

**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**

<b>Size of timber inches using actual dimensions</b>	<b>4x4</b>	<b>6x6</b>	<b>8x8</b>	<b>10x10</b>	<b>12x12</b>	
<b>Square inches in cross section</b>	<b>16</b>	<b>36</b>	<b>64</b>	<b>100</b>	<b>144</b>	
<b>Minimum allowable crushing strength parallel to grain, p.s.i.</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>Note:</b> 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.
<b>Maximum static load within short column range</b>	<b>80,000</b>	<b>180,000</b>	<b>320,000</b>	<b>500,000</b>	<b>720,000</b>	<b>Note:</b> 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.
<b>Safety factor</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	
<b>Maximum recommended weight of forging hammer for timber used</b>	<b>8,000</b>	<b>18,000</b>	<b>32,000</b>	<b>50,000</b>	<b>72,000</b>	
<b>Maximum allowable length of timber in inches</b>	<b>44</b>	<b>66</b>	<b>88</b>	<b>100</b>	<b>132</b>	

[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.]