



Building Guide

ILLOWA Chapter of ICC



Single Family Residential Typical Wall Section

Check, Circle or Fill in each detail to create your building design.

ROOF DESIGN

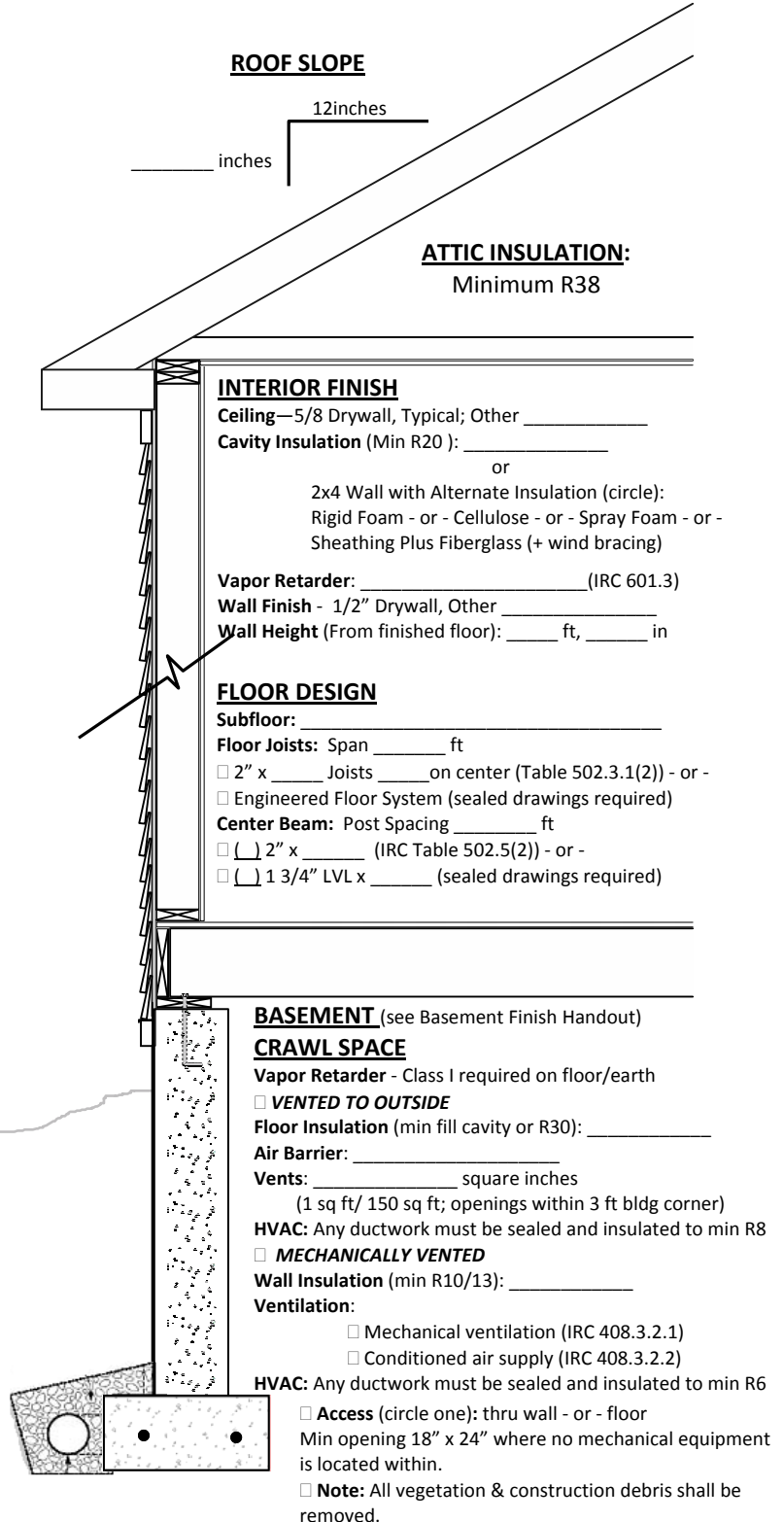
- Type of roofing material: _____
- Ice and Water Barrier (24" inside wall line)
- Underlayment: _____
- Roof sheathing (ex. 1/2 OSB): _____
- Ventilation IRC 806 (circle one): Box - or - Ridge
- Roof Total Vent Area _____
- Soffit Total Net Free Vent Area _____
- Trusses (sealed drawings required)
- Roof Framing IRC 802
- 2 x _____ Rafters _____ on center
- 2 x _____ Ceiling Joists _____ on center
- 2 x _____ Hip/Valley Rafters

WALL DESIGN

- Double Top Plate IRC 602.3.2(circle one): 2 x 4 - or - 2 x 6
(Consult Building Department for Single Top Plate Option)
- Window Header:
- () 2" x _____ (IRC Table 502.5(1)) - or -
- () 1 3/4" LVL x _____ (sealed drawings required)
- () 2" x _____ (IRC Table 502.5(1)d) supported by hanger
- single 2" x 4" on non-load bearing wall (IRC 602.7.2)
- Door Header:
- () 2" x _____ (IRC Table 502.5(1)) - or -
- () 1 3/4" LVL x _____ (sealed drawings required)
- () 2" x _____ (IRC Table 502.5(1)d) supported by hanger
- single 2" x 4" on non-load bearing wall (IRC 602.7.2)
- Studs (circle one): 2 x 4 - or - 2 x 6
- Bottom Plate (single) - Same as Top Plate
- Wall Sheathing: _____
- Water-resistive Barrier IRC 703.2(circle one): House Wrap - or - Felt
- Continuous Insulation (for 2x4 min wall R5): _____
- Siding: _____
- Sill Plate (circle one): 2 x 6 - or - 2x8
- Note: Must be treated or naturally decay resistant. 1/2" X 10" Anchor Bolt, Washer and Nut (or other approved anchors), 6' on center and 12" max from plate splices, Anchor bolt MUST have 7" embedment in concrete. (IRC 403.1.6)

FOUNDATION DESIGN

- Number of Stories: _____
- WALL:
- Height: _____ Width: _____
- Block Size: _____ X _____
- Poured:
- IRC 404.1.3.1 (a) or (b) (see handout)
- ACI 318 (see handout)
- ACI 332 (see handout)
- Footing: (8" x 16" min) _____ X _____
- Depth - Min 42" below finished grade
- UFER Ground (see handout)
- Foundation Drainage (per IRC 405)
- Waterproofing and Dampproofing (per IRC 406)
- Slope - Finished grade shall drop 6 inches in 10 feet
- Clearance - maintain 6 inches from siding to grade min.



DISCLAIMER: ILLOWA Chapter of the ICC has created this handout to assist with plans submittal under the 2009 International Residential Code, and it is not intended to cover all circumstances. Please check with the Department of Building Safety for additional requirements.