

Proposed Amendments (added text to the code is: <u>underlined</u> , deleted text to the code is: struck through)				
ITEM NUMBER	ARTICLE	SUMMARY	PROPONENT	ACTION
		Proposed		
IECC – 2025 - 1	R 403.3.7	<p>Add new section to read as follows:</p> <p><u>R403.3.7 Duct Systems Located in Conditioned Space (Optional)</u></p> <p><u>For duct systems to be considered inside a conditioned space, the space conditioning equipment shall be located completely on the conditioned side of the building thermal envelope. The ductwork shall comply with the following as applicable:</u></p> <ol style="list-style-type: none"> 1. <u>The ductwork shall be located completely on the conditioned side of the building thermal envelope.</u> 2. <u>Ductwork in ventilated attic spaces or unvented attics with vapor diffusion ports shall be buried within ceiling insulation in accordance with R403.3.8 and shall comply with the following:</u> <ol style="list-style-type: none"> 2.1. <u>The air handler is located completely within the continuous air barrier and within the building thermal envelope.</u> 2.2. <u>The ductwork leakage, as measured either by a rough-in test of the supply and return ductwork or a post-construction duct system leakage test to outside the building thermal envelope in accordance with Section R403.3.3, 1.5 cubic feet per minute (42.5 L/min) per 100 square feet (9.29 m²) of conditioned floor area served by the duct system.</u> <p><u>The ceiling insulation R-value installed against and above the insulated ductwork is greater than or equal to the proposed ceiling insulation R-value, less the R-value of the insulation on the ductwork.</u></p>	Amelia Godfrey, Mike Barcik, Shawn Mullins	D
IECC – 2025 - 2	R 403.3.8	<p>Add new section to read as follows:</p> <p><u>R403.3.8 Ductwork Buried Within Ceiling Insulation (Optional)</u></p> <p><u>Where supply and return ductwork is partially or completely buried in ceiling insulation, such ductwork shall comply with the following:</u></p>	Amelia Godfrey, Mike Barcik, Shawn Mullins	D

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ACTION: A (Approve as Submitted); R (Approve as Revised); D (Disapprove); W (Withdrawn); CF (Carry Forward)

		<p>1. <u>The supply and return ductwork shall be insulated with not less than R-8 insulation.</u></p> <p>2. <u>At all points along the ductwork the ceiling insulation R-value against and above the top of the insulated ductwork shall be not less than R-19.</u></p> <p>3. <u>In Climate Zones 2A and 3A the supply ductwork shall be completely buried within ceiling insulation, insulated to an R-value of not less than R-13 and in compliance with the vapor retarder requirements of Section 604.11 of the International Mechanical Code or Section M1601.4.6 of the International Residential Code, as applicable.</u></p> <p>Exception 1: <u>Sections of the supply ductwork that are less than 3 feet (914 mm) from the supply outlet.</u></p> <p>Exception 2: <u>In Climate Zones 2A and 3A where installed in an unvented attic with vapor diffusion ports, the supply ductwork shall be completely buried within the insulation in the ceiling assembly at the floor of the attic, insulated to an R-value of not less than R-8 and in compliance with the vapor retarder requirements of Section 604.11 of the International Mechanical Code or Section M1601.4.6 of the International Residential Code, as applicable.</u></p>		
IECC – 2025 - 3	R 403.3.9	<p><i>Add new section to read as follows:</i></p> <p><u>R403.3.9 R-value of Deeply Buried Ducts (Optional)</u></p> <p><u>Where complying using Section R405, the sections of ductwork that are installed in accordance with Section R403.3.7 surrounded with blown-in attic insulation having an R-value of R-30 or greater, and located such that the top of the ductwork is not less than 3.5 inches (89 mm) below the top of the insulation and covered by a minimum R-19, the ductwork insulation R-value of the ductwork shall be considered the combined R-value of the ductwork insulation plus the ceiling insulation above the ductwork.</u></p>	Amelia Godfrey, Mike Barcik, Shawn Mullins	D

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<p>IECC – 2025 -4</p>	<p>C 406</p>	<p><i>Revise and add the following sections to read as follows:</i></p> <p>SECTION C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS</p> <p>C406.1 Requirements. Buildings shall comply with at least one of the following: 1. More efficient HVAC performance in accordance with Section C406.2. 2. Reduced lighting power density system in accordance with Section C406.3. 3. Enhanced lighting controls in accordance with Section C406.4. 4. On-site supply of renewable energy in accordance with Section C406.5. 5. Provision of a dedicated outdoor air system for certain HVAC equipment in accordance with Section C406.6. 6. High-efficiency service water heating in accordance with Section C406.7. 7. <u>Automated shading load management in accordance with Section C406.8.</u></p> <p>C406.8 Automated Shading Load Management. Where <i>fenestration</i> on east, south, and west exposures is greater than 20 percent of wall area, load management credits shall be achieved as follows: 1. <u>Automatic exterior shading devices or dynamic glazing that are capable of reducing solar gain (SHGC) through sunlit fenestration by not less than 50 percent when fully closed. The exterior shades shall have fully open and fully closed SHGC determined in accordance with AERC 1.</u> 2. <u>Automatic interior shading devices shall have a solar reflectance of not less than 0.50 for the surface facing the fenestration. The interior shades shall have fully open and fully closed SHGC determined in accordance with AERC 1.</u> 3. <u>All shading devices, dynamic glazing, or shading attachments shall:</u> 3.1 <u>Provide not less than 80 percent coverage of the total fenestration on east, south, and west exposures in the building.</u> 3.2 <u>Be automatically controlled and shall modulate in multiple steps or continuously the amount of solar gain and light transmitted into the space in response to peak periods and either daylight levels or solar intensity.</u> 3.3 <u>Include a manual override located in the same enclosed space as the shaded vertical fenestration that shall override operation of automatic controls for no longer than four hours. Such override shall be locked out during peak periods.</u> For this section, <u>directional exposures shall exclude fenestration that has an orientation deviating by more than 45 degrees of facing the cardinal direction.</u></p>	<p>John Loyer, Somfy Systems Inc., Jimmy Cotty</p>	<p>D</p>
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		<p>CHAPTER 6 [CE] REFERENCED STANDARDS</p> <p><u>AERC</u> <u>Attachments Energy Rating Council 355 Lexington Ave 15th Floor New York, NY 10017</u></p> <p><u>AERC-1-2021</u> <u>Procedures for Determining Energy Performance Properties of Fenestration Attachments</u></p>		
IECC – 2025 - 5	C 402.4.3.3	<p>Revise section C402.4.3.3 to read as follows:</p> <p>C402.4.3.3 Dynamic glazing. Where <i>dynamic glazing</i> <u>or fenestration products combined with permanently mounted shading attachments</u> are-is intended to satisfy the SHGC and VT requirements of Table C402.4, the ratio of the higher to lower labeled SHGC shall be greater than or equal to 2.4, and the <i>dynamic glazing</i> <u>and shading attachments</u> shall be automatically controlled to modulate the amount of solar gain into the space in multiple steps. <i>Dynamic glazing</i> <u>and fenestration products combined with permanently mounted automated shading attachments</u> shall be considered separately from other fenestration, and area-weighted averaging with other fenestration that is not <u>automated</u>dynamic glazing shall not be permitted. <u>Automated shading attachments shall have fully open and fully closed SHGC and VT determined in accordance with AERC 1.</u></p> <p>Exception: <u>Dynamic glazing and fenestration products combined with shading attachments</u> are-is not required to comply with this section where both the lower and higher labeled SHGC already comply with the requirements of Table C402.4.</p> <p>CHAPTER 6 [CE] REFERENCED STANDARDS</p> <p><u>AERC</u> <u>Attachments Energy Rating Council 355 Lexington Ave 15th Floor New York, NY 10017</u></p> <p><u>AERC-1-2021</u> <u>Procedures for Determining Energy Performance Properties of Fenestration Attachments</u></p>	John Loyer, Somfy Systems Inc., Jimmy Cotty	D

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IECC – 2025 - 6	C407.5.1(1)	<p>Revise Table C407.5.1(1) to read as follows.</p> <p>TABLE C407.5.1(1) SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS</p> <table border="1"> <thead> <tr> <th data-bbox="569 362 898 399">BUILDING COMPONENT</th> <th data-bbox="898 362 1226 399">STANDARD REFERENCE DESIGN</th> <th data-bbox="1226 362 1549 399">PROPOSED DESIGN</th> </tr> </thead> <tbody> <tr> <td data-bbox="569 399 898 927">Vertical fenestration other than opaque doors</td> <td data-bbox="898 399 1226 927"> <p>Area</p> <p>1. The proposed vertical fenestration area; where the proposed vertical fenestration area is less than 40 percent of above- grade wall area.</p> <p>2. 40 percent of above-grade wall area; where the proposed vertical fenestration area is 40 percent or more of the above- grade wall area.</p> <p>U-factor: as specified in Table C402.4</p> <p>SHGC: as specified in Table C402.4 except that for climates with no requirement (NR) SHGC = 0.40 shall be used</p> <p><u>Shading:</u></p> <p>External shading and PF: None</p> <p><u>Manually controlled shading devices such as blinds or shades are not required to be modeled.</u></p> <p><u>Automatically controlled permanently attached shading devices shall not be modeled.</u></p> </td> <td data-bbox="1226 399 1549 927"> <p>As proposed</p> <p>As proposed</p> <p>As proposed</p> <p><u>As proposed</u></p> <p><u>Manually controlled shading devices shall be modeled the same as in the standard reference design.</u></p> <p><u>Automatically controlled permanently mounted shading devices shall be modeled.</u></p> </td> </tr> <tr> <td data-bbox="569 927 898 1222">Skylights</td> <td data-bbox="898 927 1226 1222"> <p>Area</p> <p>1. The proposed skylight area; where the proposed skylight area is less than 3 percent of gross area of roof assembly.</p> <p>2. 3 percent of gross area of roof assembly; where the proposed skylight area is 3 percent or more of gross area of roof assembly</p> <p>U-factor: as specified in Table C402.4</p> <p>SHGC: as specified in Table C402.4 except that for climates with no requirement (NR) SHGC = 0.40 shall be used.</p> <p><u>Shading:</u></p> <p><u>Manually controlled shading devices such as blinds or shades are not required to be modeled.</u></p> <p><u>Automatically controlled permanently attached shading devices shall not be modeled.</u></p> </td> <td data-bbox="1226 927 1549 1222"> <p>As proposed</p> <p>As proposed</p> <p>As proposed</p> <p><u>Manually controlled shading devices shall be modeled the same as in the standard reference design.</u></p> <p><u>Automatically controlled permanently mounted shading devices shall be modeled.</u></p> </td> </tr> </tbody> </table>	BUILDING COMPONENT	STANDARD REFERENCE DESIGN	PROPOSED DESIGN	Vertical fenestration other than opaque doors	<p>Area</p> <p>1. The proposed vertical fenestration area; where the proposed vertical fenestration area is less than 40 percent of above- grade wall area.</p> <p>2. 40 percent of above-grade wall area; where the proposed vertical fenestration area is 40 percent or more of the above- grade wall area.</p> <p>U-factor: as specified in Table C402.4</p> <p>SHGC: as specified in Table C402.4 except that for climates with no requirement (NR) SHGC = 0.40 shall be used</p> <p><u>Shading:</u></p> <p>External shading and PF: None</p> <p><u>Manually controlled shading devices such as blinds or shades are not required to be modeled.</u></p> <p><u>Automatically controlled permanently attached shading devices shall not be modeled.</u></p>	<p>As proposed</p> <p>As proposed</p> <p>As proposed</p> <p><u>As proposed</u></p> <p><u>Manually controlled shading devices shall be modeled the same as in the standard reference design.</u></p> <p><u>Automatically controlled permanently mounted shading devices shall be modeled.</u></p>	Skylights	<p>Area</p> <p>1. The proposed skylight area; where the proposed skylight area is less than 3 percent of gross area of roof assembly.</p> <p>2. 3 percent of gross area of roof assembly; where the proposed skylight area is 3 percent or more of gross area of roof assembly</p> <p>U-factor: as specified in Table C402.4</p> <p>SHGC: as specified in Table C402.4 except that for climates with no requirement (NR) SHGC = 0.40 shall be used.</p> <p><u>Shading:</u></p> <p><u>Manually controlled shading devices such as blinds or shades are not required to be modeled.</u></p> <p><u>Automatically controlled permanently attached shading devices shall not be modeled.</u></p>	<p>As proposed</p> <p>As proposed</p> <p>As proposed</p> <p><u>Manually controlled shading devices shall be modeled the same as in the standard reference design.</u></p> <p><u>Automatically controlled permanently mounted shading devices shall be modeled.</u></p>	John Loyer, Somfy Systems Inc., Jimmy Cotty	D
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<p>IECC – 2025 - 7</p>	<p>R405.5.2(1)</p>	<p>Revise Table R405.5.2(1) to read as follows:</p> <p>TABLE R405.5.2(1) SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS</p> <table border="1"> <thead> <tr> <th data-bbox="573 342 905 391">BUILDING COMPONENT</th> <th data-bbox="905 342 1241 391">STANDARD REFERENCE DESIGN</th> <th data-bbox="1241 342 1572 391">PROPOSED DESIGN</th> </tr> </thead> <tbody> <tr> <td data-bbox="573 391 905 1073"> <p>Vertical fenestration other than opaque doors</p> </td> <td data-bbox="905 391 1241 1073"> <p>Total area^b = (a)The proposed glazing area, where the proposed glazing area is less than 15 percent of the conditioned floor area (b)15 percent of the conditioned floor area, where the proposed glazing area is 15 percent or more of the conditioned floor area.</p> <p>Orientation: equally distributed to four cardinal compass orientations (N, E, S & W).</p> <p>U-factor: as specified in Table R402.1.4</p> <p>SHGC: as specified in Table R402.1.2 except that for climates with no requirement (NR) SHGC = 0.40 shall be use</p> <p>Interior shade fraction: 0.92-(0.21 SHGC for the standard reference design)</p> <p><u>Automatically controlled permanently attached shading devices shall not be modeled.</u></p> <p>External shading: None</p> </td> <td data-bbox="1241 391 1572 1073"> <p>As proposed</p> <p>As proposed</p> <p>As proposed</p> <p>As proposed</p> <p><u>For fixed or manually controlled shading devices, 0.92-(0.21 × SHGC as proposed).</u></p> <p><u>Automatically controlled permanently mounted shading devices shall be modeled.</u></p> <p>As proposed</p> </td> </tr> <tr> <td data-bbox="573 1073 905 1338"> <p>Skylights</p> </td> <td data-bbox="905 1073 1241 1338"> <p>None</p> </td> <td data-bbox="1241 1073 1572 1338"> <p>As proposed</p> <p><u>Shading: Manually controlled shading devices shall be modeled the same as in the standard reference design.</u></p> <p><u>Automatically controlled permanently mounted shading devices shall be modeled.</u></p> </td> </tr> </tbody> </table>	BUILDING COMPONENT	STANDARD REFERENCE DESIGN	PROPOSED DESIGN	<p>Vertical fenestration other than opaque doors</p>	<p>Total area^b = (a)The proposed glazing area, where the proposed glazing area is less than 15 percent of the conditioned floor area (b)15 percent of the conditioned floor area, where the proposed glazing area is 15 percent or more of the conditioned floor area.</p> <p>Orientation: equally distributed to four cardinal compass orientations (N, E, S & W).</p> <p>U-factor: as specified in Table R402.1.4</p> <p>SHGC: as specified in Table R402.1.2 except that for climates with no requirement (NR) SHGC = 0.40 shall be use</p> <p>Interior shade fraction: 0.92-(0.21 SHGC for the standard reference design)</p> <p><u>Automatically controlled permanently attached shading devices shall not be modeled.</u></p> <p>External shading: None</p>	<p>As proposed</p> <p>As proposed</p> <p>As proposed</p> <p>As proposed</p> <p><u>For fixed or manually controlled shading devices, 0.92-(0.21 × SHGC as proposed).</u></p> <p><u>Automatically controlled permanently mounted shading devices shall be modeled.</u></p> <p>As proposed</p>	<p>Skylights</p>	<p>None</p>	<p>As proposed</p> <p><u>Shading: Manually controlled shading devices shall be modeled the same as in the standard reference design.</u></p> <p><u>Automatically controlled permanently mounted shading devices shall be modeled.</u></p>	<p>John Loyer, Somfy Systems Inc., Jimmy Cotty</p>	<p style="text-align: center;">D</p>
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