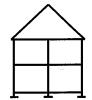
## ASCE/SEI 7-05 Design Criteria Summary

Client: Excel Homes Job Number: EXLH042314-42 **Description:** 31217 Calcs. Location(s): State of ME

Substructure:



Plan Dimensions:		Vertical Dimensions:	Roof Configuration:		
Ridge Length, B =	46.00 ft	Stories Above Grade, n =	2	Framing Type: Cape Truss	
Gable Width, L =	24.00 ft	Max. Blocking Height, h <sub>b</sub> =	18 in.	Roof Slope, a =	12.00 /12 pitch
Module Width, $L_m =$	15.50 ft	Sidewall/Eave Height, h <sub>e</sub> =	244 in.	Sidewall Overhang, L <sub>OH</sub> =	12 i <b>n</b> .
		Min. Mean Roof Height, h =	15 ft	Endwall Overhang, B <sub>OH</sub> =	12 in.
				Roof Cavity Insulation, R =	. 30
Uniformly Distributed Design I	_oads:				
Ground Floor		Roof		Other Floors (above ground)	
Floor Live, L =	40 psf	Top Chord Load =	56.6 psf	Floor Live, L =	40 psf
Floor Dead, D =	10 psf	Top Chord Dead Load =	10 psf	Floor Dead, D =	10 psf
Wall Dead Load, D <sub>w</sub> =	5 psf	Loft Live Load, L =	40 psf	Wall Dead Load, Dw =	5 psf
Wall Height, h <sub>w</sub> =	108 in.	Bottom Chord Dead Load =	10 psf	Wall Height, hw =	96 in.

Misc. Design Parameters:		Seismic Loads:	
Occupancy Category:	II (IBC Table 1604.5)	Seismic Importance Factor, I <sub>E</sub> =	1.00
		Mapped Coefficients: $S_s =$	0.62 g
Roof/Snow Load:		S <sub>1</sub> =	0.15 g
Ground Snow Load, $P_g =$	50.0 psf	Response Coefficients: S <sub>DS</sub> =	0.53 g
Ground Snow Load NY1, Pony =	67.7 psf	S <sub>D1</sub> =	0.22 g
Min. Design Load, Lr =	12.0 psf	Site Class =	D
Flat-Roof Snow Load, P <sub>f</sub> =	38.5 psf	IBC Design Category =	D
Sloped Roof Snow Load =	29.6 psf	IRC Design Category =	С
Max. Unbalanced Load, Pub =	56.6 psf	Basic Seismic-Force-Resisting System:	
Snow Exposure Factor, C <sub>e</sub> =	1.0	A13 Light-frame walls with	wood shear panels
Snow Load Importance Factor, Is =	1.00	Response Modification Factor R =	6.5
Thermal Factor, $C_t =$	1.1	Design Base Shear C <sub>s</sub> =	0.08 W

### Wind Loads:

Basic Wind Speed = 100 mph Wind Exposure = С Wind Importance Factor, I<sub>W</sub> = 1.00 Internal Pressure Coefficient = +/- 0.18 Mean Roof Height = 28.3 ft

Components and Cladding Loads:

	End Zone	Interior Zone	
Component	(psf)	(psf)	
Window	+24.8 / -33.2	+24.8 / -26.9	
Door	+23.9 / -31.4	+23.9 / -26	
Roof Cladding	+22.7 / -29	+22.7 / -24.8	
Overhang	-42.1	-42.1	

# Seismic Loads:

ocialilic Louds.					
Seismic Importance Fac	tor, I <sub>E</sub> =	1.00			
Mapped Coefficients:	S <sub>s</sub> =	0.62	g		
	S <sub>1</sub> =	0.15	g		
Response Coefficients:	$S_{DS} =$	0.53	g		
	$S_{D1} =$	0.22	g ·		
Site Class = D					
IBC Design Cat	egory =	D			
IRC Design Cat	egory =	С			
Basic Seismic-Force-Resisting System:					
A13 Light-frame walls with wood shear panels					
Response Modification Fac	ctor R =	6.5	*		
Design Base She	ar C <sub>s</sub> =	0.08	W		
Analysis Pro	cedure:				
A13 Light-frame w	alls with v	vood she	ar panels		

### Flood Loads:

Site Specific flood loads have not been assessed in this analysis. For Buildings located in flood hazard areas, as established in Section 1612.3 of the IBC, floods loads must be considered as required by Section 1612 of the IBC. Furthermore, when required, the design information required by IBC section 1603.1.6 must be provided on the construction documents.

### NOTES:

1. Equivalent ground snow load at a thermal factor of 1.0 for use with the NYBC/NYRC ground snow load map.

**PFS** Corporation Northeast Region **APPROVED** R Wenner - 1 5/15/14

**Approval limited to Factory Built Portion**