

## CITY OF PHILADELPHIA DEPARTMENT OF LICENSES & INSPECTIONS

Construction Services Division - Engineering Services Unit Municipal Services Building - Concourse Level 1401 John F. Kennedy Boulevard Philadelphia, Pennsylvania 19102

## **Structural Design Criteria**

Philadelphia Building Code

All sections below are required to be completed.

PROPERTY ADDRESS:				Application #:	
1.	Floor Live Loads  (160 a) Basement b) First floor: c) Second floor: d) Third floor: e) Additional floors:	= = =	Concentrated (lbs.) = = = = =	Note: Design live loads exceeding 50 psf shall be posted in accordance with the code.  {Live Load Reduction Factor (if any)	
2.	Roof Live Loads (1607	7.11) =	=	=}}	
3.	b) Flat-roof snow lo i) Exposure Fa ii) Thermal Fac iii) Importance c) Sloped Roof Sno	ad, $P_g$ (ASCE 7, 7.2) ad, $P_f$ (ASCE 7, 7.3) ctor, $C_e$ (ASCE 7, 7.3.1) ctor, $C_t$ (ASCE 7, 7.3.2) Factor, I (ASCE 7, 7.3.3) by Load, $P_s$ (ASCE 7, 7.4) Factor, $C_s$ (ASCE 7, 7.4.1)	= 25 psf = = = = =		
4.	= 90mph, (3 set b) Importance Factor i) Occupancy (	ed, V (ASCE 7, 6.5.4) ec. gust) or, I (ASCE 7, 6.5.5) Cat. (ASCE 7, Table 1-1) ory (ASCE 7, 6.5.6)	i) Mean R		
5.	<u>Lateral Soil Load</u> (1610) Unified Soil Classification = Active Pressure =psf At-rest Pressure =psf				
6.	Seismic Importance Factor, I (ASCE 7, Table 11.5-1) =				
7.	g) Basic Seismic-Fo h) Seismic Respons i) Design Base She j) Response Modifi	Basic Seismic-Force Resisting System(s) (ASCE 7, Table 12.2-1) = Seismic Response Coefficient(s), C <sub>s</sub> (ASCE 7, 12.8.1.1) = Seismic Response Shear (ASCE 7, 12.8.1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor, R (ASCE 7, Table 12.2-1) = Seismic Response Modification Factor R (ASCE 7, Table 12.2-1) = Seismic R (ASCE 7, Table 12.2-1) = Seismi			
		Building, structures and parts thereof shall be designed and constructed in accordance with strength design, load and resistance factor design, allowable stress design, empirical design or conventional construction methods, as permitted by the applicable material chapters.  Buildings and other structures, and parts thereof, shall be designed and constructed to support safely the factored loads in load combinations defined in this code without exceeding the appropriate strength limit states for the materials of construction. Alternatively, buildings and other structures, and parts thereof, shall be designed and constructed to support safely the nominal loads in load combinations defined in this code without exceeding the appropriate specified allowable stresses for the materials of construction.  I hereby certify that the statements contained herein are true and correct to the best of my knowledge and belief.  Submission of this form shall not relieve the design professional from determining the effects of all structural loads applied to the structure, in whole or in part, as specified in the Philadelphia Building Code and its referenced standards, including ASCE 7.			
Seal of PA Lic. Design Professional					
		Signature of PA Licensed Design Profe	essional	Date	