

WAC 296-806-43006 Use safety blocks on hammers and presses. (1)

You must use safety blocks on hammers and presses when dies are being changed and maintenance or repair work is being done on the machine.

(2) You must provide safety blocks or wedges that meet or exceed the specifications and dimensions shown in Table 430-2.

**Table 430-2
Strength and Dimensions for Wood Safety Blocks or Wedges**

Size of timber inches using actual dimensions	4x4	6x6	8x8	10x10	12x12	
Square inches in cross section	16	36	64	100	144	
Minimum allowable crushing strength parallel to grain, p.s.i.	5,000	5,000	5,000	5,000	5,000	Note: Adapted from U.S. Department of Agriculture Technical Bulletin 479. Hardwoods recommended are those whose ultimate crushing strengths in compression parallel to grain are 5,000 p.s.i. (pounds per square inch) or greater.
Maximum static load within short column range	80,000	180,000	320,000	500,000	720,000	Note: Slenderness ratio formula for short columns is $L/d = 11$, where L = length of timber in inches and d = least dimension in inches; this ratio should not exceed 11.
Safety factor	10	10	10	10	10	
Maximum recommended weight of forging hammer for timber used	8,000	18,000	32,000	50,000	72,000	
Maximum allowable length of timber in inches	44	66	88	100	132	

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 15-24-102, § 296-806-43006, filed 12/1/15, effective 1/5/16; WSR 04-14-028, § 296-806-43006, filed 6/29/04, effective 1/1/05.]