

Comparison of 2009 and 2015 Alabama Energy Codes

For Updates Visit <http://www.adeca.alabama.gov/Divisions/energy/Pages/EnergyCodes.aspx>

* 2015 Alabama Energy Code had to be a minimum of a 30% improvement in efficiency over 2006 IECC (Federal Mandate)

2009	2015																																															
<u>Wall Insulation = R-13</u>	<u>Wall Insulation = R-13</u>																																															
<u>Ceiling Insulation = R-30</u>	<u>Ceiling Insulation = R-30</u>																																															
<u>Fenestration SHGC = 0.30</u>	<u>Fenestration SHGC = 0.27</u>																																															
<u>Fenestration U-Factor = 0.65 CZ2 / 0.50 CZ3</u>	<u>Fenestration U-Factor = 0.35</u>																																															
<u>Duct Insulation = R-8/6 minimum</u>	<u>Duct Insulation = R-8/6 minimum</u>																																															
<u>No Trade-off for Increase in HVAC/WH Efficiencies</u>	<u>Amended to Include Trade-offs for Increases in HVAC/WH Efficiencies to Meet Mandate</u>																																															
<u>Duct Leakage</u> <ul style="list-style-type: none"> - RITnah ≤ 4% (CFM25/Floor Area Served x100) - RIT ≤ 6% (CFM25/Floor Area Served x100) - PCT ≤ 12% (CFM25/Floor Area Served x100) - PCO ≤ 8% (CFM25/Floor Area Served x100) 	<u>Duct Leakage</u> <ul style="list-style-type: none"> - RITnah ≤ 3% (CFM25/Floor Area Served x100) - RIT ≤ 4% (CFM25/Floor Area Served x100) - PCT ≤ 4% (CFM25/Floor Area Served x100) - PCO <u>No Longer Approved</u> 																																															
<u>Thermal Envelope</u> <ul style="list-style-type: none"> - Visual Inspection Mandatory - Optional BD test < 7 ACH50 	<u>Thermal Envelope</u> <ul style="list-style-type: none"> - Blower Door Test Mandatory < 5 ACH50 																																															
<u>50% High-Efficacy Lighting (CFL/LED)</u>	<u>75% High-Efficacy Lighting (CFL/LED)</u>																																															
<u>Certificate Optional</u>	<u>Certificate Mandatory</u> <ul style="list-style-type: none"> - All installed R-values - Duct location & R-value - Fenestration U & SHGC - Duct & Building Leakage Test Results - Water Heating Efficiency - HVAC System Efficiency - List Unvented Combustion and Electric Space Heating Appliances 																																															
<u>Ventilation</u> <ul style="list-style-type: none"> - Not Mandatory Under IECC 	<u>Ventilation</u> <ul style="list-style-type: none"> - Mandatory Using Ventilation Rates in Chapter 15 of IRC 																																															
	<table border="1"> <thead> <tr> <th rowspan="2">DWELLING UNIT FLOOR AREA (square feet)</th> <th colspan="5">NUMBER OF BEDROOMS</th> </tr> <tr> <th>0-1</th> <th>2-3</th> <th>4-5</th> <th>6-7</th> <th>>7</th> </tr> </thead> <tbody> <tr> <td>< 1,500</td> <td>30</td> <td>45</td> <td>60</td> <td>75</td> <td>90</td> </tr> <tr> <td>1,501 – 3,000</td> <td>45</td> <td>60</td> <td>75</td> <td>90</td> <td>105</td> </tr> <tr> <td>3,001 – 4,500</td> <td>60</td> <td>75</td> <td>90</td> <td>105</td> <td>120</td> </tr> <tr> <td>4,501 – 6,000</td> <td>75</td> <td>90</td> <td>105</td> <td>120</td> <td>135</td> </tr> <tr> <td>6,001 – 7,500</td> <td>90</td> <td>105</td> <td>120</td> <td>135</td> <td>150</td> </tr> <tr> <td>> 7,500</td> <td>105</td> <td>120</td> <td>135</td> <td>150</td> <td>165</td> </tr> </tbody> </table>	DWELLING UNIT FLOOR AREA (square feet)	NUMBER OF BEDROOMS					0-1	2-3	4-5	6-7	>7	< 1,500	30	45	60	75	90	1,501 – 3,000	45	60	75	90	105	3,001 – 4,500	60	75	90	105	120	4,501 – 6,000	75	90	105	120	135	6,001 – 7,500	90	105	120	135	150	> 7,500	105	120	135	150	165
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<u>Compliance Alternative</u> <ul style="list-style-type: none"> - Simulated Performance Alternative (R405) 	<u>Compliance Alternative</u> <ul style="list-style-type: none"> - Simulated Performance Alternative (R405) - Rescheck 2009 - Energy Rating Index Compliance Alternative (R406) - HERS Index of 70 or Better 																																															