



STATE OF WASHINGTON
STATE BUILDING CODE COUNCIL

1. State Building Code to be Amended:

- | | |
|--|---|
| <input type="checkbox"/> International Building Code | <input type="checkbox"/> International Mechanical Code |
| <input type="checkbox"/> ICC ANSI A117.1 Accessibility Code | <input type="checkbox"/> International Fuel Gas Code |
| <input type="checkbox"/> International Existing Building Code | <input type="checkbox"/> NFPA 54 National Fuel Gas Code |
| <input checked="" type="checkbox"/> International Residential Code | <input type="checkbox"/> NFPA 58 Liquefied Petroleum Gas Code |
| <input type="checkbox"/> International Fire Code | <input type="checkbox"/> Wildland Urban Interface Code |
| <input type="checkbox"/> Uniform Plumbing Code | For the Washington State Energy Code, please
see specialized energy code forms |

Section(s): R301

Title: Design criteria

2. Proponent Name (Specific local government, organization or individual):

Proponent: IRC TAG

Title: TAG

Date: 12/12/2018

3. Designated Contact Person:

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4. Proposed Code Amendment.

Code(s): IRC Section(s) Design criteria

Amend section to read as follows:

Table R301.2(1) Climatic and Geographic Design Criteria

BUILDING PLANNING

**TABLE R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

GROUND SNOW LOAD ^a	WIND DESIGN		SBSMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM WEATHERING ^b		WINTER DESIGN TEMP ^c		ICE BARRIER UNDERLAMENT REQUIRED ^d	FLOOD HAZARD ^e	AIR FREEZING INDEX ^f	MEAN ANNUAL TEMP ^g
	Speed ^h (mph)	Topographic effect ⁱ		Special wind region ^j	Windborne debris zone ^k	Weathering ^l	Freeze/thaw depth ^m				
Elevation		Latitude	Winter heating	Summer cooling	Altitude correction factor	Indoor design temperature	Design temperature cooling				
Cooling temperature difference		Wind velocity heating	Wind velocity cooling	Coincident wetbulb	Daily range	Winter humidity	Summer humidity				

- MANUAL J DESIGN CRITERIA^a**
- For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.
- Where weathering requires a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code, the frost line depth strength required for weathering shall govern. The weathering column shall be filled in with the weathering index, "negligible," "moderate," or "severe" for concrete as determined from Figure R301.2(4). The grade of masonry units shall be determined from ASTM C39, C55, C62, C73, C90, C129, C145, C216 or C662.
 - Where the frost line depth requires deeper footings than indicated in Figure R403.1(1), the frost line depth strength required for weathering shall govern. The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
 - The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.
 - The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(5)A]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.
 - The outdoor design dry-bulb temperature shall be selected from the columns of 97.4-percent values for winter from Appendix D of the *International Plumbing Code*. Deviations from the Appendix D temperatures shall be permitted to reflect local climates or local weather experience as determined by the building official. [Also see Figure R301.2(1)].
 - The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.
 - The jurisdiction shall fill in this part of the table with (a) the date of the jurisdiction's entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas), (b) the date(s) of the Flood Insurance Study and (c) the panel numbers and dates of the currently effective FIRMs and FBIRMs or other flood hazard map adopted by the authority having jurisdiction, as amended.
 - In accordance with Sections R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO."
 - The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (BF-index) from Figure R403.3(2) or from the 100-year (99 percent) value on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."
 - The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."
 - In accordance with Section R301.2.1.5, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
 - In accordance with Figure R301.2(5)A, where there is local historical data documenting unusual wind conditions, the jurisdiction shall fill in this part of the table with "YES" and identify any specific requirements. Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
 - In accordance with Section R301.2.1.2 the jurisdiction shall indicate the wind-borne debris wind zone(s). Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
 - The jurisdiction shall fill in these sections of the table to establish the design criteria using Table 1a or 1b from ACCA Manual J or established criteria determined by the jurisdiction.
 - The jurisdiction shall fill in this section of the table using the Ground Snow Loads in Figure R301.2(6).

5. Briefly explain your proposed amendment, including the purpose, benefits and problems addressed.

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6. Specify what criteria this proposal meets. You may select more than one.

- The amendment is needed to address a critical life/safety need.
- The amendment clarifies the intent or application of the code.
- The amendment is needed to address a specific state policy or statute.
- The amendment is needed for consistency with state or federal regulations.
- The amendment is needed to address a unique character of the state.
- The amendment corrects errors and omissions.

7. Is there an economic impact: Yes No

Explain:

Please send your completed proposal to: sbcc@des.wa.gov

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.