TABLE R301.2 CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

| GROUND SNOW LOAD a (psf) | WIND DESIGN | | | | | SEISMIC | | SUBJECT TO DAMAGE FROM | | | RIER /MENT | FLOOD HAZARD ^f | AIR FREEZING | MEAN ANNUAL TEMP | |
|-----------------------------------|--------------------------|---|----------------------------|---------------------|--|----------------|---|------------------------|---|--------------------------|--|------------------------------|-----------------|--------------------------------|--|
| | Speed ^b (mph) | | | Special wind region | Windborne debris zone | CATEGOR | | Frost lin | | UNDERLAYMENT REQUIRED | | HAZARD | INDEX | ANNOAL TEMP | |
| 25 | 98 | | Yes | No | No | D ₂ | Moderate | 18" | Slight to Moderate | No | | See footnote ^f | 170 | 51 °F | |
| | MANUAL J DESIGN CRITERIA | | | | | | | | | | | | | | |
| Elevation | | | Altitude correction factor | | Coincident wet bulb | | Indoor winter design dry- bulb temperature | | Indoor winter design dry- bulb temperature | | Outdoor winter design dry- bulb temperature | | - | Heating temperature difference | |
| 459 feet | | | 0.99 | | 66 °F | | 72 °F | | 72 °F | | 24 °F | | | 48 °F | |
| Latitude | | | Daily Range | | Indoor summer design relative humidity | | Summer design gains | | Indoor summer design dry-bulb temperature | | Outdoor summer design dry-bulb temperature | | n | Cooling temperature difference | |
| 47°53' | | М | | 50% | | 5 | | 75 °F | | 83 °F | | | 8 °F | | |

- a. Design snow loads shall be determined in accordance with King County Public Rule 16-04 Structural Loading: Minimum Roof Snow Loads. P = C *h where P = ground snow load, C = ground snow load coefficient determined by interpolating the isolines established in the "King County Ground Snow Load Map," and h site elevation in feet above sea level, but the design roof snow load shall not be less than 25 psf.
- b. The basic wind speed is determined from the basic wind speed map in Figure R301.2(2) and reflects the ultimate design wind speed. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4 or by the Engineer of Record
- c. Topographic effects (Wind Speed-up Kzt factor) shall be determined on a site-specific basis in accordance with Section R301.2.1.5 or by the Engineer of Record.
- d. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The grade of masonry units shall be determined from ASTM C34, C55, C62, C73, C90, C129, C145, C216 or C652.
- e. The frost line depth may require deeper footings. Designer to verify if deeper frost depth is required based on geotechnical reports and studies.
- f. The City of Newcastle participates in the National Flood Insurance Program (NFIP). Areas of special flood hazard shall be determined per Newcastle Municipal Code Chapter 14.25.