#### **ENSURING QUALITY CONSTRUCTION BY**

# Jefferson City, Missouri Professionals



The City of Jefferson City has adopted the 2009 International Energy Conservation Code (2009 IECC) as the baseline code for residential buildings in the city. You can use the checklist below to verify key residential code requirements that are easy to identify.

While this checklist doesn't include every requirement, it serves as a helpful guide for professionals as they seek or verify compliance with the local residential energy code in the field. Please refer to your local published energy code for complete documentation of all requirements and consult your local code official for questions and clarification. In Missouri, building energy codes are adopted at the local level, so these requirements may not apply to all jurisdictions in the state.

#### **Mandatory Requirements:**

Energy Certificate		Mechanical Ventilation	
Energy Certificate located on circuit breaker box is completed and signed		loor air intakes and exhausts shall have automatic avity dampers	
Air Sealing		Windows & Doors	
All holes between floors and through exterior walls/ ceilings have been sealed with caulk or foam, in accordance with table 402.4.2  Air leakage may be either tested to be ≤7 ACH50 or visually inspected	rate	dows, skylights and sliding glass doors infiltration $\leq 0.3$ cfm/ft <sup>2</sup> ging doors infiltration rate $\leq 0.5$ cfm/ft <sup>2</sup>	
, .		Other Requirements	
All ducts are sealed with approved materials (e.g. mastic or UL 181 tape) - duct tape is not acceptable  All ducts outside conditioned space are tested and verified to have leakage to the outdoors $\leq 8$ cfm/100 sq ft or total duct leakage $\leq 12$ cfm/100 ft <sup>2</sup>	outo	d-burning fireplaces shall have gasketed doors and oor combustion air nanical system piping insulated to min R-3 for >105° <55° F Ilating hot water system piping insulated to min R-2 on/off switch installed	
Heating & Cooling			
Controls: Programmable thermostat installed	End	ergy Code Compliance Paths:	
Equipment sized per ACCA Manuals S & J	Must only on back.	follow one method. See additional requirements	
Lighting		criptive Method: Comply with all mandatory and criptive requirements and complete checklist on	
Minimum of 50% high-efficacy lamps installed	the b	pack of this page	
Recessed lighting in thermal envelope IC-rated and air tight	requ	<b>I UA Method:</b> Comply with all mandatory irements and submit documentation to show pliance with UA trade-offs (e.g. DOE REScheck)	
Building Cavities		Simulated Performance Alternative: Comply with all	
Building framing cavities shall not be used as supply ducts	shov	datory requirements and submit energy analysis ving proposed design will have an energy cost ≤ the dard reference design.	

## **Jefferson City** Homes

### **Prescriptive Method Requirements**

Code Section	Building Components	Prescriptive Standard	Proposed Value	Remarks		
Insulation (R402.2) Prescriptive Standard is a Minimum R-Value						
R402.2.1	Ceilings with Attic Spaces	R-38		R-38 for standard truss, can be reduced to R-30 with Raised Heel/Energy Truss		
R402.2.2	Ceilings without Attic Spaces	R-30		Limited to 500 SF OR 20% of the total insulated ceiling area, whichever is less		
Table R402.1.1	Wood Frame Wall	R-13		R-13 insulation for interior cavity		
R402.2.6	Floors over unconditioned space	R-19		Floor insulation shall maintain permanent contact with subfloor decking		
R402.2.7	Conditioned Basement Walls	R-10 or R-13		R-10 continuous insulation on the interior or exterior, or R-13 for interior wall cavity		
R402.2.8	Slab-on-grade floors	R-10, 2 ft		Insulation shall be from top of slab to 2 feet below grade		
R402.2.9	Conditioned crawl space walls	R-10 or R-13		R-10 continuous insulation on the interior or exterior, or R-13 for interior wall cavity		
Fenestratio	n (R402.3) Prescriptive Standard is Maxim	um U-Factor				
R402.3.1	Windows, glass, opaque and swinging doors with >50% glazing	U-0.35		An area weighted average may be used to satisfy the U-factor requirements but must include all windows, skylights, glass doors and opaque doors (provide documentation).		
R402.3.1	Skylights	U-0.60				
Other Presc	riptive Requirements	Proposed Value				
	on (R403.2.1): Supply ducts in the attic shall be i hall be insulated to a minimum of R-6. Exceptio	Insulation Level N/A				
Duct Tightne envelope	ss Test (R403.2.2) Required if furnace or any duc	Tested; Results: N/A				
	(R402.2.3): Access doors to attic must be weathent to insulation levels of surrounding surfaces	Insulation Level N/A				

### **Total UA Method Requirements**

П	All mandatory and prescriptive requirements must be met. Include documentation to demonstrate compliance with
	the UA Tradeoff method. REScheck or other compliance software submittal must include completed compliance form
	inspection checklist and certificate using 2009 IECC levels.

### **Simulated Performance Requirements**

All mandatory requirements must be met. Submit an energy cost analysis report which demonstrates that the proposed design (as built) home is more efficient than the standard reference design home (table R405.5.2(1)). See section R405 for additional details.



**Prepared by**