

**THE INTERNATIONAL ENERGY CONSERVATION CODE-RESIDENTIAL
ERRATA COMMENTS INCORPORATED INTO PUBLIC COMMENT DRAFT #2**

(7/18/23)

Introduction

The following Residential Public contains public comments sub1.2461.24IECC

First Printing

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ASTM references RE (1620)

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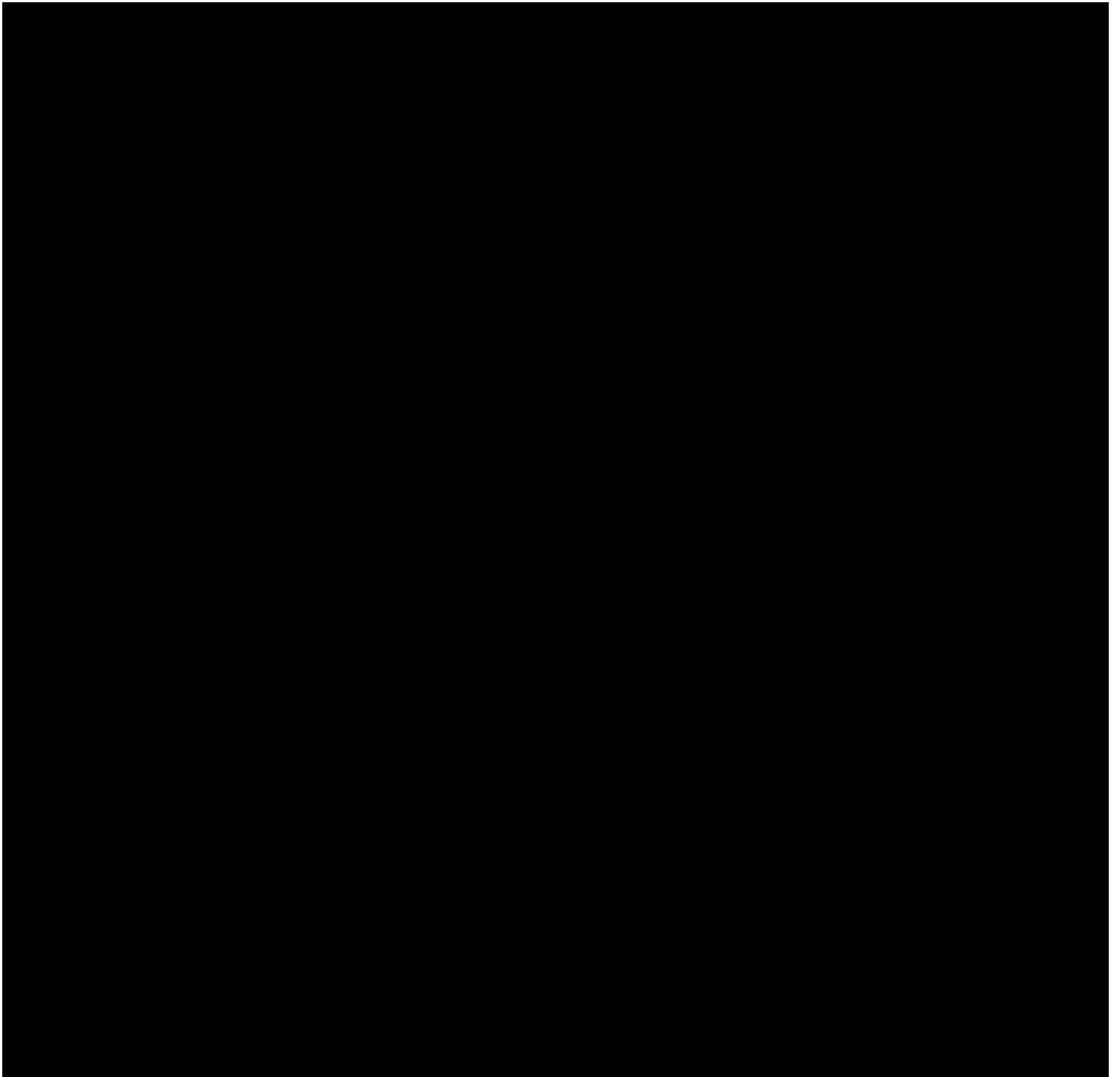
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Editorial - section numbers (1605)

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e t s b p v

Vladimir Kochkin, representing NAHB (vkochkin@nahb.org)

2024 International Energy Code [RE] [RE Project] R3

1 s s n e i f i

R107.4.1 Authorization of approved third party inspection agency.

An approved third-party inspection agency shall provide all requested information for the code official to determine that the agency meets the applicable requirements specified in Sections ~~R105.4.1.1~~R107.4.1.1 through ~~R105.4.1.3~~R107.4.1.3 and to authorize its work in the jurisdiction.

1 s t i

Editorial: The references to Sections R105.4.1.1 through R105.4.1.3 is incorrect. This should be R107.4.1.1. through R107.4.1.3

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FSC PC#3 IECC -R, Restore "approved source" definition (Errata) (1675)

IECC RE: SECTION 202 (New)

Proponents:

Jay Crandell, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

2024 International Energy Code [RE] [RE Project] R3

Add new definition as follows:

APPROVED SOURCE. An independent person, firm or corporation, approved by the code official, who is competent and experienced in the application of engineering principles to materials, methods or system analyses.

Reason:

This proposal is submitted as errata. The final amended version of RED1-268 did not delete the APPROVED SOURCE term and it is still used in Chapter 5 per RED1-268.

Cost Impact:

The code change proposal will neither increase nor decrease the cost of construction.

This proposal is errata and has no cost impact. The definition for "approved source" is being restored since it was not deleted by RED1-286 and is still a used term in Chapter 5.

High-efficacy light sources (1887)

IECC RE: SECTION R202

Proponents:

Michael Jouaneh, representing Lutron Electronics Co., Inc. (mjouaneh@lutron.com)

2024 International Energy Code [RE] [RE Project] R3

SECTION R202 — GENERAL DEFINITIONS

Reason:

Strike High-efficacy Light Sources from the Definitions. It is E m o r

FSC Proposed IECC RE: Restore missing exception in Section R 402.1.5 (Errata) (1673)

IECC RE: R402.1.5

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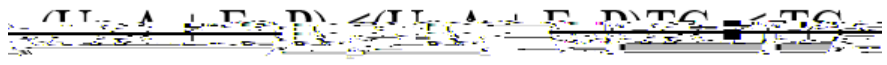
Proponents: 2

Jay Crandell, representing Foam Sheathing Committee of the American Chemistry Council (jcrandell@aresconsulting.biz)

2024 International Energy Code [RE] [RE Project] R3

R 402.1.5 Component performance alternative.

Where the proposed total **building thermal envelope thermal conductance** TC is less than or equal to the required total **building thermal envelope thermal conductance** TC using factors on Table R402.1.2, the building shall be considered to be in compliance with Table R402.1.2. The total thermal conductance TC shall be determined in accordance with Equation 4-1. Proposed U -factors and slab-on-grade F -factors shall be taken from ANSI/ASHRAE/IES Standard 90.1 Appendix A or determined using a method consistent with the ASHRAE *Handbook of Fundamentals* and shall include the thermal bridging effects of framing materials. In addition to total thermal conductance TC compliance, the SHGC requirements of Table R 402.1.2 and the maximum **fenestration U-factor** of Section R 402.6 shall be met



(Equation 4-1)

$$TC = U_A + F_P$$

$$TC = U_A + F_P$$

U_A = the sum of proposed U -factors times the assembly area

Floors, including cantilevered floors and floors above garages	<p><u>Floor framing members that are part of the building thermal envelope</u> shall be air sealed to maintain a <u>continuous air barrier</u>.</p> <p><u>Air permeable floor cavity insulation shall be enclosed.</u></p>	Floor insulation shall be installed <u>in accordance with the requirements of Section R 402.2.8.</u>
Basement, crawl space, and slab foundations	<p>Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder/air barrier in accordance with Section R 402.2.11.</p> <p>Penetrations through concrete foundation walls and slabs shall be air sealed.</p> <p>Class 1 vapor retarders shall not be used as an air barrier on below-grade walls and shall be installed in accordance with Section R 702.7 of the</p>	<p>Crawl space insulation, where provided instead of floor insulation, shall be installed in accordance with Section R 402.2.11.</p> <p>Conditioned basement foundation wall insulation shall be installed in accordance with Section R 402.2.9.1.</p> <p>Slab-on-grade floor insulation shall be installed in accordance with Section R 402.2.11.</p>
Shafts, penetrations	<p>and flue shafts to exterior or unconditioned space shall be sealed.</p> <p>Utility penetrations of the air barrier shall be caulked, gasketed or otherwise sealed and shall allow for expansion, contraction of materials and mechanical vibration.</p>	Insulation shall be fitted tightly around utilities passing through shafts and penetrations in the to maintain required -value.
Narrow cavities	Narrow cavities of 1 inch or less that are not able to be insulated shall be air sealed.	Batts to be installed in narrow cavities shall be cut to fit or narrow cavities shall be filled with insulation that on installation readily conforms to the available cavity space.
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	Insulated portions of the garage separation assembly shall be installed in accordance with Sections R 303 and R 402.2.8.
Recessed lighting	Recessed light fixtures installed in the shall be air sealed in accordance with Section R 402.5.5.	Recessed light fixtures installed in the shall be airtight and IC rated, and shall be buried or surrounded with insulation.
Plumbing, wiring or other obstructions	All holes created by wiring, plumbing or other obstructions in the air barrier assembly shall be air sealed.	Insulation shall be installed to fill the available space and surround wiring, plumbing, or other obstructions, unless the required -value can be met by installing insulation and air barrier systems completely to the exterior side of the obstructions.
Showers, tubs, and fireplaces adjacent to the	An air barrier shall separate insulation in the from the shower, tub, or fireplace assemblies.	Exterior framed walls adjacent to showers, tubs and fireplaces shall be insulated.

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This proposal is editorial. It italicizes defined terms and eliminates the Section number for a non-existent section.

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The code change proposal will neither increase nor decrease the cost of construction.

This proposal is editorial and contains no technical changes.

R 403.3.6.1 Sealed air-handling units

Air-handling units shall have a manufacturer's design airflow rate that is not less than 100 percent of the design airflow rate when tested in accordance with ASHRAE 193.

TABLE R 403.3.8 MAXIMUM TOTAL DUCT SYSTEM LEAKAGE

Condition	Leakage (cfm/100 ft ²)	Leakage (L/s/m ²)
Duct systems serving more than 1,000 ft ² of conditioned floor area	4	113
Space conditioning equipment is not installed	30	(850)
All components of the duct system are installed	40	(1133)
Space conditioning equipment is not installed and ductwork is located entirely in conditioned space	60	(1699)
All components of the duct system are installed and located in conditioned space	80	(2265)

a.	1. A duct is a duct made of sheet metal or flexible duct.

Errata to match action on RECD1-12 (1567)

IECC RE: CHAPTER 4 [RE], SECTION R404, R404.5, APPENDIX RE, RE102, RE102.1

"DEFINITIONS". This Errata makes those edits that the Committee already approved.

Similarly, in R404.5, the intent was to use the more concise language that was approved in the header for R404.5.1 which is now "Cooking appliances". <https://energy.cdpaaccess.com/live/proposal/1540/html/>

Bibliography:

The RECD1-12 online supports the Errata.

<https://energy.cdpaaccess.com/live/proposal/1540/html/>

Additionally, the agenda from 4-27 (last 3 pages) supports the Errata.

<https://www.iccsafe.org/wp-content/uploads/ECC-Res-AGENDA-4.27.23-agenda-rev3.2.pdf>

Cost Impact:

The code change proposal will neither increase nor decrease the cost of construction.

NA, errata

_____ dwelling unit