

## **ENGINEERING DESIGN CRITERIA FORM**

(MUST BE LISTED ON THE DRAWINGS AND/OR CALCULATIONS COVER PAGE)

OWNER'S NAME:			:	REVIEW # (office use):						
SITE ADDRESS:				TAX PARCEL NUMBER:						
CONTACT PERSON:				Phone:						
Mailing Address:				Fax #:						
Firm or Company Name:		E-Mail:								
LIVELOA	DEAD LOADS:									
LIVE LOA	DEAD LOADS:									
FLOOR: ROOF SNOW LOAD:	psf:		FLOOR: psf:							
SEISMIC LOADS:			ROOF: psf: WIND LOADS:							
<b>S</b> s =			3-SECOND GUST:							
DESIGN CATEGORY:			EXPOSURE:							
SITE CLASS:			SOIL BEARING:							
GROUND SNOW LOAD: The design snow loads shall be determined in accordance with the current edition of Section 7 of ASCE-7. Ground snow load for the City of Roslyn is designated by ordinance at 130 PSF.  ELEVATION: X ISO LINE: = GROUND SNOW LOAD (Pg): PSF										
FLAT ROOF SNOW LOADS: Pf = (0.7)(Ce)(Ct)(I)(Pg). The flat roof snowload, Pf, on a roof with a slope equal to or less than 5 degrees shall be calculated in accordance with Section 7.3 of ASCE-7 using the above formula.										
Heated Areas of Structure:										
Pf = (0.7)	( Ce)	( Ct _	) (	I	)	(Pg)				
Unheated Areas of Structure:										
Pf = (0.7)	( Ce)	( Ct _	) (	I	)	(Pg)				
Exposure Factor, Ce.  The value for Ce is determined by ASCE 7 Table 7-2.  (Note: Ce must be 1.2 in sheltered areas if trees are within 10h of the structure,										
where h is height of tree above the roof line).  Thermal Factor, Ct.  The value for Ct is determined by ASCE 7 Table 7-3.  (Note: Ct must be 1.1 for heated structures and 1.2 for unheated structures).  The value for I is determined by ASCE 7 Table 7-4.										
Rain-on-Snow Surcharge.	Roofs with a slope less	s than 1	2-inch per foot sha	all be design		surcharge				
Ponding Instability.	load determined in accordance with Section 7.10 of ASCE-7.  Roofs with a slope less than ¼ -inch per foot shall be designed for ponding instability in accordance with Section 7.11 of ASCE 7.									

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shall be calculated in accordance factor, are determined from Section.  Caution! Be aware material and if the sin valleys or where	ce with Stions 7.4 that rooms	Section 7.4 4.1 through of slope re an slide un	of ASCE-7 us 7.4.4 of the A eductions vary obstructed o	ng the all SCE-7.  y accord  ff the roo	bove formuing to the of at the ea	lla. Values fo slipperiness aves. Do no	r Cs, the s of the i t reduce	sloped roof roofing snowloads				
Warm Roof Slope Factor, Cs.		Ps _		=		)						
Cold Roof Slope Factor, Cs.		Ps _		=	( Cs	)	(Pf	)				
PARTIAL LOADING: The effect of not having the balanced snow load over the entire loaded roof area shall be analyzed in accordance with Section 7.5 of ASCE-7.												
Partial Loading Shall be Calculated?		Done	If yes, incl include he				a is too	lengthy to				
UNBALANCED SNOW LOADS ASCE-7.	3: Unb	alanced ro	of snow loads	shall be	determined	d in accordan	ce with S	Section 7.6 of				
Unbalanced Loads Shall be Calculated?		Done	Include for include he			rmula is to .6 ASCE-7.	o lengtl	hy to				
DRIFTS ON LOWER ROOFS: be designed to sustain localized								sf, roof shall				
Drifting Loads Shall be Calculated?		Oone	Include for include he			e formula i: .7 ASCE-7.	s too le	ngthy to				
<b>SLIDING SNOW LOADS:</b> The extra load caused by snow sliding off a sloped roof onto a lower roof shall be determined in accordance with Section 7.9 of ASCE-7.												
Sliding Snow Loads Shall be Calculated?		Done				rmula is to .9 ASCE-7.	o lengtl	hy to				