

EXHIBIT “A”

**Chapter 2.02
BUILDING CODE**

2.02.185 Amendment to IBC Section 1612.3 – Establishment of Flood Hazard Areas.

1612.3 Establishment of Flood Hazard Areas. The City of Tacoma hereby adopts the most flood study and accompanying flood insurance rate map(s) (FIRM) with any revisions thereto for Pierce County, Washington and Incorporated Areas published by Federal Emergency Management Agency Region X that delineate areas of special flood hazards and include the risk premium zones applicable to the City of Tacoma. The City of Tacoma also additionally adopts the Puyallup Levee Overtopping layer established by the 2007 FEMA Region X Flood Insurance Study and accompanying Flood Insurance rate map for Pierce County, Washington and Incorporated Areas. The adopted flood hazard map and supporting data area hereby adopted by reference and declared to be part of this section.

Where the flood insurance map and studies do not provide adequate information, the City, through Planning and Development Services, shall consider and interpret information produced by the Army Corps of Engineers, Natural Resource Conservation Service, Department of Housing and Urban Development, or any other qualified person or agency to determine the location of the Flood Hazard areas and Coastal High Hazard Areas. Designation as Coastal A Zone(s) shall be determined by the maps on file with City of Tacoma Planning and Development Services Permit Services.

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2.02.590 Amendment to IRC Table R301.2 (1) – Climatic and geographic design criteria.

TABLE R301.2 (1)

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

| ROOF SNOW LOAD | WIND DESIGN | | | | SEISMIC DESIGN CATEGORY | SUBJECT TO DAMAGE FROM | | | WINTER DESIGN TEMP ^e | ICE BARRIER UNDER-LAYMENT REQUIRED ^h | FLOOD HAZARDS ^g | AIR FREEZING INDEX ⁱ | MEAN ANNUAL TEMP ^j |
|----------------|--------------------------|----------------------------------|----------------------------------|-------------------------------------|-------------------------|-------------------------|-------------------------------|----------------------|---------------------------------|---|--|---------------------------------|-------------------------------|
| | Speed ^d (mph) | Topographic effects ^k | Special wind region ^l | Wind-borne debris zone ^m | | Weathering ^a | Frost line depth ^b | Termite ^c | | | | | |
| 25 | 110 | K _{zt} =2 | No | No | D ₁ | Moderate | 12 in | Moderate to Heavy | 20° F | No | Adoption: 3/25/1986; Flood Insurance Studies: 2017 FIRM and Puyallup Levee Overtopping layer from 2007 FIRM map | 350 | 50° F |
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For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

- a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering column shall be filled in with the weathering index “negligible,” “moderate” or “severe” for concrete as determined from Figure R301.2 (3). The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652.
- b. The frost line depth may require deeper footings than indicated in Figure R403.1 (1). The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
- c. 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.
- d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2 (4)A]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.
- e. The outdoor design dry-bulb temperature shall be in accordance with the Washington State Energy Code, as adopted and amended by the City of Tacoma in TMC Chapter 2.10.

- f. The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.
- g. 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 date(s) of all currently effective FIRMs and FBFMs, or other flood hazard map adopted by the community, as amended.
- h. In accordance with Sections R905.1.2, R905.5.3.1, R905.7.3.1, 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."
- i. The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (BF-days) from Figure R403.3(2) or from the 100-year (99%) value on the National Climatic Data Center data table "Air Freezing Index- USA Method (Base 32°Fahrenheit)".
- j. 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°Fahrenheit)".
- k. Topographical effects shall be considered by performing a topographical analysis or using the topographical effects as published on the City of Tacoma Web Site. The appropriate KZT factor shall be applied and the analysis shall be in accordance with the provisions of the International Building Code and/or ASCE 7-05.