

# Design Criteria

# Red Lodge Montana

Type	Requirements
Multifamily and Commercial	Design per IBC 2021
One and Two Family Dwellings	Design per IRC 2021
Wind Load - Exposure "B" (3-second gust in miles per hour)	Risk Category I: 100 MPH Risk Category II: 110 MPH Risk Category III: 115 MPH Risk Category IV: 120 MPH Residential: 115 MPH
Foundation Depth	42 in. frost depth Top of foundations will be 12" above curb discharge or approved drainage.
Roof Snow Load Gound Snow Load 106 psf	Minimum design roof snow load after allowed reductions shall be 70psf. Minumum 5/8 Sheathing on roofs.
Ice & Water Shield	Two rows required on all roofs.
Standard Rebar Schedule For Foundation (Many applications will require more stringent rebar schedules.)	Two Rows in all Footers centered, continuous and in place >3" from bottom. Walls 8" with vertical every 2 feet and horizontal every 2 feet. Bottom horizontal 3"-5" inches from top of footer, one horizontal centered, top horizontal 3"-6" from top of wall.

## International Energy Conservation Code 2021 (IECC)

Structure	Default Values
Ceilings	R - 49 / R-38 if extends over top plate at eaves.
Exterior Walls	R - 21 or R - 13 + R -10 Continuous
Floors	R - 30
Crawl Space walls	R-19 / R - 15 - Continuous
Basement walls	R-19 / R - 15 - Continuous
Slab Perimiter	R-10 from top edge for 4ft.
Skylight	U - 0.55
Windows	U - 0.30

Any questions please contact The City of Red Lodge Building Department.