



KITTITAS COUNTY COMMUNITY DEVELOPMENT SERVICES

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"Building Partnerships--- Building Communities"

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

RECIPIENT: [Redacted]

Date: 12/01/2023

Tax ID: 19-16-04020-002
 346534

Site Address: 29180 HWY 10, Cle Elum, WA 98922

2018 IRC Table R301.2(1) (SEE KCC SECTION 14.04.020 FOR FOOTNOTES)

GROUND SNOW LOAD	WIND SPEED (d) (mph)	SEISMIC DESIGN CATEGORY (f)	WEATHERING (a)	FROST LINE DEPTH (b)	TERMITE (c)	WINTER DESIGN TEMP(e)	ICE BARRIER UNDERLAYMENT REQUIRED(h)	FLOOD HAZARDS (g)	AIR FREEZING INDEX(i)	MEAN ANNUAL TEMP(j)
Min. 30 psf Roof (Pf)	110 Vult	C, D0 and D1 are present	Severe	24"	Slight to Moderate	2F	Yes		1,000-2,000	50 F

SNOW LOAD INFORMATION

Elevation: 1828 X ISO 0.053 = Ground Snow Load (PG): 97 psf

Roof Snow Load Formula (PF)= (0.7)(CE)(CT)(I)(PG)

Exposure Factor (Ce)	Thermal Factor (Ct)	Importance Factor (I)
1	1.1 Heated	1
1	1.2 Unheated	1

Roof Snow Load (Pf)
75 psf For Heated Structures
81 psf For Unheated Structures

ALSO, See ASCE 7.10 For Other Snow Load Issues

Section 7.4 Pitch Reduction. Do not reduce where snow cannot slide off roof. (Valley, Pitch Breaks, e

Section 7.6 Unbalanced Roof Snow Loads.

Section 7.7 Drifts on Lower Roofs/ Decks.

Section 7.9 Sliding Snow ON Lower Roofs/Decks.

OTHER DESIGN CRITERIA:

Building Code	2018 IBC & 2018 IRC
Wind Speed	110 MPH
Exposure:	B <input type="checkbox"/> C <input checked="" type="checkbox"/>
	Check One

Prescriptive IRC

Seismic Zone	C <input type="checkbox"/> D0 <input type="checkbox"/> D1 <input checked="" type="checkbox"/>
Roof Class:	A <input checked="" type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/>
Frost Depth:	24 Inches
	Check One

See 2018 Washington State Energy Code Climate Zone 5 (see <http://www.energy.wsu.edu>)