

# APPENDIX E

## Snow Load Tables

City of Leadville Snow Load Requirements (Based on Elevation)  
(This table for reference only showing a relationship between pitch and degrees)

Pitch	0	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	13:12	14:12	15:12	16:12
Degrees	0	14.0	18.4	22.6	26.6	30.3	33.7	36.9	39.8	42.5	45	47.3	49.4	51.3	53.1

### Reduced Design Snow Load Based on Roof Pitch in Pounds per Square Foot

Elevation	Snow Load	0	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12	13:12	14:12	15:12	16:12
9000	65	65	65	65	60	60	55	50	45	45	40	40	40	40	40	40
9300	70	70	70	70	65	60	55	55	50	45	40	40	40	40	40	40
9500	75	75	75	75	70	65	60	55	50	50	45	40	40	40	40	40
9700	80	80	80	80	75	70	65	60	55	50	45	45	40	40	40	40
9900	85	85	85	85	80	75	70	65	60	55	50	45	40	40	40	40
10100	90	90	90	90	85	80	70	65	60	55	50	45	40	40	40	40
10300	95	95	95	95	90	85	75	70	65	60	55	50	45	40	40	40
10500	100	100	100	100	95	85	80	75	65	60	55	50	45	40	40	40
10600	105	105	105	105	100	90	85	75	70	65	55	50	45	45	40	40
10800	110	110	110	110	105	95	85	80	70	65	60	55	so	45	40	40
11000	115	115	115	115	110	100	90	80	75	70	60	55	50	45	40	40
11200	120	120	120	120	115	105	95	85	80	70	65	60	50	45	40	40
11300	125	125	125	125	120	110	100	90	80	75	65	60	55	50	45	40
11500	130	130	130	130	125	110	100	90	85	75	70	60	55	50	45	40
11700	135	135	135	135	125	115	105	95	85	80	70	65	55	50	45	40
11800	140	140	140	140	130	120	110	100	90	80	70	65	60	50	45	40
12000	145	145	145	145	135	125	115	100	90	85	75	65	60	55	45	40

Table based on the formula  $R_s = S/40 - \frac{1}{2}$  where

$R_s$  = Snow load reduction in psf per degree of slope over 20 degrees.

$S$  = Design Snow Load in pounds per square foot (psf)

Minimum Snow Load is 40 psf

For lower roofs subject to sliding snow from sloped roofs above, the design load shall be determined from the formula in ASCE 7-02, Section 7.9, published by the American Society of Civil Engineers.