

# Maryland Residential Compliance Checklist

2009 International Energy Conservation Code  
Climate Zone 4 and 5



Date: \_\_\_\_\_ Name of Evaluator(s): \_\_\_\_\_

Building Name & Address: \_\_\_\_\_ Conditioned Floor Area: \_\_\_\_\_ ft<sup>2</sup>

Building Contact: Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Compliance Approach:  Prescriptive (402.1.2 or 402.1.3)  UA Trade-Off (402.1.4)  Building Performance (405)

State: \_\_\_\_\_ Jurisdiction: \_\_\_\_\_

Building Type: 1- and 2-Family, Detached:  Single Family  Modular  Townhouse

Multifamily:  Apartment  Condominium

Project Type:  New Construction  Addition to existing building  Existing building renovation<sup>1</sup>

Code Section	Pre-Inspection/Plan Review	Code Value	Verified Value	Complies			Comments/Notes/Findings
				Y	N	N/A	
[103.2] <sup>1</sup>	Construction drawings and documentation submitted and available. Documentation sufficiently demonstrates energy code compliance.			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.6] <sup>1</sup>	HVAC loads calculations: Heating system size(s): Cooling system size(s):		kBtu: _____ kBtu: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Item Number	Foundation Inspection	Code Value	Verified Value	Complies			Comments/Notes/Findings
				Y	N	N/A	
[402.2.8, 303.2] <sup>1</sup>	Slab edge insulation R-value. Installed per manufacturer's instructions.	Unheated: R-10 Heated: R-15	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.2.8] <sup>1</sup>	Slab edge insulation depth/length	Heated: 2 ft.	_____ ft.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.1.1, 303.2] <sup>1</sup>	Basement wall exterior insulation R-value <sup>1</sup> . Installed per manufacturer's instructions.	R-10	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.2.7] <sup>1</sup>	Basement wall exterior insulation depth	10 ft. or to basement floor	_____ ft.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.2.9, 303.2] <sup>1</sup>	Crawl space wall insulation R-value. Installed per manufacturer's instructions.	R-10 (cont.) R-13 (cavity)	R-_____ R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.8] <sup>1</sup>	Snow melt controls			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[303.2.1] <sup>2</sup>	Insulation protection			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<sup>1</sup> Basement insulation is not required in warm-humid locations (see checklist instructions).

Code Section	Framing / Rough-In Inspection	Code Value	Verified Value	Complies			Comments/Notes/Findings
				Y	N	N/A	
[402.1.1, 402.2.5, 402.2.6, 303.2] <sup>1</sup>	Floor insulation R-value (requirement varies depending on floor type). Installed per manufacturer's instructions.	CZ 4: R-19 (wood) (steel) <sup>2</sup>  CZ 5: R-30 or equivalent to fill the cavity	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.1, 402.5, 402.3.3, 402.3.5] <sup>1</sup>	Glazing U-factor (including sunrooms) <sup>3</sup>	Sunrooms: U-0.5 Other: U-0.35 (0.48 max) <sup>4</sup>	U-_____  U-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.1, 402.3.5] <sup>1</sup>	Skylight U-factor (including sunrooms) <sup>3</sup>	U-0.60	U-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[303.1.3] <sup>1</sup>	NFRC labels present			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.1.2, 402.3.3] <sup>1</sup>	Glazing SHGC value		N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.1.1, 303.2] <sup>1</sup>	Mass wall exterior insulation R-value. Installed per manufacturer's instructions.	R-5 <sup>5</sup> (CZ4) R-13 (CZ5)	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.2.1] <sup>1</sup>	Duct insulation	R-8 (attic supply) R-6 (other)	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.2.2] <sup>1</sup>	Duct sealing complies with listed sealing methods			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.2.2] <sup>1</sup>	Duct tightness testing	8 cfm (to outdoors) 12 cfm	_____ cfm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.2.3] <sup>1</sup>	Building cavities NOT used for supply ducts			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.3] <sup>2</sup>	HVAC piping insulation	R-3	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.5] <sup>2</sup>	Dampers installed on all outdoor intake and exhaust openings			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.4] <sup>2</sup>	Circulating hot-water piping insulation	R-2	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.4.5] <sup>2</sup>	Recessed lighting fixtures meet infiltration criteria			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.4.4] <sup>2</sup>	Glazed fenestration air leakage: Swinging door air leakage	0.3 cfm/ft <sup>2</sup> 0.5 cfm/ft <sup>2</sup>	_____ cfm/ ft <sup>2</sup>  _____ cfm/ ft <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Steel frame equivalent: R-19+R-6 in 2x6 or R-19+R-12 in 2x8 or 2x10  
Up to 15 ft<sup>2</sup> of glazed fenestration, including skylights, may be exempted from U-factor and SHGC requirements under the prescriptive approach.  
U-factor mandatory maximum using trade-offs  
If more than 1/2 the insulation is on the interior, checklist item #IN1 applies (R-10).

Code Section	Insulation Inspection	Code Value	Verified Value	Complies			Comments/Notes/Findings
				Y	N	N/A	
[402.1.1 402.2.5 402.2.4, 303.2] <sup>1</sup>	Wall insulation R-value. Installed per manufacturer's instructions.	CZ 4: Wood: R-13 Mass: R-10 <sup>6</sup> (Steel) <sup>7</sup>  CZ 5: Wood: R-20 or 13+5 Mass: R-17 <sup>8</sup> (Steel) <sup>9</sup>	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.1.1] <sup>1</sup>	Basement wall interior insulation R-value. Installed per manufacturer's Instructions.	R-10 (cont) R-13 (cavity)	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.2.7] <sup>1</sup>	Basement wall interior insulation depth	10 ft or to basement floor	_____ ft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.2.11] <sup>1</sup>	Sunroom wall insulation. Installed per manufacturer's Instructions.	R-13	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.4.1, 402.4.2] <sup>1</sup>	Air sealing complies with sealing requirements or tested	Visual or ACH 50<=7	ACH 50 = _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[303.1] <sup>2</sup>	All installed insulation labeled or installed R-value provided			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Code Section	Final Inspection Provisions	Code Value	Verified Value	Complied			Comments/Notes/Findings
				Y	N	N/A	
[402.1.1 402.2.1 402.2.2, 303.1.1.1,303.2] <sup>1</sup>	Ceiling insulation R-value. Installed per manufacturer's instructions. Blown insulation marked every 300 ft <sup>2</sup> .	R-38	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.2.3] <sup>1</sup>	Attic access hatch and door insulation	R-38	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.2.11] <sup>1</sup>	Sunroom ceiling insulation. Installed per manufacturer's instructions	R-19	R-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.1.1, 402.3.4] <sup>1</sup>	Door U-factor	U-0.35 <sup>10</sup>	U-_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.6] <sup>1</sup>	Heating and cooling equipment type, make and model as per plans			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[404.1] <sup>1</sup>	Lighting - 50% of lamps are high efficacy			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.1.1] <sup>2</sup>	Programmable thermostats installed on forced air furnaces			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.3] <sup>2</sup>	Heat pump thermostat installed on heat pumps			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[402.4.3] <sup>2</sup>	Fireplace - gasketed doors and outdoor air for combustion			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[403.4] <sup>2</sup>	Circulating service hot water			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<sup>6</sup> Mass equivalent: If more than 1/2 the insulation is on the exterior, checklist item #FR6 applies (R-5).

<sup>7</sup> Steel frame equivalent: R-13+R-5; R-15+R-4; R-21+R-3; R-0+R-10

<sup>8</sup> Mass equivalent: If more than 1/2 the insulation is on the exterior, checklist item #FR6 applies (R-5).

<sup>9</sup> Steel frame equivalent: R-13+R-5; R-15+R-4; R-21+R-3

<sup>10</sup> One side-hinged door up to 24 ft<sup>2</sup> can be exempted from the prescriptive door U-factor requirements.

	systems have automatic or accessible controls						
[403.9]	Pool heaters, covers, and automatic or accessible controls			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
[401.3]	Certificate posted			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Additional Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_