

Manual J and Manual D
Design Criteria for Ogden, Utah
Latitude 41°15'N Longitude 111°57'W

Typically, Manual J and D software programs default to Ogden HAFB design criteria for the Ogden City area. The City will accept reports based upon the Ogden HAFB default. Or utilize the Ogden City specific design criteria provided below.

Elevation: 4,350 (Ogden Power House) ¹
Weather Barrier Required (Ice shield required) ²
Roof Snow Load: 43-50#/SF up to 5,000 feet in elevation (contact City with address)
Wind: Either 115 or 120 mph, 3 second gust, Exposure C (depending upon the currently-adopted IBC risk category, explained in Section 1609 ²
Seismic Design Category: D or E (unless analysis provided) ²
Frost line depth: 30" ²
Termites: slight ²
Flood hazards: (Contact Ogden City Planning with address)
Outside winter design temperature: 5° F, design db 97 ½% ³
Air Freezing Index: 868 (based on 100 year 99%) ¹
Mean Annual Temperature: 51.4° F ¹
Heating Degree Days (below 65° F: 6012) ³
Heating: 3° F db 97 ½ % (outside) ⁴
Cooling: 97° F db 97 ½ % (outside) ⁴
Inside: db 70° F Heating, 75° F Cooling ⁴
Design Temperature Difference: 67° heating, 22° cooling ⁴

RESOURCES:

- 1) NOAA Air Freezing Index
- 2) IBC
- 3) ACCA Manual J Residential Load Calculations
- 4) ASHRAE 2005, ARCFLO Consulting