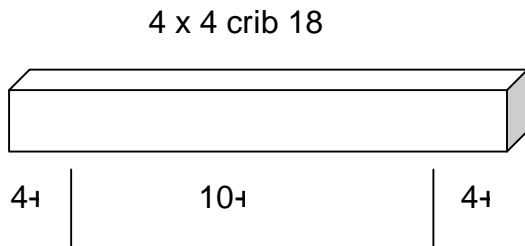


## FEMA Crib Stack Limitations

The cribbing stack height is limited 3 times the length of the base. Remember that there needs to be a 4 inch overlap on each end. Example, an 18 inch piece of cribbing needs 8 inches of overlap leaving a usable base length of 10 inches. Therefore in the example below the max height of the crib stack can only be 30 inches or 2 ½ feet.



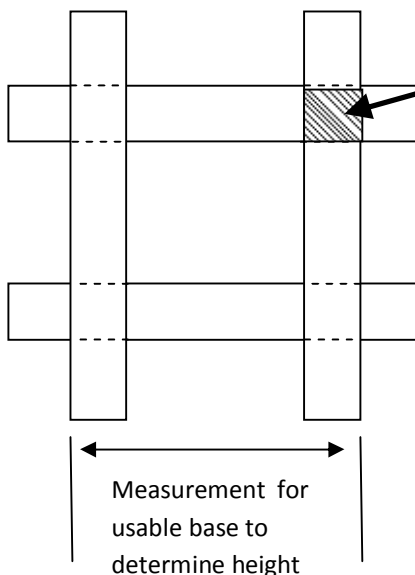
New guidelines from FEMA now limit the crib stack heights to 4 feet for 4x4 lumber and 6 feet for 6x6 lumber. The table below shows the allowable height of a crib stack based on the overall length of the cribbing block.

4 x 4 x 24+	Ok to 4 feet
6 x 6 x 24+	Ok to 4 feet
6 x 6 x 30+	Ok to 5 ½ feet
6 x 6 x 36+	Ok to 6 feet

A rule of thumb for contact area strength is 500 psi.

$3.5 \times 3.5 \times 500 = 6,000 \text{ lbs}$

$5.5 \times 5.5 \times 500 = 15,000 \text{ lbs}$



4 x 4: Each contact point can support 6,000 pounds. A 2 tier crib stack can support 24,000 pounds. A 3 tier stack can support 54,000 pounds.

6 x 6: Each contact point can support 15,000 pounds. A 2 tier crib stack can support 60,000 pounds. A 3 tier stack can support 135,000 pounds.