RE2D-16-23 Modification

**IECC RE: R403.3.4(3)**

**Revise as follows:**

R403.3.4 Duct systems located in conditioned space.

3. *Ductwork* contained within wall or floor assemblies separating unconditioned from *conditioned space* shall comply with the following:

3.1 A *continuous air barrier* shall be part of the building assembly between the *ductwork* and the unconditioned space.

3.2 *Ductwork* shall be installed in accordance with Section R403.3.3.

**Exception:** Where the buildingassembly cavities containing *ductwork* have been air sealed in accordance with Section R402.5.1 and insulated in accordance with ~~Item 3.3~~ R403.3.4(3.3), *duct* insulation is not required.

3.3 Not less than R-10 insulation, or not less than 50 percent of the required component insulation R-value specified in Table R402.1.3, whichever is greater, shall be located between the *ductwork* and the unconditioned space.

This reduced R-value shall be limited to the width of the *ductwork* facing the unconditioned space. The remainder of the buildingassembly cavity containing *ductwork* shall be insulated to the R-value specified in Table R402.1.3.

3.4 Segments of *ductwork* contained within such building assemblies shall not be considered completely inside *conditioned space* for compliance with Sections R405 or R406.[[1]](#footnote-1)

**Reason Statement:**

Per ICC staff, "R403.3.4(3.3)" is the preferred method to reference "Item 3.3."

The modification in R403.3.4(3.3) clarifies the intent to preserve the building thermal envelope’s required R-value and limit the reduced R-value to the width of the ductwork facing the unconditioned space. The modification makes clear that the reduced R-value does not extend to the entire width of wall and floor cavities, or, where ductwork is installed through multiple open-web trusses, to the entire floor assembly.

**Cost Impact:**

The code change proposal will neither increase nor decrease the cost of construction. It provides clarification and flexibility.

1. This is the language approved by the Consensus Committee. There is an error in PCD#2. [↑](#footnote-ref-1)