MISSISSIPPI + 2009 IECC

RESIDENTIAL ENERGY CODE FIELD GUIDE













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Introduction

In February 2009, the American Recovery and Reinvestment Act (ARRA) assisted states with building energy efficiency efforts. To receive these funds, Governor Haley Barbour certified to DOE that Mississippi would implement energy codes of equal or greater stringency than the 2009 International Energy Conservation Code (IECC). For links and other resources about energy codes including a video on using this residential field guide, visit: www.southface.org/energy-codes

Importance of the Energy Code

Building energy codes are important for a number of reasons:

- Building energy codes save consumers money. A home that does not meet code standards results in wasted energy and high operating costs. Efficient buildings use less energy, putting that money back into a building owner's pocket.
- Building energy codes result in healthier, more comfortable buildings. Energy codes reduce the amount of outside air that enters the home, so that occupants breathe healthier air with appropriate levels of humidity. This keeps them comfortable year-round, resulting in high rates of satisfaction. In addition, because code-built homes are more comfortable, builders typically receive fewer callbacks, which increases the home's value.
- Energy codes boost the local economy. The money that consumers save on their homes' operating costs can be spent on other goods and services in the local economy. Similarly, workplaces can reinvest this money to support other areas of need.
- Energy codes reduce our dependence on foreign energy. Buildings consume 40 percent of the energy used in the United States. Because energy codes improve the efficiency of our building stock, they reduce the amount of energy that must be imported to meet domestic demand.

Overview of the 2009 IECC

The 2009 IECC ensures that all aspects of a building's thermal envelope (walls, windows, ceilings, floors and foundation separating conditioned space from unconditioned spaces) are both well-insulated and air-sealed effectively. To ensure air-sealing is executed appropriately with correct materials (fiberglass and cellulose insulation do not serve as air-barriers), the energy code requires that builders pass either a blower door test or a visual inspection to verify that the home is not "leaky."

The 2009 IECC also ensures that the HVAC system is sized properly, and that its ductwork is efficient and properly installed. For example, the energy code requires that builders seal their ductwork, and that the ductwork passes a leakage test.

Finally, the energy code requires that a home's lighting is efficient. It requires that 50 percent of the light bulbs in permanent fixtures are efficient (e.g., CFL or fluorescent).

Instructions

The Residential Energy Code Field Guide is intended for use by code officials when inspecting residential construction projects for compliance with the 2009 IECC. Based upon a modified version of the Department of Energy's Building Energy Code Program residential field compliance checklist¹, this field guide illustrates key requirements of the energy code. For every requirement, the code section number, the residential field compliance checklist item number, detailed instructions, graphical elements, and photo images to demonstrate code compliance in the field are given. Each element in the field guide is in the order in which you would inspect it in a home. It is important to note that some items may not apply in a particular home depending on home construction. For example, if a builder chooses to insulate the underfloor of a basement, basement wall insulation requirements do not apply.

Compliance Approach

Compliance with the energy code can be demonstrated by the prescriptive, trade-off (e.g., REScheck), or simulated performance approach. In evaluating building compliance, the prescriptive approach should be assumed unless documentation is provided by the builder demonstrating either the trade-off or simulated performance approach. The *Code Value* column on the checklist contains the prescriptive requirement which must be met under the prescriptive approach.

Note: If a trade-off or performance approach is used to demonstrate compliance, the building may NOT comply with the prescriptive code values listed in this field guide and yet may still be deemed to comply with the code (and therefore should be marked as compliant for the given checklist item) on the basis that some other aspect of the building exceeds the code requirement. For example, assume a trade-off approach was used and a valid REScheck software report was submitted showing a compliant building in Climate Zone 3 with R-19 ceiling insulation. In Climate Zone 3, the code's prescriptive insulation R-value requirement for a ceiling is listed as R-30. If the trade-off submission is valid, there will be some other building component that exceeds code requirements and offsets the non-compliant ceiling. There are minimum values you cannot "trade below" using the trade-off approach. If applicable, these minimum values are listed at the end of the description under each application.

¹ Department of Energy. State Compliance Evaluation Checklists. Retrieved from: http://www.energycodes.gov/arra/compliance_checklists.stm



Construction Doc	umentation			
Code Section Checklist Item # Description	 103.2 [PR1] A complete set of plans/construction drawings, specifications, and energy code compliance documentation must be submitted to the building department if a plan review is conducted. Construction documents should sufficiently demonstrate energy code compliance, including but not limited to the following information: The location and R-values of insulation materials U-factors and SHGC values for windows, doors, skylights, and other fenestration products Information related to duct and piping location, insulation type and R-value, and means of sealing 			
Slab Edge Insulat	ion			
Code Section Checklist Item #	<i>402.1.1, 303.2, 402.2.8</i> [FO1][FO2][FO3]			
Code Value	Unheated: R-0; Heated: R-5			
Description	Insulation for an unheated slab is not required. Heated slabs are required to be insulated where the floor surface is less than 12 in. below grade. Insulation must start at the top surface the slab and extend downward to completely cover the slab edge. It can also be located outside the foundation wall. Insulation depth must be the depth of the footing or 2 feet, whichever is less.			
Rigid boa Drainage foam trea pest prev Gravel for drainage	Slab Edge Insulation Diagram*			

Basement Wall Exterior Insulation Code Section 402.1.1, 303.2, 402.2.7 Checklist Item # [FO4] [FO5] [FO6] Code Value CZ2:R-0 CZ3:Continuous: R-5 Description If insulation is installed on the exterior of the basement wall, code values listed above apply. Insulation may also be applied on the interior of the wall, on a basement wall or on the underfloor of the subfloor decking. If this is the case, see "Basement Wall Interior Insulation," "Wall Insulation" or "Floor Insulation" for the appropriate application. A basement wall is one that is at least 50% below grade. Insulation must be installed according to manufacturer's instructions. For the prescriptive approach, the insulation length (from the top of the basement wall to the basement floor) must be the lesser of 10 feet or to the top of the basement floor.

Crawl Space Wall Insulation		
Code Section	402.2.9, 303.2	
Checklist Item #	[FO7] [FO8]	
Code Value	CZ2:R-0 CZ3:Continuous: R-5; Cavity: R-13	
Description	Insulation must be installed according to manufacturer's instructions for crawl spaces that are not ventilated to the outside. Crawlspace wall insulation must be permanently fastened to the wall and extend downward from the floor to the finished grade and extend vertically and/or horizontally for at least an additional 24 inches. If the crawl space is ventilated, the floor above the crawl space must be insulated instead of insulating the crawl space walls.	

Crawl Space Vapor Retarder

Code Section	402.2.9
Checklist Item #	[FO9]
Description	Where a cr code requir at least 6 ir retarder ha

Where a crawl space is unvented (e.g. not open to the building exterior) the energy code requires that a Class I vapor retarder must be applied to the entire floor and run at least 6 in. up the walls of the crawl space and sealed to the walls. A Class I vapor retarder has a perm rating of less than 0.1 perm (such as polyethylene). Any seams in the vapor retarder must have an overlap of at least 6 in. and be sealed or taped.

Sealed and Overlapped Seams





Insulation Protection		
Code Section	303.2.1	
Checklist Item #	[FO10]	
Description	All slab, basement wall, or crawl space insulation exposed to the outside must be protected from damage by an opaque covering.	

Snow Melt	
Code Section Checklist Item #	<i>403.8</i> [F011]
Description	If the building is provided with a snow or ice melting system (uncommon in the Southeast), the system must have controls to automatically shut the system off when the pavement temperature is above 50 °F and precipitation is falling, and controls to automatically or manually shut the system off when the outdoor temperature is above 40 °F.

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Code Section	402.1.1, 402.3.1, 402.3.3, 402.3.4, 402.5, 303.1.3, 402.3.5			
Checklist Item #	[FR1] [FR2] [FR4]	[FR8]		
Code Value	CZ2:U-0.65; Impa CZ3:U-0.50; Impa	ct Rated: U ct Rated: U	-0.75 -0.65	
Description	An area-weighted average can be used to satisfy the U-factor requirement. For the prescriptive approach only, up to 15 ft ² of the total glazed fenestration, including skylights, do not have to meet the specified U-factor in the code. Glazing must be labeled and certified as meeting NFRC standards. If glazing is not NFRC certified, default values in Table 303 must be used and these default values do not meet the prescriptive requirements in the energy code. ² Under the prescriptive approach only, up to 24 ft ² of side-hinged door do not have to meet the specified U-factor in the code.			
	NFRC Glazing	g Label (I	Highlighting U-Fac	tor)
	National Fenestration Rating Council®	W W Vir Double Produ	orld's Best /indow Co. Nillennium 2000 ⁺ nyl-Clad Wood Frame Glazing • Argon Fill • Low E uct Type: Vertical Slider	
	ENERG	GY PERFOR	MANCE RATINGS	
	U-Factor (U.S./I-P) 35	Solar Heat Gain Coefficient	
	ADDITIO	NAL PERFO	ORMANCE RATINGS	
	Visible Tran	smittance	Air Leakage (U.S./I-P)	
	Condensation 5	Resistance		
	Manufacturer stipulates tha product performance. NFR specific product size. NFR product for any specific use	t these ratings conform to C ratings are determined fi does not recommend any e. Consult manufacturer's www.n	applicable NFRC procedures for determining whole or a fixed set of environmental conditions and a y product and does not warrant the suitability of any literature for other product performance information. frc.org	

²If fenestration without an NFRC label is used, a builder can show compliance by demonstrating that an area-weighted average of all windows meet code. To meet the code in this way, the majority of installed fenestration must be "better than code." A builder could also demonstrate compliance by making trade-offs using REScheck or the simulated performance alternative.



Glazed Fenestrati	on (e.g., windows and doors) and Skylight SHGC Values	
Glazed Fenestrati	on (e.g., windows and doors) and Skylight SHGC Values 402.1.1, 402.3.2, 402.3.3, 303.1.3, 402.3.5 [FR3] [FR4] [FR7] SHGC: 0.30 An area-weighted average can be used to satisfy the SHGC requirement. For the prescriptive approach only, up to 15 ft ² of glazed fenestration do not have to meet the specified SHGC requirement. Glazing must be labeled and certified as meeting NFRC standards. If glazing is not NFRC certified, default values in Table 303 must be used and these default values do not meet the prescriptive requirements in the energy code. ² Note: If REScheck is used, maximum SHGC is 0.50 for windows. NFRC Glazing Label (Highlighting SHGC) World's Best Window Co. Milennium 2000 ⁺ Vinyt-Clad Wood Frame Double Glazing: Agon fill Low E Product Type: Vertical Slider U-Factor (U.S./I-P) 0.355 Solar Heat Gain Coefficient 0.300 ADDITIONAL PERFORMANCE RATINGS Visible Transmittance Air Leakage (U.S./I-P)	
	O.35 O.30 ADDITIONAL PERFORMANCE RATINGS Visible Transmittance O.51 Air Leakage (U.S./I-P) O.51 Condensation Resistance 51 Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a product of each warrant the subability of any	
	product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org	
Skylight II-Eactor		
Code Section	402.1.1, 402.3.3, 402.5, 303.1.3	
Checklist Item #	[FR5] [FR7] [FR9]	
Code Value	CZ2:U-0.75 CZ3:U-0.65	
Description	Glazing that is at least 15 degrees from vertical installed in the building envelope is subject to this requirement. For the prescriptive approach only, up to 15 ft ² of the total glazed fenestration, including skylights, do not have to meet the specified U-factor in the code. Glazing must be labeled and certified as meeting NFRC standards. If glazing is not NFRC certified, default values in Table 303 must be used and these default values do not meet the prescriptive requirements in the energy code. ²	

Mass Wall Exterio	or Insulation			
Code Section	402.1.1, 303.2			
Checklist Item #	[FR10] [FR11]			
Code Value	CZ2:R-4 CZ3:R-5			
Description	An above-grade mass wall is one that is less than 50% below grade. If the wall is at least 50% above grade, see " <u>Basement Wall Exterior Insulation</u> " requirements. Mass wall insulation must be installed in accordance with the manufacturer's installation instructions. If more than half the insulation is on the interior, the mass wall interior insulation requirement applies (see " <u>Wall Insulation</u> " requirements).			
Duct Insulation				
Code Section	403.2.1			
Checklist Item #	[FR12]			
Code Value	Attic Supply: R-8; Other: R-6			
Description	ion R-value(s) of insulation apply to heating and/or cooling ducts that are not completely inside the building thermal envelope (e.g., are located outside the conditioned space). Other insulation requirements apply to unconditioned spaces that are not attic spaces, like an unconditioned basement or crawlspace.			
R-8 Insulation of Attic Supply Duct				



Duct Sealing (cont.)

CORRECT: Mastic-sealed Register





No Building Cavit	ies as Supply Ducts
Code Section Checklist Item # Description	<i>403.2.3</i> [FR15] Building cavities may not be used as supply ducts (e.g., function to actually form the duct). All supply ducts must be lined with metal, flex duct, ductboard or other material approved in section M1601 of the IRC.
CORRECT: Metal-lin	INCORRECT: Unlined Cavity as Supply

IC-Rated Recessed Lighting Fixtures		
Code Section Checklist Item # Description	402.4.5 [FR16] Recessed lighting fixtures must be air-tight and IC-rated in areas with insulation.and have a gasket or caulk applied between the fixture housing and the interior finish of the space.	
Recessed Lighting Fixture Diagram		
<image/>		
HVAC Piping Insu	lation	
Code Section	403.3	
Checklist Item #	[FR17]	
Code Value	R-3	
Description HVAC system piping capable of carrying fluides above 105°F or below 55°F must be insulated.		

Circulating Hot-Water Piping Insulation and Controls

Code Section	403.4
Checklist Item #	[FR18] [FI11]
Code Value	R-2
Description	Circulating hot water piping must be insulated. All pumps must also have either automatic controls or a manual control that is readily accessible to turn off the system when not in use.

Outdoor Intake/Exhaust Openings	
Code Section	403.5
Checklist Item #	[FR19]
Description	All outdoor intake and exhaust openings must have either manual (self-closing) or automatic dampers that will close when the system associated with the air intake or exhaust is not functioning. To ensure that dampers close correctly, direction of airflow must be taken into account when installed.

Fenestration Air L	eakage		
Code Section Checklist Item #	402.4.4 [FR20] [FR22]		
Code Value	0.3 cfm/ft ²		
Description	U.3 CTM/TI ² Each window, skylight, and sliding glass door must be tested to the referenced NFRC 400 or AAMA/WDMA/CSA standards and meet the required air infiltration rate. If the tested rate is not shown on the assembly, one could determine the make and model number and consult the manufacturer's web site or other source of data to determine the air leakage of the assembly as tested by an independent laboratory. Each window, skylight and sliding glass door must also have a label, seal, symbol or other identifying mark indicating the test results or compliance with the code. Sitebuilt windows, skylights, and sliding glass doors are not required to meet this requirement.		
NFRC Glazing Label (Highlighting SHGC)			
	NERCE National Ferestration Rating Council * CERTIFIED World's Best Window Co. Millennium 2000 ⁺ Vinyl-Clad Wood Frame Double Glazing - Argon Fill - Low E Product Type: Vertical Slider		
	ENERGY PERFORMANCE RATINGS		
	U-Factor (U.S./I-P) Solar Heat Gain Coefficient 0.35 O.30		
ADDITIONAL PERFORMANCE RATINGS			
	Visible Transmittance Air Leakage (U.S./I-P) 0.51 0.2		
	Condensation Resistance 51		
	Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturers interature for other product performance information. www.nfrc.org		

Swinging Door Air Leakage		
Code Section	402.4.4	
Checklist Item #	[FR21] [FR22]	
Code Value	0.5 cfm/ft ²	
Description	Each swinging door must be tested to the referenced NFRC 400 or AAMA/WDMA/CSA standards and meet the required air infiltration rate. If the tested rate is not shown on the assembly, one could determine the make and model number and consult the manufacturer's web site or other source of data to determine the air leakage of the assembly as tested by an independent laboratory. Each swinging door must also have a label, seal, symbol, or other identifying mark indicating the test results or compliance with the code. Site built swinging doors are not required to meet this requirement.	



³ Cavity insulation R-value is listed first, followed by continuous insulation R-value.



Wall Insulation		
Code Section	402 1 1 402 2 4 402 2 E 202 2	402.2.11
Code Section	402.1.1, 402.2.4, 402.2.3, 303.2,	402.2.11
Code value	CZ2: Wood: R-13 Mass: Interior: R-6; Exter Steel ⁴ : R-13+R-5; R-15+R CZ3: Wood: R-13 Mass: Interior: R-8; Exter Steel ⁴ : R-13+R-5; R-15+R-	ior or Integral: R-4 -4; R-21+R-3; R-0+R-10 ior or Integral: R-5 -4; R-21+R-3; R-0+R-10
Description	Insulation must be applied to wood-framed, steel-framed, and mass walls that are above grade and associated with the building thermal envelope. An above-grade wall is one that is more than 50% above grade. Mass walls are those of concrete block, concrete, ICFs, masonry cavity, brick (non-veneer), earth/adobe, and solid timber/logs. Wall insulation must be installed in accordance with the manufacturer's installation instructions and all places in the wall that will accommodate insulation must be insulated. Insulation in sunroom walls (rooms thermally isolated from conditioned space) must meet this criteria.	
CORRECT: Batt ir	Wood-framed Cavity	INCORRECT: Unfilled Cavity
CORRECT: Full Cover	age and No Compression	INCORRECT: Compression and Poor Coverage

⁴ Cavity insulation R-value is listed first, followed by continuous insulation R-value.



Basement Wall Interior Insulation

Code Section	402.1.1, 302.2, 402.2.7
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Checklist Item # [IN5] [IN6] [IN7] Code Value CZ2:R-0 CZ3⁵:Continuous: R-5; Cavity: R-13

Description Insulation must be applied to the interior of a wall associated with a conditioned basement or a basement that is unconditioned but does not have the floor above and other components separating the basement from the rest of the building insulated as part of the building envelope. Insulation may also be applied on the exterior of the wall, see "Basement Wall Exterior Insulation" if this is the appropriate application. Basement wall insulation must extend to the basement floor or to 10 ft. A basement wall is one that is at least 50% below grade. Basement wall insulation must be installed in accordance with the manufacturer's installation instructions and all places in the wall that will accommodate insulation must be insulated.



⁵ Basement wall insulation is not required in warm-humid locations as defined by Figure 301.1 and Table 301.1 in the 2009 IECC.







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Code Section 402.4.1, 402.4.2

Checklist Item # [IN14] [IN15] [IN16]

Description Walls and ceilings seperating

Walls and ceilings seperating garage from conditioned space must be air-sealed. For example, all floor joists above attached garages must be blocked and sealed.







Air-seal Seams in Exterior Sheathing

Code Section	402.4.1, 402.4.2
Checklist Item #	[IN14] [IN15] [IN16]
Description	All joints, seams and penetrations must be sealed. For example, gaps in exterior sheathing must be sealed using appropriate sealant.

INCORRECT: Gaps in Sheathing











Description All penetrations (e.g., from holes drilled for HVAC lines, plumbing lines, bathroom fans, exhaust fans, and electrical lines) through the band/rim joist located between conditioned and unconditioned spaces must be sealed.

Ceiling Insulation	
Code Section	402.1.1, 402.2.1, 402.2.2, 402.2.11, 303.1.1.1, 303.2
Checklist Item #	[FI1] [IN10] [IN11]
Code Value	Wood: R-30 Steel truss equivalent ⁶ : R-38, R-30+R-3, R-26+R-5 Steel joist equivalent ⁶ : R-38 in 2x4, 2x6, or 2x8
Description	For blown-in attic insulation, rulers must be provided for every 300 ft ² of attic space. Insulation in sunroom ceilings (rooms thermally isolated from conditioned space) must meet this criteria. All insulation must be installed in accordance with the manufacturer's installation instructions.
Ceiling Insulation Ruler	



⁶ Cavity insulation R-value is listed first, followed by continuous insulation R-value.







Energy Code Compliance Certificate

Code Section	401.3
Checklist Item #	[FI7]
Description	A cer
	or nea

A certificate identifying the energy-related features of the building must be located on or near the electrical distribution panel or air handler. The certificate should include predominate R-values of insulation, U-factors and SHGC for fenestration, and the types and efficiencies of heating, cooling and water heating equipment.

Compliance Certificate Affixed to Air handler







Envelope Tightness Verification

Code Section Checklist Item #	402.4.2, 402.4.2.1 [IN12]	
Code Value	ACH ₅₀ < 7	
Description	Buildings must either be test requirement listed above or und and insulation as detailed in Ta	ed for tightness with a blower door and meet the dergo a rigorous visual inspection of proper air-sealing ble 402.4.2 of the 2009 IECC.
Diagram of BI	ower Door Setup	Blower Door Setup in Door Frame
	Air pressure gauge Air pressure gauge Temporary covering Adjustable frame Fan Exterior door frame 	

Lighting		
Code Section	101.1	
Checklist Item #		
Description	To be deemed compliant under the prescriptive or trade-off approach, half of all bulbs installed in permanent fixtures must be high-efficacy. High efficacy bulbs include: compact fluorescent lamps (CFLs), T8 or T5 linear fluorescent lamps, or other lamps (such as LEDs) with an efficacy o \geq 60 lumens per watt when over 40 watts, \geq 50 lumens per watt for 15 to 40 watts, and \geq 40 lumens per watt for 15 watts or less.	
CFL vs. li	ncandescent T12, T8, and T5 Fluorescent Lamps	
Drogrammable Th		
Programmable In	lermostal	
Code Section	403.1.1	
Checklist Item #	[F19]	
Description	Where primary heating is forced-air furnace, each dwelling unit must have at least one programmable thermostat that can control the heating and cooling system to allow heating temperatures down to 55°F and cooling temperatures up to at least 85°F.	
	Programmable Thermostat	
	Filter Fan Fan <t< th=""></t<>	

Heat Pump Thermostat		
Code Section	403.1.2	
Checklist Item #	[FI10]	
Description	Heat pumps must have a thermostat that will prevent supplemental electric- resistance heat from operating when the heating load can be satisfied by the heat pump.	

Masonry Wood Burning Fireplaces		
Code Section	402.4.3	
Checklist Item #	[F18]	
Description	All site-built masonry wood burning fireplaces must have outside combustion air and gasketed doors. For more information, see the clarification on this provision for the Georgia DCA from the International Codes Council.	

Heated Swimming Pools		
Code Section	403.9 [F]12]	
Code Value	N/A	
Description	Heated swimming pools where the water is greater than 90°F must be provided with vapor retardant covers, an R-12 blanket, and controls to allow automatic time control of the circulating pumps and to automatically turn off the pool heating equipment.	