



## Proposed IRC Amendments continued...

**Section R602.10.2.2.1 Braced wall panel location in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.** Add a second exception to section, as follows:

“**Exception 2:** Interior *braced wall panels* shall begin within 10 feet (3810 mm) from each end of a braced wall line as determined in Section R602.10.1.1.”

**Section R602.10.2.2.1 Braced wall panel location in Seismic Design Categories D<sub>0</sub>, D<sub>1</sub> and D<sub>2</sub>.** Add a third exception to section, as follows:

“**Exception 3:** For *braced wall panel* construction Method WSP of Section R602.10.4, the *braced wall panel* shall be permitted to begin no more than 12.5 feet (3810 mm) from each end of the *braced wall line*, where a designed collector is provided. See sketches SK1, SK2, and SK3 for designed collectors and applicable conditions.”

**Section R602.10.7 Ends of braced wall lines with continuous sheathing.** Add an exception to section, as follows:

“**Exception:** The first *braced wall panel* shall be permitted to begin 12.5 feet (3810 mm) from each end of the *braced wall line* in Seismic Design Category D<sub>0</sub>, where a designed collector is provided. See sketches SK1, SK2, and SK3 for designed collectors and applicable conditions.”

**Section R602.10.8 Braced wall panel connections.** Add to section; “This section also applies for connections of interior *braced wall panels* to roof trusses and rafters.”

### Chapter 11

**Section N1101.8 (R103.2) Information on construction documents.** Amend last sentence of section to read as follows; “Details shall include, but are not limited to, as applicable, insulation materials and their *R*-values; fenestration *U*-factors and SHGC’s; area-weighted *U*-factor and SHGC calculations; mechanical system design criteria; duct sealing; duct insulation and location; and air sealing details.”

**Section N1101.16 (R401.3) Certificate,** amend “(Mandatory).” in section title to “(Optional).”

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## Proposed IRC Amendments continued...

**Section N1102.1.1 (R402.1.1) Insulation and fenestration criteria.** Amend values in Table N1102.1.1 (R402.1.1) for Climate Zone 2, as follows:

**TABLE N1102.1.1 (R404.1.1)  
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT<sup>a</sup>**

Climate Zone	Fenestration U-Factor <sup>b</sup>	Skylight <sup>c</sup> U-Factor	Glazed Fenestration SHGC <sup>d,e</sup>	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value <sup>f</sup>	Floor R-Value	Basement <sup>g</sup> Wall R-Value	Slab <sup>d</sup> R-Value & Depth	Crawl Space <sup>h</sup> Wall R-Value
2	0.65	0.75	0.35	30	13	4/6	13	0	0	0

*Section N1102.1.1 (R402.1.1) Insulation and fenestration criteria.* Amend Table N1102.1.1 (R402.1.1), as follows: Delete exception to footnote b.

**Section N1102.1.3 (R402.1.3) U-factor alternative.**

**Section N1102.1.4 (R402.1.4) Total UA alternative.**

**Section N1102.2.6 (R402.2.6) Steel-frame ceilings, walls, and floors.** Amend values in Table N1102.1.3 (R402.1.3) for Climate Zone 2, as follows:

**TABLE N1102.1.3 (R404.1.3)  
EQUIVALENT U-FACTORS<sup>a</sup>**

Climate Zone	Fenestration U-Factor	Skylight U-Factor	Ceiling U-Factor	Frame Wall U-Factor	Mass Wall U-Factor <sup>b</sup>	Floor U-Factor	Basement Wall U-Factor	Crawl Space Wall U-Factor
2	0.65	0.75	0.035	0.082	0.165	0.064	0.360	0.477

**Section N1102.4 (R402.4) Air Leakage (Mandatory).** Add sentence to end of section; “Building envelope air tightness and insulation installation shall be demonstrated to comply with one of the following options given by Section N1102.4.1.2 or N1102.4.1.3.”

**Section N1102.4.1.2 (R402.4.1.2) Testing.** Amend Section title to; “Testing option.”

**Add new section, “N1102.4.1.3 Visual inspection option.** The components listed in Table N1102.4.1.1, applicable to the method of construction, are field verified. Where required by the *building official*, an *approved* party independent from the installer of the insulation, shall inspect the air barrier and insulation.”

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## Proposed IRC Amendments continued...

### **Amend Table N1102.4.1.1 (R402.4.1.1) AIR BARRIER AND INSULATION INSTALLATION**, as follows:

Delete component, “Shower/tub on exterior wall” in its entirety.

Delete component, “Electrical/phone box on exterior walls” in its entirety.

Amend criteria under “Fireplace” component, as follows: Delete sentence, “Fireplaces shall have gasketed doors.” in its entirety.

### **Section N1103.2.2 (R403.2.2) Sealing (Mandatory)**. Amend leakage values for duct testing, as follows:

1. Post-construction test: Total leakage shall be less than or equal to **8** cfm (226.8 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer’s air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
2. Rough-in test: Total leakage shall be less than or equal to **6** cfm (169.8 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer’s air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to **4** cfm (113.4 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area.

**Delete Section N1103.4 (R403.4) Circulating hot water systems**, and its sub-sections, in their entirety.

**Add new section “N1103.4 Circulating hot water systems (Mandatory)**. All circulating service hot water piping shall be insulated to at least R-2. Circulating hot water systems shall be provided with an automatic or readily *accessible* manual switch that can turn off the hot-water circulating pump when the system is not in use.”

**Delete Section N1103.5 (R403.5) Mechanical ventilation (Mandatory)**, and its related sub-sections, in their entirety.

**Add new section, “N1103.5 Mechanical Ventilation (Mandatory)**. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilating system is not operating.”

**Delete Section N1103.9.3 (R403.9.3) Covers**.

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## Proposed IRC Amendments continued...

**Delete section N1104.1 (R404.1) Lighting equipment.**

**Amend Table N1105.5.2(1) [R405.5.2(1)] Specifications for the standard reference and proposed designs, as follows:**

Delete component, "Air exchange rate" in its entirety.

### *Chapter 15 Exhaust Systems*

**Section M1507.1 General.** Add sentence to end of section, as follows, "Clarification: Whole-house mechanical ventilation is not required in Climate Zone 2, as amended."

### *Chapter 24 Fuel Gas*

**Section G2406.2 (303.1) Prohibited locations.** Delete items 3 and 4 from this section in their entirety (*un-vented room heaters* in bathrooms and bedrooms).

**Section G2407.5 (304.5) Indoor combustion air.** Insert the following sentences at beginning of section, as follows; "Indoor combustion air shall not be used in new construction within the building envelope. Garages of minimum 400 square feet in area may use combination of infiltration and partial exterior combustion air for one standard water heater fuel gas *appliance* up to 50,000 *Btu/h* total input capacity."

**Section G2407.7 (304.7) Combination indoor and outdoor combustion air.** Insert the following sentences at beginning of section, as follows; "Combination indoor and outdoor combustion air shall not be used in new construction within the building envelope. Garages of minimum 400 square feet in area may use combination of infiltration and partial exterior combustion air for one standard water heater fuel gas *appliance* up to 50,000 *Btu/h* total input capacity."

**Section G2414.5.2 (403.5.2) Copper Tubing.** Add sentence to section; "Copper tubing shall not be used in natural gas piping systems, due to hydrogen sulfide content cannot be guaranteed to be delivered from the serving utility provider to meet the code acceptable levels."

**Section G2415.12 (404.12.1) Minimum burial depth.** Amend section to read as follows, "Underground *piping systems* shall be installed a minimum depth of 12 inches (305 mm) below grade, except as provided for in Section G2415.12.1."

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## Proposed IRC Amendments continued...

**Section G2415.17.1 (404.17.1) Limitations.** Amend Exception 3 for this section to read as follows, “Plastic pipe shall be permitted under uncovered outdoor patio, walkway and driveway slabs provided that the burial depth complies with Section G2415.12.”

**TABLE G2427.10.2.4 (503.10.2.4) Minimum thickness for galvanized steel vent connectors for low-heat appliances.** Amend table to include metal gauge equivalent for minimum thickness indicated:

0.019 inch	28 Ga.
0.023 inch	26 Ga.
0.029 inch	24 Ga.
0.034 inch	22 Ga.
0.056 inch	18 Ga.

**Section G2445.4 (621.4) Prohibited Locations.** Add sentence to end of section as follows; “*Un-vented room heaters* shall not be installed in bedrooms or bathrooms.”

### *Chapter 25 Plumbing Administration*

**Section P2503.4 Building sewer testing.** Delete section in its entirety.

**Section P2503.5.2 Finished plumbing.** Delete item 2 Gas tightness in its entirety.

### *Chapter 26 General Plumbing Requirements*

**Section P2603.2.1 Protection against physical damage.** Amend first sentence to read as follows; “In concealed locations, where piping, other than cast-iron or galvanized steel, is installed through holes or notches in studs, joists, rafters or similar members less than **1 ¼ inches (32 mm)** from the nearest edge of the member, the pipe shall be protected by steel shield plates.”

**Section P2603.5.1 Sewer depth.** Amend section to read as follows; “*Building sewers* that connect to private sewage disposal systems shall be at not less than **12 inches (305 mm)** below finished *grade* at the point of septic tank connection. *Building sewers* shall be not less than **12 inches (305 mm)** below *grade*.”

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## Proposed IRC Amendments continued...

### *Chapter 29 Water Supply and Distribution*

**Section P2905.5 Water-distribution pipe.** Add sentence to end of section as follows; “Use of copper at inaccessible water piping under slabs shall be limited to Type K, with no joints.”

### *Chapter 34 General Requirements*

**Section E3406.3 Minimum size of conductors.** Amend first sentence to read; “The minimum size of conductors for feeders and branch circuits shall be **12** AWG copper and **1** AWG aluminum or copper-clad aluminum for current carrying conductors.”

### *Chapter 36 Services*

**Section E3601.1 Scope.** Add to end of section; “Local utility company installations regulations may exceed/supersede installation requirements of this chapter.”

**Section E3604.2.2 Vertical clearance from grade.** In item 1, amend 10 feet (3048 mm) to 12 feet 6 inches (3810 mm). In Item 2, amend 12 feet (3658 mm) to 12 feet 6 inches (3810 mm).

### *Chapter 37 Branch Circuit and Feeder Requirements*

**TABLE E3702.13 Branch-circuit requirements summary.** Amend table to delete 14 AWG conductors.

### *Chapter 39 Power and Lighting Distribution*

**Section E3901.12 HVAC outlet.** Amend exception to read; “A receptacle outlet shall not be required for the servicing of evaporative coolers **or rooftop HVAC equipment.**”

**Section E3902.2 Garage and accessory building receptacles.** Add exception to section as follows:

“**Exception:** GFCI protection shall not be required for single receptacle outlets dedicated for a specific use (such as a freezer) and receptacle outlets for garage door openers.”

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## Proposed IRC Amendments continued...

### *Appendices*

**APPENDIX A SIZING AND CAPACITIES OF GAS PIPING.** Appendix A is adopted.

**APPENDIX B SIZING OF VENT SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS.** Appendix B is adopted.

**APPENDIX C EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS.** Appendix C is adopted.

**APPENDIX D RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION.** Appendix D is adopted.

**APPENDIX E MANUFACTURED HOUSING USED DWELLINGS.** Appendix E is not adopted.

**APPENDIX F RADON CONTROL METHODS.** Appendix F is not adopted.

**APPENDIX G SWIMMING POOLS, SPAS AND HOT TUBS.** Appendix G is adopted.

**Section AG105.2 Outdoor swimming pool.** Amend subsections as follows:

- a. Amend first sentence in item 1 to read, "The top of the barrier shall be at least **60** inches (1524 mm) above *grade* measured on the side of the barrier which faces away from the swimming pool."
- b. Add to end of item 1, "The barrier shall include a concrete ribbon curb or other approved material around the entire perimeter."
- c. Item 9. Add new subsection, "9.4. Secondary barrier at minimum 48" (1219 mm) above *grade* and installed per standards in paragraphs 1 through 7."

**APPENDIX H PATIO COVERS.** Appendix H is adopted.

**Section AH 103.2 Light, ventilation and emergency egress.** In last sentence of section, amend reference of Section R310 to Section R311.

**APPENDIX I PRIVATE SEWAGE DISPOSAL.** Appendix I is not adopted.

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## Proposed IRC Amendments continued...

### *Appendices (cont...)*

**APPENDIX J EXISTING BUILDINGS AND STRUCTURES.** Appendix J is adopted.

**APPENDIX K SOUND TRANSMISSION.** Appendix K is adopted.

**APPENDIX L PERMIT FEES.** Appendix L is not adopted.

**APPENDIX M HOME DAY CARE – R-3 OCCUPANCY.** Appendix M is adopted.

**APPENDIX N VENTING METHODS.** Appendix N is adopted.

**APPENDIX O AUTOMATIC VEHICULAR GATES.** Appendix O is not adopted.

**APPENDIX P SIZING OF WATER PIPING SYSTEM.** Appendix P is adopted.

**APPENDIX Q ICC INTERNATIONAL RESIDENTIAL CODE ELECTRICAL PROVISIONS/NATIONAL ELECTRICAL CODE CROSS REFERENCE.** Appendix Q is adopted.

For additional information or for specific regulations and permitting requirements, visit the Building Safety or Customer Service division located at 2351 W 26th St., Yuma, AZ 85364 or call (928) 817-5000.