

## **CLIMATIC AND GEOGRAPHICAL DESIGN CRITERIA FOR RESIDENTIAL STRUCTURES 2012 IRC**

Ground Snow Load	Wind Speed	Seismic Design	Weathering	Frost Line Depth	Termite	Decay	Winter Design Temp	Ice Shield Under-layment	Flood Hazard	Air Freezing Index	Mean Annual Temp
20	90*	B	Severe	30"	Slight	None	1	No	W.C.C.	1224	49

\*3 Second Gust

All of unincorporated Weld County is in Exposure C.

## **CLIMATIC AND GEOGRAPHICAL DESIGN CRITERIA FOR COMMERCIAL STRUCTURES 2012 IBC**

Ground Snow Load	Wind Speed	Seismic Design	Weathering	Frost Line Depth	Termite	Decay	Winter Design Temp	Ice Shield Under-layment	Flood Hazard	Air Freezing Index	Mean Annual Temp
20	115*	B	Severe	30"	Slight	None	1	No	W.C.C.	1224	49

\*3 Second Gust – Category II structures

\*\*Category I structure wind speed 105 mph 3 second gust

\*\*\*Category III and IV structure wind speed 120 mph 3 second gust  
(see table 1609.3.1 in the 2012 IBC for conversion to fastest mile)

All of unincorporated Weld County is in Exposure C.

### **Simplified Insulation Requirement Single-family Prescriptive Zone 5**

Glazing U-factor	Ceiling/Floor Over Outside	Wall	Floor	Basement Wall	Slab on Grade Perimeter	Crawlspace Wall
0.35 Max.	R-38 Min.	R-19 R13+5 <sup>a</sup>	R-30 <sup>b</sup> Min.	R-10/R-13 Min. <sup>c</sup>	R-10, 2ft. Min.	R-10/R-13 Min. <sup>c</sup>

a. "13+5" means R-13 cavity insulation plus R-5 insulated sheathing.

b. Or insulation sufficient to fill the framing cavity, R-19 minimum.

c. The first R value applies to continuous insulation, the second to framing cavity insulation, either insulation meets the requirement.

## **ADOPTED BUILDING CODES**

The Weld County Building Department is enforcing the 2017 National Electric Code (NEC) and the 2006 International Energy Conservation Code (IECC) in all portions of unincorporated Weld County.

Effective January 1, 2013, Weld County Building Department began enforcing the following 2012 International Codes:

- 2012 International Building Code
- 2012 International Residential Code
- 2012 International Mechanical Code
- 2012 International Plumbing Code
- 2012 International Fuel Gas Code
- 2006 International Energy Conservation Code

\*See Amendments to all of the above codes listed in [Chapter 29 of the Weld County Code](#)