

State of Maryland

2018 International Energy Conservation Code Code Compliance Checklist (for Residential Buildings, Building Sites, Associated Systems and Equipment Located in Climate Zone 4A)

Permit Number: _____ Date: _____ Reviewer: _____

Project Contact Name: _____ Phone _____ Email: _____

Project Name: _____ Address: _____

Subdivision, if applicable: _____ Lot #, if applicable: _____

Jurisdiction: _____

Compliance Approach (Check all that apply):

- Prescriptive Path Simulated Performance Alternative Energy Rating Index (R406)
 Prescriptive R-Value (Table R402.1.2) (R405)
 Prescriptive U-Factor Alternative (Table R402.1.4)
 Total UA Alternative (R402.1.5)

Building Type:

- Single-Family Dwelling Two-Family Dwelling Modular Townhouse*
 R-2* R-3* R-4* (* 3-story or less in height above grade plane)

Foundation Type:

- Conditioned Basement Slab-on-Grade Floor over Conditioned Crawl Space Floor over Unconditioned Space

Project Type:

- New Building Addition Alteration Repair

Note: In Checklist N/O = Not Observable; N/A = Not Applicable | Shaded cells mark **Mandatory** requirements

- * Changed items
 ** New items

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
R103.1; R103.2		Construction drawings and documentation available and demonstrate energy code compliance.			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
R302.1; R403.7 Mandatory		Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official	Heating Btu/hr: _____ Cooling Btu/hr: _____	Heating Btu/hr: _____ Cooling Btu/hr: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R303.1.3; Table R303.1.3(1); Table R303.1.3(2)		U-factors of fenestration products are determined in accordance with the NFRC test procedure and labeled or taken from the default table		<input type="checkbox"/> Labeled <input type="checkbox"/> Default U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R303.1.3; Table R303.1.3(3)		SHGC values are determined in accordance with the NFRC test procedure and labeled or taken from the default table		<input type="checkbox"/> Labeled <input type="checkbox"/> Default SHGC: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R303.1; R303.1.1; R303.1.2		All insulation installed insulation labeled or installed R-values provided, and R-value marks are readily observable			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R303.2.1	Exposed foundation insulation protection	Rigid, opaque, weather-resistant, protective covering extends not less than 6" below grade; covers any exposed exterior foundation insulation		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R303.2		All insulation installed per manufacturer's instructions		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R303.3	Maintenance information for equipment and systems that require preventative maintenance	Maintenance instructions furnished and equipment labeled			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
Section R 402 Building thermal envelope					
*R402.1.1	Vapor retarder	Wall assemblies in building thermal envelope comply with vapor retarder requirements in IRC R702.7 or IBC 1404.3 as applicable			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.1; Table R402.1.2; Table R402.1.4;	Floor insulation R-Value Or U-Factor	R-19 Or U-0.047	R: _____ Or U: _____	R: _____ Or U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.1; Table R402.1.2	Slab edge insulation R- Value	Unheated: R-10 Heating: R-15	R: _____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	R: _____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.1; Table R402.1.2; Table R402.1.4	Conditioned basement wall insulation R-value	Cavity: R-13 Continuous: R-10 OR U-0.059	Type: <input type="checkbox"/> Cavity <input type="checkbox"/> Continuous R: _____ OR U: _____	Type: <input type="checkbox"/> Cavity <input type="checkbox"/> Continuous R: _ _____ OR U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
R402.1; Table R402.1.2; Table R402.1.4	Mass wall exterior insulation R-value. If more than 1/2 of the insulation is on the wall interior, the interior insulation requirement applies and verification may occur during Insulation Inspection	Exterior R-8 Interior R-13 OR U: 0.098	Exterior R-Value: Interior R-Value OR U: _____	Exterior R-Value: Interior R-Value OR U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.1; Table R402.1.2; Table R402.1.4	Above grade wood frame wall Insulation R-Value or U-factor	R13+5 Or R-20 Or U-0.060	R: _____ Or U: _____	R: _____ Or U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.1; Table R402.1.2; Table R402.1.4	Unvented crawl space wall insulation R-Value	Cavity: R-13 Continuous:R-10 OR U-0.065	Type: <input type="checkbox"/> Cavity <input type="checkbox"/> Continuous R: _____ OR U: _____	Type: <input type="checkbox"/> Cavity <input type="checkbox"/> Continuous R: _ _____ OR U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
Table R402.1.2; R402.3.3	Skylight U-Factor	U-0.55	U: _____	U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.1; R402.2.1; R402.2.2; Table R402.1.2; Table R402.1.4	Ceiling insulation R- Value or U-Factor	R-49 OR R-38 full depth at eaves OR R-30 ceiling w/o attic space (limited to 500 Sq Ft or 20% of roof area, whichever is less) OR U-0.026	R: _____ OR Full depth R: _____ OR Ceiling w/o attic Sq Ft: _____ % of Roof area: _____ R: _____ OR U: _____	R: _____ OR Full depth R: _____ OR Ceiling w/o attic Sq Ft: _____ % of Roof area: _____ R: _____ OR U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
Table R402.1.2; R402.3.1; R402.3.3	Glazing U-Factor individual OR Area weighted average	U-0.35	U: _____	U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
Table R402.1.2; R402.3.2; R402.3.3	Glazing SHGC individual OR Area weighted average	SHGC-0.40	SHGC: _____	SHGC: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
Table R402.1.2; R402.3.2; R402.3.3	Skylight SGHC	SHGC-0.40	SHGC: _____	SHGC: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
Table R402.1.2; R402.3.4	Door U-Factor	U-0.35	U: _____	U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.2.3	Eave baffles	Installed in vented attics with air-permeable insulation		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.2.4	Attic hatches and doors	Weather-stripped and insulated to full insulated value of surrounding surface; blocking provided for loose fill insulation		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
R402.2.9	Conditioned basement wall insulation depth below grade; extends to the top of basement wall	From top of basement wall to 10 feet below grade or to the basement floor, whichever is less	Ft: _____ OR <input type="checkbox"/> To Floor	Ft: _____ OR To Floor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.2.10		Slab edge insulation extends to the top of the slab edge			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.2.10; Table R402.1.2	Slab edge insulation depth/length	2 ft (3 ft for heated slab)	Ft: _____	Ft: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.2.11	Unvented crawl space wall insulation	<ul style="list-style-type: none"> Permanently fastened to the wall Extends downward from floor to grade Extends additional 24" horizontally and/or vertically 		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.2.11	Unvented crawl space vapor Retarder	<ul style="list-style-type: none"> Class 1 vapor retarder covers exposed earth Joints overlap 6", sealed/taped Extends at least 6" up stem wall and is attached 		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.2.13	Thermally isolated sunroom insulation	Walls R13 Ceilings R19	Wall R: _____ Ceiling R: _____	Wall R: _____ Ceiling R: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.3.5	Thermally isolated sunroom fenestration U- Factor	U-0.45	U: _____	U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.3.5	Thermally isolated sunroom skylight U- Factor	U-0.70	U: _____	U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.3 Mandatory	Fenestration air leakage tested and labeled Exception: site-built windows	Labeled Leakage < 0.3 cfm per square ft	Labeled Leakage:	Labeled Leakage:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.5 Mandatory	Recessed lighting sealed between housing and interior finish and labeled for air leakage;	Labeled Leakage ≤ 2CFM75	Labeled Leakage: _____	Sealed <input type="checkbox"/> Yes <input type="checkbox"/> No Labeled Leakage:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
*R402.4; Table R402.4.1.1 Mandatory	Recessed Lighting	Sealed to finished surface; Air tight and IC rated		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
*R402.4; Table R402.4.1.1 Mandatory	HVAC register boots that penetrate the thermal envelope	Return and supply register boot shall be sealed to the subfloor , wall covering, or ceiling penetrated by the boot.		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; Table R402.4.1.1 Mandatory	Duct shafts, utility penetrations and flue shafts	Shafts/penetrations opening to unconditioned space are sealed		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Air barrier and thermal envelope	The exterior thermal envelope contains a continuous air barrier		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Air barrier and thermal envelope	Breaks or joints in air barrier are sealed		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Air barrier and thermal envelope	Exterior thermal envelope insulation for framed walls in substantial contact and continually aligned with air barrier		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Air barrier and thermal envelope	Air permeable insulation not used as air barrier		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory		Floor insulation installation		<input type="checkbox"/> Permanent contact with underside of subfloor decking <input type="checkbox"/> Permanent contact with top side of sheathing <input type="checkbox"/> Continuous	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Floor air barrier	Air barrier installed at any edge of exposed insulation		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4; R402.4.1.1; Table R402.4.1.1 Mandatory	Crawl space vapor retarder installation	Exposed Earth covered with Class 1 Vapor retarder; overlapping joints taped		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Crawl space wall insulation installation	Permanently attached to wall		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Corner cavity insulated	R-3 per inch material		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Header cavities insulated	R-3 per inch material		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Narrow cavities	Insulation cut to fit or insulation readily conforms to space		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Knee walls	Sealed		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Foundation and sill plate	Junction sealed		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Top plate and top of exterior wall junction	Junction sealed		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4 R402.4.1 R402.4.1.1 Table R402.4.1.1 Mandatory		Rim joist insulated		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Rim joist air barrier	Rim joist includes the air barrier		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory		Exterior walls adjacent to showers/tubs are Insulated		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Corner cavity insulated	R-3 per inch material		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Header cavities insulated	R-3 per inch material		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Narrow cavities	Insulation cut to fit or insulation readily conforms to space		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Showers/tubs adjacent to exterior wall air barrier	Air barrier at exterior wall separates shower/tub from exterior wall		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Air barrier and electrical/communication boxes	Air barrier installed behind electrical and communication boxes; OR sealed boxes		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Plumbing and wiring	Batt insulation cut to fit around plumbing/wiring or insulation readily conforms to space behind wiring		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Windows, skylights and doors	Space between jambs and framing is sealed		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A

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R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Garage separation	Air sealing between garage and conditioned spaces		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Showers/tubs adjacent to exterior wall air barrier	Air barrier at exterior wall separates shower/tub from exterior wall		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Air barrier and electrical/communication boxes	Air barrier installed behind electrical and communication boxes; OR sealed boxes		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Attic hatch/door/knee wall door air barrier	Access openings, drop down stairs or knee wall doors to unconditioned attic are sealed		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Drop ceilings/soffits	Air barrier in drop ceilings/soffits is aligned with insulation and gaps sealed		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1; R402.4.1.1; Table R402.4.1.1 Mandatory	Concealed sprinklers	Sealed according to manufacturer's recommendations		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.2 Mandatory	Fireplaces	Tightfitting flue dampers or doors; Outdoor combustion air. Factory built fireplace tightfitting doors tested and listed (UL 127); masonry fireplace tightfitting doors tested and listed (UL 907)			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.4 Mandatory	Rooms with fuel-burning appliances (with open combustion air duct providing combustion air to open combustion appliance)	Room sealed, insulated to R-13 (Cavity) or R-8 (continuous); door gasketed; ducts insulated to R8		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.4; R402.4.1.2 Mandatory	Building air leakage tested in accordance with ASTM E 779 or ASTM E 1827 and reported at pressure of 0.2 inch w.g. (50 Pa)	3ACH50 or lower		Test Results: _____ ACH50 If attached unit: <input type="checkbox"/> Guarded test <input type="checkbox"/> Unguarded test	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R402.5; R405	Maximum area- weighted average fenestration U-Factor	U-0.48	Area-Weighted Average Fenestration U: ____	Area-Weighted Average Fenestration U: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
Section R 403 Systems					
R403.1.1 Mandatory	Programmable thermostat	Initially programmed cooling set point $\geq 78^{\circ}\text{F}$ and a heating set point $< 70^{\circ}\text{F}$			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
R403.1.1	Duct insulation for sections of duct in unconditioned space	<u>Unconditioned Attic</u> Ducts \geq 3": R-8 Ducts < 3": R-6 <u>Other Unconditioned Spaces</u> Ducts \geq 3": R-6 Ducts < 3": R-4.2	Location: _____ R-Value: _____ Location: _____ R-Value: _____	Location: _____ R-Value: _____ Location: _____ R-Value: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.1.2 Mandatory	Heat pump supplementary heat	Controls prevent electric resistance supplementary heat operation when heat pump compressor can meet the load (except during defrost)			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.2	Hot water boiler outdoor temperature setback	Control present that lowers boiler water temperature based on outdoor temperature.			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.3.2.1	Sealed air handler	Designated for leakage of no more than 2% of design air flow rate per ASHRAE 193			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.3.2 Mandatory		All joints and seams of ducts, air handlers, and filter boxes are sealed.		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
*R403.3.3 Mandatory	Duct leakage tested with a pressure differential of 0.1 inch w.g. (25 Pa)	Rough-in test OR Postconstruction Test OR Exempt because all ducts and air handler located entirely within the building thermal envelope OR Exempt because ducts serving heat or energy recovery ventilators that are not integrated with ducts serving heating or cooling systems		<input type="checkbox"/> Rough-in test <input type="checkbox"/> Rough-in test with no air handler <input type="checkbox"/> Postconstruction Test <input type="checkbox"/> Exempt	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.3.4	Duct leakage test results	Rough-in Test: 4cfm25 or lower Rough-in Test with No Air Handler: 3cfm25 or lower Postconstruction Test: 4cfm25 or lower		Test Results: _____ cfm 25	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.3.5 Mandatory		Building cavities are not used as ducts or plenums (supply/return)			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
**R403.3.6 Mandatory	Ducts buried within ceiling insulation	The supply and return ducts should have R value \geq R-8. At all points along each duct, the sum of ceiling insulation R-value against and above the top of the duct, and against and below the bottom of the duct, shall not less than R-19, excluding the R-value of the duct insulation.			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
**R403.3.7 Mandatory	Ducts located in conditioned space	Duct should be located completely within the continuous air barrier and within the building thermal envelope. Ducts that are tested to have a maximum leakage rate of 1.5 cfm25/100 SF to the outside,			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
R403.4 Mandatory	Mechanical pipe insulation for pipes capable of carrying fluids >105°F or <55°F	R-3	R: _____	R: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.4.1 Mandatory		Mechanical Pipe Insulation Protected		If Complies: <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.5; R403.5.1 Mandatory	Heat trace systems	Heat Trace Systems, if present, have controls to automatically adjust temperature in accordance with times when heated water is used			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.5; R403.5.1.1; R403.5.2 Mandatory	Recirculation pumps	Heated water circulation systems, if present, are provided with circulation pump. Recirculation pumps controlled by sensing demand for hot water to a fixture or appliance			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.5.3	Hot water pipes: • Pipes $\geq \frac{3}{4}$ " • Serving more than one dwelling unit • Unconditioned space • From water heater to manifold • Under a floor slab • Buried in piping	R-3	R: _____	R: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.5.4	Drain water heat recovery units	Comply with CSA B55.2 Tested to CSAB55.1 Pressure loss <3psi For 1-2 showers Pressure loss <2psi For 3 or more showers			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.6 Mandatory		Automatic or gravity dampers are installed on all outdoor air intakes and exhausts			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.6 Mandatory	Whole-house Mechanical Ventilation	Installed in accordance with the IRC or IMC as applicable			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
** R403.6; Table R403.6.1 Mandatory	Whole-house Mechanical Ventilation Fan Efficacy	A minimum fan efficiency of 1.2 cfm/watt is required for HRV and ER	Fan Location: _____ Fan Efficacy: _____	Fan Location: _____ Fan Efficacy: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.6; Table R403.6.1 Mandatory	Whole-house Mechanical Ventilation Fan Efficacy OR ECM exception (R403.6.1)	Range Hood: <u>2.8 cfm/watt</u> In-line fan: <u>2.8 cfm/watt</u> Bath/utility room $10 \leq \text{cfm} < 90$: <u>1.4 cfm/watt</u> Bath/utility room $90 < \text{cfm}$: <u>2.8 cfm/watt</u>	Fan Location: _____ Fan Efficacy: _____	Fan Location: _____ Fan Efficacy: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.9 Mandatory	Snow melt and ice control systems (if present)	Automatic control capable of shutting system off when pavement temps >50°F w/ no precipitation; Automatic or manual shutoff control when outdoor temperature is above 40°F			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.10; R403.10.1 Mandatory	Residential pools and permanent spas (if present)	In accordance with APSP-145			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
R403.10; R403.10.2 Mandatory	Residential pool and permanent spa heaters (if present)	Accessible on-off switch integral to heater or within 3' (in addition to circuit breaker). No continuously burning pilot light for gas-fired heaters			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.10; R403.10.3 Mandatory	Residential pool and permanent spa heater and pump time switches (if present)	Time switch with automatic turn-off installed or built-in to heaters/pumps Or Public health 24- hour pump exception Or Pump operates solar or waste-heat-recovery heater			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
*R403.10; R403.10.4 Mandatory	Outdoor heated residential pools and outdoor permanent spa covers (if present)	Vapor Retardant Cover OR Other approved vapor retardant means Or More than 75% of energy for heating is from site- recovered energy			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.11 Mandatory	Portable spas (if present)	In accordance with APSP-14			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.10; R403.10.2 Mandatory	Residential pool and permanent spa heaters (if present)	Accessible on-off switch integral to heater or within 3' (in addition to circuit breaker). No continuously burning pilot light for gas-fired heaters			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.10; R403.10.3 Mandatory	Residential pool and permanent spa heater and pump time switches(if present)	Time switch with automatic turn-off installed or built-in to heaters/pumps Or Public health 24- hour pump exception Or Pump operates solar or waste-heat-recovery heater			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R403.12	Residential pools and permanent spas (if present)	In accordance with APSP-15			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
*R404.1 Mandatory	High efficacy lighting	90% or more of lamps or fixtures are high efficacy. Lamps > 40 Watts <input type="checkbox"/> 60Lumens/watt 40 Watts ≥ Lamps >15 Watts <input type="checkbox"/> 50Lumens/watt 15 Watts ≥ Lamps <input type="checkbox"/> 40Lumens/watt	% high efficacy: _____	% high efficacy: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R404.1.1 Mandatory	Fuel gas lighting	No continuously burning pilot light			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
Section R 405 Simulated Performance Alternative					
R405.2; R401.2 Mandatory		All mandatory provisions in section R401 through R404			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O
R405.2	Ducts not completely inside the building thermal envelope	R-6 minimum	R:_____	R:_____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R405.3		Annual energy cost of proposed design is less than or equal to annual energy cost of standard reference design			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O

2018 IECC Section #	Construction Item	Code Requirements	Proposed (Indicated on Plans)	As Constructed	Compliance
Table R405.5.2 (1)	Maryland Amendment	Proposed Design is allowed up to 5 air changes per hour while Standard Reference Design remains 3 air changes per hour.		Result of Air Leakage Test: _____	
Section R 406 Energy Rating Index Compliance Path					
	Maryland Amendment	Rated Design is allowed up to 5 air changes per hour with ERI Reference Design remains 3 air changes per hour.		Result of Air Leakage Test: _____	
R406.2		All mandatory provisions in sections R401 through R404			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R406.2	Pipe insulation minimums	All pipe insulation requirements in R403.5.3 met			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
R406.2		All Prescriptive building thermal envelope requirements and SHGC requirements in Table 402.1.2 or 402.1.4 or the 2009 IECC met			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O <input type="checkbox"/> N/A
*R406.4 Table R406.4	Maximum Energy Rating Index	ERI: 62	ERI: _____	ERI: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O

