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 2007 Philadelphia Building Code, Chapter 16, Structural Design; and the 2007 Philadelphia Residential Code Chapter 3, Building Planning, where additional data can be found.

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 3 second gusts	14° F	No	(a) 1979 (b) 8/2/96	438	55.9° F

SUBJECT TO DAMAGE FROM		
Weathering	Frost Line Depth[b]	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
C	Short period (SS) 0.28 (28%g)	(F_a) for Site Class D 1.58.	Seismic Design Category for Site Class D based on S_{DS} = 0.295 and S_{D1} = 0.096
	One second (S_1) 0.06 (6%g)		