



COMMUNITY DEVELOPMENT SERVICES
Building Partnerships — Building Communities

411 N Ruby Street, Suite 2
Ellensburg, WA 98926
cds@co.kittitas.wa.us
509-962-7506

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

Recipient:

Date:

Tax ID:

Parcel Number:

Site Address:

2015 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	110	C, D0 & D1 are present	Severe	24"	Slight to Moderate	2°F	Yes	A through C	1,000–2,000	50°F

Snow Load Information

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

ELEVATION
X ISO

<input type="text"/> COEFF	<input type="text"/> (CE) EXPOSURE FACTOR	<input type="text"/> Heated <input type="text"/> Unheated (CT) THERMAL FACTOR	<input type="text"/> (I) IMPORTANCE FACTOR	<input type="text"/> psf (PG) GROUND SNOW LOAD	=	<input type="text"/> psf For Heated Structures <input type="text"/> psf For Unheated Structures (PF) ROOF SNOW LOAD
-------------------------------	--	---	---	---	---	--

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, etc)

Section 7.6 Unbalanced Roof Snow Loads.

Section 7.7 Drifts on Lower Roofs/ Decks.

Section 7.9 Sliding Snow ON Lower Roofs/Decks.

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

Other Design Criteria

Building Code: 2018 IBC & 2018 IRC

Wind Speed: 110 MPH

Exposure: ☐ B ☐ C

Prescriptive IRC

Seismic Zone:

Roof Class:

Frost Depth: 24 inches