

# Design Element Criteria for Wasatch County

Governing Codes:  
2021 IRC  
2021 IBC  
2023 NEC

ResCheck--2015, 2018 or 2021 IECC. May also use the Utah Energy Conservation Code (if used needs to have a passing score of 5% or better)  
2009 ANSI A117

- A. One and two family dwellings and townhomes (zero lot line one family dwellings)  
**2021 IRC.** Engineered residential structures- Section 2308 2021 IBC
- B. All other buildings and structures shall conform to the **2021 Codes and 2023 NEC**

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	Speed(mp h) (3-sec. gust)	Topographic effects		Weathering	Frost line depth	Termit					
Varies Use link	115	C	D	N/A	36	N/A	Varies	YES	FIRM 3/15/2012	99%	44.4°

Construction Documents (plans) are to include the following information (2021 IBC 1603.1)

1. Floor and roof dead and live loads –
2. Ground snow load Pg. Is to be determined using the calculator found at site below.

2018 Utah Ground Snow Load Map



(<https://utahsnowload.usu.edu/>)

3. Basic design wind speed V (mph) 115mph
4. Seismic design category
5. Site class –D-default.
6. Flood design data, if in a flood hazard areas established in Section 1612.3
7. Design load-bearing values of soil –
8. Rain load data –can be found at this site: <https://asce7hazardtool.online/>