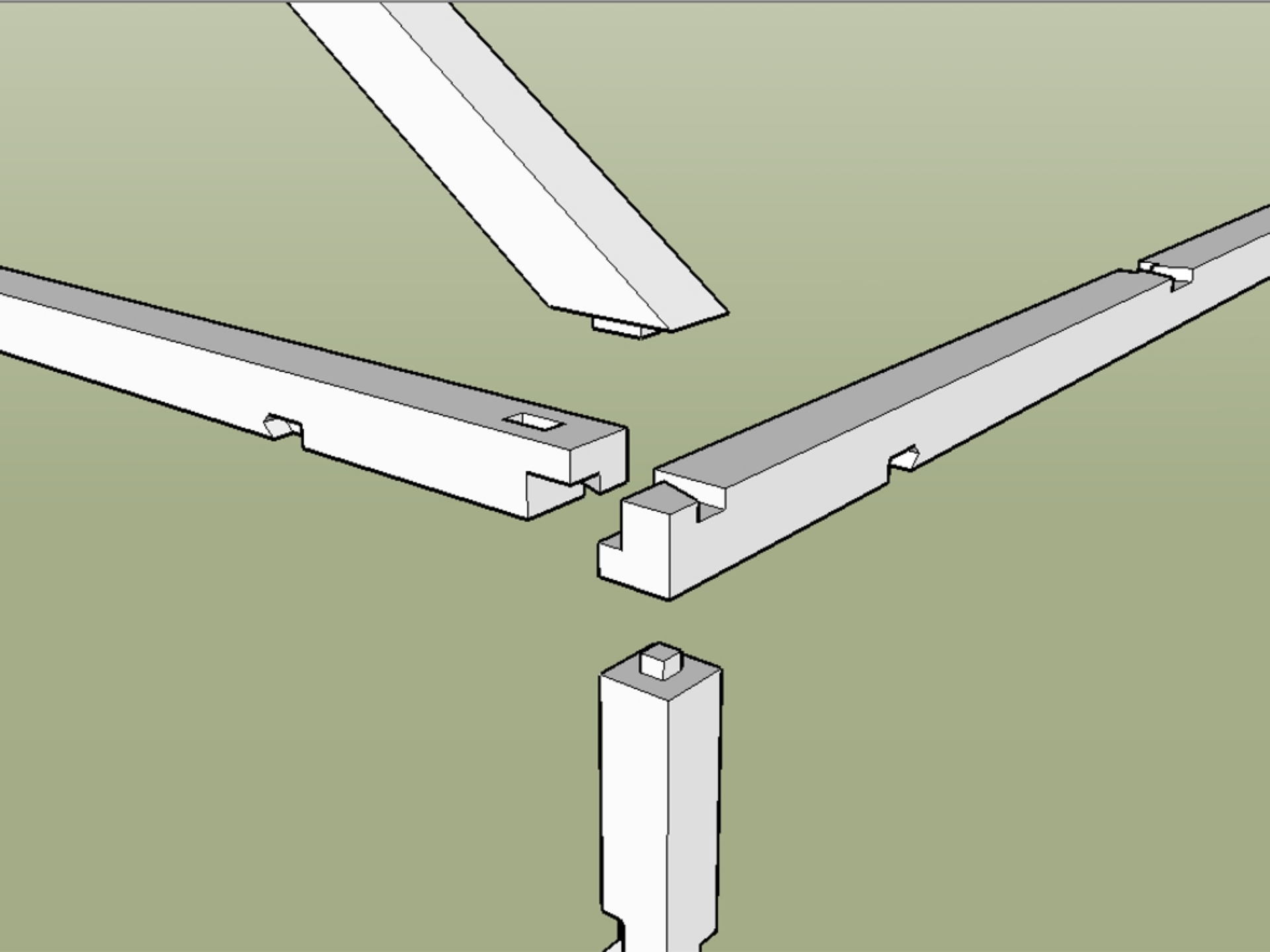
l_s = minimum mortise side wall thickness on one side of tenon (in)

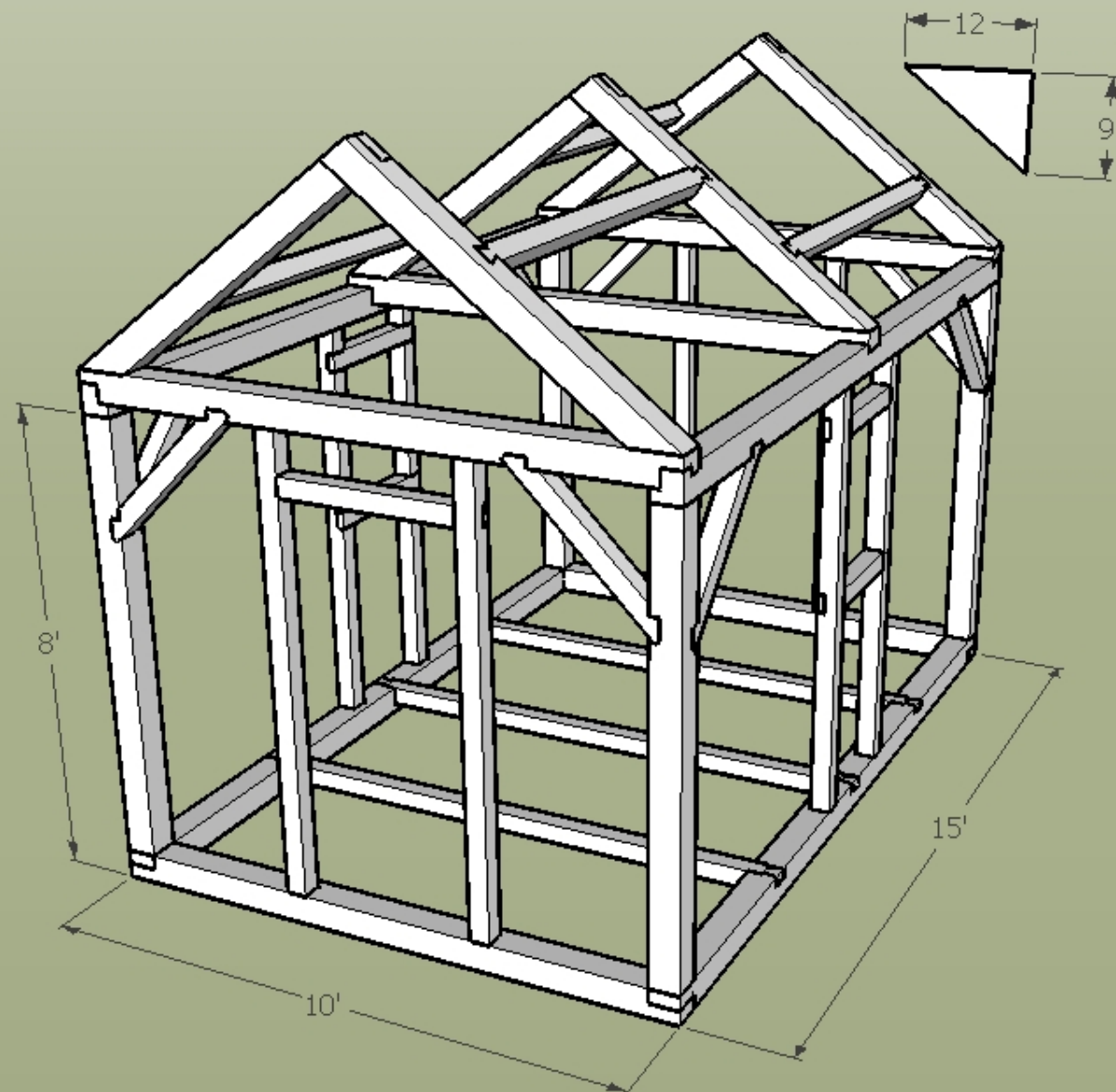




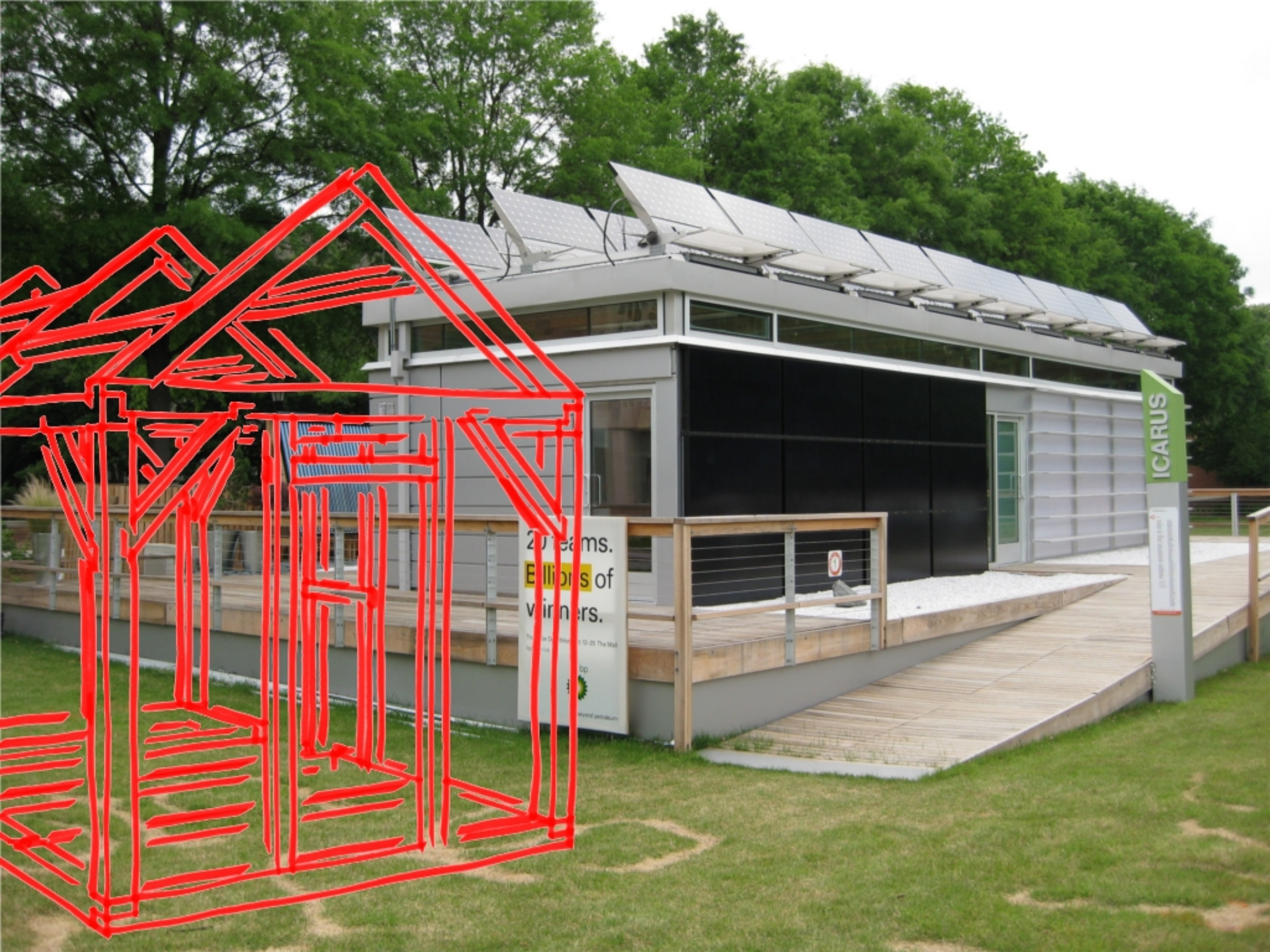












20 years.
Ellipses of
winners.
The Year 20... 10-20 The Mail
...
...
... beyond petroleum

ICARUS
The Year 20... 10-20 The Mail
...
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... beyond petroleum