

## **Design Criteria**

Current Codes\*:

- 2021 Washington State Building Code
- 2021 Washington State Residential Code
- 2021 Washington State Existing Building Code
- 2021 Washington State Fire Code
- 2021 Washington State Mechanical Code
- 2021 Washington State Fuel Gas Code
- 2021 Uniform Plumbing Code
- 2021 Washington State Commercial Energy Code
- 2021 Washington State Residential Energy Code
- 2021 Washington State Pool and Spa Code
- Accessible & Usable Buildings & Facilities ICC A117.1-2017

*\*In addition, see the Yakima Municipal Code for any amendments to the codes listed above*

### **Wind Speed=**

Residential=110 mph (or, 85 mph for ASD)

Commercial=Reference ASCE 7-16 and IBC Chapter 16, usually 110 mph for category II

### **Earthquake Zone =**

Residential (IRC Structures) = C

Commercial = D

Exception: If your plan is for a building or buildings in risk categories I, II, or III (2018 IBC Table 1604.5) *and* is of light frame construction per IBC chapter 23, the design may be according to Earthquake Zone C.

**Frost Depth** = 24” below grade

**Ground Snow Load** = 19 psf

**Roof Snow Load** = 20 psf for elevations 1,166 ft or under; 25 psf for elevations about 1,166 ft

**Weathering** = Severe

**Termite Damage** = Slight to Moderate

**Winter Design Temperature** = 11 deg.

**Ice Barrier Underlayment Required** = Yes

**Flood Hazards** = View current Flood Insurance Rate Map: <https://msc.fema.gov/portal/home>

**Air Freezing Index** = 1011

**Mean Annual Temperature** = 49.7 deg.

**Electrical permits are applied for/issued by Washington State Labor & Industries: 509-454-3760.**