

**UNIFORM BUILDING CODE COMMISSION
MEETING**

June 22, 2022 9:00 AM

AGENDA

Anchor Location
Room 474
Heber M Wells Building
160 E 300 S
Salt Lake City UT

Join with Google Meet
meet.google.com/gft-afqs-hxw

Join by phone
(US) +1 617-675-4444 PIN: 111 287 450 4922#

Welcome, and reimbursement sheet

1. Roll call
2. Approve minutes from May 25, 2022 meeting
3. Review revised amendment for NEC Section 210.52(C)(2) & (3) and IRC Section E3901.4.3
4. Review proposed amendments for:
IBC Section 202
IBC Chapter 9
IRC R101.2, R114/R115.1, R302.5.1, R303.4, R312.11 R326.3, R506.2.3 & R609.4.1
IRC/IECC N1102.2.1, N1102.3.3, N1102.3.4, N1102.2.9.1, N1102.4.1.1, N1102.4.6, 12.4.1.3, N1103.3.1 N1103.5.1.1, 1103.6.3, N1104.1, N1104.2, N1105.2, Table N1105.4.2(1), N1106.3, Chapter 11
IECC Section C405.11

Advisory Committee reports

- a. Architectural Committee – June 7, 2022
- b. Education Committee - April 19, & May 17, 2022
- c. International Mechanical Committee – May 24 & June 14, 2022
- d. National Electrical Code Committee –



In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Carol Inglesby, ADA Coordinator, Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84111, Phone 530-6626, at least three working days prior to the meeting.

- e. Plumbing Code/Health Committee –
- f. Structural Committee –
- g. Unified Code Analysis Council –

Next meeting date July 13, 2022

Please call Sharon at 530-6163 if you do not plan on attending the meeting.



In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Carol Inglesby, ADA Coordinator, Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84111, Phone 530-6626, at least three working days prior to the meeting.

MINUTES

UTAH
UNIFORM BUILDING CODE COMMISSION

May 25, 2022

9:00

Convened: 9:03

Adjourned: 11:34

STAFF:

Steve Duncombe, Bureau Manager
Sharon Smalley, Board Secretary

COMMISSIONERS:

Thomas Peterson
Josh Blazzard
Lorianne Bisping
Travis Hales (absent)
Trent Hunt
Chad Flinders (excused)
Gary Bullock

Chris Hendrickson
Art Anderson
Karl Mott
Joerg Ruegemer
Scott Carpenter
Steve Dailey

VISITORS:

Ryan Jackson
Thomas Kessinger
Eliza Cowie

Ross Ford
Ron McArthur

MINUTES

A motion was made by Gary Bullock to approve the minutes from the May 11, 2022 meeting as written. The motion was seconded by Josh Blazzard and passed unanimously.

REVIEW AMENDMENT FOR NEC
SECTION 210.52(C)(2) & (3) AND
IRC SECTION E3901.4.3

Ryan Jackson spoke to the Commission in opposition of the proposed amendment. Tom Peterson pointed out that the word "When" should be changed to "Where" in both places. A motion was made by Trent Hunt to table the decision until the next meeting. The motion was seconded by Scott Carpenter and passed unanimously. Ryan Jackson will submit a draft for the Commission to review.

CONTINUE WITH THE REVIEW OF
THE 2021 IBC AND AMEND-
MENTS

Lorianne Bisping reported on her review of the current amendments. She pointed out several section numbers that need to be updated.

No other recommendations were made for corrections to the current amendments. A motion was made by Karl Mott to accept the current amendments. The motion was seconded by and passed unanimously

The Commission members were asked to start their review of the 2021 IRC along with the current amendments for the next meeting.

The meeting adjourned at 11:34

Note: These minutes are not intended to be a verbatim transcript but are intended to record the significant features of the business conducted in this meeting. Discussed items are not necessarily shown in the chronological order they occurred.

NEC, Section 210.52(C)(2) and(C)(3) are deleted and replaced with the following:
"210.52(C)(2) Island and Peninsular Countertops and Work Surfaces. Receptacle outlets, if installed to serve an island or peninsular countertop or work surface, shall be installed in accordance with 210.52(C)(3). If a receptacle outlet is not provided to serve an island or peninsular countertop or work surface, provisions shall be provided at the island or peninsula for future addition of a receptacle outlet to serve the island or peninsular countertop or work surface.

210.2(C)(3) Receptacle Outlet Location. When installed, receptacle outlets shall be located in one or more of the following:

(1) On or above, but not more than 500 mm (20 in) above a countertop or work surface.

(2) In a countertop using receptacle assemblies listed for use in countertops.

(3) In a work surface using receptacle outlet assemblies listed for use in work surfaces or listed

(4) Under the countertop not more than 14" from the bottom leading edge of the countertop.

outlets rendered not readily accessible by appliances fastened in place, such as ranges, sinks, or range tops as covered in 210.52(C)(1), Exception, occupying assigned spaces shall not be considered as these required

outlets."

(5)

(3) IRC Section E3901.4.3 is deleted and replaced with the following:

"E3901.4.3 Receptacle outlet location. When installed, Required receptacle

outlets shall be located in one or more of the following:

1. On or above, but not more than 20 inches (508 mm) above a countertop or work surface.
2. In a countertop using receptacle outlet assemblies listed for use in countertops.
3. In a work surface using receptacle outlet assemblies listed for use in work surface or listed for use in countertops.
4. Under the countertop not more than 14" from the bottom leading edge of the countertop.

Receptacle outlets rendered not readily accessible by appliances fastened in place, appliance garages, sinks, or range tops as covered in the exception to Section E3901.4.1, or appliances occupying assigned spaces shall not be considered as these required outlets."



Sharon Smalley <ssmalley@utah.gov>

Fwd: Proposed exception to NEC 210.52(C) and IRC E3901.4.3

1 message

Stephen Duncombe <sduncombe@utah.gov>

Wed, May 25, 2022 at 9:41 AM

To: Sharon Smalley <ssmalley@utah.gov>, Thomas Peterson <twpeterson@utah.gov>

----- Forwarded message -----

From: <ryanjackson618@gmail.com>

Date: Wed, May 25, 2022 at 9:30 AM

Subject: Proposed exception to NEC 210.52(C) and IRC E3901.4.3

To: <sduncombe@utah.gov>

This exception should be added to the proposed amendment to NEC 210.52(C) and IRC E3901.4.3, as discussed in this morning's UBCC meeting.

Thank you

Exception: In dwelling units designed to be accessible to persons with disabilities, receptacles shall be permitted to be installed not more than 300 mm (12 in.) below the countertop or work surface. Receptacles installed below a countertop or work surface shall not be located where the countertop or work surface extends more than 150 mm (6 in.) beyond its support base.

Ryan Jackson

UTAH DEPARTMENT OF COMMERCE DIVISION OF OCCUPATIONAL AND
 PROFESSIONAL LICENSING 160 East 300 South Salt Lake City UT 84111 PO Box 146741 Salt
 Lake City UT 84114-6741
 E-mail: b8@utah.gov
 Web: www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:03/25/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: IBC <small>(Include edition)</small>	
Section: IBC 202	
Section Definitions	
AMENDMENT:	
<p>Approved Agency. An established and recognized agency that is regularly engaged in conducting tests, furnishing inspection services, or furnishing product certification, and has been approved by the building official.</p> <p>Approved Sources. An independent person, firm or corporation approved by the building official, who is competent and experienced in the application of engineering principles and materials, methods, or systems analyses</p>	

Purpose of or Reason for the amendment:

The building industry is rapidly changing with new products and assemblies becoming available all the time. The building official is an expert in evaluating installed products to insure they meet the specifications of a manufacture or design professional. It would be unfair to expect a building official to become and expert in all aspects of design. Engineers are highly educated and heavily insured and the best equipped to assume these responsibilities. The construction process runs smoother when each player performs there work flawlessly and relies on others to do the same.

Cost or Savings Impact of Amendment:

This does not generate any cost but could save a minor amount in the form of freeing up building official's time.

Compliance Costs for Affected Persons (A Person@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

This amendment will reduce the building officials time commitment when new products or processes are introduced.

Signature:

Date:

For Division Use:

Date Received:

Committee Action:

Approved
Approved with
revisions Referred to:
Tabled

Denied

X 6 7 22

UBC Commission Decision for Hearing:

Approved for hearing Denied *6-22*
Approved with revisions Referred
to: Tabled

Date Filed:

Public Hearing Date:

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City, State, Zip Draper Utah 84020	
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Code to be Amended: IBC <small>(Include edition)</small>	
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Section Definitions	

AMENDMENT:
<p>Approved Agency. An established and recognized agency that is regularly engaged in conducting tests, furnishing inspection services, or furnishing product certification, and has been approved by the building official.</p> <p>Approved Sources. An independent person, firm or corporation approved by the building official, who is competent and experienced in the application of engineering principles and materials, methods, or systems analyses</p>

Purpose of or Reason for the amendment: The building industry is rapidly changing with new products and assemblies becoming available all the time. The building official is an expert in evaluating installed products to insure they meet the specifications of a manufacture or design professional. It would be unfair to expect a building official to become and expert in all aspects of design. Engineers are highly educated and heavily insured and the best equipped to assume these responsibilities. The construction process runs smoother when each player performs there work flawlessly and relies on others to do the same.	
Cost or Savings Impact of Amendment: This does not generate any cost but could save a minor amount in the form of freeing up building official's time.	
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): This amendment will reduce the building officials time commitment when new products or processes are introduced.	
Signature:	Date:

For Division Use:

Date Received:	
Committee Action: Approved Δ Denied <i>X</i> <i>6-7-22</i> Approved with revisions Referred to: Tabled	UBC Commission Decision for Hearing: Approved for hearing Δ Denied Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions Referred to: Tabled	Effective Date:

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah		Date:03 /25/2022
Street Address:38 W 13775 S suite 120		
City, State, Zip Draper Utah 84020		
Contact Person: Ross Ford		Phone:801-352-8266
Code to be Amended: IRC (Include edition)		
Section: R101.2 (Exception)		
Section: scope and general requirements		

AMENDMENT:
<p>Exception: the following shall be permitted to be constructed in accordance with this code where provided with an automatic sprinkler system complying with Section R2904</p>

Reason:

These structures are similar in nature and risk factor to standard residential units. The state of Utah has already debated the value of sprinklers in those units and determined they are the expense is too high.

Since the inclusion of the mandatory requirement for residential sprinklers in the 2009 IRC, more than 42 states have amended or passed legislation removing the residential sprinkler mandate for new one- and two- family dwellings. Of those states, 27 prohibit communities from requiring fire sprinkler systems from

being installed. It is important to note that the voluntary installation of residential sprinklers is still allowed.

The median age of one- and two-family housing in the U.S. is 35 years, and that number continues to increase. These older homes are more likely to have outdated electrical systems, appliances, use space heaters or display other characteristics that lead to a greater risk of a fire starting. Newer homes have fire blocking, hardwired smoke alarms and egress windows installed to today's codes, all of which increase the chances of surviving a fire. Even as homes built to today's residential code get older, they will continue to provide protection for families through their improved safety.

While questions regarding construction code requirements intended to increase the safety of homes cannot, and should not, be decided solely on the issue of cost, it is reasonable to ask if there is a demonstrated state- or region-specific need for the requirement or if an acceptable level of safety can be achieved through other, less expensive means. The cost of an incremental increase in the margin of safety can be quite high.

Higher regulatory costs have real consequences for working American families. These regulations end up pushing the price of housing beyond the means of many teachers, police officers, firefighters and other middle-class workers. Every \$838 increase in construction costs adds an additional \$1,000 to the final price of the home, and in the U.S., over 150,000 households would no longer qualify for a mortgage based on that \$1,000 increase to a median-priced home. The average cost of a sprinkler system is \$6,000.

Mandating costly incremental increases in safety will only protect those who can afford them and will often decrease safety for those who cannot. Families who cannot qualify to purchase homes due to the increased costs from mandatory code requirements such as fire sprinklers will have to live in housing that is less safe, because that housing was built to less stringent code requirements.

Cost or Savings Impact of Amendment:

Depending on the size of the structure removing the requirement for sprinklers will reduce the cost as much as \$10,000

Compliance Costs for Affected Persons (A Person means any individual, partnership, corporation, association,

governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

This amendment has no increase in work load and will not increase costs.

Signature:	Date:
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For Division Use:

Date Received:	
Committee Action: Approved <input checked="" type="checkbox"/> Denied <i>6-7-22</i> Approved with revisions Referred to: Tabled	UBC Commission Decision for Hearing: Approved for hearing <input type="checkbox"/> Denied <input type="checkbox"/> Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved <i>6-22-21</i> <input type="checkbox"/> Denied <input checked="" type="checkbox"/> Approved with revisions Referred to: Tabled	Effective Date:

UTAH DEPARTMENT OF COMMERCE
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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:03/25/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: IRC /IBC <small>(Include edition)</small>	
Section: R114.1 / 115.1	
Section: Stop work order	

<p>AMENDMENT:</p> <p>Note this an amendment found in15A-3-102(3) The language in the amendment is now included in the code, so the proposal is to strike the current amendment and replace it with the following.</p> <p>R114.1 and 115.1 Where The building official finds any work regulated by this code being performed in a manner contrary to the provisions of this code, <u>and the owner or the owner's representative is unwilling to make necessary corrections to comply with the code</u> or in a dangerous or unsafe manner, the building official is authorized to issue a stop work order.</p>
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Purpose of or Reason for the amendment:

The building official lacks the formal training and expertise to accurately assess "dangerous or unsafe".
The building official has the expertise to identify the appearance of dangerous and unsafe and if identified should immediately contact the proper individuals or agencies with the training, expertise and authority to over see proper actions to remedy the situation.

A red tag has enormous impact that can ripple far beyond the short time elapsed needed to correct the immediate situation. Shutting down a job will displace workers leaving them without an income of forcing them to find work elsewhere. Restarting a job that has been shut down even for a short time will take weeks and cost thousands of dollars.

If actions as drastic as a red tag are going to be taken, the situation needs to be observed by trained professionals. The decisions stop work should be made by individuals with full understanding of the situation, what the risks are to continue forward and what the proper path is to correct the situation.

Cost or Savings Impact of Amendment:

This amendment has no cost impact

Compliance Costs for Affected Persons (A Person@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

This amendment will reduce the building officials time commitment and save money.

Signature:

Date:

For Division Use:

Date Received:

Committee Action:

Approved
Approved with revisions
Referred to:
Tabled

Δ Denied X 6-7-22

UBC Commission Decision for Hearing:

Approved for hearing
Approved with revisions
Referred to:
Tabled

Δ Denied X 6-22-22

Date Filed:

Public Hearing Date:

UBC Commission Decision for Adoption:

Approved
Approved with revisions
Referred to:
Tabled

Δ Denied

Effective Date:

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:03/25/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: IRC <small>(Include edition)</small>	
Section: R302.5.1	
Section: Opening protection	

AMENDMENT: <p>Opening protection. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other opening between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35mm) in thickness, solid or honey comb core steel doors not less than 1 3/8 inches (35mm) thick, or 20,- minute fire-rated doors. Doors shall be self-latching and equipped with self-closing or automatic-closing device.</p>
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Purpose of or Reason for the amendment: For many years proponents argued that fires that originate in the garage could pass through these opening but failed to provide any reliable data or statistics. In the 2009-10 code process, the proponents returned with a new reason to prevent the spread of carbon monoxide from vehicles and the by-product produced by burning thermoplastics. While the proponents were able to produce and extremely lengthy dissertation on the hazards of carbon monoxide and the number of false alarms created by carbon monoxide detectors, nowhere in their written or oral testimony did the link any statistical substantiation to need for closures on these opening nor has there been any other evidence produced by other parties.	
Cost or Savings Impact of Amendment: The cost would depend on the number of hinges per door, heavy doors may require 2 in that case it could be around \$80 per home for parts, labor and profit.	
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): This amendment will reduce the building officials time commitment and save money.	
Signature:	Date:

For Division Use:

Date Received:	
Committee Action: Approved Δ Denied <i>6-7-22</i> Approved with revisions Referred to: Tabled	UBC Commission Decision for Hearing: Approved for hearing Δ Denied <i>6-22-22</i> Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions Referred to: Tabled	Effective Date:

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:04/15/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: IRC (Include edition)	
Section: IRC R303.4	
Section Mechanical ventilation	

AMENDMENT:
Mechanical ventilation. Building and dwelling units complying with section N1102.4.1 shall be provided with mechanical ventilation in accordance with section M1505, or wit other approved means of ventilation. <u>Exception: Air changes of 3 per hour or greater do not require mechanical ventilation.</u>

Purpose of or Reason for the amendment: The building industry is rapidly changing with new products and assembles becoming available all the time. The building official is an expert in evaluating installed products to insure they meet the specifications of a manufacture or design professional. It would be unfair to expect a building official to become and expert in all aspects of design. Engineers are highly educated and heavily insured and the best equipped to assume these responsibilities. The construction process runs smoother when each player performs there work flawlessly and relies on others to do the same.	
Cost or Savings Impact of Amendment: This does not generate any cost but could save a minor amount in the form of freeing up building official's time.	
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): This amendment will reduce the building officials time commitment when new products or processes are introduced.	
Signature:	Date:

For Division Use:

Date Received:	
Committee Action: Approved Δ Denied X 6-7-22 Approved with revisions Referred to: Tabled	UBC Commission Decision for Hearing: X Approved for hearing Δ Denied 6-22-22 Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions Referred to: Tabled	Effective Date:

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah		Date:03/25/2022
Street Address:38 W 13775 S suite 120		
City, State, Zip Draper Utah 84020		
Contact Person: Ross Ford		Phone:801-352-8266
Code to be Amended: IRC (Include edition)		
Section: R312.1.1		
Section: Gaurds and window fall protection		

AMENDMENT:
<p>R312.1.1 Where required. Guards shall be provided for those portions of open-sided walking surfaces, including floors, stairs, ramps and landings that are located more than 30 inches (762 mm) measured vertically to the floor or grade below. at any point within 36 inches (914 mm) horizontally to the edge of the open side Insect screening shall not be considered as a guard.</p>

Purpose of or Reason for the amendment:

This amendment retains the provisions of the 2015 IRC and previous editions, where guardrails were required when the elevation difference between the walking surface was greater than 30 inches to the floor or grade directly below. The IRC was amended in 2018 to require a guardrail where the elevation difference is greater than 30 inches from the walking surface to a horizontal point 36 inches adjacent to the leading edge of the walking surface to the grade or floor below. This change will now require the building official to carry a four-foot level to conduct inspections.

The proponent of this change referred to work conducted, and reports written by the ICC Code Technology Committee (CTC). At no time during the public hearings was any technical justification presented to substantiate the change requiring the building official to measure 36 inches away from the leading edge of the walking surface or tread to determine when a guardrail should or should not be required. After reviewing the many reports from the CTC website, it is still unclear from where the 36-inch requirement was derived. There are no studies that can support claims that this will have an effect on reducing possible injuries. While the proponent promotes this as a means for consistent enforcement of the guard requirements, there is no evidence of increased risk to the safety of the occupant if the current method of measuring from the edge of the walking surface to grade below is used.

Cost or Savings Impact of Amendment:

This amendment would only decrease costs. However it will only impact homes with the specific set of circumstances that would call for this guard rail.

Compliance Costs for Affected Persons (A Person[®] means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

This amendment will reduce the building officials time commitment and save money.

Signature:

Date:

For Division Use:

Date Received:		<i>withdrawn</i>	
Committee Action: Approved Approved with revisions Referred to: Tabled		UBC Commission Decision for Hearing: Approved for hearing Δ Denied Approved with revisions Referred to: Tabled	
Date Filed:		Public Hearing Date:	

UBC Commission Decision for Adoption:

Approved Δ Denied
Approved with revisions
Referred to:
Tabled

Effective Date:

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REQUEST FOR CODE AMENDMENT

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Street Address: 38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: IRC (Include edition)	
Section: R326.3	
Section: Habitable attics, story above grade plane	

<p>AMENDMENT:</p> <p>R326.3 Story above grade plane. A habitable attic shall be considered a story above grade plane.</p> <p>Exceptions: A habitable attic shall not be considered to be a story above grade plane provided that the habitable attic meets all the following:</p> <ol style="list-style-type: none"> 1. The aggregate area of the habitable attic is either of the following: <ol style="list-style-type: none"> 1.1. Not greater than one-third of the floor area of the story below. 1.2. Not greater than one-half of the floor area of the story below where the habitable attic is located within a dwelling unit equipped with a fire sprinkler system in accordance with Section P2904. 2. The occupiable space is enclosed by the roof assembly above, knee walls, if applicable, on the sides and the floor ceiling assembly below. 3. The floor of the habitable attic does not extend beyond the exterior walls of the story below. 4. Where a habitable attic is located above a third story, the dwelling unit or townhouse unit shall be equipped with a fire sprinkler system in accordance with Section P2904.
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Reason: These modifications remove portions of the newly added Section R326 Habitable Attics. The proponent of this code change stated that it was necessary to add the new language in the IRC since there was inconsistency between the IRC and IBC and that a habitable attic should have similar requirements as a mezzanine in the IBC.

This section places limits on the aggregate area of a habitable attic of not greater than one-third of the floor area of the story below. Having this upper limit on the area would allow for a habitable attic without considering it as a story and would address concerns of it being a full story or equal to the area of the floor(s) below.

Exception #4 has been amended for deletion since it would require the dwelling unit or townhouse unit to be equipped with a fire sprinkler if a habitable attic is located above the third story. While an enclosed mezzanine of similar dimensions would require a sprinkler per Section R325.5, a habitable attic, regardless of use, would require an emergency and escape rescue opening, while a mezzanine does not if it's not a sleeping room. The addition of a sprinkler system would add significant cost to a new dwelling unit or townhouse that is unnecessary.

Cost or Savings Impact of Amendment:

This amendment could open a great deal of space at a greatly reduced cost per square foot because it is already within the structure.

Compliance Costs for Affected Persons (A Person[@] means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

This amendment has no increase in work load and will not increase costs.

Signature:	Date:
------------	-------

For Division Use:

Date Received: <i>withdrawn</i>	
Committee Action: Approved Δ Denied <i>X 6-7-22</i> Approved with revisions Referred to: Tabled	UBC Commission Decision for Hearing: Approved for hearing Δ Denied Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:

UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions Referred to:	
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Tabled	Effective Date:
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 DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
 160 East 300 South Salt Lake City UT 84111
 PO Box 146741 Salt Lake City UT 84114-6741
 E-mail: b8@utah.gov
 Web: www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date: 5/24/2022
Street Address: 38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC <small>(Include edition)</small>	
Section: R506.2.3	
Section Title: Vapor retarder	

<p>AMENDMENT:</p> <p>R506.2.3 Vapor retarder. A minimum 10-mil (0.010 inch; 0.254mm) <u>6-mil (0.006 inch; .152 mm)</u> vapor retarder conforming to ASTM E17545 Class A requirements with joints lapped not less than 6 inches (152 mm) shall be placed between the concrete floor slab and the base course or the prepared subgrade where a base course does not exist.</p>

Purpose of or Reason for the amendment: 6-mil is the current standard and there are no reported problems. 10-mil is still an option. With the growing supply chain problems, it is prudent to have as many options as possible.	
Cost or Savings Impact of Amendment: There is no significant change in cost for this amendment	
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): This amendment will have no cost impact for compliance	
Signature:	Date:

For Division Use:

Date Received:	
Committee Action: Approved Δ Denied <i>6-7-22</i> Approved with revisions Referred to: Tabled	UBC Commission Decision for Hearing: Approved for hearing Δ Denied <i>6-22-22</i> Approved with revisions Referred to: Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: Approved Δ Denied Approved with revisions Referred to: Tabled	Effective Date:

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Home Builders Association of Utah	Date:5/24/2022
Street Address:38 W 13775 S suite 120	
City, State, Zip Draper Utah 84020	
Contact Person: Ross Ford	Phone:801-352-8266
Code to be Amended: 2021 IRC (Include edition)	
Section: R609.4.1	
Section Title: Garage Door Labeling	

AMENDMENT:
609.4.1 Garage door labeling. Strike the entire section

Purpose of or Reason for the amendment:

This is not a life safety issue. Over time the door manufactures will provide this on all doors. This is a requirement that is outside the control of the contractor or homeowner but will be required and will hold up closings up.

Cost or Savings Impact of Amendment:

Striking the language has no cost impact.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

This amendment will eliminate an inspection item for code officials and reduce there overall cost.

Signature:

Date:

For Division Use:

Date Received:

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Approved Δ Denied *X 6-7-22*
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Referred to:
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UBC Commission Decision for Hearing:

Approved for hearing Δ Denied *6-22-22*
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UBC Commission Decision for Adoption:

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Utah State HBA	Date: 1/24/2021
Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC / IECC 2021 <small>(Include edition)</small>	
Section: N1102.2.1 (R402.2.1) / N1102.3.3 (R402.3.3) / N1102.3.4 (R402.3.4) Opaque door exemption	
Section Title: Ceilings with attic spaces / Glazed fenestration exemption / Opaque door exemption	

AMENDMENT: UA alternative exemptions reinstated

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

See attached

Purpose of or Reason for the amendment:

These three sections penalize those using the Total UA alternative when determining which U values or R values can be used for a particular component without justification of reason.

Cost or Savings Impact of Amendment:

Adopting these changes will never add costs to the home. In some cases, it will save money by not requiring additional upgrades be made for those using the UA alternative.

Compliance Costs for Affected Persons (A Person@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

None

Signature:

Date:

For Division Use:

Date Received:

Committee Action:

- Approved 5-24-22 Denied
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UBC Commission Decision for Hearing:

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N1102.2.1 (R402.2.1) Ceilings with attic spaces. Where Section N1102.1.3 requires R-49 insulation in the ceiling or attic, installing R-38 insulation over 100 percent of the ceiling or attic area requiring insulation shall satisfy the requirement for R-49 insulation wherever the full height of uncompressed R-38 insulation extends over the wall top plate at the eaves. Where Section N1102.1.2 requires R-60 insulation in the ceiling, installing R-49 over 100 percent of the ceiling area requiring insulation shall satisfy the requirement for R-60 insulation wherever the full height of uncompressed R-49 insulation extends over the wall top plate at the eaves. This reduction shall not apply to the insulation and fenestration criteria in Section N1102.1.2 and the Total UA alternative in Section N1102.1.5.

N1102.3.3 (R402.3.3) Glazed fenestration exemption. Not greater than 15 square feet (1.4 m²) of glazed fenestration per dwelling unit shall be exempt from the U-factor and SHGC requirements in Section N1102.1.2. This exemption shall not apply to the Total UA alternative in Section N1102.1.5.

N1102.3.4 (R402.3.4) Opaque door exemption. One side-hinged opaque door assembly not greater than 24 square feet (2.22 m²) in area shall be exempt from the U-factor requirement in Section N 1102.1.2. This exemption shall not apply to the and the Total UA alternative in Section N1102.1.5.

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Utah State HBA	Date: 1/24/2021
Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC / IECC 2021 (Include edition)	
Section: N1102.2.9.1 (R402.2.9.1)	
Section Title: Slab-on-grade floor insulation installation	

AMENDMENT: Alternative thermal break at slab

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

See attached.

Purpose of or Reason for the amendment:

As written, 45 degree cut insulation creates unstable joint for flooring to attach to floor due to break at slab near triangle edge next to foundation. Proposed alternative provides desired thermal break, without undue compromise to floor support.
See attached drawings

Cost or Savings Impact of Amendment:

Minimal installation cost, if chosen, with significant long term and durability cost savings for floor system. Code still allows for 45 degree installation if desired by builder and homebuyer.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

None

Signature:

Date:

For Division Use:

Date Received:

Committee Action:

- Approved Denied
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 Referred to:
 Tabled

UBC Commission Decision for Hearing:

- Approved for hearing Denied 6-22-22
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 Referred to:
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Date Filed:

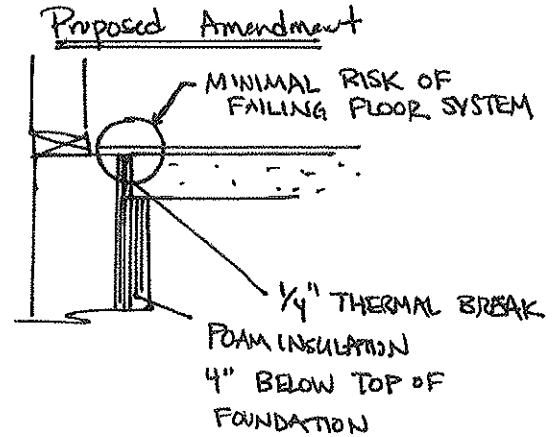
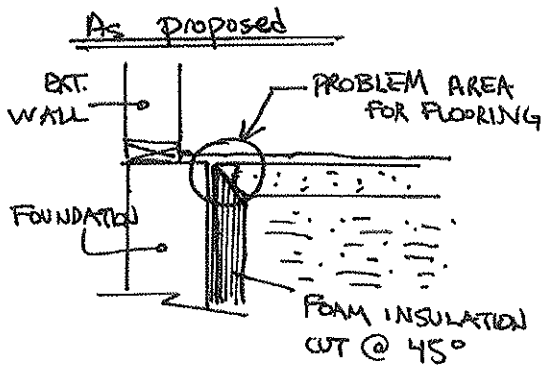
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UBC Commission Decision for Adoption:

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Effective Date:

N1102.2.9.1 (R402.2.9.1) Slab-on-grade floor insulation installation. Where installed, the insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall extend the distance provided in Table N1102.1.3 or the distance of the proposed design, as applicable, by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by not less than 10 inches (254 mm) of soil. The top edge of the insulation installed between the exterior wall and the edge of the interior slab shall be permitted to be (i) cut at a 45-degree (0.79 rad) angle away from the exterior wall, or (ii) lowered from top of slab 4" when a 4" thermal break material such as felt with a minimum thickness of 1/4" is installed at the upper 4" of slab.



but not limited to felt
or asphalt
expansion joint
material

asphalt
impregnated
fiber board

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Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC (Include edition)	
Section: TABLE N1102.4.1.1 (R402.4.1.1) / N1102.4.6 (R402.4.6)	
Section Title: AIR BARRIER, AIR SEALING AND INSULATION INSTALLATION / Electrical and communication outlet boxes (air-sealed boxes).	

AMENDMENT: Revise Rim Joist and Electrical Box provisions

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

See attached

Purpose of or Reason for the amendment:

Refer to E14 attached for discussion on Rim Joist.

For the Electrical boxes the benefit does not justify the cost of \$369 to consumer price of home.

Cost or Savings Impact of Amendment:

The cost of compliance with the electrical outlet box provisions for an average 2600 sf house is estimated to add \$369 to the consumer price of the house.

When interpreted as intended the Rim Joist change would have no cost/savings impact, however, left as is could lead to costly changes, confusion, or failed inspections.

Compliance Costs for Affected Persons (A Person@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

None

Signature:

Date:

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**TABLE N1102.4.1.1 (R402.4.1.1)
AIR BARRIER, AIR SEALING AND INSULATION INSTALLATION ^a**

Rim joists	Rim joists shall include an exterior air barrier. ^b The junctions of the rim board to the sill plate and the rim board and the subfloor shall be air sealed.	Rim joists shall be insulated so that the insulation maintains permanent contact with the exterior rim board.
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes. Alternatively, caulking or gaskets shall be used. air-sealed boxes shall be installed.	-

b. Air barrier and insulation full enclosure is not required in unconditioned/ventilated attic spaces and at rim joists.

~~N1102.4.6 (R402.4.6) Electrical and communication outlet boxes (air-sealed boxes).~~ Electrical and communication outlet boxes installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. Where air-sealed boxes are required by Table N1102.4.1.1, electrical and communication outlet boxes shall comply with all of the following:

- ~~1. be tested in accordance with NEMA OS 4, Requirements for Air-Sealed Boxes or Electrical and Communication Applications, and shall~~
- ~~2. have an air leakage rate of not greater than 2.0 cubic per minute (0.944 L/s) at a pressure differential of 1.57 psf (75 Pa). Electrical and communication outlet boxes shall~~
- ~~3. be marked "NEMA OS 4" or "OS 4" in accordance with NEMA OS 4. Electrical and communication outlet boxes shall~~
- ~~4. be installed per the manufacturer's instructions and with any supplied components required to achieve compliance with NEMA OS 4.~~

E14. Air Barrier Location at Rim Joist – Clarification of Intent

This amendment clarifies the intent of the provision for an air barrier at the rim joist.

Revise as follows:

TABLE R402.4.1.1

AIR BARRIER, AIR SEALING AND INSULATION INSTALLATION^a

COMPONENT	AIR BARRIER CRITERIA INSULATION	INSTALLATION CRITERIA
Rim joists	<p>Rim joists shall include an exterior-air barrier.^b</p> <p>The junctions of the rim board to the sill plate and the rim board and the subfloor shall be air sealed.</p>	Rim joists shall be insulated so that the insulation maintains permanent contact with the exterior rim board. ^b

a. Inspection of log walls shall be in accordance with the provisions of ICC 400.

b. Air barrier and insulation full enclosure is not required in unconditioned/ventilated attic spaces and at rim joists.

Reason:

This amendment simplifies the provisions and allows the building designer the choice of selecting an air barrier based on the specific wall assembly design. Any air barrier at the rim will constitute an exterior air barrier because the rim is always located at the exterior of the structure. Having the additional word "exterior" can lead to misinterpretation that the air barrier always must be outboard of the rim joist's exterior face. That was never the intent of the change that was approved for the 2021 IECC as evidenced by the supporting reason statement that was included by the proponent of the change.

Examples of acceptable air barrier options that meet the intent of the code include (not an exhaustive list):

- Sealing the entire rim joist from the interior with closed-cell spray foam;
- Sealing the rim joist boundaries and joints with caulk from the interior;
- Taping or sealing the joints on the on exterior face of the rim joist;
- Installing mechanically attached membrane (i.e., house wrap) taped at all seams and boundaries;
- Installing exterior rigid foam sheathing taped or sealed at all joints and boundaries;
- Installing a fluid-applied membrane on the exterior face of walls;
- Installing a peel-and-stick membrane on the exterior face of walls.

It is noted that a whole-building tightness test is required to verify the overall air tightness of the house.

[Return to Summary Table](#)

E15. Coordination of Requirements for Air-Sealed Outlet Boxes in Exterior Walls

This amendment coordinates the new prescriptive requirements for electrical and communication outlet boxes with the provisions of Table R402.4.1.1 for air barriers.

Revise as follows:

R402.4.6 Electrical and communication outlet boxes (air-sealed boxes).

~~Electrical and communication outlet boxes installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. Where air-sealed boxes are required by Table R402.4.1.1,~~
Electrical and communication outlet boxes shall comply with all of the following:

1. be tested in accordance with NEMA OS 4, *Requirements for Air-Sealed Boxes for Electrical and Communication Applications*, ~~and shall~~
2. have an air leakage rate of not greater than 2.0 cubic feet per minute (0.944 L/s) at a pressure differential of 1.57 psf (75 Pa). ~~Electrical and communication outlet boxes shall~~
3. be marked "NEMA OS 4" or "OS 4" in accordance with NEMA OS 4. ~~Electrical and communication outlet boxes shall; and,~~
4. be installed per the manufacturer's instructions and with any supplied components required to achieve compliance with NEMA OS 4.

Reason:

Table R402.4.1.1 prescribes conditions where sealed boxes are required. This amendment coordinates the requirements of Table R402.4.1.1 with the new prescriptive provisions for electrical and communication outlet boxes installed in exterior building envelope and penetrating the primary air barrier. Where a continuous air barrier is located behind the outlet box (i.e., between the outlet box and the exterior), these additional prescriptive requirements do not apply.

The cost of compliance with these provisions for an average 2,600 sq.ft. house is estimated to add \$369 to the consumer price of the house.

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Utah State HBA	Date: 1/24/2021
Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC / IECC 2021 (Include edition)	
Section: N1102.4.1.3 (R402.4.1.3)	
Section Title: Leakage rate	

AMENDMENT: **ACH(50) = 4.0 for SF and 5.0 for Townhomes**

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

See attached

Purpose of or Reason for the amendment:

See NAHB Explanation for full details, however, note that their recommendation is based on 5.0 for all homes, while the Utah State HBA is proposing 4.0 for single family homes. Experience, locally and nationally, has proven the challenges in building below 4.0 ACH(50), especially on multifamily projects and smaller homes. Below 3.0 requires additional systems investments, but this can't be determined until the end of the construction; hitting an exact number is impossible in practice resulting in uncertainty of actual requirements until the end.

Cost or Savings Impact of Amendment:

See attached

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

None

Signature:

Date:

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Date Received:	
Committee Action: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input checked="" type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled	UBC Commission Decision for Hearing: <input type="checkbox"/> Approved for hearing <input type="checkbox"/> Denied <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled	Effective Date:

N1102.4.1.3 (R402.4.1.3) Leakage rate. Where complying with Section N1101.13.1, the building or dwelling unit shall have an air leakage rate not exceeding ~~4.0-5.0 air changes per hour in Climate Zones 0, 1 and 2, and 3.0 air changes per hour in Climate Zones 3 through 8,~~ when tested in accordance with Section N1102.4.1.2.

Exception: When testing individual dwelling units, an air leakage rate not exceeding 5.0 air changes per hour ~~or 0.30 cubic feet per minute per square foot [0.008 m³/(s x m²)]~~ of the dwelling unit enclosure area, tested in accordance with ANSI/RESNET/ICC 380, ASTM E779 or ASTM E1827 and reported at a pressure of 0.2 inch w.g. (50 Pa), shall be an accepted alternative for:

1. Attached single and multiple-family building dwelling units.
2. Buildings or dwelling units that are 1,500 square feet (139.4 m²) or smaller.

3.5
5.0 leakage
3.25 2023
3.0 2025

The following amendments apply to provisions of the 2021 IECC that existed since an earlier edition of the code.

E17. Air Leakage Rate Correction (Climate Zones 1-8)

This amendment modifies the requirements from 3 Air Changes per Hour (ACH) to 5 ACH in climate zones 3 through 8.

Revise as follows:

R402.4.1.3 Leakage rate. When complying with Section R401.2.1, the building or dwelling unit shall have an air leakage rate not exceeding 5.0 air changes per hour in Climate Zones 0, 1 and 2, and 3.0 air changes per hour in Climate Zones 3 through 8, when tested in accordance with Section R402.4.1.2.

**Table R405.4.2 (1)
SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS**

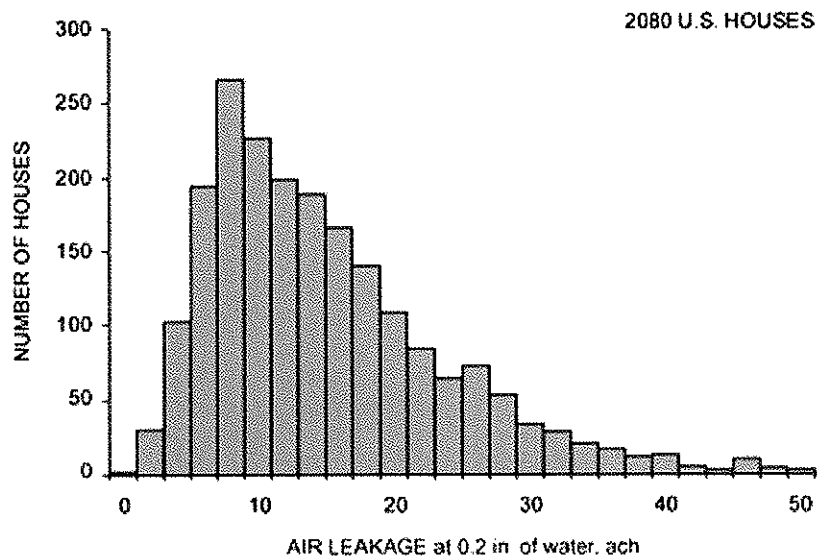
BUILDING COMPONENT	STANDARD REFERENCE DESIGN	PROPOSED DESIGN
Air exchange rate	<p>The air leakage rate at a pressure of 0.2 inch w.g. (50 Pa) shall be</p> <p>Climate Zones 1 and 2: 5 air changes per hour.</p> <p>Climate Zones 3 through 8: 3 air changes per hour.</p> <p>The mechanical ventilation rate shall be in addition to the air leakage rate and shall be the same as in the proposed design, but not greater than</p> $0.01 \times CFA + 7.5 \times (N_{br} + 1)$ <p>where:</p> <p>CFA = conditioned floor area, ft²</p> <p>N_{br} = number of bedrooms</p>	<p>The measured air exchange rate^a.</p> <p>The mechanical ventilation rate^b shall be in addition to the air leakage rate and shall be as proposed</p>

Footnotes remain unchanged

Reason:

Building airtightness is an important part of an energy-efficient and comfortable house. However, 3 air changes (ACH) per hour at 50 Pascals is an extremely low target tightness, especially for smaller homes. The ASHRAE Handbook of Fundamentals shows that around 8% of U.S. homes achieve 3 ACH or less, 13% achieve 4 and less than 23% achieve 5. The proposed 5 ACH while still an aggressive tightness level will provide a tight, comfortable, energy-efficient home.

2013 ASHRAE Handbook—Fundamentals



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Requesting Agency/Person: Utah State HBA	Date: 1/24/2021
Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC (IECC 2021) <small>(Include edition)</small>	
Section: N1103.3.1 (R403.3.1)	
Section Title: Ducts located outside conditioned space.	

AMENDMENT:

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

See attached

Purpose of or Reason for the amendment:

Retain language and requirements of existing building code. Changes are proposed without adequate justification or evidence supporting increased cost of construction. Both the proposed language and this amendment have the same requirements for ducts in attics outside of conditioned space. Only rare cases of ducts below slabs are affected.

Cost or Savings Impact of Amendment:

No additional cost. Modest savings in rare cases.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

None

Signature:

Date:

For Division Use:

Date Received:

Committee Action:

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- Approved for hearing Denied *6-22-22*
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Date Filed:

Public Hearing Date:

UBC Commission Decision for Adoption:

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N1103.3.1 (R403.3.1) Ducts located outside conditioned space. ~~Supply and return ducts located outside conditioned space shall be insulated to an R-value of not less than R-8 for ducts 3 inches (76 mm) in diameter and larger and not less than R-6 for ducts smaller than 3 inches (76 mm) in diameter. Ducts buried beneath a building shall be insulated as required by this section or have an equivalent thermal distribution efficiency. Underground ducts utilizing the thermal distribution efficiency method shall be listed and labeled to indicate the R-value equivalency.~~

Supply and return ducts in attics shall be insulated to a minimum of R-8 where 3 inches (76.2 mm) in diameter and greater and R-6 where less than 3 inches (76.2 mm) in diameter. Supply and return ducts in other portions of the building shall be insulated to a minimum of R-6 where 3 inches (76.2 mm) in diameter or greater and R-4.2 where less than 3 inches (76.2 mm) in diameter.

Exception: Ducts or portions thereof located completely inside the *building thermal envelope*

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Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC (Include edition)	
Section: N1103.5.1.1 (R403.5. 1.1)	
Section Title: Circulation Systems	

AMENDMENT: Clarify that circulation systems are not required in every home.

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

N1103.5.1.1 (R403.5. 1.1) Circulation systems. Where installed, heated water circulation systems shall be provided with a circulation pump.

Purpose of or Reason for the amendment:

As written, it implies that a heated water circulation system SHALL be provided in every home, which is not reasonable, and unlikely the intent.

Cost or Savings Impact of Amendment:

\$1000 to \$2500 savings

Compliance Costs for Affected Persons (A Person@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

None

Signature:

Date:

For Division Use:

Date Received:

Committee Action:

- Approved Denied *6-14-22*
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UBC Commission Decision for Hearing:

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Effective Date:

UTAH DEPARTMENT OF COMMERCE
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160 East 300 South Salt Lake City UT 84111
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E-mail: b8@utah.gov
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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Utah State HBA	Date: 1/24/2021
Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC / IECC 2021 <small>(Include edition)</small>	
Section: N1103.6.3 (R403.6.3)	
Section Title: Testing.	

AMENDMENT: Delete entire section

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

Delete section entirely

Purpose of or Reason for the amendment:

Ventilation systems should be installed in accordance with mechanical provisions of Chapters 15 and 16 of the IRC and the manufacturer's installation instructions. Where both are followed, good performance will be achieved without the need for testing and the associated cost. The focus should be on achieving compliance with the mechanical code provisions such as proper fan air flow rating, fan efficacy, maximum duct length, number of elbows, and duct sealing.

Cost or Savings Impact of Amendment:

Estimated at \$1,000 per average home, could be much more in remote parts of state or cause unnecessary delays in schedules. Adequate supply of testing equipment is not on hand to test every home built or remodelled with any level of efficiency or reliability.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

None

Signature:

Date:

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UBC Commission Decision for Hearing:

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Date Filed:

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UBC Commission Decision for Adoption:

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Effective Date:

~~**N1103.6.3 (R403.6.3) Testing.** Mechanical ventilation systems shall be tested and verified to provide the minimum ventilation flow rates required by Section N1103.6. Testing shall be performed according to the ventilation equipment manufacturer's instructions, or by using a flow hood or box, flow grid, or other airflow measuring device at the mechanical ventilation fan's inlet terminals or grilles, outlet terminals or grilles, or in the connected ventilation ducts. Where required by the code official, testing may shall be conducted by the code official, the general contractor, or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.~~

~~**Exception:** Kitchen range hoods that are ducted to the outside with 6-inch (152 mm) or larger duct and not more than one 90-degree (1.57 rad) elbow or equivalent in the duct run.~~

E7. Mechanical Code Compliance for Ventilation Systems

This amendment removes the requirement for flow rate testing on mechanical ventilation systems.

Revise as follows:

R403.6.3 Testing-

~~Mechanical ventilation systems shall be tested and verified to provide the minimum ventilation flow rates required by Section R403.6. Testing shall be performed according to the ventilation equipment manufacturer's instructions, or by using a flow hood or box, flow grid, or other airflow measuring device at the mechanical ventilation fan's inlet terminals or grilles, outlet terminals or grilles, or in the connected ventilation ducts. Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.~~

Exception: Kitchen range hoods that are ducted to the outside with 6-inch (152 mm) or larger duct and not more than one 90-degree (1.57 rad) elbow or equivalent in the duct run.

Reason:

Ventilation systems should be installed in accordance with mechanical provisions of Chapters 15 and 16 of the IRC and the manufacturer's installation instructions. Where both are followed, good performance will be achieved without the need for testing and the associated cost. The focus should be on achieving compliance with the mechanical code provisions such as proper fan air flow rating, fan efficacy, maximum duct length, number of elbows, and duct sealing.

[Return to Summary Table](#)

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Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC / IECC 2021 <small>(Include edition)</small>	
Section: N1104.1.1 (R404. 1.1)	
Section Title: Exterior lighting	

AMENDMENT: Resolving conflict with Commercial Energy Code Ext Lighting Requirements
Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.) 1. Include the entire section you wish to amend. 2. Attach additional sheets if necessary. Delete section entirely

Purpose of or Reason for the amendment: Low-rise residential buildings should not be required to comply with complex lighting provisions of the commercial energy code that address a wide range of occupancies covered by the I-Codes. The IRC is a standalone code that was always intended to function independently of other I-codes. IRC Section R404.3 addresses Exterior Lighting Controls.	
Cost or Savings Impact of Amendment:	
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): None	
Signature:	Date:

For Division Use:

Date Received:	
Committee Action: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied <i>6-14-22</i> <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled	UBC Commission Decision for Hearing: <input type="checkbox"/> Approved for hearing <input checked="" type="checkbox"/> Denied <i>6-22-22</i> <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled	Effective Date:

~~N1104.1.1 (R404.1.1) Exterior lighting. Connected exterior lighting for Group R-2, R-3 and R-4 buildings shall comply with Section C405.4 of the international Energy Conservation Code—Commercial Provisions.~~

Exceptions:

- ~~1. Detached one and two family dwellings.~~
- ~~2. Townhouses.~~
- ~~3. Solar-powered lamps not connected to any electrical service.~~
- ~~4. Luminaires controlled by a motion sensor.~~

E9. Resolving Conflict with Commercial Energy Code Exterior Lighting Requirements

This amendment removes the requirement for residential exterior lighting systems to comply with commercial lighting provisions.

Reason:

Low-rise residential buildings should not be required to comply with complex lighting provisions of the commercial energy code that address a wide range of occupancies covered by the I-Codes. The IRC is a standalone code that was always intended to function independently of other I-codes. IRC Section R404.3 addresses Exterior Lighting Controls.

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REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Utah State HBA	Date: 1/24/2021
Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC / IECC 2021 (Include edition)	
Section: N1104.2 (R404.2) / N1104.3 (R404.3)	
Section Title: Interior lighting controls / Exterior lighting controls	

AMENDMENT: Remove required lighting controls

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

Delete both Sections entirely.
See attached strike through text.

Purpose of or Reason for the amendment:

The provisions for lighting controls are removed for the following reasons:

- The language allows "other control" which can be a simple on/off switch;
- With the requirement for high-efficacy lamps, adding controls does not result in significant energy savings;
- Occupancy sensors can be disruptive to the occupant; and,
- Dimmers and sensors, which primarily address lifestyle preferences, should remain a design option.

Cost or Savings Impact of Amendment:

Savings an estimated \$100 per home

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

None

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Date:

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N1104.2 (R404.2) Interior lighting controls. Permanently installed lighting fixtures shall be controlled with a dimmer, an occupant sensor control or another control that is installed or built into the fixture.

Exception: Lighting controls shall not be required for the following:

1. Bathrooms.
2. Hallways.
3. Exterior lighting fixtures.
4. Lighting designed for safety or security.

N1104.3 (R404.3) Exterior lighting controls. Where the total permanently installed exterior lighting power is greater than 30 watts, the permanently installed exterior lighting shall comply with the following:

1. Lighting shall be controlled by a manual on and off switch that permits automatic shut-off actions.

Exception: Lighting serving multiple dwelling units.

2. Lighting shall be automatically shut off when daylight is present and satisfies the lighting needs.
3. Controls that override automatic shut-off actions shall not be allowed unless the override automatically returns automatic control to its normal operation within 24 hours.

E8. Design Option for Lighting Controls

This amendment removes the requirement for lighting controls.

Reason:

The provisions for lighting controls are removed for the following reasons:

- The language allows "other control" which can be a simple on/off switch;
- With the requirement for high-efficacy lamps, adding controls does not result in significant energy savings;
- Occupancy sensors can be disruptive to the occupant; and,
- Dimmers and sensors, which primarily address lifestyle preferences, should remain a design option.

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REQUEST FOR CODE AMENDMENT

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Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC <small>(Include edition)</small>	
Section: N1105.2 (R405.2)	
Section Title: Performance-based compliance.	

<p>AMENDMENT:</p> <p>Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)</p> <ol style="list-style-type: none"> 1. Include the entire section you wish to amend. 2. Attach additional sheets if necessary. <p>N1105.2 (R405.2) Performance-based compliance. Compliance based on total building performance requires that a proposed design meets all of the following:</p> <ol style="list-style-type: none"> 1. The requirements of the sections indicated within Table N1105.2. 2. The building thermal envelope greater than or equal to levels of efficiency and solar heat gain coefficients in Table R402.1.1 or R402.1.3 of the 2009 International Energy Conservation Code. 3. An annual energy cost that is less than or equal to the annual energy cost of the standard reference design. Energy prices shall be taken from a source approved by the code official, such as the Department of Energy, Energy Information Administration's State Energy Data System Prices and Expenditures reports. Code officials shall be permitted to require time-of use pricing in energy cost calculations, <u>where applicable and readily available.</u>

Purpose of or Reason for the amendment: Remove ambiguity of sources for energy cost sources.	
Cost or Savings Impact of Amendment: None	
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): None	
Signature:	Date:

For Division Use:

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Committee Action: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input checked="" type="checkbox"/> Approved with revisions <i>6-14-22</i> <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled	UBC Commission Decision for Hearing: <input checked="" type="checkbox"/> Approved for hearing <input type="checkbox"/> Denied <i>6-22-22</i> <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled
Date Filed:	Public Hearing Date:
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Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: 2021 IRC / IECC 2021 (Include edition)	
Section: TABLE R405.4.2(1) <i>N 1105.4.2(1)</i>	
Section Title: SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS	

AMENDMENT: Corrections to Standard Reference Designs

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

See attached changes.

Purpose of or Reason for the amendment:

These amendments bring the table into compliance with other changes effective in other parts of the building code as amended, including the Utah version of RESCheck already in use.

Cost or Savings Impact of Amendment:

No change

Compliance Costs for Affected Persons (A Person@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}):

None

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Effective Date:

TABLE R405.4.2(1)—continued
SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS

BUILDING COMPONENT	STANDARD REFERENCE DESIGN	PROPOSED DESIGN																																	
Air exchange rate	<p>The air leakage rate at a pressure of 0.2 inch w.g. (50 Pa) shall be Climate Zones 0 through 2; 5.0 air changes per hour.</p> <p>NABE</p> <p>Climate Zones 3 through 8 : 3.0 5.0 air changes per hour.</p>	The measured air exchange rate. ^a																																	
	<p>The mechanical ventilation rate shall be in addition to the air leakage rate and shall be the same as in the proposed design, but no greater than $0.01 \times \text{CFA} + 7.5 \times (\text{N}_{br} + 1)$ where:</p> <p>CFA = conditioned floor area N_{br} = number of bedrooms</p> <p>The mechanical ventilation system type shall be the same as in the proposed design. Energy recovery shall not be assumed for mechanical ventilation.</p>	The mechanical ventilation rate ^b shall be in addition to the air leakage rate and shall be as proposed																																	
Heating systems ^{d,e}	<p>NABE</p> <p>For other than electric heating without a heat pump as proposed. Where the proposed design utilizes electric heating without a heat pump the standard reference design shall be an air source heat pump meeting the requirements of Section C403 of the International Energy Conservation Code—Commercial Provisions.</p>	As proposed																																	
	<p><u>Fuel Type: same as proposed design</u></p>	As proposed																																	
	<p><u>Efficiencies-</u></p> <p><u>Electric: air-source heat pump with prevailing federal minimum standards</u></p>	As proposed																																	
	<p><u>Nonelectric furnace: natural gas furnace with prevailing federal minimum standards</u></p>	As proposed																																	
	<p><u>Nonelectric boilers: natural gas boiler with prevailing federal minimum standards</u></p>	As proposed																																	
Cooling systems ^{d,f}	<p>Capacity: sized in accordance with Section N11403.7</p>	As proposed																																	
	<p>As proposed</p> <p><u>Fuel Type: Electric</u></p>	As proposed																																	
	<p><u>Efficiency: in accordance with prevailing federal minimum standards</u></p>	As proposed																																	
	<p>Capacity: sized in accordance with Section N11403.7.</p>	As proposed																																	
Service water Heating ^{d,g}	<p>As proposed</p> <p><u>Fuel Type: same as proposed design</u></p> <p><u>Efficiency: in accordance with prevailing federal minimum standards</u></p> <p>Use in units of gal/day = $30 + (10 \times \text{N}_{br})$ where: N_{br} = number of bedrooms</p> <p><u>Tank temperature: 120 °F</u></p>	<p>As proposed</p> <p>As proposed</p> <p>Same as standard reference</p> <p>Same as standard reference</p> <p>Same as standard reference</p>																																	
	<p>Use, in units of gal/day = $25.5 \div (8.5 \times \text{N}_{br}) \times (1 - \text{HWDS})$ where:</p> <p>N_{br} = number of bedrooms</p> <p>HWDS = factor for the compactness of the hot water distribution system:</p> <table border="1" data-bbox="1052 1707 1404 1869"> <thead> <tr> <th colspan="2">Compactness ratio factor</th> <th rowspan="2">HWDS</th> </tr> <tr> <th>1-story</th> <th>2-or-more stories</th> </tr> </thead> <tbody> <tr> <td>> 60%</td> <td>> 30%</td> <td>0</td> </tr> <tr> <td>> 30% ≤ 60%</td> <td>> 15% ≤ 30%</td> <td>0.05</td> </tr> <tr> <td>> 15% ≤ 30%</td> <td>> 7.5% ≤ 15%</td> <td>0.10</td> </tr> <tr> <td>< 15%</td> <td>< 7.5%</td> <td>0.15</td> </tr> </tbody> </table>	Compactness ratio factor		HWDS	1-story	2-or-more stories	> 60%	> 30%	0	> 30% ≤ 60%	> 15% ≤ 30%	0.05	> 15% ≤ 30%	> 7.5% ≤ 15%	0.10	< 15%	< 7.5%	0.15	<p>Use, in units of gal/day = $25.5 \div (8.5 \times \text{N}_{br}) \times (1 - \text{HWDS})$ where:</p> <p>N_{br} = number of bedrooms</p> <p>HWDS = factor for the compactness of the hot water distribution system:</p> <table border="1" data-bbox="1052 1707 1404 1869"> <thead> <tr> <th colspan="2">Compactness ratio factor</th> <th rowspan="2">HWDS</th> </tr> <tr> <th>1-story</th> <th>2-or-more stories</th> </tr> </thead> <tbody> <tr> <td>> 60%</td> <td>> 30%</td> <td>0</td> </tr> <tr> <td>> 30% ≤ 60%</td> <td>> 15% ≤ 30%</td> <td>0.05</td> </tr> <tr> <td>> 15% ≤ 30%</td> <td>> 7.5% ≤ 15%</td> <td>0.10</td> </tr> <tr> <td>< 15%</td> <td>< 7.5%</td> <td>0.15</td> </tr> </tbody> </table>	Compactness ratio factor		HWDS	1-story	2-or-more stories	> 60%	> 30%	0	> 30% ≤ 60%	> 15% ≤ 30%	0.05	> 15% ≤ 30%	> 7.5% ≤ 15%	0.10	< 15%	< 7.5%
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REQUEST FOR CODE AMENDMENT

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Street Address: 38 West 13775 South	
City, State, Zip Draper, UT 84020	
Contact Person: Ross Ford	Phone: 801-352-8266
Code to be Amended: (Include edition)	2021 IRC / IECC 2021
Section: N1106.3 (R406.3) / N1106.3.1 (R406.3.1) / N1106.3.2 (R406.3.2) / N1106.4 (R406.4)	
Section Title: Building thermal envelope /On-site renewables are not included/ On-site renewables are included/ Energy Rating Index	

AMENDMENT: ERI Compliance Path - Design Options and Ventilation Correction

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

See attached.

Purpose of or Reason for the amendment: See attached	
Cost or Savings Impact of Amendment: See attached	
Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): None	
Signature:	Date:

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REVISE AS FOLLOWS:

N1106.3 (R406.3) Building thermal envelope. Building and portions thereof shall comply with Section N1106.3.1 or N1106.3.2.

N1106.3.1 (R406.3.1) On-site renewables are not included. Where on-site renewable energy is not included for compliance using the ERI analysis of Section N1106.4, the proposed total building thermal envelope UA, which is sum of U-factor times assembly area, shall be less than or equal to the building thermal envelope UA using the prescriptive U-factors from Table N1102.1.2 multiplied by 1.15 in accordance with Equation 11-4. The area-weighted maximum fenestration SHGC permitted in Climate Zones 0 through 3 shall be 0.30.

$$UA_{\text{Proposed design}} = 1.15 \times UA_{\text{Prescriptive reference design}}$$

(Equation 11-4)

N1106.3.2 (R406.3.2) On-site renewables are included. Where on-site renewable energy is included for compliance using the ERI analysis of Section N1106.4, the building thermal envelope shall be greater than or equal to the levels of efficiency and SHGC in Table N1102.1.2, or Table R402.1.4 of the 2015 International Energy Conservation Code.

N1106.4 (R406.4) Energy Rating Index. The Energy Rating Index (ERI) shall be determined in accordance with RESNET/ICC 301 except that the ERI reference design ventilation rate shall be in accordance with Equation 11-5 shall be permitted to be calculated using the minimum total air exchange rate for the rated home (Q_{tot}) and for the index adjustment factor in accordance with Equation 11.5.

$$\text{Ventilation rate, CFM } Q_{\text{tot}}, \text{ CFM} = (0.01 \times \text{total square foot area of house}) + [7.5 \times (\text{number of bedrooms} + 1)]$$

(Equation 11-5)

Energy used to recharge or refuel a vehicle used for transportation on roads that are not on the building site shall not be included in the ERI reference design or the rated design. For compliance purposes, any reduction in energy use of the rated design associated with on-site renewable energy shall not exceed 5-15 percent of the total energy use.

Reason:

This amendment restores the flexibility in design options for achieving ERI thresholds. The proposed modification maintains a consistent set of envelope requirements for the building independent of on-site generation. It also increases the allowance for the fraction of the overall energy use that can be met by on-site renewables from 5 to 15 percent. The 5% limit is a new requirement that did not exist in the previous energy code and is overly restrictive.

This amendment also fixes a problem that was introduced in the 2018 IRC by requiring the reference design ventilation rate be in accordance with the IRC ventilation rate. This change in 2018 IRC resulted in a significant increase in the calculated ERI scores for the building. That was never the intent of the original change as was acknowledged by the proponent, and it was the result of a lack of coordination of the proposal with the specific terms used in Standard 301. The amendment resolves the issues in accordance with the original intent by allowing the IRC ventilation rate to be used in calculating the ERI instead of changing the reference design building.

E12. ERI Compliance Path – Design Options and Ventilation Correction

This amendment restores the design options for achieving target ERI.

Revise as follows:

R406.3 Building thermal envelope. Building and portions thereof shall comply with Section R406.3.1 or R406.3.2.

~~R406.3.1 On-site renewables are not included. Where on-site renewable energy is not included for compliance using the ERI analysis of Section R406.4, the proposed total building thermal envelope UA, which is sum of U-factor times assembly area, shall be less than or equal to the building thermal envelope UA using the prescriptive U-factors from Table R402.1.2 multiplied by 1.15 in accordance with Equation 4-1. The area-weighted maximum fenestration SHGC permitted in Climate Zones 0 through 3 shall be 0.30.~~

$$UA_{\text{Proposed design}} = 1.15 \times UA_{\text{Prescriptive reference design}} \quad (\text{Equation 4-1})$$

~~**R406.3.2 On-site renewables are included.** Where onsite renewable energy is included for compliance using the ERI analysis of Section R406.4, the building thermal envelope shall be greater than or equal to the levels of efficiency and SHGC in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code.~~

R406.4 Energy Rating Index. The Energy Rating Index (ERI) shall be determined in accordance with RESNET/ICC 301 except for buildings covered by the International Residential Code, the ERI reference design ventilation rate shall be in accordance with Equation 4-2 shall be permitted to be calculated using the minimum total air exchange rate for the rated home (Q_{tot}) and for the index adjustment factor in accordance with Equation 4.2.

$$\text{Ventilation rate } Q_{\text{tot}}, \text{ CFM} = (0.01 \times \text{total square foot area of house}) + [7.5 \times (\text{number of bedrooms} + 1)]$$

(Equation 4-2)

Energy used to recharge or refuel a vehicle used for transportation on roads that are not on the building site shall not be included in the ERI reference design or the rated design. For compliance purposes, any reduction in energy use of the rated design associated with on-site renewable energy shall not exceed ~~5~~ 15 percent of the total energy use.

Reason:

This amendment restores the flexibility in design options for achieving ERI thresholds. The proposed modification maintains a consistent set of envelope requirements for the building independent of on-site generation. It also increases the allowance for the fraction of the overall energy use that can be met by on-site renewables from 5 to 15 percent. The 5% limit is a new requirement that did not exist in the previous energy code and is overly restrictive.

This amendment also fixes a problem that was introduced in the 2018 IRC by requiring the reference design ventilation rate be in accordance with the IRC ventilation rate. This change in 2018 IRC resulted in a significant increase in the calculated ERI scores for the building. That was never the intent of the original change as was acknowledged by the proponent, and it was the result of a lack of coordination of the proposal with the specific terms used in Standard 301. The amendment resolves the issues in accordance with the original intent by allowing the IRC ventilation rate to be used in calculating the ERI instead of changing the reference design building.

[Return to Summary Table](#)

UTAH DEPARTMENT OF COMMERCE
DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
160 East 300 South Salt Lake City UT 84111
PO Box 146741 Salt Lake City UT 84114-6741
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Web: www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: Utah State HBA	Date: 1/24/2022
Street Address:	
City, State, Zip	
Contact Person:	Phone:
Code to be Amended: IRC 2021 / IECC <small>(Include edition)</small>	
Section: Chapter 11	
Section Title: various	

AMENDMENT: Existing state amendments and clarifications

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

See attached sheets for applicable sections with recommended state amendments to keep in the proposed 2021 IRC.

Purpose of or Reason for the amendment: To retain the currently adopted state amendments of the IRC in order to provide reasonably energy efficient homes at an affordable price to Utah families.	
Cost or Savings Impact of Amendment: There should be no additional cost or savings compared to the currently adopted state building codes	
Compliance Costs for Affected Persons (A Person@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons {cost per person times number of persons affected}): None	
Signature:	Date:

For Division Use:

Date Received:	
Committee Action: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input checked="" type="checkbox"/> Approved with revisions <i>6-14-12</i> <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled	UBC Commission Decision for Hearing: <input type="checkbox"/> Approved for hearing <input type="checkbox"/> Denied <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled	Effective Date:

N1101.5 (R103.2) Information on construction documents. Construction documents shall be drawn to scale on suitable material. Electronic media documents are permitted to be submitted when approved by the code official. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in sufficient detail pertinent data and features of the building, systems and equipment as herein governed. ~~Details shall include the following as applicable:~~

- ~~1. Energy compliance path.~~
- ~~2. Insulation Materials and their R-values.~~
- ~~3. Fenestration U-factors and solar heat gain coefficients (SHGC).~~
- ~~4. Area-weighted U-factor and solar heat gain coefficient (SHGC) calculations.~~
- ~~5. Mechanical system design criteria.~~
- ~~6. Mechanical and service water heating systems and equipment types, sizes and efficiencies.~~
- ~~7. Equipment and system controls.~~
- ~~8. Duct sealing, duct and pipe insulation and location.~~
- ~~9. Air sealing details.~~

Construction Documents required for building permits shall include only those items specified in 10-5-132(8) of the state building code

N1101.12 (R303.3) Maintenance information. Maintenance instructions shall be furnished for equipment and systems that require preventive maintenance. ~~Required regular maintenance actions shall be clearly stated and incorporated on a readily visible label. The label shall include the title or publication number for the operation and maintenance manual for that particular model and type of product.~~

N1102.1.5 (R402.1.5) Total UA alternative. Where the total building thermal envelope UA, the sum of U-factor times assembly area, is less than or equal to the total UA resulting from multiplying the U-factors in Table N1102.1.2 by the same assembly area as in the proposed building, the building shall be considered to be in compliance with Table N1102.1.2. The UA calculation shall be performed using a method consistent with the ASHRAE Handbook of Fundamentals and shall include the thermal bridging effects of framing materials. In addition to UA compliance, the SHGC requirements of Table N1102.1.2 and the maximum fenestration U-factors of Section N1102.5 shall be met.

Compliance with this section may be shown by demonstrating a result, using the software RESCheck 2012 Utah Energy Conservation Code, of "5% better than code", which shall satisfy the R-value and U-value requirements of N1102.1, N1102.2, and N1102.3

Footnote to Table

TABLE N1102.1.3 (R402.1.3)

INSULATION MINIMUM R-VALUES AND FENESTRATION REQUIREMENTS BY COMPONENT

j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has .31 U-factor or lower, minimum heating equipment efficiency is for gas 90 AFUE, or, for oil, 84 AFUE, and all other component requirements are met.

N1102.4.1 (R402.4.1) Building thermal envelope. The building thermal envelope shall comply with Sections N1102.4.1.1 and or N1102.4.1.2 through N1102.4.1.3. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

N1102.4.1.1 (R402.4.1.1) Installation. The components of the building thermal envelope as indicated in Table N1102.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria indicated in Table N1102.4.1.1, as applicable to the method of construction. Where required by the code official, the builder shall certify compliance with criteria indicated in Table 1102.4.1 for items which are not readily visible during regularly scheduled inspections.

N1102.4.1.2 (R402.4.1.2) Testing. The building or dwelling unit shall be tested for air leakage. The maximum air leakage rate for any building or dwelling unit under any compliance path shall not exceed 5.0 air changes per hour or ~~0.28 cubic feet per minute (CFM) per square foot~~ $[0.0079 \text{ m}^3/(\text{s} \times \text{m}^2)]$ of dwelling unit enclosure area. Testing shall be conducted in accordance with ANSJ/RESNET/ICC 380, ASTM E779 ASTM E1827 and reported at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. The following parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who have completed training provided by Blower Door Test equipment manufacturers or other comparable training. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope have been sealed.

Exception: For heated, attached private garages and heated, detached private garages accessory to one and two-family dwellings and townhouses not more than three stories above grade plane in height, building envelope tightness and insulation installation shall be considered acceptable where the items in Table N1102.4.1.1, applicable to the method of construction, are field verified. ~~Where required by the code official, an approved third party independent from the installer shall inspect both air barrier and insulation installation criteria.~~ Heated, attached private garage space and heated, detached private garage space shall be thermally isolated from all other conditioned spaces in accordance with Sections N1102.2.12 and N1102.3.5, as applicable.

N1103.3.5 (R403.3.5) Duct testing. Ducts shall be pressure tested in accordance with ANSI/RESNET/ICC 380 or ASTM E1554 to determine air leakage by one of the following methods:

1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. Registers shall be taped or otherwise sealed during the test.
2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.

Exception: A duct air-leakage test shall not be required for ducts serving heating, cooling or ventilation systems that are not integrated with ducts serving heating or cooling systems.

Exception: A duct air leakage test shall not be required where all air handlers and at least 80% of all ducts (measured by length) are located entirely within the building thermal envelope. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

The following parties shall be approved to conduct testing:

1. Parties certified by BPI or RESNET.
2. Licensed contractors who have completed training provided by Duct Test equipment manufacturers or other comparable training.

N1103.3.6 (R403.3.6) Duct leakage. The total leakage of the ducts, where measured in accordance with Section N1103.3.5, shall be as follows:

1. Rough-in test: The total leakage shall be less than or equal to ~~8.0~~ 4.0 cubic feet per minute ~~(170)~~ (43.3)

L/min) per 100 square feet (9.29 m²) of conditioned floor area where the air handler is installed at the time of the test. Where the air handler is not installed at the time of the test, the total leakage shall be less than or equal to ~~6.0~~3.0 cubic feet per minute (85 L/min) per 100 square feet (9.29 m²) of conditioned floor area.

2. Postconstruction test: Total leakage shall be less than or equal to ~~6.0~~4.0 cubic feet per minute (113.3 • L/min) per 100 square feet (9.29 m²) of conditioned floor area.
3. Test for ducts within thermal envelope: Where all ducts and air handlers are located entirely within the building thermal envelope, a duct leakage test is not required. ~~total leakage shall be less than or equal to 8.0 cubic feet per minute (226.6 L/min) per 100 square feet (9.29 m²) conditioned floor area.~~

N1103.3.7 (R403.3.7) Building cavities. Building framing cavities shall not be used as ducts or plenums.

N1104.1 (R404.1) Lighting equipment. ~~All~~ Not less than 75 percent of the lamps in permanently installed lighting fixtures, excluding kitchen appliance lighting fixtures, shall contain only high-efficacy lighting sources.

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 DIVISION OF OCCUPATIONAL AND PROFESSIONAL LICENSING
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 Web: www.dopl.utah.gov

REQUEST FOR CODE AMENDMENT

Requesting Agency/Person: James Morris	Date: 3/29/2021
Street Address: 1727 W 620 S or 1727 Meadowview Court 620 S	
City, State, Zip Logan, UT, 84321	
Contact Person: Jim Morris (same person)	Phone: 435-669-4847
Code to be Amended: IECC 2021, 1st edition (first printing: January 29, 2021) (Include edition)	
Section: SECTION C405.11	
Section Title: Automatic Receptacle Control	

AMENDMENT:

Type proposed amendment in rule change form. (Using strikeout on portions being removed and underline on all new wording.)

1. Include the entire section you wish to amend.
2. Attach additional sheets if necessary.

~~C405.11 Automatic receptacle control. Automatic receptacle control to be optional and decided by property owner. The following shall have automatic receptacle control complying with Section C405.11.1:~~

~~1. At least 50 percent of all 125V, 15- and 20-amp receptacles installed in enclosed offices, conference rooms, rooms used primarily for copy or print functions, breakrooms, classrooms and individual workstations, including those installed in modular partitions and module office workstation systems:~~

~~2. At least 25 percent of branch circuit feeders installed for modular furniture not shown on the construction documents:~~

~~G405.11.1 Automatic receptacle control function. Automatic receptacle controls shall comply with the following:~~

~~1. Either split-controlled receptacles shall be provided with the top receptacle controlled, or a controlled receptacle shall be located within 12 inches (304.8 mm) of each uncontrolled receptacle.~~

~~2. One of the following methods shall be used to provide control:~~

~~2.1. A scheduled basis using a time-of-day operated control device that turns receptacle power off at specific programmed times and can be programmed separately for each day of the week. The control device shall be configured to provide an independent schedule for each portion of the building of not more than 5,000 square feet (464.5 m²) and not more than one floor. The occupant shall be able to manually override an area for not more than 2 hours. Any individual override switch shall control the receptacles of not more than 5,000 feet (1524 m).~~

~~2.2. An occupant sensor control that shall turn off receptacles within 20 minutes of all occupants leaving a space.~~

~~2.3. An automated signal from another control or alarm system that shall turn off receptacles within 20 minutes after determining that the area is unoccupied.~~

~~3. All controlled receptacles shall be permanently marked in accordance with NFPA 70 and be uniformly distributed throughout the space.~~

~~4. Plug-in devices shall not comply.~~

~~Exceptions: Automatic receptacle controls are not required for the following:~~

~~1. Receptacles specifically designated for equipment requiring continuous operation (24 hours per day, 365 days per year).~~

~~2. Spaces where an automatic control would endanger the safety or security of the room or building occupants.~~

~~3. Within a single modular office workstation, noncontrolled receptacles are permitted to be located more than 12 inches (304.8 mm), but not more than 72 inches (1828 mm) from the controlled receptacles serving that workstation.~~

Purpose of or Reason for the amendment:

Automatic Receptacle Control, is a expense that is not providing the intended benefits desired by the code officials.

Cost or Savings Impact of Amendment:

~\$100 dollars, per workstation; and ~\$100 per automatic controlled receptacle circuits in conference, break, class, computer, copy and print rooms as mandated by energy code.

Compliance Costs for Affected Persons (APerson@ means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency.) (You must break out the impact cost to State Budget, Local Government and you must state aggregate cost to other persons (cost per person times number of persons affected)):

rate of kW/hrs of leeching loads to Utility Company, by not having automatic controlled receptacle available.

Signature:



Date: 3/29/2021

For Division Use:

Date Received:	
Committee Action: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied 6-14-21 <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled	UBC Commission Decision for Hearing: <input type="checkbox"/> Approved for hearing <input type="checkbox"/> Denied <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled
Date Filed:	Public Hearing Date:
UBC Commission Decision for Adoption: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> Approved with revisions <input type="checkbox"/> Referred to: <input type="checkbox"/> Tabled	Effective Date: