KANSAS CITY AND ST. LOUIS MISSOURI

SUMMARY OF KEY RESIDENTIAL ENERGY CODE REQUIREMENTS

Missouri is one of eight states that does not have a statewide building code. Rather, the codes are adopted and enforced at a jurisdictional level. Below are the current residential energy code requirements for Kansas City and St. Louis, Missouri.

CODE CHANGE HIGHLIGHTS

• Kansas City has adopted the unamended 2021 IECC effective July 1, 2023.

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• Ceiling and wall insulation levels increased.

Post-construction

- Duct and blower door testing are no longer optional.
- St. Louis has adopted the 2018 IECC effective July 6, 2018.



BUILDING ENVELOPE AND DUCT REQUIREMENTS

	2018/2021 IECC CODE SECTION		JURISDICTION				
CODE PATH			KANSAS CITY			ST. LOUIS	
R402.1.2 – Wood Frame Wall R402.1.2 – Ceilings		R-30 or R-20+5 ci or R-13+10 ci or R-20 ci / U-0.045			R-20 or R-13+5 ci / U-0.057		
		;	R-60 / U-0.024		R-49 / U-0.026		
Prescriptive	R402.1.2 – Basements		R-13 or R-10 ci / U-0.059		R-13 or R-10 ci / U-0.059		
	R402.1.2 - Crawl Space Walls		R-13 or R-10 ci / U-0.065		R-13 or R-10 ci / U-0.065		
	R402.1.2 – Fenestration		U-0.30 / SHGC-0.40		U-0.32 / SHGC-0.40		
DUCT LEAKAGE (BOTH JURISDICTIONS) DUCT R-VALUE AIR LEAKAGE						EAKAGE	
MEASUREMENT CFM25 / 10		00 SQ. FT.	R-VALUE	CLIN	MATE ZONE	MEASUREMENT	
Rough-in (installed air handler) 4				Ka	insas City	3 ACH50	
Rough-in (air handler not installed)			R-8ª	S	St. Louis	3 ACH50	

a. R-6 is allowed for ducts <3 inches.

TABLE R406.4 MAXIMUM ENERGY RATING INDEX (ERI)

JURISDICTION	MAXIMUM ERI				
Kansas City	54				
St. Louis	62				

MORE INFORMATION ON THE KANSAS CITY ENERGY CODE CAN BE FOUND HERE:

https://www.kcmo.gov/city-hall/departments/city-planning-development/building-and-rehabilitation-code

MORE INFORMATION ON THE ST. LOUIS ENERGY CODE CAN BE FOUND HERE:

https://www.stlouis-mo.gov/government/city-laws/upload/legislative//Ordinances/BOAPdf/70799.pdf



This summary is offered for informational purposes only. It does not purport to be an exhaustive analysis of code changes or provide advice that will ensure guaranteed compliance with any energy code provision. Please consult with local authorities before finalizing your installation plans.

ENERGY-EFFICIENT, COST-EFFECTIVE CONSTRUCTION WITH FIBERGLASS AND MINERAL WOOL INSULATION



As code levels advance, **keep informed about innovative practices** to meet or exceed code requirements using cost-effective fiberglass and mineral wool insulation.

The following resources in the table below are just a subset of the many guides available from the **Insulation Institute** to help you achieve new performance requirements with proven approaches.

INSULATION INSTITUTE RESOURCES

5 Priority Air Sealing Locations for New Homes	Air Leakage	As states adopt more stringent energy codes, some builders may experience challenges meeting new mandatory air leakage requirements. Fiberglass and mineral wool insulation is the low-cost solution for homebuilders to meet or surpass code air leakage rate requirements of 3 or 5 air changes per hour depending on climate zone. For homeowners an airtight building envelope results in energy savings and increased thermal comfort.
Insulation Institute.		https://insulationinstitute.org/wp-content/uploads/2018/05/N090-5-Air-Sealing- Locations-for-New-Homes.pdf
Burled Ducks: The newest by Burled Ducks and States With the second second second second Market States and States and States Market States and States and States and States and States Market States and States and States and States and States Market States and States and States and States and States Market States and States and States and States and States Market States and States and States and States and States and States Market States and States and States and States and States and States Market States and States and States and States and States and States Market States and States Market States and States a	Ducts Buried Within Ceiling Insulation	Deeply buried ducts in attics is an easy way to lower energy code compliance costs for builders using the simulated energy performance path. Homeowners can benefit from energy savings realized from lower-capacity, lower-cost HVAC systems.
And a strategy for particular sector of the strategy for particular se		https://insulationinstitute.org/wp-content/uploads/2019/03/N087-Buried-Ducts-The- newest-way-to-uncover-savings.pdf
BADE I	Proper Installation of Insulation	Grade I installation delivers superior energy efficiency and is increasingly required by state energy codes. Insulation installation jobs that fail to meet Grade I criteria can mean construction delays due to callbacks, HERS rating penalties, and failed code inspections. Grade I installation is readily achievable by following basic guidelines as recommended by manufacturers. NAIMA offers free online training for installers. www.grade1insulation.org
Mutania temperatura Building Universited Attic Assembles Building Eberglass and Mineral Wool	Unvented Attics Using Fiberglass and Mineral Wool Insulation	Unvented attics can be constructed by installing fiberglass or mineral wool insulation below the roof deck instead of using more costly materials like spray foam. In addition, fiberglass and mineral wool insulation products are green certified and do not carry recommended occupancy restrictions due to product off-gassing after installation. Starting with the 2018 IRC, this practice is outlined in detail within the code. Homeowners benefit from lower construction costs and the use of a safe product. https://insulationinstitute.org/wp-content/uploads/2018/05/ BuildingUnventedAtticAssemblies-N089.pdf

https://www.energycodes.gov/technical-assistance/training/courses/ 2015-iecc-energy-rating-index-eri-compliance-alternative

Get the Facts for a Stronger Business

Learn more about fiberglass and mineral wool insulation at InsulationInstitute.org

NAIMA NORTH AMERICAN INSULATION

2013 Olde Regent Way • Suite 150, Box 120 • Leland, NC 28451 InsulationInstitute.org • 703.684.0084