



City of Flagstaff  
Building Safety & Code Compliance Section  
211 West Aspen Avenue  
Flagstaff, Arizona 86001  
<https://www.flagstaff.az.gov/494/Building-Safety>

## **BUILDING DESIGN CRITERIA (One- and two-family dwellings only)**

**Below is the design criteria from 2018 International Residential Code (IRC) Table R301.2(1) as amended by City of Flagstaff.** For structures not covered by IRC, you must use design criteria in 2018 International Building Code (IBC) and City of Flagstaff Amendments to IBC.

Ground snow load: 60 psf  
Wind design – Speed (mph): 115  
Wind design - Topographic Effects: NO  
Wind design – Special wind region: NO  
Wind design – Windborne debris zone: NO  
Seismic design category: C  
Subject to damage from – Weathering: Moderate  
Subject to damage from – Frost line depth: 30 inches  
Subject to damage from - Termite: Moderate to heavy  
Winter design temperature: 4 degrees F  
Ice barrier underlayment required: YES  
Flood hazards: a)12-16-1975, b)01-19-1983, c)09-03-2010\*  
Air freezing index: 1013  
Mean annual temperature: 45.4 degrees F

Residential heating and cooling equipment sizing using Manual J is optional per 2018 IRC M1401.3. When opting to use ACCA Manual J for HVAC system design, the criteria shall be from ACCA Manual J, Table 1A for Arizona, Flagstaff AP.

\*The flood hazard dates reflect the current National Flood Insurance Program and the date of the currently effective "FIRM" Map (used by the City of Flagstaff). These maps are updated by the issuing agency and adopted by Flagstaff Water Services - Stormwater Management without notice.