

UNIVERSITY OF CENTRAL FLORIDA

RESIDENTIAL CODE REVIEW
FOR THE 2023 FLORIDA BUILDING
ENERGY CODE

Residential 2024 IECC Changes Review Summary

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Submitted to

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Submitted by

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Residential 2024 IECC Changes Review Summary

Residential 2024 IECC changes with respect to the 2021 IECC and 2023 Florida Building Code, Energy Conservation (FBC-EC) are summarized in the table below. The table contains six columns defined as follows:

2024 IECC Section and Title: The 2024 IECC code section number and title for the code change.

ICC Code Change No.: Proposed code change number in the ICC's *Complete Revision History to the 2024 I-Codes* document.

Change Summary between 2021 IECC and 2024 IECC: Brief description of the code change between the 2021 IECC and 2024 IECC.

Change Summary between 2023 FBC-EC and 2024 IECC: Brief description of the code change between the 2023 FBC-EC and 2024 IECC.

Anticipated Energy Impact on FBC-EC if Adopted: Anticipated energy use impact from the code change if it is adopted in the FBC-EC. "None" means the code change has no or negligible anticipated impact on energy use.

Anticipated Cost Impact on FBC-EC if Adopted: Anticipated construction cost impact from the code change if it is adopted in the FBC-EC. "None" means the code change has no or negligible anticipated impact on construction cost.

References:

2023 Florida Building Code, Energy Conservation, 8th Edition. (2023). International Code Council, Inc. https://codes.iccsafe.org/content/FLEC2023P1

2021 International Energy Conservation Code. (2021). International Code Council, Inc. https://codes.iccsafe.org/content/IECC2021P2

2024 International Energy Conservation Code. (2024). International Code Council, Inc. April 10, 2024 draft

Complete Revision History to the 2024 I-Codes. 2024. International Code Council, Inc.

Residential Code Change Summary for 8th Edition (2023) Florida Energy Code vs. 2024 IECC

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		Chapter R1: So	cope and Administration		
R101.2 Scope		Adds applicable dwelling and building types, a subsection noting application of appendices, and moves "design and construction" language from R101.3 to Scope section	Same as change between 2021 IECC and 2024 IECC	None	None
R101.3 Intent		Revises Intent section language, including adding optional supplemental requirements overview, non-mandatory appendices, and code update cycle discussions	Same as change between 2021 IECC and 2024 IECC	None	None
R101.4 Compliance		Renumbered from R101.5	Same as change between 2021 IECC and 2024 IECC	None	None
R101.4.1 Compliance Materials		Renumbered from R101.5.1	Same as change between 2021 IECC and 2024 IECC except for Florida, the Florida Building Commission approves the software and other materials instead of the code official	None	None
R102.1 Applicability		Renumbered from R101.4	Same as change between 2021 IECC and 2024 IECC	None	None
R102.1.1 Mixed Residential and Commercial Buildings		Renumbered from R101.4.1	Same as change between 2021 IECC and 2024 IECC	None	None
R102.2 Other Laws		Renumbered from R108.3	Same as change between 2021 IECC and 2024 IECC except renumbered from R107.3	None	None
R102.3 Application of References		Renumbered from R108.2	Same as change between 2021 IECC and 2024 IECC except renumbered from R107.2	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R102.4 Referenced Codes and Standards		Renumbered from R108.1	Same as change between 2021 IECC and 2024 IECC except renumbered from R107.1	None	None
R102.4.1 Conflicts		Renumbered from R108.1.1	Same as change between 2021 IECC and 2024 IECC except renumbered from R107.1.1	None	None
R102.4.2 Provisions in Referenced Codes and Standards		Renumbered from R108.1.2	Same as change between 2021 IECC and 2024 IECC except renumbered from R107.1.2	None	None
R102.5 Partial Invalidity		Renumbered from R107.1 and name changed from "General" to "Partial invalidity"	Same as change between 2021 IECC and 2024 IECC, except renumber would be from R105.1	None	None
SECTION R103 CODE COMPLIANCE AGENCY		New section providing code compliance enforcement agency, appointment and deputy language	Same as change between 2021 IECC and 2024 IECC	None	None
R103.1 Creation of Enforcement Agency		Provides enforcement agency creation language	Same as change between 2021 IECC and 2024 IECC	None	None
R103.2 Appointment		Requires that the AHJ be appointed by the chief appointing authority of the jurisdiction	Same as change between 2021 IECC and 2024 IECC	None	None
R103.3 Deputies		Provides for the AHJ's authority to appoint a deputy and other employees	Same as change between 2021 IECC and 2024 IECC	None	None
SECTION R104 ALTERNATIVE MATERIALS, DESIGN AND METHODS OF CONSTRUCTION AND		Renumbered from R102.1	Same as change between 2021 IECC and 2024 IECC	None	None
R104.1.1 Above Code Programs		Renumbered from R102.1.1 and changes the thermal envelope requirements from 2009 IECC table-based efficiencies to thermal	Same renumbering as between 2021 IECC and 2024 IECC, but the FBC-EC does not include additional table-based thermal	None because an above code program	None because an above code program

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		conductance (TC) calculation efficiencies	envelope or thermal conductance (TC) calculation efficiency requirements		
SECTION R105 CONSTRUCTION DOCUMENTS		Renumbered from R103	Same as change between 2021 IECC and 2024 IECC	None	None
R105.1 General		Renumbered from R103.1	Same as change between 2021 IECC and 2024 IECC	None	None
R105.2 Information on Construction Documents		Renumbered from R103.2	Same as change between 2021 IECC and 2024 IECC	None	None
R105.2.1 Building Thermal Envelope Depiction		Renumbered from R103.2.1	Same as change between 2021 IECC and 2024 IECC	None	None
R105.2.2 Solar- ready System		New section stipulating that where a solar-ready zone is provided, the construction documents indicate dedicated roof area, roof and ground loads, and routing of conduit, prewiring, or plumbing	Same as change between 2021 IECC and 2024 IECC	None	None
R105.3 Examination of Documents		Renumbered from R103.3	Same as change between 2021 IECC and 2024 IECC	None	None
R105.3.1 Approval of Construction Documents		Renumbered from R103.3.1	Same as change between 2021 IECC and 2024 IECC	None	None
R105.3.2 Previous Approvals		Renumbered from R103.3.2	Same as change between 2021 IECC and 2024 IECC	None	None
R105.3.3 Phased Approval		Renumbered from R103.3.3	Same as change between 2021 IECC and 2024 IECC	None	None
R105.4 Amended Construction Documents		Renumbered from R103.4	Same as change between 2021 IECC and 2024 IECC	None	None
R105.5 Retention of Construction Documents		Renumbered from R103.5	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
SECTION R106 FEES		Renumbered from R104	The FBC-EC only includes a reserved Fees section R108 (without any content)	None	None
R106.1 Payment of Fees		Renumbered from R104.1 and minor editing	Would be new section in the FBC-EC	None	None
R106.2 Schedule of Permit fees		Renumbered from R104.2	Would be new section in the FBC-EC	None	None
R106.3 Permit Valuation		New section requiring applicant for a permit to provide an estimated value of the work at the time of application	Same as change between 2021 IECC and 2024 IECC	None	None or slightly increased cost
R106.4 Work commencing before Permit Issuance		Renumbered from R104.3	Would be new section in the FBC-EC	None	None
R106.5 Related Fees		Renumbered from R104.4	Would be new section in the FBC-EC	None	None
R106.6 Refunds		Renumbered from R104.5	Would be new section in the FBC-EC	None	None
SECTION R107 INSPECTIONS		Renumbered from R105	Same as change between 2021 IECC and 2024 IECC except renumbered from R104	None	None
R107.2 Required Inspections		Renumbered from R105.2	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.2	None	None
R107.2.1 Footing and Foundation Inspection		Renumbered from R105.2.1	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.2.1	None	None
R107.2.2 Framing and Air barrier Rough-in Inspection.		Renumbered from R105.2.2, adds "air barrier" to title, and replaces existing insulation and fenestration inspection text with expanded air barrier inspection text (insulation and fenestration inspection text moved to new Section R107.2.6)	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.2.2	None or slightly increased stringency	Slightly increased cost

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R107.2.3 Plumbing Rough-in Inspection		Renumbered from R105.2.3 and adds inspection requirements for solar-ready zones where they are provided	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.2.3	None	None or slightly increased cost in applicable solar- ready zone cases
R107.2.4 Mechanical Rough- in Inspection		Renumbered from R105.2.4	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.2.4	None	None
R107.2.5 Electrical Rough-in Inspection		New section stipulating inspection requirements at electrical rough-in, including for solar-ready zones where they are provided	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency	Slightly increased cost
R107.2.6 Insulation and Fenestration Rough-in Inspection		New section stipulating inspection requirements at insulation and fenestration roughin (moved from Section R107.2.2 with slight rewording)	Same as change between 2021 IECC and 2024 IECC	None	None
R107.2.7 Final Inspection		Renumbered from R105.2.5	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.2.5	None	None
R107.3 Reinspection		Renumbered from R105.3	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.3	None	None
R107.4 Approved Third-party Inspection Agencies		Renumbered from R105.4, adds "third-party" to title, and adds requirement that third-party inspection agencies be approved prior to issuance of the building permit	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.4	None	None
R107.4.1 Authorization of Approved third- Party Inspection Agency		New section requiring approved third-party inspection agency provide all requested information for the code official to determine that the agency meets the applicable requirements, and to authorize its work in the jurisdiction.	Same as change between 2021 IECC and 2024 IECC	None	None or slightly increased cost in applicable cases

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R107.4.1.1 Independence		New section requiring that an approved third-party inspection agency be an independent business identity, perform its duties in accordance with the scope of delegated responsibilities established by the code official, disclose any conflicts of interest, and acknowledge in writing that it is authorized to work only within the scope of delegated responsibilities	Same as change between 2021 IECC and 2024 IECC	None	None or slightly increased cost in applicable cases
R107.4.1.2 Equipment		New section that requires that an approved third-party inspection agency have adequate equipment to perform required inspections and tests and that all testing equipment be calibrated as required	Same as change between 2021 IECC and 2024 IECC	None	None or slightly increased cost in applicable cases
R107.4.1.3 Personnel		New section that requires that personnel assigned by an approved third-party inspection agency to perform inspections and testing be trained or credentialed, and documentation of training or credentials be available upon request	Same as change between 2021 IECC and 2024 IECC	None	None or slightly increased cost in applicable cases
R107.4.1.4 Delegated Authority		New section that stipulates that where approved, a third-party inspection agency has the authority to perform delegated inspections and determine compliance or noncompliance of work	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R107.4.2 Approved Third-party Inspection Agency Reporting		New section that stipulates third- party inspection agencies reporting requirements	Same as change between 2021 IECC and 2024 IECC	None	None or slightly increased cost in applicable cases
R107.5 Inspection Requests		Renumbered from R105.5	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.5	None	None
R107.6 Reinspection and testing		Renumbered from R105.6	Same as change between 2021 IECC and 2024 IECC except renumbered from R104.6	None	None
SECTION R108 NOTICE OF APPROVAL		Renumbered from R106	Same as change between 2021 IECC and 2024 IECC	None	None
R108.1 Approval		Renumbered from R106.1	Same as change between 2021 IECC and 2024 IECC	None	None
R108.2 Revocation		Renumbered from R106.2	Same as change between 2021 IECC and 2024 IECC	None	None
SECTION R109 MEANS OF APPEALS		Renumbered from R110	Would be new section in the FBC-EC (Florida already has other means of addressing appeals)	None	Slightly increased cost
R109.1 General		Renumbered from R110.1	Would be new section in the FBC-EC (Florida already has other means of addressing appeals)	None	Slightly increased cost
R109.2 Limitations on Authority		Renumbered from R110.2 and one edit regarding authority to interpret the administration of the code	Would be new section in the FBC-EC (Florida already has other means of addressing appeals)	None	Slightly increased cost
R109.3 Qualifications		Renumbered from R110.3 and adds qualification clarification	Would be new section in the FBC-EC (Florida already has other means of addressing appeals)	None	Slightly increased cost
R109.4 Administration		Renumbered from R110.4 and removes "immediate" from action requirement	Would be new section in the FBC-EC (Florida already has other means of addressing appeals)	None	Slightly increased cost

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
SECTION R110 STOP WORK ORDER		Renumbered from R109	Same as change between 2021 IECC and 2024 IECC	None	None
R110.1 Authority		Renumbered from R109.1	Same as change between 2021 IECC and 2024 IECC	None	None
R110.2 Issuance		Renumbered from R109.2	Same as change between 2021 IECC and 2024 IECC	None	None
R110.3 Emergencies		Renumbered from R109.3	Same as change between 2021 IECC and 2024 IECC	None	None
R110.4 Failure to Comply		Renumbered from R109.4	Same as change between 2021 IECC and 2024 IECC	None	None
		Chapter	r R2: Definitions		<u> </u>
R202 Air-Handling Unit		New definition	The 2023 FBC-EC already has a different but compatible definition for "air-handling unit"	None	None
R202 Approved source		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Automatic Shutoff Control		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Balanced Ventilation System		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Biodiesel Blend		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Common Areas		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Construction Documents		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Continuous Insulation (ci)		Edit changes "building envelope" to "building thermal envelope"	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Continuous Pilot		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Damper		New definition	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R202 Demand Response Signal		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Demand Responsive Control		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Distribution System Efficiency (DSE)		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Duct System		Replaces "continuous passageway" based language with new language using newly defined "ductwork" and "space conditioning equipment" terms	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Ductwork		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Emittance		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Enclosed Reflective Airspace		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Energy Rating Index (ERI)		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Existing Building		New definition	2023 FBC-EC already has a different but compatible definition for "existing building"	None	None
R202 F-Factor (Thermal Transmittance)		New definition	None; 2023 FBC-EC already has the same definition for "F-Factor"	None	None
R202 Fuel Gas		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Fuel Oil		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Grade Plane		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Heat Exchanger		New definition	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
[R202 High- Efficacy Light Sources]		"High-Efficacy Light Sources" term deleted	2023 FBC-EC does not include this definition	None	None
R202 Intermittent Ignition		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Interrupted Ignition		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Knee Wall		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Liquid Fuel		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Living Space		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Low Slope		New definition	2023 FBC-EC has similar definition for "low-sloped roof"	None	None
R202 Occupiable Space		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 On-demand Pilot		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Plenum		New definition	2023 FBC-EC already has a different but compatible definition for "plenum"	None	None
R202 Proposed Design		Replaces "building" with "dwelling unit" and "total building performance with "simulated building performance"	Same as change between 2021 IECC and 2024 IECC		
R202 Radiant Barrier		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Rated Design		Replaces "building" with "dwelling unit"	2023 FBC-EC does not include this definition	None	None
R202 Reflective Insulation		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Renewable Energy Certificate (REC)		Clarifies and expands definition	2023 FBC-EC does not include this definition	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R202 Roof Replacement		Revises definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Simulated Building Performance		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Sleeping Unit		New definition	2023 FBC-EC already has a different but compatible definition for "sleeping unit"	None	None
R202 Solar Ready Zone		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Space Conditioning		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Space Conditioning Equipment		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Steep Slope		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Substantial Improvement		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
R202 Testing Unit Enclosure Area		Replaces definition for "dwelling unit enclosure area" and adds newly defined "sleeping unit" to wall height measurement stipulation	2023 FBC-EC does not include definitions for "testing unit enclosure area" or "dwelling unit enclosure area"	None	None
R202 Work Area		New definition	Same as change between 2021 IECC and 2024 IECC	None	None
		Chapter R3:	General Requirements		
R303.1.1 Building Thermal Envelope Insulation		Adds requirements for what must be included on the certification for reflective insulation	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	None or slightly increased cost in applicable cases
R303.1.2 Insulation Mark Installation		Adds insulation mark exception for roof insulation installed above roof deck	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R303.1.6 Airspaces		New section stipulates requirements for using the R-value of an enclosed reflective airspace or enclosed nonreflective airspace for code compliance	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	None or slightly increased cost in applicable cases
R303.2.2 Radiant Barrier		New section stipulates standard requirements for radiant barriers	2023 FBC-EC already includes standard requirements for radiant barriers	None	None
		Chapter R4: Resi	idential Energy Efficiency		
R401.2 Application		As part of larger revision, removes requirement for residential buildings to comply with removed Section R401.2.5, which in the 2021 IECC, provided additional energy efficiency requirements	The 2023 FBC-EC does not include the requirements of removed IECC Section R401.2.5 except for the 95% load option for Performance compliance	To be determined via analysis of combined revisions	Slightly to somewhat increased cost in applicable Prescriptive cases when replacement Section R408 "credits" based Additional Efficiency Requirements are included
R401.2.1 Prescriptive compliance option		Adds Section R408 "credits" based Additional Efficiency Requirements for the Prescriptive compliance option	An additional Efficiency Requirements option such as IECC Section R408 is not included in the FBC-EC	To be determined via analysis of combined revisions	Slightly to somewhat increased cost in applicable Prescriptive cases
R401.3 Certificate		For the certificate that indicates listed efficiencies, in items 2 and 3 adds "thermal" to "building envelope", in item 7 adds requirement to indicate Section R408 additional efficiency measures selected, and adds item 8 regarding solar-ready zone	2023 FBC-EC already has a comparable requirement in its Energy performance level (EPL) display card	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R402.1 General		Revises referenced building thermal envelope compliance sections to clarify R-value vs. new (revised from Total UA) Component performance alternative Prescriptive compliance options	Same as change between 2021 IECC and 2024 IECC	None	None
R402.1.2 Insulation and fenestration criteria		Adds maximum <i>F-factor</i> requirement for applicable assemblies per new Table R402.1.2 limits	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.1.2		Flips table rows and columns	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.1.2		Changes "Fenestration <i>U</i> -Factor" column label into "Vertical Fenestration <i>U</i> -factor" (now row) label	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.1.2		Separates "Glazed Fenestration SHGC" into "Glazed Vertical Fenestration SHGC" and "Skylight SHGC," and adds new skylight SHGC limits (0.28 in CZs 1 and 2 vs. 0.25 for glazed vertical fenestration in CZs 1 and 2); this maximum skylight limit is lowered from 2021 IECC's (removed) footnote "d" exception for CZs 1-3 which allowed skylight SHGCs up to 0.30	Equivalent FBC-EC Table R402.1.4 does not include SHGC limits	Slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
Table R402.1.2	RED1- 268-22	Adds "Insulation Entirely Above Roof Deck", "Unheated Slab <i>F</i> -factor," and "Heated Slab <i>F</i> -factor" assembly types	Same as change between 2021 IECC and 2024 IECC	None or slightly decreased stringency in applicable cases with insulation above roof deck	None or slightly decreased cost in applicable cases with insulation above roof deck
Table R402.1.2		Decreases maximum allowed skylight <i>U</i> -factors from 0.75 to	Same as change between 2021 IECC and 2024 IECC	Slightly increased stringency in applicable cases	Slightly increased cost in applicable cases

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		0.60 for CZ1 and from 0.65 to 0.60 for CZ2		•	-
Table R402.1.2		Increases maximum allowed ceiling <i>U</i> -factor for CZ2 from 0.026 to 0.030	2023 FBC-EC already has a maximum ceiling <i>U</i> -factor of 0.030 for CZ2	Would make the two codes of equal stringency for applicable Prescriptive and performance compliance cases	None
Table R402.1.2		Removes 2021 IECC footnote "e" which excluded Marine Zone SHGC requirements (for 2024 IECC, included in table)	Equivalent FBC-EC Table R402.1.4 does not include SHGC limits	None	None
Table R402.1.2		2024 IECC footnote "d" ("f" in 2021 IECC) reduces maximum <i>U</i> -factor in Marine CZ 4 and CZs 5 through 8 for vertical fenestration products in provided cases	Would be new footnote in FBC-EC, but does not apply to Florida CZs	None	None
Table R402.1.2		Adds new footnote "e" that provides slab <i>F</i> -Factor details	Same as change between 2021 IECC and 2024 IECC	None	None
R402.1.3 <i>R</i> -value alternative		Adds "F-factor" to section, now allowing assemblies with an R-value of insulation materials equal to or greater than that specified in Table R402.1.3 to be an alternative to the U-factor or F-factor in Table R402.1.2	FBC-EC has different wording, but basically same as change between 2021 IECC and 2024 IECC	None	None
Table R402.1.3		Flips table rows and columns	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.1.3		Changes "Fenestration <i>U</i> -Factor" column label into "Vertical Fenestration <i>U</i> -factor" (now row) label	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.1.3		Adds maximum vertical fenestration <i>U</i> -factor of 0.50 for CZs 0 and 1	Same as change between 2021 IECC and 2024 IECC (for CZ	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
			1; FBC-EC does not include CZ 0)		
Table R402.1.3		Separates "Glazed Fenestration SHGC" into "Glazed Vertical Fenestration SHGC" and "Skylight SHGC," and adds new skylight SHGC limits (0.28 in CZs 1 and 2 vs. 0.25 for glazed vertical fenestration in CZs 1 and 2); this maximum skylight limit is lowered from 2021 IECC's (removed) footnote "b" exception for CZs 1-3 which allowed skylight SHGCs up to 0.30	Same as change between 2021 IECC and 2024 IECC	Slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
Table R402.1.3	RED1- 268-22	Adds "Insulation Entirely Above Roof Deck" assembly type, and breaks "Slab <i>R</i> -value & Depth" assembly type into "Unheated Slab <i>R</i> -value & Depth," and "Heated Slab <i>R</i> -value & Depth" assembly types	Same as change between 2021 IECC and 2024 IECC	None or slightly decreased stringency in applicable cases with insulation above roof deck	None or slightly decreased cost in applicable cases with insulation above roof deck
Table R402.1.3		Decreases maximum allowed skylight <i>U</i> -factors from 0.75 to 0.60 for CZ1 and from 0.65 to 0.60 for CZ2	Same as change between 2021 IECC and 2024 IECC	Slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
Table R402.1.3		Decreases minimum allowed ceiling <i>R</i> -value for CZ2 from 49 to 38	2023 FBC-EC already has a minimum ceiling <i>R</i> -value of 38 for CZ2	Would make the two codes of equal stringency for applicable prescriptive compliance cases	None
Table R402.1.3		New footnote "c" requires slab insulation to be installed in accordance with Section R402.2.9.1¹, which provides	Same as change between 2021 IECC and 2024 IECC (FBC-EC footnote "d" has similar	None or slightly increased stringency in applicable cases	None or slightly increased cost in applicable cases

¹ Appears this section should be "R402.2.10.1" (may be corrected in final version of 2024 IECC).

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		requirements removed from 2021 IECC footnote "d"	language to 2021 IECC footnote "d"		
Table R402.1.3		Moves 2021 IECC footnote "f" regarding basement wall insulation in Warm Humid locations to footnote "d"	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.1.3		Moves 2021 IECC footnote "g" regarding frame wall cavity and continuous insulation to footnote "e"	Same as change between 2021 IECC and 2024 IECC (except moves from footnote "h")	None	None
Table R402.1.3		Moves 2021 IECC footnote "h" regarding mass walls to footnote "f"	Same as change between 2021 IECC and 2024 IECC (except moves from footnote "I" and the FBC-EC does not include reference to mass wall section while both IECC versions do	None	None
Table R402.1.3		Moves 2021 IECC footnote "i" regarding vertical fenestration product <i>U</i> -factor for buildings in certain locations to footnote "g", decreases the included CZs from 3 – 8 to Marine 4 and 5 – 8, and reduces the maximum <i>U</i> -factor from 0.32 to 0.30	Would be new footnote in FBC-EC, but does not apply to Florida CZs	None	None
Table R402.1.3	REPI-35- 21	Adds cavity + continuous and continuous only insulation options for floors, and adds footnote "h" to provide clarifications regarding these options	Cavity + continuous and continuous only insulation options for floor insulation would be new for the FBC-EC	None	None
R402.1.5 Component performance alternative		Changes title from "Total UA alternative" and replaces UA based compliance with thermal conductance (TC) based compliance which combines UA calculation with perimeter * F-factor calculation	Same as change between 2021 IECC and 2024 IECC, but exception makes the perimeter * F-factor calculation the same value for the table-based and proposed calculations for CZs 0 through 2	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R402.1.6 Rooms containing fuel- burning appliances		Renumbered from R402.4.4 and clarifies "building thermal envelope" term	Same as change between 2021 IECC and 2024 IECC	None	None
R402.2.1 Ceilings with attics		Adds exception for Section R402.1.3 requirement of R-38 insulation in the ceiling or attic wherever the full height of uncompressed R-30 insulation extends over the wall top plate at the eaves, and removes a similar exception for when R-60 insulation is required	2023 FBC-EC already has R-38 exception and does not include a R-60 exception	Would make the two codes of equal stringency for applicable Prescriptive compliance cases	None
R402.2.1 Ceilings with attics		Replaces exception reference to "Total UA" alternative with "component performance" alternative for consistency with Section R402.1.5 change	Same as change between 2021 IECC and 2024 IECC	None	None
R402.2.3 Attic knee wall		New section requires that wood attic knee wall assemblies that separate conditioned space from unconditioned attic spaces comply with Table R402.1.3 for wood-framed walls, and steel attic knee wall assemblies comply with Section R402.2.7; also requires that these knee walls have an air barrier between conditioned and unconditioned space	Same as change between 2021 IECC and 2024 IECC	None or slightly decreased stringency for Prescriptive and Performance projects in applicable cases depending on typical practice	None or slightly decreased cost in applicable cases
R402.2.3.1 Roof truss framing separating conditioned and unconditioned space		New section requires that where wood vertical roof truss framing members are used to separate conditioned space and unconditioned space, they must comply with Table R402.1.3 for wood-framed walls, and steel frame vertical roof truss framing	Same as change between 2021 IECC and 2024 IECC	None or slightly decreased stringency for Prescriptive and Performance projects in applicable cases depending on typical practice	None or slightly decreased cost in applicable cases

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		members used to separate conditioned space and unconditioned space must comply with Section R402.2.7			
R402.2.4 Eave baffle		Renumbered from R402.2.3	Same as change between 2021 IECC and 2024 IECC except renumbered from R402.2.3	None	None
R402.2.5 Access hatches and doors		Renumbered from R402.2.4	Same as change between 2021 IECC and 2024 IECC, except FBC-EC combines with insulation retention requirements, while 2021 and 2024 IECC have separate subsection for these requirements	None	None
R402.2.5 Access hatches and doors		Replaces exception reference to "total UA" alternative with "component performance" alternative for consistency with Section R402.1.5 change	Same as change between 2021 IECC and 2024 IECC	None	None
R402.2.5.1 Access hatches and door insulation installation and retention		Renumbered from R402.2.4.1	FBC-EC combines insulation installation and retention requirements with other access hatch door requirements in R402.2.4	None	None
R402.2.6 Mass walls		Renumbered from R402.2.5	Same as change between 2021 IECC and 2024 IECC	None	None
R402.2.7 Steel- frame ceilings, walls and floors		Renumbered from R402.2.6	Same as change between 2021 IECC and 2024 IECC	None	None
R402.2.7 Steel- frame ceilings, walls and floors	RED1- 185-22	Revises section, removing requirement to comply with the insulation R-value requirements of Table R402.2.6, keeping the U-factor requirements of Table R402.1.2, and revises the calculation of the U-factor, now requiring it to be in accordance	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		with AISI S250 with modifications			
[Table R402.2.6 Steel-frame Ceiling, Wall and Floor Insulation R-values]		Table removed as part of Section R402.2.7 revision	Same as change between 2021 IECC and 2024 IECC	None	None
R402.2.8 Floors		Renumbered from R402.2.7	FBC-EC already has same numbering as 2024 IECC	None	None
R402.2.8 Floors		Revises and clarifies floor insulation installation section	Similar to change between 2021 IECC and 2024 IECC	Slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
R402.2.9 Basement walls		Renumbered from R402.2.8	FBC-EC already has same numbering as 2024 IECC	None	None
R402.2.9 Basement walls		Minor rewording	2021 and 2024 IECC have more unconditioned basement exception requirements than 2023 FBC-EC	Slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
R402.2.9.1 Basement wall insulation installation		Renumbered from R402.2.8	FBC-EC already has same numbering as 2024 IECC	None	None
R402.2.9.1 Basement wall insulation installation		Adds phrase "or in accordance with the proposed design or the rated design, as applicable"	Same as change between 2021 IECC and 2024 IECC	None or slight stringency impact in applicable cases	None or slight cost impact in applicable cases
R402.2.10 Slab-on- grade floors		Renumbered from R402.2.9	FBC-EC already has same numbering as 2024 IECC	None	None
R402.2.10 Slab-on-grade floors		Changes floor surface criterion from "less than 12 inches (305 mm) below grade" to "within 24 inches (610 mm) above or below grade"	Same as change between 2021 IECC and 2024 IECC	None or slight stringency impact in applicable cases	None or slight cost impact in applicable cases
R402.2.10.1 Slab- on-grade floor insulation installation		Renumbered from R402.2.9.1	FBC-EC already has same numbering as 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R402.2.10.1 Slab- on-grade floor insulation installation		Makes section requirements only applicable to Prescriptive compliance (Performance and ERI requirements in separate new section); with floor penetration exceptions, requires full-slab insulation to be continuous under the entire area of the floor; and adds heated slab perimeter requirements	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	None or slightly increased cost in applicable cases
R402.2.10.2 Alternative slab-on- grade insulation configurations		New section stipulating that for Performance or ERI compliance, slab-on-grade insulation be installed in accordance with the proposed design or rated design	Same as change between 2021 IECC and 2024 IECC	None or slight stringency impact in applicable cases	None or slight cost impact in applicable cases
R402.2.11 Crawl space walls		Renumbered from R402.2.10	FBC-EC already has same numbering as 2024 IECC	None	None
R402.2.11 Crawl space walls		Changes the crawl space wall insulation requirement from being in accordance with Table R402.1.3 to Section R402.2.11.1 or new 402.2.11.2	Same as change between 2021 IECC and 2024 IECC	None or slight stringency impact in applicable cases	None or slight cost impact in applicable cases
R402.2.11.1 Crawl space wall insulation installations		General rewording including changes to insulation location requirements	Same as change between 2021 IECC and 2024 IECC	None or slight stringency impact in applicable cases	None or slight cost impact in applicable cases
R402.2.11.2 Alternative crawl space wall insulation configurations		New section stipulating that for Performance or ERI compliance, crawl space wall insulation be installed in accordance with the proposed design or rated design	Same as change between 2021 IECC and 2024 IECC	None or slight stringency impact in applicable cases	None or slight cost impact in applicable cases
R402.2.12 Masonry veneer		Renumbered from R402.2.11	FBC-EC already has same numbering as 2024 IECC	None	None
R402.2.13 Sunroom and heated garage insulation		Renumbered from R402.2.12	FBC-EC already has same numbering as 2024 IECC; FBC-EC does not include heated garage provisions	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R402.3 Radiant barriers		New section requiring that where installed, radiant barriers be installed in accordance with ASTM C1743	Same as change between 2021 IECC and 2024 IECC, except the FBC-EC already includes this requirement for Performance compliance	None or slight stringency impact in applicable cases	None or slight cost impact in applicable cases
R402.4 Fenestration		Renumbered from R402.3	Same as change between 2021 IECC and 2024 IECC	None	None
R402.4.1 <i>U</i> -factor		Renumbered from R402.3.1	Same as change between 2021 IECC and 2024 IECC	None	None
R402.4.2 Glazed fenestration SHGC		Renumbered from R402.3.2	Same as change between 2021 IECC and 2024 IECC	None	None
R402.4.3 Glazed fenestration exemption		Renumbered from R402.3.3 and changes reference to "Total UA" to new "component alternative" compliance option	Same as change between 2021 IECC and 2024 IECC	None	None
R402.4.4 Opaque door exemption		Renumbered from R402.3.4 and changes reference to "Total UA" to new "component alternative" compliance option	Same as change between 2021 IECC and 2024 IECC	None	None
R402.4.5 Sunroom and heated garage fenestration		Renumbered from R402.3.5	Same as change between 2021 IECC and 2024 IECC; FBC-EC does not include heated garage provisions	None	None
R402.5 Air leakage		Renumbered from R402.4	Same as change between 2021 IECC and 2024 IECC	None	None
R402.5.1 Building thermal envelope		Renumbered from R402.4.1	Same as change between 2021 IECC and 2024 IECC	None	None
R402.5.1.1 Installation		Renumbered from R402.4.1.1	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation		Renumbered from Table R402.4.1.1	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.5.1.1 Air Barrier, Air Sealing and		Added "Air Sealing" to "Air Barrier Criteria" header	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
Insulation Installation: Air Barrier, Air Sealing Criteria header					
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Ceiling/attic		Adds requirement that air barriers installed in a dropped ceiling or soffit separate it from unconditioned space; removes requirement that the air barrier be aligned with the insulation and any gaps be sealed; and requires that seals for access openings, drop down stairs or knee wall doors to unconditioned attic spaces be sealed with gasketing materials that allow for repeated entrance over time	Same as change between 2021 IECC and 2024 IECC	None or slight stringency impact in applicable cases	None or slight cost impact in applicable cases
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Ceiling/attic		Adds insulation installation requirement that access hatches and doors be installed and insulated in accordance with Section R402.2.5, and eave baffles be installed in accordance with Section R402.2.4	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Walls		Adds "building" to Insulation Installation Criteria section's "exterior thermal envelope" term as clarification.	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Knee wall		New component entry provides Air Barrier, Air Sealing Criteria and Insulation Installation Criteria requirements for knee walls	Same as change between 2021 IECC and 2024 IECC	None or slightly decreased stringency in applicable cases depending on typical practice	None or slight cost impact in applicable cases
Table R402.5.1.1 Air Barrier, Air		Clarifies Air Barrier, Air Sealing Criteria requirements and adds	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
Sealing and Insulation Installation: Windows, skylights and doors		that sealing must be in accordance with fenestration manufacturer's instructions			
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Windows, skylights and doors		Adds Insulation Installation Criteria section entry that insulation is not required in the rough opening gap except as required by the fenestration manufacturer's instructions	Same as change between 2021 IECC and 2024 IECC	None or slightly decreased stringency depending on typical practice	None or slightly decreased cost in applicable cases
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Rim joists		Removes "exterior" from Air Barrier, Air Sealing Criteria section requirement: "Rim joists shall include an exterior air barrier."	FBC-EC already has same requirement as 2024 IECC	None	None
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Floors, including cantilevered floors and floors above garages		Replaces existing Air Barrier, Air Sealing Criteria section requirement that an air barrier be installed at any exposed edge of insulation with requirement that floor framing members that are part of the building thermal envelope be air sealed to maintain a continuous air barrier; also adds requirement that air permeable floor cavity insulation be enclosed	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases depending on typical practice	None or slight cost impact in applicable cases
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Floors, including cantilevered		Replaces existing floor framing cavity Insulation Installation Criteria requirements with requirement that floor insulation be installed in accordance with Section R402.2.8	Same as change between 2021 IECC and 2024 IECC	None or slight stringency impact in applicable cases depending on typical practice	None or slight cost impact in applicable cases

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
floors and floors above garages					
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Basement,		As clarification, puts comma between "basement" and "crawl space" in "Basement, crawl space and slab foundations" component	FBC-EC does not include basements in this component title; instead has component	None (from change)	None (from change)
crawl space and slab foundations		title	title "Crawl space walls"		
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Showers, tubs and fireplaces adjacent to the building thermal envelope		Changes component title from "Shower/tub on exterior wall" to "Showers, tubs and fireplaces adjacent to the building thermal envelope"	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	None or slightly increased cost in applicable cases
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Showers, tubs and fireplaces adjacent to the building thermal envelope		Revises Air Barrier, Air Sealing Criteria requirement wording and adds fireplaces	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	None or slightly increased cost in applicable cases
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Showers, tubs and		Revises Insulation Installation Criteria requirement wording slightly and adds fireplaces	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	None or slightly increased cost in applicable cases

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
fireplaces adjacent to the building thermal envelope					
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Electrical, communication and other equipment boxes, housings and enclosures		Changes component title from "Electrical/phone box on Exterior walls" to "Electrical, Communication and other equipment boxes, housings and enclosures"	FBC-EC already has 2024 IECC language	None	None
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Electrical, communication and other equipment boxes, housings and enclosures		Revises Air Barrier, Air Sealing Criteria requirement air-sealing wording, and adds concealed opening sealing requirement	FBC-EC already has this 2024 IECC language, and adds "the continuity of the air barrier shall be maintained around boxes, housings and enclosures that penetrate the air barrier"	None or slightly decreased stringency in applicable cases	None or slightly decreased cost in applicable cases
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Electrical, communication and other equipment boxes, housings and enclosures		Adds new Insulation Installation Criteria that boxes, housing and enclosures must be buried in or surrounded by insulation	FBC-EC already has this 2024 IECC language	None	None
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation	REPI-50- 21	Removes "that penetrate building thermal envelope" from HVAC boot Air Barrier, Air Sealing Criteria requirement	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
Installation: HVAC register boots				•	•
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: HVAC register boots	RED1-32- 22	Adds new Insulation Installation Criteria that HVAC register boots located within a building thermal envelope assembly be buried in or surrounded by insulation	Same as change between 2021 IECC and 2024 IECC	None	None
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: Common walls or double walls separating attached single-family dwellings or townhouses	RED1- 229-22	New component entry provides Air Barrier, Air Sealing Criteria and Insulation Installation Criteria requirements for common walls or double walls separating attached single-family dwellings or townhouses, including fire- resistance-rating related	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases depending on typical practice	None or slightly increased cost in applicable cases depending on typical practice
Table R402.5.1.1 Air Barrier, Air Sealing and Insulation Installation: footnote "b"	REPI-55- 21	Removes "air barrier" from footnote to clarify that "air barrier" is not intended to be included in this exception, leaving: "Insulation full enclosure is not required in unconditioned/ventilated attic spaces and at rim joists"	FBC-EC does not include this exception footnote	None	None
R402.5.1.2 Air leakage testing	RED1- 222-22	Renumbered from R402.4.1.2, and renamed from "Testing"	Same as change between 2021 IECC and 2024 IECC	None	None
R402.5.1.2 Air leakage testing	REC2D- 8-23	Revises air leakage testing requirement to specify that where applicable, each dwelling unit or (newly defined) sleeping unit in the building must be tested	Same as change between 2021 IECC and 2024 IECC	None	None
R402.5.1.2 Air leakage testing	RED1- 222-22	Air leakage rate limits are moved from this section to Section R402.5.1.3 and revised	Same as change between 2021 IECC and 2024 IECC, except FBC-EC limits air leakage rate	Increased stringency in applicable cases	Increased cost in applicable cases

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
			to 7 ACH50 in Florida Climate Zones while the 2024 IECC limits leakage to 4 ACH50 in Florida Climate Zones (exceptions for each code)		
R402.5.1.2 Air leakage testing	REPI-43- 21	Adds ASTM E3158 testing standard	Same as change between 2021 IECC and 2024 IECC	Not known	None (optional)
R402.5.1.2 Air leakage testing	REPI-57- 21	Adds "differential" to clarify that air leakage testing is conducted and reported at a pressure differential of 0.2 inch water gauge (50 Pascals)	Same as change between 2021 IECC and 2024 IECC	None	None
R402.5.1.2 Air leakage testing		Moves heated, attached private garages and heated, detached private garages exception from before "During testing" items to after these items	FBC-EC does not have a heated garage testing exception	None or slightly decreased stringency in applicable cases	None or slightly decreased cost in applicable cases
R402.5.1.2 Air leakage testing	REPI-61- 21	Adds dwelling and sleeping unit sampling testing exception	FBC-EC does not have a unit sampling option	None or slightly decreased stringency in applicable cases	None or slightly decreased cost in applicable cases
R402.5.1.2 Air leakage testing	RED1- 222-22	Removes individual dwelling units that are 1,500 square feet (139.4 m2) or smaller language from testing exception	FBC-EC does not include this exception	None	None
R402.5.1.2 Air leakage testing	RED1- 222-22	Removes mechanical ventilation requirement from this section (but similar language remains in Section R403.6	FBC-EC does not include this language	None	None
R402.5.1.2.1 Unit sampling	REPI-61- 21	New building air leakage testing sampling provision for buildings with eight or more dwelling units or sleeping units	Same as change between 2021 IECC and 2024 IECC	None or slightly decreased stringency in applicable cases depending on typical practice	Somewhat decreased cost in applicable cases
R402.5.1.3 Maximum air leakage rate	RED1- 224-22 Part I &II	Renumbered section from R402.4.1.3 and renamed from "Leakage rate"	FBC-EC does not include this section	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R402.5.1.3 Maximum air leakage rate	RED1- 224-22 Part I & II	Air leakage rate limits are moved from R402.1.2.1 to this section and revised downward, with exceptions for attached dwelling or sleeping units or when located in an R-2 occupancy, and for buildings with 1,500 square feet (139.4 m²) or less of conditioned floor area	FBC-EC does not include this section; FBC-EC limits air leakage rate to 7 ACH50 in Florida Climate Zones while the 2024 IECC limits leakage to 4 ACH50 in Florida Climate Zones	Increased stringency	Increased cost in applicable cases
R402.5.2 Fireplaces		Renumbered from R402.4.2	Same as change between 2021 IECC and 2024 IECC	None	None
R402.5.3 Fenestration air leakage		Renumbered from R402.4.3	Same as change between 2021 IECC and 2024 IECC	None	None
R402.5.4 Recessed lighting		Renumbered from R402.4.5	Same as change between 2021 IECC and 2024 IECC	None	None
R402.5.5 Air-sealed and electrical and communication outlet boxes	REPI-66- 21	Renumbered from R402.4.6 and renamed from "Electrical and communication outlet boxes (airsealed boxes)"	Except FBC-EC title is "Airsealed electrical and communication boxes"	None	None
R402.5.5 Air-sealed and electrical and communication outlet boxes	REPI-66- 21	Revises wording to clarify section	Makes section language very similar to FBC-EC language	None	None
R402.6 Maximum fenestration <i>U</i> -factor and SHGC		Renumbered from R402.5	FBC-EC does not have this section, but includes (higher) fenestration SHGC limits and an overhang depth alternative for Performance compliance	None (from section number change)	None (from section number change)
R403.1.2 Heat pump supplementary heat	REPI-73- 21	Revises heat pump supplementary heat section language to include fuel gas and liquid fuel heating systems, and further stipulates when supplemental heat can be used	Corresponding FBC-EC section is R403.1.3; FBC-EC has similar language to 2024 IECC but does not include supplementary fuel gas or liquid fuel heating systems	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R403.2 Hot water boiler temperature reset	RECD1- 12-22	Revises language including changing "oil" to "liquid fuel"	FBC-EC uses different language but includes a similar requirement	None	None
R403.3 Duct systems		Renamed from "Ducts"	Same as change between 2021 IECC and 2024 IECC	None	None
R403.3 Duct systems	RED1- 285-22	2021 IECC includes a duct testing exception in Section R403.3.5 for ventilation system ducts that are not integrated with ducts serving heating or cooling systems; the 2024 IECC modifies this exception language slightly and moves it up to Section R403.3 so it now applies to duct system testing and other duct system installation sections from R403.3.3 through R403.3.9	FBC-EC does not state it, but may interpret it the same	None	None
R403.3.1 Duct system design	RED1- 285-22	New section stipulating duct system design and sizing standards based on number of dwelling or sleeping units	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases depending on typical practice	Slightly increased cost in applicable cases
R403.3.2 Building cavities		Renumbered from R403.3.7 and term "ducts" changed to "ductwork"	Same as change between 2021 IECC and 2024 IECC, except renumbered from R403.3.5	None	None
R403.3.3 Ductwork located outside conditioned space		Renumbered from R403.3.1, renamed from "Ducts located outside conditioned space", and term "ducts" changed to "ductwork"	FBCV-EC does not include this section	None (from changes)	None (from changes)
R403.3.4 Duct systems located in conditioned space	RED1- 285-22	Renumbered from R403.3.2, renamed from "Ducts located in conditioned space", and term "ductwork" changed to "duct systems"	FBCV-EC does not include this section	None (from changes)	None (from changes)

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R403.3.4 Duct systems located in conditioned space	RED1- 285-22	Section language revised for clarification purposes; also adds unvented attics with vapor diffusion ports to buried ductwork option	FBCV-EC does not include this section	None from changes, but adopting this IECC section would slightly decrease stringency in applicable cases	None (optional)
R403.3.5 Ductwork buried within ceiling insulation	RED1- 285-22	Renumbered from R403.3.3, renamed from "Ducts buried within ceiling insulation", term "duct" changed to "ductwork", and minor additional text revisions	FBC-EC does not include this section	None (from changes; optional)	None (from changes; optional)
R403.3.5 Ductwork buried within ceiling insulation	REPI-82- 21	Adds items #4 and 4.1 which add an unvented attic (with vapor diffusion port) buried R8 supply duct option for Climate Zones 0A, 1A, 2A and 3A	FBC-EC does not include this section	None (optional)	None (optional)
R403.3.5.1 Effective <i>R</i> -value of deeply buried ducts. Where complying		Renumbered from R403.3.3.1, term "duct" changed to "ductwork", and minor additional text revisions	FBC-EC does not include this section	None (optional)	None
R403.3.6 Sealing	RED1- 285-22	Renumbered from R403.3.4, term "ducts" changed to "ductwork", and minor additional text revisions	Corresponding FBC-EC section is 403.3.2; FBC-EC has similar general intent as 2024 IECC, and in addition references Florida statutes that provide duct tester qualifications	None (from changes)	None (from changes)
R403.3.6.1 Sealed air-handling unit		Renumbered from R403.3.4.1, renamed from "Sealed air handler", and "air handlers" changed to "air-handling units" in text	Same as change between 2021 IECC and 2024 IECC, except renumbered from R403.3.2.1	None	None
R403.3.7 Duct system testing	REPI-86- 21	Renumbered from R403.3.5, renamed from "Duct testing", and revised, removing "rough-in test" and "postconstruction test" based organization	Corresponding FBC-EC section is R403.3.5; FBC-EC has similar language to 2021 IECC outside of testing exceptions and overall content still	None (from changes)	None (from changes)

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
			somewhat similar to 2024 IECC, again outside of testing exceptions		
R403.3.7 Duct system testing	RED1- 285-22	Adds duct testing exception for 10 feet or less of total ductwork when the duct system is entirely in conditioned space and the ductwork does not include building cavity or gypsum board plenums	FBC-EC does not require duct testing for Performance compliance with default leakage or for Prescriptive compliance when ducts are within the building thermal envelope	None	None
R403.3.7 Duct system testing	RED1- 285-22	Adds duct testing exception to section, allowing testing where space conditioning equipment is not installed in these cases, requires total supply and return duct leakage to be less than or equal to 3.0 cfm/sq. ft.; 2021 IECC had same allowance, but applied to Prescriptive only; now also applies to Performance	Same as change between 2021 IECC and 2024 IECC	None (optional)	None (optional)
R403.3.7 Duct system testing	REPI-85- 21	Adds exception to section which, in conjunction with new Section R403.3.9, allows duct testing sampling for buildings with eight or more dwelling units or sleeping units	Same as change between 2021 IECC and 2024 IECC	None or slightly decreased stringency in applicable cases	Slightly decreased cost in applicable cases
R403.3.8 Duct system leakage	RED1- 285-22	Renumbered from R403.3.6, renamed from "Duct leakage", and revised, moving from "roughin test" and "postconstruction test" duct leakage limits organization to limits shown in new Table R403.3.8, based on floor area served by the duct system, equipment and duct configuration, and number of ducted returns	Same as change between 2021 IECC and 2024 IECC (for changes)	Slightly increased or decreased stringency for Prescriptive compliance, depending on area served, configuration, and number of ducted returns; somewhat increased stringency	Slightly increased cost

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
				for Performance compliance	
R403.3.9 Unit sampling	REPI-85- 21	Adds duct testing unit sampling section which, in conjunction with new Section R403.3.7, allows duct testing sampling for buildings with eight or more dwelling units or sleeping units	Same as change between 2021 IECC and 2024 IECC	None or slightly decreased stringency in applicable cases	Slightly decreased cost in applicable cases
R403.4.1 Protection of piping insulation	REPI-87- 21	Minor edit and new requirement that piping protection be removable no less than 6 feet (1828 mm) from the equipment for maintenance	Same as change between 2021 IECC and 2024 IECC	None	None
R403.5.1.1 Circulation systems	RED1- 310-22	Reorganizes language slightly, adds gravity circulation system prohibition, and adds requirement that where a cold water supply pipe is used as the return pipe, a temperature sensor connected to the controls be located on the hot water supply not more than two feet (305 mm) from the connection to the cold water supply pipe	Same as change between 2021 IECC and 2024 IECC, except FBC-EC already includes gravity circulation system prohibition	None	None
R403.5.1.1.1 Demand recirculation water systems	RED1- 310-22	Removes "where installed" and adds specifications on how controls must limit pump operation	Same as change between 2021 IECC and 2024 IECC except FBC-EC section is R403.5.2	Slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
R403.5.2 Hot water pipe insulation Table R403.5.2 Minimum Pipe Insulation Thickness	REPI-89- 21	Changes hot water pipe insulation requirements for stipulated conditions from R3 to 1.0 inch insulation thickness based on fluid operating temperature range and usage as provided in new Table R403.5.2; also removes piping serving more than one dwelling unit condition and	Same as change between 2021 IECC and 2024 IECC except FBC-EC section is R403.5.3	Slightly increased stringency in applicable cases (now including Performance compliance)	Slightly increased cost in applicable cases (now including Performance compliance)

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		provides exception for cold water returns in demand recirculation water systems; section now also applies to performance compliance			
R403.6 Mechanical ventilation	RED1- 318-22	Adds "dwelling units" to the structures that must comply with this section, further changes the structures that must comply with this section by changing reference from Section R402.5.1 "Building thermal envelope" to R402.5.1.1 "Installation" and adds "mechanical" to phrase "shall be provided with mechanical ventilation"	Same as change between 2021 IECC and 2024 IECC except FBC-EC has somewhat different wording for section	None	None
R403.6.1 Heat or energy recovery ventilation	REPI-94- 21	Adds Climate Zone 6 to those included in this section's heat or energy recovery ventilation requirements and revises text to include sensible recovery efficiency (SRE) term and stipulates how SRE must be determined	FBC-EC does not include this section	None (Climate Zones do not apply to Florida)	None (Climate Zones do not apply to Florida)
R403.6.2 Whole-dwelling mechanical ventilation system fan efficacy Table R403.6.2 Whole-Dwelling Mechanical Ventilation System Fan Efficacy	REPI-95- 21, REC2D- 10-23	Fixes typos, provides minor clarifications, and references and provides revised mechanical ventilation system fan efficacy Table R403.6.2 that includes test procedure for each system type and provides additional minimum efficacies for "Balanced ventilation system without heat or energy recovery" and "other exhaust fans" with airflow rate above 200 cfm; also provides footnote with means of	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		determining efficacy for balanced ventilation systems, HRVs, and ERVs			
R403.6.3 Testing		Changes mechanical ventilation system testing stipulation from manufacturer's instructions or code listed options to instead be in accordance with ANSI/ RESNET/ICC 380; revises existing testing exception and adds two exceptions	FBC-EC does not include this section	None for changes or if section is adopted	None for changes; slightly increased cost in applicable cases if section is adopted
R403.6.4 Unit sampling	RED1- 365-22	Adds mechanical ventilation testing unit sampling section which, in conjunction with new Section R403.3.7, allows mechanical ventilation system testing sampling for buildings with eight or more dwelling units or sleeping units	FBC-EC does not include the ventilation system testing section to which this sampling section applies	None	Slightly increased cost in applicable cases
R403.6.5 Intermittent exhaust control for bathrooms and toilet rooms	RECD1- 1-22	New section requires exhaust system controls for bathrooms and toilet rooms when designed for intermittent operation	Same as change between 2021 IECC and 2024 IECC	Slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
R403.7.1 Electric- resistance space heating	REPI-99- 21, RED1- 325-22	New section requires detached one- and two-family dwellings and townhouses in Climate Zones 4 through 8 using electric-resistance space heating to limit the total electric resistance heating capacity to not more than 2.0 kW or requires installation of a heat pump in the largest space that is not used as a bedroom	Same as change between 2021 IECC and 2024 IECC	None (Climate Zones do not apply to Florida)	None (Climate Zones do not apply to Florida)
R403.8 Systems serving multiple dwelling units	RED1- 329-22	Adds exception to Systems serving multiple dwelling units section for systems complying	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		with new Section R403.9, which addresses mechanical systems located outside of the building thermal envelope			
R403.9 Mechanical systems located outside of the building thermal envelope	RED1- 329-22	New section provides requirements for mechanical systems located outside of the building thermal envelope	Same as change between 2021 IECC and 2024 IECC	None	None
R403.9.1 Heating outside a building	RED1- 329-22	New section provides type and control requirements for systems that provide heat outside of a building	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
R403.9.2 Snow melt and ice system controls	RED1- 329-22	Renumbered from R403.9	Same as change between 2021 IECC and 2024 IECC	None (for change)	None (for change)
R403.9.3 Roof and gutter deicing controls	CEPI-82- 21 Part I	New section provides control requirements for roof and gutter deicing systems	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
R403.9.4 Freeze protection system controls	RED1- 329-22	New section provides control requirements for freeze protection systems	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	Slightly increased cost in applicable cases
R403.10.2 Time switches	RED1- 299-22	Replaces pool pump control exception's use of "solar" with "on-site renewable energy"	FBC-EC already has an exception for pumps that are powered by "onsite renewable generation"	None	None
R403.13 Gas fireplaces	RED1- 286-22	With an exception for gas-fired combustion safety devices, new section requires gas fireplace systems to not be equipped with a continuous pilot, and instead be equipped with an on-demand pilot, intermittent ignition or interrupted ignition	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases depending on typical practice	Slightly increased cost in applicable cases
R403.13.1 Gas fireplace efficiency	RED1- 286-22	New section provides vented gas fireplace heater fireplace	Same as change between 2021 IECC and 2024 IECC	None or slightly increased stringency in applicable cases	Slightly increased cost in applicable cases

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		efficiency (FE) rating and listing and labeling requirements			
SECTION R404 ELECTRICAL POWER, LIGHTING AND RENEWABLE ENERGY SYSTEMS	REPI- 158-21	Adds "renewable energy to section title	Same as change between 2021 IECC and 2024 IECC	None	None
R404.1 Lighting equipment	REPI- 102-21 Part II	Replaces high efficacy lighting sources language with actual efficacy minimums and adds three exceptions	FBC-EC already has similar language as 2024 IECC, but with only one exception	None or slightly decreased stringency in applicable cases	None or slightly decreased cost in applicable cases
R404.1.1 Exterior lighting	REPI- 105-21	Revisions include moving connected exterior lighting compliance requirement from Section C405.5 to new Sections R404.1.2 through R404.1.4, specifying applicability is for Group R-2, R-3 and R-4 residential buildings, and adding exception for Group R-3 buildings that do not contain more than two dwelling units	FBC-EC does not include residential exterior lighting requirements	None to somewhat increased stringency combined with new Sections R404.1.2 and R404.1.3	None or slightly increased cost combined with new Sections R404.1.2 and R404.1.3
R404.1.2 Exterior lighting power requirements	REPI- 105-21, RED1- 110-22	New section adds applicable exterior lighting power requirements from Section C405.5 (as part of moving requirements from commercial provisions)	FBC-EC does not include residential exterior lighting requirements	None to somewhat increased stringency	None or slightly increased cost
R404.1.3 Exterior lighting power allowance Table R404.1 Lighting Power	REPI- 105-21	New section adds applicable exterior lighting power allowance from Section C405.5 including new Table R404.1 used to calculate allowed lighting power for various area types (as part of	FBC-EC does not include residential exterior lighting requirements	None to somewhat increased stringency	None or slightly increased cost

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
Allowances for Building Exteriors		moving requirements from commercial provisions)			-
R404.1.4 Additional exterior lighting power	REPI- 105-21	New section provides for additional exterior lighting power allowances for building facades	FBC-EC does not include residential exterior lighting requirements	None or slightly increased stringency in applicable cases	None or slightly increased cost in applicable cases
R404.1.5 Gas lighting	RED1- 286-22	Renumbered from R404.1.2, renamed from "Fuel gas lighting equipment", revises existing language and adds that gas-fired lighting appliances are not be equipped with a continuous pilot, and instead be equipped with an on-demand pilot, intermittent ignition or interrupted ignition	Same as change between 2021 IECC and 2024 IECC, except renumbered and renamed from "R404.1.1 Lighting equipment"	None or slightly increased stringency in applicable cases depending on typical practice	None or slightly increased cost in applicable cases
R404.2 Interior lighting controls	REPI- 106-21	Revises section language to refer to new Sections R404.2.1 and R404.2.2 and removes three exception locations, leaving an exception for safety or security lighting only	FBC-EC does not include residential interior lighting controls	Slightly increased stringency combined with new Sections R404.2.1 and R404.2.2	Slightly increased cost combined with new Sections R404.2.1 and R404.2.2
R404.2.1 Habitable spaces	REPI- 106-21	New section requires all permanently installed luminaires in habitable spaces to be controlled with a manual dimmer or automatic shutoff control; also must incorporate a manual control to allow occupants to turn the lights on or off	FBC-EC does not include residential interior lighting controls	Slightly increased stringency	Slightly increased cost
R404.2.2 Specific locations	REPI- 106-21	New section requires all permanently installed luminaires in garages, unfinished basements, laundry rooms and utility rooms to be controlled by an automatic shutoff control; also must incorporate a manual control to allow occupants to turn the lights on or off	FBC-EC does not include residential interior lighting controls	Slightly increased stringency	Slightly increased cost

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
R404.3 Exterior lighting controls R404.3.1 Controls for individual dwelling units	RED1- 112-22	Revises Section R404.3 to instead of providing exterior lighting controls requirements in this section which included an exception for lighting serving multiple dwelling units, moves the existing controls requirements to new Section R404.3.1 which specifies applicability to individual dwelling units	FBC-EC does not include residential exterior lighting controls	Slightly increased stringency in applicable Prescriptive cases	Slightly increased cost in applicable Prescriptive cases
R404.4 Renewable energy certificate (REC) documentation	REPI- 158-21	New section requires that where renewable energy generation is used to comply with the code, documentation be provided demonstrating that where renewable energy certificates (RECs) or energy attributable certificates (EACs) are associated with that portion of renewable energy used to comply with this code, the RECs or EACs will be retained, or retired, on behalf of the property owner	Same as change between 2021 IECC and 2024 IECC	Slight reduction in overall community energy use for applicable projects as these RECs won't be used for offsetting others	Slight increase to cost of PV system for applicable projects as utility or others cannot offset costs by buying RECs
SECTION R405 SIMULATED BUILDING PERFORMANCE		Changes section title from "Total Simulated Building Performance"	FBC-EC already uses new IECC title	None	None
R405.1 Scope	RED1- 249-22	Revision clarifies that simulated building performance analysis are limited to dwelling units, and Spaces other than dwelling units in Group R-2, R-3 or R-4 buildings are to comply with Sections R402 through R404	Same as change between 2021 IECC and 2024 IECC	None	None
R405.2 Simulated building		Renamed from "Performance- based compliance"	FBC-EC uses "Mandatory requirements" as title for this section	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
performance compliance					
Table R405.2 Requirements for Simulated Building Performance	CEPI-24- 21 Part II, RED1-56- 22, RED1- 224-22 Part I, REPI-86- 21	Revises Table R405.2 requirements for simulated building performance entries: removes Section R402.1.5 Additional Energy Efficiency, requires all of Section R403.5 Service hot water systems instead of previously just R403.5.1 Heated water circulation and temperature maintenance systems and R403.5.3 Drain water heat recovery units subsection; adds R402.1.6 Rooms containing fuel-burning appliances (for CZ 3-8), new R402.2.3 Attic knee wall, R402.2.10 Slab-on grade floors, R402.5.1.3 Maximum air leakage rate, R402.5.2 Fireplaces, R402.5.3 Fenestration air leakage, R402.5.4 Recessed lighting, R402.5.5 Air-sealed electrical and communication outlet boxes, R403.2 Hot water boiler temperature reset, R403.13 Gas fireplaces; also changes crawl space requirement from R402.2.11.1 to R402.2.11; also removes Section R403.3 Duct systems exceptions, also edits for Section number and name changes consistency	FBC-EC does not use IECC's table-based requirements format for Performance compliance and does not include a number of the IECC requirements	None to slightly increased stringency as applicable	None to somewhat increased cost as applicable
R405.2 Simulated building performance compliance	RED1-27- 22	Changes item #2 requirement to meet 2009 IECC thermal envelope efficiencies to new thermal conductance (TC) based	FBC-EC Performance compliance has several thermal envelope minimum efficiency requirements but does not	To be determined via analysis of combined revisions	Slightly increased cost

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		requirement; also reduces the maximum weighted fenestration SHGC for Performance compliance in Climate Zones 0 through 3 to 0.30	include either the 2009 IECC thermal envelope efficiency requirement or new thermal conductance (TC) based requirement		
R405.2 Simulated building performance compliance	RED1-27- 22, REPI-33- 21	Changes item #3 requirement that the annual energy cost be less than or equal to that of the standard reference design to separate requirements for dwelling units that use fuel-burning appliances for space heating, water heating, or both vs. for all other dwelling units, with annual energy cost limits being 80 percent and 85 percent of that of the standard reference design, respectively; also, for each dwelling unit with greater than 5,000 square feet (465 m²) of living space above grade plane, the annual energy cost of the dwelling unit must be reduced by an additional 5 percent; also adds source energy multipliers for natural gas, propane, fuel oil, and imported liquefied natural gas, and revises source energy multiplier for electricity for energy use based on source energy exception; and adds new exception for energy use based on site energy	Applicable FBC-EC Section R405.3 "Performance-based compliance" requires the proposed design be shown to have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design	Increased stringency	Increased cost
R405.3 Compliance documentation	RECD1- 8-22	Renamed from "Documentation" and revises language, separating requirements into application and	Same as for IECC except renumbered from R405.4	None or slightly increased stringency depending on typical practice	None or slightly increased cost depending on typical practice

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
		certificate of occupancy compliance reports		·	
[R405.3.1 Compliance software tools]	RECD1- 8-22	Removes section, replacing it with revised language in Section R405.4.1	Renumbered from R405.4, and FBC-EC currently requires Florida Building Commission approval 2024 IECC added new Section R405.5.2 requirement that software vendors test software in accordance with ANSI/ASHRAE 140 Class II, Tier 1 test procedures and publish results	Slightly increased stringency	None
R405.4 Calculation procedure R405.4.1 General R405.4.2 Residence specifications R405.4.3 Input values	RECD1- 8-22	Revises, reorganizes, and clarifies existing sections, including stipulating revised R405.5 software tools approval section which includes new Section R405.5.2 requirement that software vendors test software in accordance with ANSI/ASHRAE 140 Class II, Tier 1 test procedures and publish results; also moves Input values section from R405.5.3 to R405.4.3	Renumbered from R405.5, R405.5.1, R405.5.2, and R405.6.3, and as noted above, FBC-EC currently requires Florida Building Commission approval 2024 IECC added new Section R405.5.2 requirement that software vendors test software in accordance with ANSI/ASHRAE 140 Class II, Tier 1 test procedures and publish results	Slightly increased stringency	None
Table R405.4.2(1) Specifications for the Standard Reference and Proposed Designs: Above-grade walls	RED1- 252-22	Revises Standard Reference Design solar absorptance specification to solar reflectance without changing stringency	Same as change between 2021 IECC and 2024 IECC	None	None
Table R405.4.2(1) Specifications for the Standard Reference and	RED1- 252-22	Revises Standard Reference Design solar absorptance specification to solar reflectance without changing stringency	Same as change between 2021 IECC and 2024 IECC	None	None

2024 IECC Section and Title*	ICC Code Change No.	Change Summary b/t 2021 IECC and 2024 IECC	Change Summary b/t 2023 FBC-EC and 2024 IECC	Anticipated Energy Impact on FBC-EC if Adopted	Anticipated Cost Impact on FBC-EC if Adopted
Proposed Designs: Roofs					
Table R405.4.2(1) Specifications for the Standard Reference and Proposed Designs: Foundations	REC2D- 4-23	Revises Standard Reference Design foundation specification, removing "area" and adding "foundation wall or slab perimeter length"	Same as change between 2021 IECC and 2024 IECC	None	None
Table R405.4.2(1) Specifications for the Standard Reference and Proposed Designs: Foundations	RED1- 208-22	Adds that foundation wall Standard Reference Design <i>U</i> -factor and slab <i>F</i> -factor be as specified in Table R402.1.2	Same as change between 2021 IECC and 2024 IECC	None	None
Table R405.4.2(1) Specifications for the Standard Reference and Proposed Designs: Air leakage rate	RED1- 251-22	Changes building component section title from "Air exchange rate" and revises Climate Zone 0 – 2 Standard Reference Design air leakage rate from 5.0 ACH50 to 4.0 ACH50 (applies to detached one-family dwellings > 1,500 sq. ft.)	FBC-EC currently uses 7.0 ACH50 for the Standard Reference Design	Increased stringency for applicable cases	Increased cost for applicable cases

---- Progress to date as of June 18, 2024 ----