

**Talbot County, Maryland  
Residential Data Collection Checklist  
2012 International Energy Conservation Code  
Climate Zone 4A**

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

Building Name & Address: \_\_\_\_\_

Conditioned Floor Area: \_\_\_\_\_ ft<sup>2</sup>

Compliance Approach (check all that apply):       Prescriptive               Trade-Off               Performance

Compliance Software Used: \_\_\_\_\_ Green Building/Above-Code Program \_\_\_\_\_

Building Type:     Single Family     Modular     Building Addition     Building Renovation

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

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				Y	N		N/A	
402.1.1	Slab edge insulation R-value.	Unheated: R-10 Heated: R-15	R- _____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.2 402.2.9	Slab edge insulation installed per manufacturer's instructions.		kBtu _____ kBtu _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.2.9	Slab edge insulation depth/length	2 ft.	_____ ft	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.1.1	Basement wall exterior insulation R-value	Continuous: R-10/13	R- _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.2.8	Basement wall exterior insulation depth	10 ft. or to basement floor	_____ ft.	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.2.10	Crawl space wall insulation	Continuous: R-10 Cavity: R-13	R- _____ R- _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.2.10	Crawl space continuous vapor retarder installed with joints overlapped by 6 inches and sealed, and extending at least 6" up the stem wall.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.2.1	Exposed foundation insulation protection.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	

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402.1.1, 402.3.4	Door U-factor	U-0.35	U-_____				N/A	
402.1.1, 402.3.1, 402.3.3,402.5	Glazing U-factor (area-weighted average). <sup>4</sup>	U-0.35 (0.48 max) <sup>5</sup>	U-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.1.1, 402.3.2, 402.3.3	Glazing SHGC value, including sunrooms (area-weighted average).	N/A	SHGC: _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.1.3	Glazing labeled for U-factor for default values used).			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.1.1, 402.3.3, 402.5	Skylight U-factor	U-0.55 (0.75 max) <sup>5</sup>	U-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.1.1, 402.3.3	Skylight SHGC value	N/A	SHGC: _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.1.3	Skylights labeled for U-factor (or default values used).			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.3.5	Sunroom glazing U-factor.	U-0.55	U-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.1.1	Mass wall exterior insulation R-value	R-8	R-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.2	Mass wall exterior insulation installed per manufacturer's instructions			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.2.1	Duck insulation.	Attic Supply: R-8 Other R-6	R-_____ R-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.2.2	Duct sealing complies with listed sealing methods.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.2.2	Duct tightness via rough-in test. If applicable, verification via post-construction test should be marked N/A.	Across System; 4cfm No air Handler; 3cfm	_____cfm	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.2.3	Building cavities NOT used for supply or plenums.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.4.4	IC-rated recessed lighting fixtures meeting infiltration criteria.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.3	HVAC piping insulation	R-3	R-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.4.1	Circulating hot-water system. Readily Accessing Switch			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.5	Dampers installed on all outdoor intake and exhaust openings.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.5.1	Whole house ventilation system efficacy.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	

**Mechanical Ventilation System Fan Efficacy (table R403.5.1)**

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
Range Hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any
For SI: 1 cfm=28.3L/min			
402.4.3	Glazed fenestration air leakage	0.3 cfm/ft <sup>2</sup>	_____cfm/ft
402.4.3	Swinging door air leakage	0.5 cfm/ft <sup>2</sup>	_____cfm/ft

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402.1.1 402.2.6 402.2.7	Floor insulation R-value	Wood: R-19 Steel: See Table 402.2.6	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.2	Floor insulation installed per manufacturer's instructions and in substantial contact with the subfloor			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.1.1 402.2.6 402.2.5	Wall insulation R-value	Wood: R-20 13+5 Mass R-8/13 Steel: See Table 402.2.6		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.2	Wall insulation installed per manufacturer's instructions			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.1.1	Basement wall interior insulation R-value	Continuous: R-10 Cavity: R-13	R-_____ R-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.2	Basement wall interior insulation installed per manufacturer's instructions.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.2.8	Basement wall interior installed per manufacturer's instructions.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.2.12	Sunroom wall insulation R-value.	R-19	R-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.2	Sunroom wall insulation installed per manufacturer's instructions.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.2.12	Sunroom ceiling insulation R-value.	R-19	R-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.2	Sunroom ceiling insulation installed per manufacturer's instructions.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.4 402.4.1.2	Air sealing complies with sealing requirements via blower door test. If applicable, verification via visual inspection should be marked N/A.	ACH 50 <sub>≤3</sub>	ACH 50=___	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.1	All installed insulation labeled or installed R-value provided.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.4 402.4.1	Air sealing of all openings and penetrations via visual inspection: <ul style="list-style-type: none"> <li>Site-built fenestration</li> <li>Window/door openings</li> <li>Utility penetrations</li> <li>Attic access openings</li> </ul> If applicable, verification via blower door should be marked N/A.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.4.1.1 402.4.1.2.	Air sealing of all envelope joints and seams via visual inspection: <ul style="list-style-type: none"> <li>Dropped ceiling</li> <li>Knee walls</li> <li>Assemblies</li> <li>Tubs and showers</li> <li>Common walls between units</li> <li>Rim joist junctions</li> </ul> If applicable, verification via blower door should be marked N/A			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	

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402.4.1.1 402.4.1.2	Air sealing of all other sources of infiltration, including air barrier, via visual inspection. If applicable, verification via blower door should be marked N/A.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	

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402.1.1 402.2.1 402.2.2 402.2.3	Ceiling insulation R-value	Wood: R-49 Steel Truss Steel Joist: R-49	R-_____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
303.1.1.1	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300ft <sup>2</sup> .			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.2.4	Attic access hatch and door insulation.	R-49	R-_____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.2.2	Duct tightness via post-construction test. If applicable verification via rough-in test should be marked N/a.	4 cfm		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.6	Heating and cooling equipment type and capacity as per plans.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
404.1	Lighting – 75% of lamps are high efficacy.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.8	Snow melt controls.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
401.3	Certificate posted.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
402.4.2	Wood burning fireplace – gasketed doors and outdoor air for combustion.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.1.1	Programmable thermostats installed on forced air furnaces.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.1.2	Heat pump thermostats installed on heat pumps.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.4	Circulating service hot water systems have automatic or accessible manual controls.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
404.1.1	Fuel gas lighting shall not have continuously burning pilot.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
403.9	Pool heaters, covers, and automatic or accessible manual controls.			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	