

**MODULE 2a SHORING BASICS**

**VERTICAL SHORING SYSTEMS (continued)**

**CRIBBING – CAPACITY AND LAYOUT**

**CAPACITY BASED ON CROSSGRAIN BEARING**  
 (VARIES FROM 200 PSI TO 1000 PSI DEPENDING ON WOOD SPECIES  
 500 PSI IS USED HERE - EXAMPLE 500 x 3.5 x 3.5 x 4 = 24,000)

**FOR 2 MEMBER x 2 MEMBER LAYOUT**

4 x 4 CRIB CAPACITY = 24,000 LBS (12 TONS)

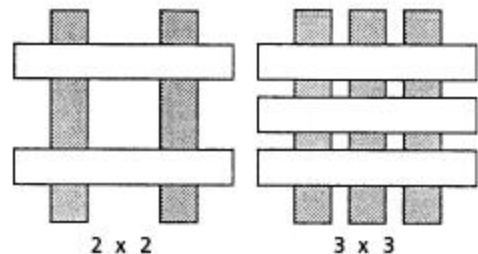
6 x 6 CRIB CAPACITY = 60,000 LBS (30 TONS)

FOR 3 MEMBER x 3 MEMBER CRIB, CAPACITY IS 9/4 AS MUCH  
 500 x 3.5" x 3.5" x 9 = 55,000, 500 x 5.5" x 5.5" x 9 = 136,000



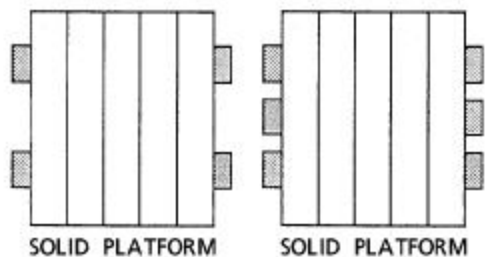
- BOTTOM LAYER SHOULD BE SOLID TO SPREAD THE LOAD ESPECIALLY ON SOIL OR ASPHALT PAVING
- LIMIT HEIGHT TO 3 TIMES WIDTH (SHORTEST WIDTH FOR NON-SQUARE CRIBS)
- OVERLAP CORNERS BY 4 INCHES TO ASSURE SLOW CRUSH TYPE FAILURE

**SHOR-4r 9/98**



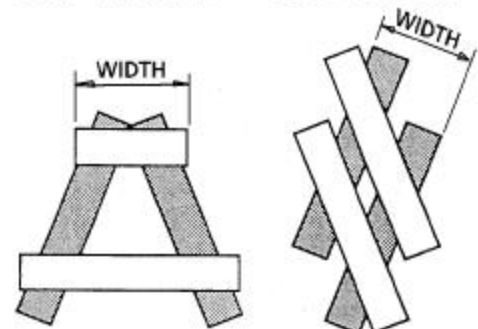
2 x 2

3 x 3



SOLID PLATFORM

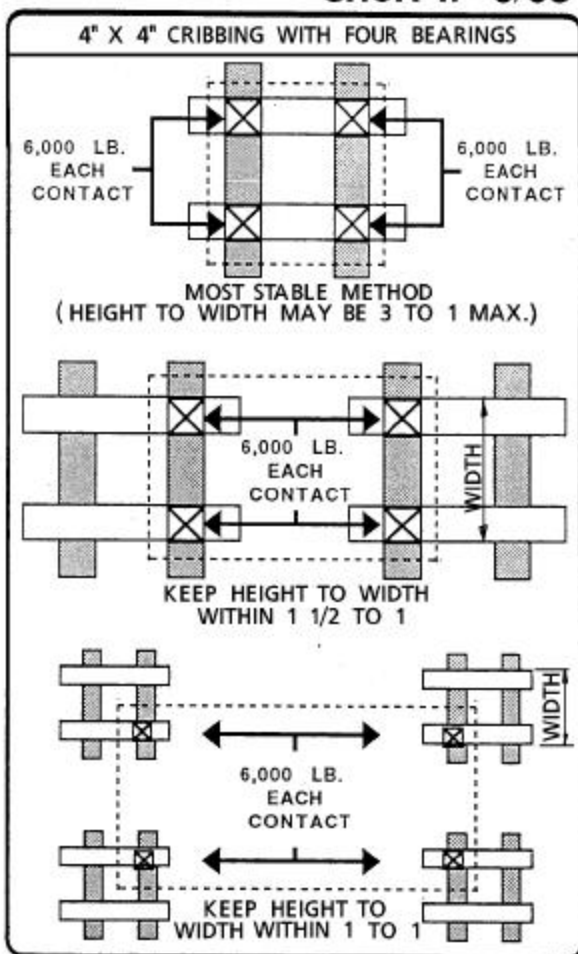
SOLID PLATFORM



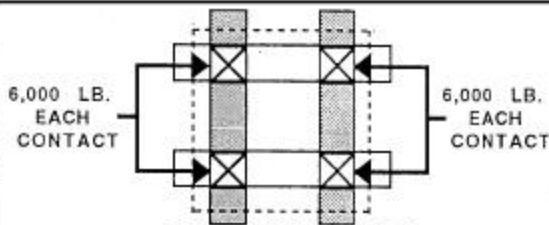
TRIANGLE

PARALLELOGRAM

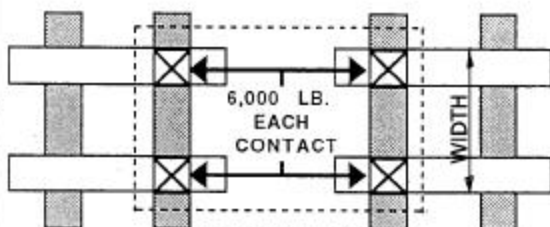
BOTH ARE NOT VERY STABLE, KEEP  
 HEIGHT TO WIDTH WITHIN 1 TO 1



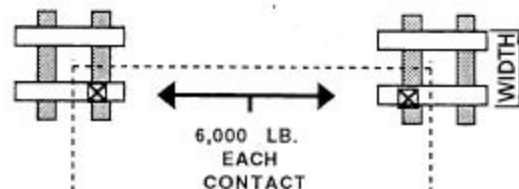
**4" X 4" CRIBBING WITH FOUR BEARINGS**



**MOST STABLE METHOD**  
 (HEIGHT TO WIDTH MAY BE 3 TO 1 MAX.)



KEEP HEIGHT TO WIDTH  
 WITHIN 1 1/2 TO 1



KEEP HEIGHT TO  
 WIDTH WITHIN 1 TO 1