



2012 IECC Residential Energy Conservation Code Process

In accordance with Iowa State Energy Conservation Code all new residential structures must comply with the 2012 International Energy Conservation Code with State amendments. All of the Mandatory provisions and either the Prescriptive or Performance based approach must be followed.

Applicant sign off at time of building permit approval
(Third party field inspections to verify compliance)

Heating and cooling equipment shall be sized in accordance with ACCA manual S/J. Load calculations shall be submitted before mechanical permit is issued.

Then



Mandatory Requirements

R401.3	Certificate
R402.4	Air Leakage
R402.5	Maximum fenestration U-factor and SHGC
R403.1	HVAC Controls (Programmable Thermostat)
R403.1.2	Heat Pump Supplementary Heat (Controls)
R403.2.2	Duct Sealing
R403.2.3	Building Cavities as ducts or plenums
R403.3	Mechanical system piping insulation Section
R403.4.1	Circulating hot water systems (Manual Switch)
R403.5	Mechanical ventilation
R403.6	Equipment sizing
R403.7	Systems serving multiple dwelling units
R403.8	Snow melt systems controls
R403.9	Pools and in-ground permanently installed spas
R404.1	Lighting Equipment
R404.1.1	Fuel Gas Lighting Equipment



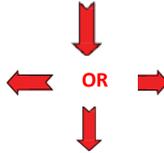
and either the Prescriptive or Performance provisions

Prescriptive Option Requirements

- R402.1 General
- R402.2 Specific insulation requirements
- R402.3 Fenestration
- R403.2.1 Duct insulation
- R403.4.2 Hot water pipe insulation

Prescriptive Option Requirements

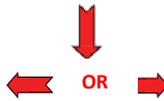
- R405 Simulated performance alternative



Mandatory Requirements
All provisions must be complied with regardless of the compliance path that is chosen.

Prescriptive Compliance Path
Choose of the three available options:

Performance Option Requirements
Must submit compliance documentation



Prescriptive R-Value

OR

Prescriptive U-Value

OR

Table R402.1.1 Insulation and Fenestration Requirements by Component (2012 IECC)

Climate Zone	Fenestration U-Factor	Skylight U-Factor	Glazed Fenestration SHGC	Ceiling R-value	Wood Frame Wall R-value	Mass Wall R-value	Floor R-value	Basement Wall R-value	Slab R-value & Depth	Crawl Space Wall R-value
5 And Marine 4	0.32	0.55	NR	49	20 or 13+5	13/17	30	15/19	10, 2ft	15/19

Table R402.1.3 Insulation and Fenestration Requirements by Component (2012 IECC)

Climate Zone	Fenestration U-Factor	Skylight U-Factor	Ceiling U-Factor	Wood Frame Wall U-Factor	Mass Wall U-Factor	Floor U-Factor	Basement Wall U-Factor	Crawl Space Wall U-Factor
5 And Marine 4	0.32	0.55	0.026	0.057	0.082	0.033	0.050	0.055

Prescriptive UA Alternative

Third Party in-field inspections to verify compliance
Supporting documents to be supplied before CO
(Compliance Report, Inspection Checklist, and Panel Certificate)

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