WEST VIRGINIA RESIDENTIAL BUILDING CODE

SUMMARY OF KEY RESIDENTIAL ENERGY CODE REQUIREMENTS

The 2015 IECC with amendments 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 AND DUCT 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			DUCT R-VALUE
MEASUREMENT		CFM25 / 100 SQ. FT.	R-VALUE
Rough-in (installed air handler)		4	R-8ª
Rough-in (air handler not installed)		3	
Post-construction (total leakage)		4	
	AIR LEAKAG	a. In attics. R-6 in other portions of the building. R-6 and R-4.2 respectively	
	ALL CLIMATE ZO		

5 ACH50

for ducts <3 inches.

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

Insulation Institute

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

[.] 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. https://insulationinstitute.org/wp-content/uploads/2018/05/N090-5-Air-Sealing-Locations-for-New-Homes.pdf
cts Buried thin Ceiling	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.
sulation	https://insulationinstitute.org/wp-content/uploads/2019/03/N087-Buried-Ducts-The- newest-way-to-uncover-savings.pdf
oper stallation 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
vented Attics ing Fiberglass d Mineral ool 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
	ulation per tallation nsulation vented Attics ng Fiberglass I Mineral

https://insulationinstitute.org/wp-content/uploads/2024/10/ Modern-Energy-Codes-Save-Money-Infographic.pdf

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