PROPOSED CODE AMENDMENTS 2023 Code Amendments

DCA Staff: Jimmy Reynolds Phone: (404) 679-3104 Date Revised: 12/1/2021

ITEM NUMBER	ARTICLE	SUMMARY	PROPONENT	AC TIC N
		Proposed		
IPC – 2023 - 1		Add new text as follows: 306.2.4 Tracer wire. For plastic sewer piping, an insulated copper tracer wire or other approved conductor shall be installed adjacent to and over the full length of the piping. Access shall be provided to the tracer wire or the tracer wire shall terminate at the cleanout between the building drain and building sewer. The tracer wire size shall be not less than 14 AWG and the insulation type shall be listed for direct burial.	Andrea Lanier Papageorge	
IRC-2023-2	M1402.1	Revise section M1402 to read as follows Section M1402 Central Furnaces M1402.1 General Oil-fired central furnaces shall conform to ANSI/UL 727. Electric furnaces shall conform to UL 1995 or UL/CSA/ANCE 60335-2-40.	Robert Glass	
IRC-2023-3	M1403.1	Revise section M1403 to read as follows Section M1403 Heat Pump Equipment M1403.1 Heat pumps Electric heat pumps shall be listed and labeled in accordance with UL 1995 or UL/CSA/ANCE 60335-2-40.	Robert Glass	

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IRC-2023-4	M1412.1	Revise section 'M1412.1 Approval of equipment' to read as follows:	Robert Glass	
		Section M1412 Absorption Cooling Equipment M1412.1 Approval of equipment Absorption systems shall be installed in accordance with the manufacturer's instructions. Absorption equipment shall comply with UL 1995 or UL/CSA/ANCE 60335-2-40.		
IRC-2023-5	M1413.1	Revise section M1413.1 'General.' to read as follows: Section M1413 Evaporative Cooling Equipment M1413.1 General Evaporative cooling equipment and appliances shall comply with UL 1995 or UL/CSA/ANCE 60335-2-40 and shall be installed:	Robert Glass	
IRC-2023-6	M2006.1	Revise section M2006.1 'General.' to read as follows: Section M2006 Central Furnaces M2006.1 General Pool and spa heaters shall be installed in accordance with the manufacturer's installation instructions. Oil-fired pool heaters shall comply with UL 726. Electric pool and spa heaters shall comply with UL 12161. Pool and spa heat pump water heaters shall comply with UL 1995, UL/CSA/ANCE 60335-2-40 or CSA C22.2 No. 236.	Robert Glass	
IRC-2023-7	Chapter 44	Revise Chapter 44 Reference Standards to read as follows: ANCE Association of the Electric Sector Av. Lázaro Cardenas No. 869 Col. Nueva Industrial Vallejo C.P. 07700 México D.F. NMX-J-521/2-40- ANCE 2014/ CAN/CSA- 22.2	Robert Glass	

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DCA Staff: Jimmy Reynolds Phone: (404) 679-3104 Date Revised: 12/1/2021

No. 60335 2 40 12/ UL 60335 2 40:	
Safety of Household and Similar Electric Appliances, Part 2 40: Particular Requirements for Heat Pumps, Air Conditioners and Dehumidifiers	
M1403.1, M1412.1, M1413.1	
ASHRAE	
ASHRAE 1791 Tullie Circle NE Atlanta, GA 30329	
34— <u>2016</u> <u>2019:</u>	
Designation and Safety Classification of Refrigerants	
M1411.1	
CSA	
CSA Group 8501 East Pleasant Valley Road Cleveland, OH 44131- 5516	
CAN/CSA/C22.2 No.	
60335-2-40—20122019 Safety of Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers	
<u>M1402.1,</u> M1403.1, M1412.1, M1413.1, <u>M2006.1</u>	
UL	

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DCA Staff: Jimmy Reynolds Phone: (404) 679-3104 Date Revised: 12/1/2021

	UL LLC		
	333 Pfingsten Road		
	Northbrook, IL 60062		
	1995—20112015 Heating and Cooling Equipment		
	— with revisions through July 2015		
	M1402.1, M1403.1, M1407.1, M1412.1, M1413.1, M2006.1		
	UL/ CSA/ANCE 60335-2-40— 2012 2019		
	Standard for Household and Similar Electrical Appliances — <u>Safety -</u> , Part 2 <u>-40</u> : Particular Requirements for <u>Motor compressors</u> <u>Electrical Heat Pumps</u> , <u>Air-Conditioners and Dehumidifiers</u>		
	<u>M1402.1,</u> M1403.1, M1412.1, M1413.1, <u>M2006.1</u>		
IMC-2023-8		Robert Glass	
	Revise section 908.1 'General' to read as follows:		
	Section 908 Cooling Towers, Evaporative Condensers and Fluid Coolers		
	908.1 General		
	A cooling tower used in conjunction with an air-conditioning appliance shall be installed in accordance with the manufacturer's instructions. Factory-built cooling towers shall be listed in accordance with UL 1995 or UL/CSA 60335-2-40. The standards related to high efficiency cooling towers shall include without limitation the minimum standards prescribed by ASHRAE 90.1.		

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IMC-2023-9	Revise section 918.1 'Forced-air furnaces' to read as follows:	Robert Glass	
	Section 918 Forced-Air Warm-Air Furnaces 918.1 Forced-air furnaces Oil-fired furnaces shall be tested in accordance with UL 727. Electric furnaces shall be tested in accordance with UL 1995 or UL/CSA 60335-2-40. Solid fuel furnaces shall be tested in accordance with UL 391. Forced-air furnaces shall be installed in accordance with the listings and the manufacturer's instructions.		
IMC-2023-10	Revise section 918.2 'Heat pumps' to read as follows: 918.2 Heat pumps Electric heat pumps shall be tested in accordance with UL 1995 or UL/CSA 60335-2-40.	Robert Glass	
IMC-2023-11	Revise section 1101.2 'Factory-built equipment and appliances' to read as follows: Section 1101 General 1101.2 Factory-built equipment and appliances Listed and labeled self-contained, factory-built equipment and appliances shall be tested in accordance with UL 207, 412, 471, or 1995 or UL/CSA 60335-2-40. Such equipment and appliances are deemed to meet the design, manufacture and factory test requirements of this code if installed in accordance with their listing and the manufacturer's instructions.	Robert Glass	
IMC-2023-12	Revise section 916.1 to read as follows DESCRIPTION: Section 916 Pool and Spa Heaters 916.1 General Pool and spa heaters shall be installed in accordance with the manufacturer's instructions. Oil- fired pool and spa heaters shall be tested in accordance with UL 1261. Pool and spa heat pump water heaters shall comply with UL 1995, UL/CSA 60335-2-40 or CSA C22.2 No. 236.	Robert Glass	

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IMC-2023-13	Revise Table 1103.1 to read as follows	Robert Glass	
	TABLE 1103.1 REFRIGERANT CLASSIFICATION, AMOUNT AND OEL Footnote: f. The ASHRAE Standard 34 flammability classification for this refrigerant is 2L, which is a subclass of Class 2		
IMC-2023-14	Revise section 1104.3.1 to read as follows SECTION 1104 SYSTEM APPLICATION REQUIREMENTS 1104.3.1 Air conditioning for human comfort. High probability systems used for human comfort shall use Group A1 or A2L refrigerant. In other than industrial occupancies where the quantity in a single independent circuit does not exceed the amount in Table 1103.1, Group B1, B2 and B3 refrigerants shall not be used in high-probability systems for air conditioning for human comfort.	Robert Glass	
IMC-2023-15	Revise Reference Standards to read as follows: ASHRAE 1791 Tullie Circle, NE Atlanta, GA 30329 15—2016 2019 Safety Standards for Refrigeration Systems 1105.3, 1106.6, 1106.7 34—2016 2019 Designation and Safety Classification of Refrigerants 202, 1102.2.1, 1103.1 CSA Group 8501 East Pleasant Valley Road Cleveland, OH 44131-5516 CSA C22.2 No. 60335-2-40- 2019 Household And Similar Electric Appliances - Safety - Part 2-40: Particular Requirements for Electric Heat Pumps, AirConditioners and Dehumidifiers	Robert Glass	

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	908.1, 918.1, 918.2, 1101.2		
	UL LLC 333 Pfingsten Road Northbrook, IL		
	60062-2096 1995— <u>2011_2015</u>		
	Heating and Cooling Equipment – with revisions through July 2015		
	908.1, 911.1 , 918.1, 918.2, 1101.2		
	60335-2-40-2019		
	Household And Similar Electric Appliances - Safety - Part 2-40: Particular Requirements for Electric Heat Pumps, AirConditioners and Dehumidifiers		
	908.1, 911.1, 918.1, 918.2, 1101.2		
IPC – 2023 - 16	Revise IPC Georgia Amendments to Table 403.1 Change the value in the "Bathtubs/Showers" column for Apartment House in Classification 7 of Table 403.1 Minimum Number of Required Plumbing Fixtures in Georgia's amendments to match the 2018 International Plumbing Code: "1 per dwelling unit".	Ryan Taylor	
IECC-2023-17	Add new definition to section R202 <u>Air-Impermeable Insulation: An insulation that functions as an air barrier or an insulation combined with a atomized sealant-based system that functions as an air barrier.</u>	Joel Martell	
IECC-2023-18	Add footnote "j" to Table 402.1.2 requiring cantilevered floors over outside air to be insulated to R-30.	Mike Barcik, Southface, Bettie	

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Revise Table Header

PROPOSED CODE AMENDMENTS **2023 Code Amendments**

DCA Staff: Jimmy Reynolds Phone: (404) 679-3104 **Date Revised: 12/1/2021** Sleeth & Tim

	Revise Table Header Floor R-Value i-Cantilevered floors over outside air shall be R-30 and the band area above the supporting wall shall be blocked; penetrations of blocking shall be air sealed.	Williams - HBAG	
IECC-2023-19	Add footnote "j" to Table 402.1.4 requiring cantilevered floors over outside air to be maximum Ufactor of 0.035. Revise Table Header Floor U-Factor i-Cantilevered floors over outside air shall be U-0.035 and the band area above the supporting wall shall be blocked; penetrations of blocking shall be air sealed.	Mike Barcik, Southface, Bettie Sleeth & Tim Williams - HBAG	
IECC-2023-20	Add sentence to Appendix RA Georgia Insulation Installation – Passing Grade Details (p.45): Underfloor insulation that makes up portions of the building thermal envelope shall be installed to Passing Grade quality. Two criteria affect installed insulation grading: voids/ gaps (in which no insulation is present in a portion of the overall insulated surface) and compression/incomplete fill (in which the insulation does not fully fill out or extend to the desired depth). Cantilevered floors over outside air shall be R-30 and the band area above the supporting wall shall be blocked; penetrations of blocking shall be air sealed.	Mike Barcik, Southface, Bettie Sleeth & Tim Williams - HBAG	
IECC-2023-21 Georgia Amendments	Revise as Fallows R402.4.1.2 Testing. All one and two-family dwelling units permitted on or after January 1, 2023 shall be tested and verified to less than 4.0 air changes per hour at 50 Pascals (ACH50); all one and two-family dwelling units permitted on or after January 1, 2024 shall be tested and verified to less than 3.0. Testing shall be conducted in accordance with ASTM E 779 or ASTM E 1827 or	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance	

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	ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>code official</i> . Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i> . Testing shall be conducted by a <i>certified duct and envelope tightness (DET) verifier</i> . (Remainder of section left unchanged)	
ASHRAE 90.1	Amend this section of 2015 IECC (similar language applies to ASHRAE 90.1-2013): C402.5 Air leakage—thermal envelope (Mandatory). The thermal envelope of buildings not classified as type R-2 shall comply with Sections C402.5.1 through C402.5.8, or the building thermal envelope shall be tested in accordance with ASTM E 779 at a pressure differential of 0.3 inch water gauge (75 Pa) or an equivalent method approved by the code official and deemed to comply with the provisions of this section when the tested air leakage rate of the building thermal envelope is not greater than 0.40 cfm/ft2 (0.2 L/s · m²). Where compliance is based on such testing, the building shall also comply with Sections C402.5.5, C402.5.6 and C402.5.7.	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance
IECC-2023-23 ASHRAE 90.1	Add new section of 2015 IECC (similar also applies to ASHRAE 90.1-2013): C402.5 Air leakage—thermal envelope for Mid-rise multifamily (Mandatory). The thermal envelope of buildings shall comply with Sections C402.5-MF and C402.5.1-MF C402.5-MF multifamily dwelling testing (Mandatory). All commercial type R-2 multifamily dwellings (regardless of number of stories of dwelling units) shall be tested to less than 5.0 air changes per hour at 50 Pascals (ACH50). As an alternative to ACH50, compliance for commercial type R-2 dwellings may be attained by achieving an Envelope Leakage Ratio at 50 Pascals (ELR50) of less than 0.30 (ELR50 < 0.30, where ELR50 = CFM50 / Envelope Shell Area, in square feet).	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance
IECC-2023-24 ASHRAE 90.1	*Add a new Section C402.5.1MF 'Low-rise multifamily testing protocol (Optional)' to read as follows: C402.5.1-MF multifamily testing protocol (Optional). Commercial type R-2 multifamily dwellings (regardless of number of stories of dwelling units) may (optionally) employ either one or	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana

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	both of the following testing protocols: 1. Utilize multiple fans in adjacent units (commonly referred to as Guarded Blower Door testing) to minimize effect of leakage to adjacent units (not required). 2. Envelope testing of less than 100 percent shall be acceptable assuming a maximum sampling protocol of 1 in 4 dwelling units per floor (if sampled unit passes, the remaining up to three units are deemed to comply; if sampled unit fails, it must be sealed and retested and the remaining up to three units shall also be tested).	Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance	
IECC-2023-25 Georgia Amendments	Amend this section of ASHRAE 90.1-2013 (same requirement as IECC 2015): C401.2 Application Commercial buildings shall comply with one of the following: 1. The requirements of ANSI/ASHRAE/IESNA 90.1 and Section C402.5 (air leakage testing for mid-rise multifamily dwellings)	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance	
IECC-2023-26 Georgia Amendments	R402.4.1.3 Low-rise R-2 multifamily testing (Mandatory). Low-rise R-2 multifamily dwellings shall be tested to less than 5.0 air changes per hour at 50 Pascals (ACH50). As an alternative to ACH50, compliance for Low-rise R-2 dwellings may be attained by achieving an Envelope Leakage Ratio at 50 Pascals (ELR50) of less than 0.30 (ELR50 < 0.30, where ELR50 = CFM50 / Envelope Shell Area, in square feet).	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance	
IECC-2023-27 Georgia Amendments	R402.4.1.3.1 Low-rise multifamily testing protocol (Optional). Where a residential building is classified as R-2, envelope testing may (optionally) employ either one or both of the following testing protocols: 1. Utilize multiple fans in adjacent units (commonly referred to as Guarded Blower Door testing) to minimize effect of leakage to adjacent units (not required). 2. Envelope testing of less than 100 percent shall be acceptable assuming a maximum sampling protocol of 1 in 4 units per floor (if sampled unit passes, the remaining up to three units are deemed to comply; if sampled unit fails, it must be sealed and retested and the remaining up to three units shall also be tested).	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance	

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IECC-2023-28 ASHRAE 90.1	Amend section C402.5 of 2015 IECC (similar applies to ASHRAE 90.1-2013): C402.5 Air leakage—thermal envelope (Mandatory). The <i>thermal envelope</i> of buildings 25,000 s.f. and greater shall comply with Sections C402.5.1 through C402.5.8, or the building <i>thermal envelope</i> shall be tested in accordance with ASTM E 779 at a pressure differential of 0.3 inch water gauge (75 Pa) or an equivalent method approved by the code official and deemed to comply with the provisions of this section when the tested air leakage rate of the building thermal envelope is not greater than 0.40 cfm/ft ₂ (0.2 L/s · m ₂). Where compliance is based on such testing, the building shall also comply with Sections C402.5.5, C402.5.6 and C402.5.7.	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance
IECC-2023-29 ASHRAE 90.1	Add new section of 2015 IECC (similar applies to ASHRAE 90.1-2013): C402.5-LC Air leakage—thermal envelope for Light Commercial buildings under 25,000 sf. (Mandatory). The thermal envelope of buildings under 25,000 s.f. not classified as type R-2 shall be tested in accordance with ASTM E 779 at a pressure differential of 0.3 inch water gauge (75 Pa) or an equivalent method approved by the code official and deemed to comply with the provisions of this section when the tested air leakage rate of the building thermal envelope is not greater than 0.40 cfm/ft2 (0.2 L/s · m2). Where compliance is based on such testing, the building shall also comply with Sections C402.5.5, C402.5.6 and C402.5.7.	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance
IECC-2023-30 ASHRAE 90.1	Amend this section to ASHRAE 90.1-2013 (same requirements for projects using 90.1): C401.2 Application Commercial buildings shall comply with one of the following: 1. The requirements of ANSI/ASHRAE/IESNA 90.1 and Section C402.5-LC (air leakage testing for Light Commercial buildings under 25,000 s.f.)	Mike Barcik, Southface, Abe Kruger, SK Collaborative, Diana Burk, New Buildings Institute, Eric Lacey, Responsible Energy Codes Alliance Shawn Mullins
INC-2023-31	Add section 806 option a *see attached sheet.	Shawii Mullins
IRC-2023-32	Add section 806 option b *see attached sheeteither/or of the previous amendment	Shawn Mullins
IBC-2023-33	Revise Exception 2	Christian N. Dawkins, P.E.

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DCA Staff: Jimmy Reynolds

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Date Revised: 12/1/2021

ACTION: A (Approve as Submitted); R (Approve as Revised); D (Disapprove); W (Withdrawn); CF (Carry Forward)

PROPOSED CODE AMENDMENTS 2023 Code Amendments

DCA Staff: Jimmy Reynolds Phone: (404) 679-3104 Date Revised: 12/1/2021

	1511.1 General.		
	Materials and methods of application for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 15. 1. Roof replacement or roof recover of existing low-slope roof coverings shall not be required to meet the minimum design slope requirement of one-quarter unit vertical in 12 units horizontal (2-percent slope) in Section 1507 for roofs that provide positive roof drainage. 2. Recovering or replacing an existing roof covering shall not be required to meet the requirement for secondary (emergency overflow) drains or scuppers in Section 1502.2 for roofs that provide for positive roof drainage, and have been determined to resist all design loads. For the purposes of this exception, existing secondary drainage or scupper systems required in accordance with this code shall not be removed unless they are replaced by secondary drains or scuppers designed and installed in accordance with Section 1502.2.		
IBC-2023-34	1511.1 General. Materials and methods of application for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 15. Exceptions: 1. Roof replacement or roof recover of existing low-slope roof coverings shall not be required to meet the minimum design slope requirement of one-quarter unit vertical in 12 units horizontal (2-percent slope) in Section 1507 for roofs that provide positive roof drainage and meet the requirements of Section 1608.3 and Section 1611.2. 2. Recovering or replacing an existing roof covering shall not be required to meet the requirement for secondary (emergency overflow) drains or scuppers in Section 1502.2 for roofs that provide for positive roof drainage. For the purposes of this exception, existing secondary drainage or scupper systems required in accordance with this code shall not be removed unless they are replaced by secondary drains or scuppers designed and installed in accordance with Section 1502.2.	Christian N. Dawkins, P.E.	
IBC-2023-35	Add New Section	Christian N.	

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	1502.5 Waterproofing weather-exposed areas. Balconies, decks, landings, exterior stairways, occupied roofs, and similar surfaces exposed to the weather and sealed underneath shall be waterproofed and sloped a minimum of 1/4 unit vertical in 12 units horizontal (2% slope) for drainage away from adjoining walls or assemblies.	Dawkins, P.E.	
IBC-2023-36	Revise as Fallows 1511.3.1.1 Exceptions. A roof recover shall not be permitted where any of the following conditions occur: 1. Where the existing roof or roof covering is water soaked found to have moisture present from Infrared testing (per ASTM C1153–10 (Reapproved 2015)), Electrical Impedance testing (per ASTM D7954/ D7954M –15a) or Nuclear testing (per ANSI/SPRI/RCI NT-1 2012 (Reapproved 2017)) to the extent the existing roof or roof covering cannot be removed and restored on a spot basis, or where the existing roof or roof covering has deteriorated to the point that the existing roof or roof covering it is not adequate as a base for additional roofing. 2. Where the existing roof covering is slate, clay, cement or asbestos-cement tile. 3. Where the existing roof has two or more applications of any type of roof covering	Christian N. Dawkins, P.E.	
IRC-2023-37	R903.5 Waterproofing weather-exposed areas. Balconies, decks, landings, exterior stairways, occupied roofs, and similar surfaces exposed to the weather and sealed underneath shall be waterproofed and sloped a minimum of 1/4 unit vertical in 12 units horizontal (2% slope) for drainage away from adjoining walls or assemblies.	Christian N. Dawkins, P.E.	

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IRC-2023-38	Revise as Fallows R703.7.3	Christian N.	
		Dawkins, P.E.	
	Water-resistive barriers shall be installed as required in Section 703.2 and, where		
	applied over wood based sheathing, shall include a water-resistive, vapor-permeable		
	barrier with a performance at least equivalent to two layers of Grade D paper. The		
	individual layers shall be installed independently such that each layer provides a		
	separate continuous plane and any flashing, installed in accordance with Section		
	R703.4 and intended to drain to the water-resistive barrier shall be directed between		
	the layers over the top of the water-resistive barrier.		
IRC – 2023 – 39	Revise Georgia International Residential Code 2020 Amendments as follows:	Eric Lacey	
Ga Amendments			
	SECTION R303		
	LIGHT, VENTILATION AND HEATING		
	*Revise Section R303.4 'Mechanical ventilation' to read as follows:		
	R303.4 Mechanical ventilation. Where the air infiltration rate of a dwelling unit		
	is 3 air changes per hour or less where tested with a blower door at a pressure of		
	0.2 inch w.c (50 Pa) in accordance with Section N1102.4.1.2, the dwelling unit		
	shall be provided with whole-house mechanical ventilation in accordance with		
	Section M1505.4.		
	(Effective January 1, 2020)		
			1

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