PHILDELPHIA CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

The following chart is intended as a quick reference for the climatic and geographic design criteria governing structural design in Philadelphia. It is drawn from the Philadelphia Building Code and the Philadelphia Residential Code.

| Ground Snow Load | Wind Speed | Winter Design Temp | Ice Barrier Under-layment Required | Flood Hazards | Air Freezing Index | Mean Annual Temp |
|---|---|---|---|---|---|---|
| 25 psf | 90 mph<br>3 second gusts | $14^{o}$ F | No | (a) 1979<br>(b) 8/2/96 | 438 | $55.9^{o}$ F |

| SUBJECT TO DAMAGE FROM | | |
|---|---|---|
| Weathering | Frost Line Depth | Termite |
| Severe | 30 in. | Moderate to heavy |

| SEISMIC VALUES | | | |
|---|---|---|---|
| Seismic Design Category | Seismic Ground Motion Values | | |
| | Spectral Response Acceleration | Site coefficient | Design spectral response acceleration |
| *B | Short period<br>(Ss) 0.28 (28%g) bB | ($F_a$) for Site Class D<br>1.58. | Seismic Design Category for Site Class D based on<br>$S_{DS}$ = 0.295 and<br>$S_{D1}$ = 0.096 |
| | One second<br>($S_1$) 0.06 (6%g) | | |

*SEISMIC DESIGN CATEGORY IS BASED ON OCCUPANCY CATEGORY I /II AND SITE CLASS D OR BETTER. THE SEISMIC DESIGN CATEGORY MUST BE DETERMINED IN ACCORDANCE WITH CHAPTER 11 OF ASCE/ SEI 7-05 FOR OCCUPANCY CATEGORY III/IV OR FOR SITE CLASS E/F.