

Sheet1

P Enswiler Formula, $P=0.00256 V^2$, where V = Wind Velocity in MPH and
P = the Differential Pressure across the window in Pounds per Square Foot (PSF)
 $0.00256*115*115 = 33.856$ lbs/sq. Ft

Assume height of wall times width of opening is the force applied normal to the
face of the wall. Fibre stress in bending Western white woods is 650lbs/sq. in. (2x4
is 5.25 sq. in.

$$650 * 5.25 = 3412$$

Wall height	Opening width	(End of header) Wall load (lbs)	One King Stud
9	3	457.056	3412
9	6	914.112	3412
9	8	1218.816	3412
9	16	2437.632	3412
8	3	406.272	3412
8	6	812.544	3412
8	8	1083.392	3412
8	16	2166.784	3412