WEST VIRGINIA RESIDENTIAL BUILDING CODE

SUMMARY OF KEY RESIDENTIAL ENERGY CODE REQUIREMENTS

The 2015 IECC was adopted in West Virginia and went into effect on **August 1, 2022**. This document summarizes the envelope-related requirements in the code for West Virginia.

CODE CHANGE HIGHLIGHTS

- The State Fire Commission is responsible for adopting the construction codes in West Virginia.
- The air leakage test required by R402.4.1.2 is optional (blower door test).
- Enforcement is at the local level for those jurisdictions that have adopted the state building code. For those jurisdictions that have not adopted the energy code, the enforcement agency is the State Fire Marshal.



BUILDING ENVELOPE REQUIREMENTS

CODE PATH	2015 IECC CODE SECTION	CHANGE SUMMARY		
		CLIMATE ZONE 4	CLIMATE ZONE 5	
Prescriptive	R402.1.2 – Wood Frame Wall	R-20 or R-13 + 5 / U-0.060	R-20 or R-13 + 5 / U-0.060	
	R402.1.2 - Ceilings	R-49 / U-0.026	R-49 / U-0.026	
	R402.1.2 - Basement	R-13 or R-10 ci / U-0.059	R-19 or R-15 ci / U-0.050	
	R402.1.2 – Crawl Space Walls	R-13 or R-10 ci / U-0.065	R-19 or R-15 ci / U-O.050	
	R402.1.2 – Fenestration	U-0.35 / SHGC 0.40	U-0.32	

DUCT LEAKAGE

MEASUREMENT	CFM25 / 100 SQ. FT.
Rough-in (installed air handler)	4
Rough-in (air handler not installed)	3
Post-construction (total leakage)	4

AIR LEAKAGE
ALL CLIMATE ZONES
5 ACH50

Note: All R-values are minimums and U-factors maximums.

MORE INFORMATION ON THE WEST VIRGINIA ENERGY PROVISIONS CAN BE FOUND HERE:

https://apps.sos.wv.gov/adlaw/csr/readfile.aspx?DocId=55263&Format=PDF&utm_ source=Campaign%3a+Code+Alerts&utm_medium=newsletter&utm_campaign=13+May+2022

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
Buried Ducts: The newest way to uncover savings. The save the save	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.
		https://insulationinstitute.org/wp-content/uploads/2019/03/N087-Buried-Ducts-The- newest-way-to-uncover-savings.pdf
SIRADE 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
Mutation Watching Building Universited Attice Assemblies Dating Fiberglass and Dimeral 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

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