

DESIGN ELEMENT REQUIREMENTS

(Due to Ground Snow loads all buildings must be engineered)

Roof Snow Load	*See spread sheet on page 2 for loads based on elevation
Wind Load	90(3 second gust)
Wind Exposure	C
Seismic Design Category	D*
Floor Load Dwelling	40 lbs/sqft
Frost Depth	36"
Soil Site Class	D***

* All engineering documents must provide site specific Longitude and Latitude and the response acceleration values.

** Snow loads are based on formula adopted by the State of Utah. See Spread sheet with values for elevations within Heber City limits.

*** Soil site class D will be assumed unless conditions appear to warrant a soils report for the site.

Engineering packets should show derived values of S_d s and S_{d1} for the building project.

The engineering needs to be clear, if the packet does not include drawings showing shear walls and beams, etc. then the text must be clear to determine which walls are which and requirements for each shear wall. Pages and pages of computer printout of ambiguous numbers will not meet this requirement.

Engineers wishing to employ perforated shear walls need to include details showing how the openings are to be strapped and nailed.

Wasatch County (1608.1.2)

Heber in shaded area.

$$P_g = (P_o^2 + S^2(A - A_o)^2)^{0.5}$$

Pf= minimum flat roof load

<u>Po</u>	<u>S</u>	<u>Ao</u>		
86	63	5.0		
<u>Elevation</u>	<u>A</u>	<u>Pg</u>	<u>Pf min.</u>	
5000	5.0	86.0	60.2	60.2
5100	5.1	86.2	60.4	60.4
5200	5.2	86.9	60.8	60.8
5300	5.3	88.1	61.6	61.6
5400	5.4	89.6	62.7	62.7
5500	5.5	91.6	64.1	64.1
5600	5.6	93.9	65.8	65.8
5700	5.7	96.6	67.7	67.7
5800	5.8	99.7	69.8	69.8
5900	5.9	103.0	72.1	72.1
6000	6.0	106.6	74.6	74.6
6100	6.1	110.4	77.3	77.3
6200	6.2	114.5	80.2	80.2
6300	6.3	118.8	83.1	83.1
6400	6.4	123.2	86.2	86.2
6500	6.5	127.8	89.4	89.4
6600	6.6	132.5	92.8	92.8
6700	6.7	137.4	96.1	96.1
6800	6.8	142.3	99.6	99.6
6900	6.9	147.4	103.2	103.2
7000	7.0	152.6	106.8	106.8
7100	7.1	157.8	110.5	110.5
7200	7.2	163.1	114.2	114.2
7300	7.3	168.5	117.9	117.9
7400	7.4	173.9	121.8	121.8
7500	7.5	179.4	125.6	125.6
7600	7.6	185.0	129.5	129.5
7700	7.7	190.6	133.4	133.4
7800	7.8	196.2	137.4	137.4
7900	7.9	201.9	141.4	141.4
8000	8.0	207.6	145.4	145.4
8100	8.1	213.4	149.4	149.4
8200	8.2	219.2	153.4	153.4
8300	8.3	225.0	157.5	157.5

Same for : Summit County