

**US&R STRUCTURES SPECIALIST FOG  
CONSTRUCTING VERTICAL SHORING SYSTEMS**

**Correction to FOG, 7<sup>th</sup> Edition, 2<sup>nd</sup> Printing,  
dated November 2012**

**ADDITIONAL INFORMATION - Cribbing**

1. Height: Maximum = 3 x shortest width.
    - Recommended Max. height for 4x4 systems is 4 feet.
    - Recommended Max. height for 6x6 systems is 6 feet.
  2. Solid bottom layer for soil or asphalt applications.
  3. Overlap corners by at least 4 inches.
  4. Design Load Basis –
    - Cross-grain bearing of the wood (varies from 200 psi to 1,000 psi – Use 500 psi for Douglas Fir and Southern Pine).
    - Load per bearing point.
    - Number of Bearing Points.
    - Design Load Formula:  $L = A \times N \times P$ 
      - L = Load
      - A = Area of single bearing point (sq. in.)
      - N = Number of Bearing Points
      - P = Allowable bearing pressure (psi)
    - Design Load for 4x4 Douglas Fir & Southern Pine.
      - 2 member x 2 member system = 24,000lbs
      - 3 member x 3 member system = 54,000lbs
    - Design Load for 6x6 Douglas Fir & Southern Pine.
      - 2 member x 2 member system = ~~80,000lbs~~ = **60,000lbs**
      - 3 member x 3 member system = ~~180,000lbs~~ = **135,000lbs**
- (correct error in Design Loads as noted here:)***

**US&R SHORING OPERATIONS GUIDE  
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