

KITTITAS COUNTY COMMUNITY DEVELOPMENT SERVICES

B-004

BULLETIN

411 NORTH RUBY STREET SUITE #2 ■ ELLENSBURG, WA 98926 PHONE (509) 962-7506 ■ FAX (509) 962-7682

ENGINEERING DESIGN CRITERIA FORM

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

FOR MORE INFORMATION VISIT THE CDS WEBSITE AT: <u>www.co.kittitas.wa.us/</u>cds

OWNER'S NAME: DA		DATE	:	REVIEW # (office use):					
SITE ADDRESS:				TAX PARCEL NUMBER:					
CONTACT PERSON:		Phone:							
Mailing Address:				Fax #:					
Firm or Company Name:				E-Mail:					
LIVE LOA	DS:		DEAD LOADS:						
FLOOR:	psf:		FLOOR:	OOR:		psf:			
ROOF SNOW LOAD:	Pf:		ROOF:		psf:				
SEISMIC LO	ADS:		WIND LOADS:						
Ss =	S1 =		3-SECOND GUST:						
DESIGN CATEGORY:			EXPOSURE:						
SITE CLASS:			SOIL BEARING:						
7 of ASCE-7. Contact the KCCDS for ground snowload (509) 962-7506. 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,									
Thermal Factor, Ct.	where h is height of tree above the roof line). hermal 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).								
Importantance Factor, I.									
Rain-on-Snow Surcharge.	Rain-on-Snow Surcharge. Roofs with a slope less than ½-inch per foot shall be designed for a surcharge								
						surcharge			
Ponding Instability.	load determined in acc Roofs with a slope less instability in accordance	ordanc than ½	e with Section 7.4 -inch per foot sh	10 of ASCE-7 nall be design	7.	_			

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 that results	Section 7.4 .4.1 through cof slope re can slide un	of ASCE-7 using 7.4.4 of the ASC eductions vary anobstructed off	the abcero	oove formula ing to the sof at the <u>eav</u>	a. Values for slipperiness ves. Do no	r Cs, the s of the r t reduce	sloped roof roofing snowloads	
Warm Roof Slope Factor, Cs.		Ps_		=)			
Cold Roof Slope Factor, Cs.		Ps_		=	(Cs)	(Pf)	
PARTIAL LOADING: The effect analyzed in accordance with Se	ct of no	t having the	balanced snow.7.	oad ov	er the entire	e loaded roo	of area sh	nall be	
Partial Loading Shall be Calculated?		Done	If yes, include include here				a is too	lengthy to	
UNBALANCED SNOW LOADS ASCE-7.	3: Un	balanced ro	of snow loads sh	all be o	determined	in accordan	ce with S	Section 7.6 of	
Unbalanced Loads Shall be Calculated?		Done	Include form include here				o length	ny to	
DRIFTS ON LOWER ROOFS: In areas where the ground snow load, Pg, is equal to or greater than 5psf, roof shall be designed to sustain localized loads from snow drifts in accordance with Section 7.7 of ASCE-7.									
Drifting Loads Shall be Calculated?		Done	Include form include here				s too lei	ngthy to	
SLIDING SNOW LOADS: The determined in accordance with \$				off a sl	oped roof o	nto a lower	roof shall	l be	
Sliding Snow Loads Shall be Calculated?		Done	Include form include here				elength	y to	