

## IFGC Significant Changes

<b>Summary</b>	Do not adopt change: <b>NA</b>	Adopt change: <b>13</b>	Adopt change with amendment: <b>0</b> May include renumbering or integration of existing amendment
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Last Updated: **5/28/24**

**Red text** = State amendment

**Blue text** = Model code change

	= Significant change
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Existing State Amendment	Title or Subject	2021 IFGC #	2024 IFGC #	Summary	2024 Staff Recommendation	2024 TAG Member Recommendation	Other Comments
<b>General Term Changes</b>							
	Accessible vs. providing access		306.1, 403.11.7, 404.8.2, 404.14.2, 409.5.3, 409.6, 411.1.6, 501.7.3, 503.5.9, 503.12.6	A number of sections throughout the code have the term “accessible” replaced with “has access” “provide access” and “with access”	Adopt changes	Accept changes	
<b>Chapter 1 Scope and Administration</b>							
	Duties and Powers of the Code Official	104/105	104	The primary purpose of this code change is to update Section 104 to reflect the current manner that alternate methods and materials are evaluated, and to differentiate between evaluations from accredited evaluation agencies and evaluations from others, such as engineers; Section 105 was removed and the contents integrated into 104	Adopt changes	Accept all changes for Sections 104 and 105	

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	Determination of compliance		104.2 and subsections	Reformatted and updated; specifies that the code official can adopt policies on approvals	Adopt changes		
	Applications and permits	104.2	104.3	Relocated	Adopt changes		
	Determination of substantially improved or damaged in flood hazard areas		104.3.1	Existing language from IBC, IEBC and IRC added to all codes; allows the use of digital documentation	Adopt changes		
	Warrant		104.4.1	Existing language added to all codes	Adopt changes		
<b>SECTION 104—DUTIES AND POWERS OF THE CODE OFFICIAL</b>							
<p><b>104.1 General.</b> The code official is hereby authorized and directed to enforce the provisions of this <a href="#">code</a>.</p> <p><b>104.2 Determination of compliance.</b> The code official shall have the authority to determine compliance with this code, to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions. Such interpretations, policies and procedures:</p> <ol style="list-style-type: none"> <li>Shall be in compliance with the intent and purpose of this code.</li> <li>Shall not have the effect of waiving requirements specifically provided for in this code.</li> </ol> <p><b>104.2.1 Listed compliance.</b> Where this code or a referenced standard requires <i>equipment</i>, materials, products or services to be <i>listed</i> and a listing standard is specified, the listing shall be based on the specified standard. Where a listing standard is not specified, the listing shall be based on an <i>approved</i> listing criteria. Listings shall be germane to the provision requiring the listing. Installation shall be in accordance with the listing and the manufacturer’s instructions, and where required to verify compliance, the listing standard and manufacturer’s instructions shall be made available to the code official.</p> <p><b>104.2.2 Technical assistance.</b> To determine compliance with this code, the code official is authorized to require the owner or owner’s authorized agent to provide a technical opinion and report.</p> <p><b>104.2.2.1 Costs.</b> A technical opinion and report shall be provided without charge to the jurisdiction</p> <p><b>104.2.2.2 Preparer qualifications.</b> The technical opinion and report shall be prepared by a qualified engineer, specialist, laboratory or specialty organization acceptable to the code official. The code official is authorized to require design submittals to be prepared by, and bear the stamp of, a <i>registered design professional</i>.</p> <p><b>104.2.2.3 Content.</b> The technical opinion and report shall analyze the properties of the design, operation or use of the <i>building</i> or premises and the facilities and appurtenances situated thereon to identify and propose necessary recommendations.</p> <p><b>104.2.2.4 Tests.</b> Where there is insufficient evidence of compliance with the provisions of this <a href="#">code</a>, the code official shall have the authority to require tests as evidence of compliance. <a href="#">Test methods shall be as specified in this code or by other recognized test standards. In the absence of recognized test standards, the code official shall approve the testing procedures. Such tests shall be performed by a party acceptable to the code official.</a></p> <p><b>104.2.3 Alternative materials, design and methods of construction and equipment.</b> The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative <a href="#">is not specifically prohibited by this code and has been approved</a>.</p> <p><b>Exception:</b> Performance-based alternative materials, designs or methods of construction and <i>equipment</i> complying with the <i>International Code Council Performance Code</i>.</p> <p><b>104.2.3.1 Approval authority.</b> An alternative material, design or method of construction shall be <a href="#">approved</a> where the code official finds that the proposed alternative is satisfactory and complies with Sections 104.2.3 through 104.2.3.7, as applicable.</p> <p><b>104.2.3.2 Application and disposition.</b> Where required, a request to use an alternative material, design or method of construction shall be submitted</p>							

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				<p>in writing to the code official for approval. Where the alternative material, design or method of construction is not <i>approved</i>, the code official shall respond in writing, stating the reasons the alternative was not <i>approved</i>.</p> <p><b>104.2.3.3 Compliance with code intent.</b> An alternative material, design or method of construction shall comply with the intent of the provisions of this code.</p> <p><b>104.2.3.4 Equivalency criteria.</b> An alternative material, design or method of construction shall, for the purpose intended, be not less than the equivalent of that prescribed in this code with respect to all of the following, as applicable:</p> <ol style="list-style-type: none"> <li>1. Quality.</li> <li>2. Strength.</li> <li>3. Effectiveness.</li> <li>4. Durability.</li> <li>5. Safety, other than fire safety.</li> <li>6. Fire safety.</li> </ol> <p><b>[A] 104.2.3.5 Tests.</b> Tests conducted to demonstrate equivalency in support of an alternative material, design or method of construction application shall be of a scale that is sufficient to predict performance of the end use configuration. Tests shall be performed by a party acceptable to the code official.</p> <p><b>104.2.3.5.1 Fire tests.</b> Tests conducted to demonstrate equivalent fire safety in support of an alternative material, design or method of construction application shall be of a scale that is sufficient to predict fire safety performance of the end use configuration. Tests shall be performed by a party acceptable to the code official.</p> <p><b>104.2.3.6 Reports.</b> Supporting data, where necessary to assist in the approval of materials or assemblies not specifically provided for in this code, shall comply with Sections 104.2.3.6.1 and 104.2.3.6.2.</p> <p><b>104.2.3.6.1 Evaluation reports.</b> Evaluation reports shall be issued by an <i>approved</i> agency, and use of the evaluation report shall require approval by the code official for the installation. The alternate material, design or method of construction and product evaluated shall be within the scope of the code official's recognition of the <i>approved</i> agency. Criteria used for the evaluation shall be identified within the report and, where required, provided to the code official.</p> <p><b>104.2.3.6.2 Other reports.</b> Reports not complying with Section 104.2.3.6.1 shall describe criteria, including but not limited to any referenced testing or analysis, used to determine compliance with code intent and justify code equivalence. The report shall be prepared by a qualified engineer, specialist, laboratory or specialty organization acceptable to the code official. The code official is authorized to require design submittals to be prepared by, and bear the stamp of, a <i>registered design professional</i>.</p> <p><b>104.2.3.7 Peer review.</b> The code official is authorized to require submittal of a peer review report in conjunction with a request to use an alternative material, design or method of construction, prepared by a peer reviewer that is <i>approved</i> by the code official.</p> <p><b>104.2.4 Modifications.</b> Where there are practical difficulties involved in carrying out the provisions of this code, the code official shall have the authority to grant modifications for individual <i>cases</i>, provided that the code official shall first find that <i>one or more</i> special individual reasons make the strict letter of this code impractical, and <i>that</i> the modification is in compliance with the intent and purpose of this code and <i>that such modification</i> does not lessen health, <i>accessibility</i>, life and fire safety or <i>structural</i> requirements. The details of the <i>written request for and</i> action granting modifications shall be recorded and entered in the files of the department of building safety.</p> <p><b>104.2.4.1 Flood hazard areas.</b> The code official shall not grant modifications to any provision required in flood hazard areas, as established by Section 1612.3 of the <i>International Building Code</i>, unless a determination has been made that:</p> <ol style="list-style-type: none"> <li>1. A showing of good and sufficient cause that the unique characteristics of the size, configuration or topography of the site render the elevation standards of Section 1612 of the <i>International Building Code</i> inappropriate.</li> <li>2. A determination that failure to grant the variance would result in exceptional hardship by rendering the lot undevelopable.</li> <li>3. A determination that the granting of a variance will not result in increased flood heights, additional threats to public safety or extraordinary public expense; cause fraud on or victimization of the public; or conflict with existing laws or ordinances.</li> </ol>			

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				<p>4. A determination that the variance is the minimum necessary to afford relief, considering the flood hazard.</p> <p>5. Submission to the applicant of written notice specifying the difference between the design flood elevation and the elevation to which the <i>building</i> is to be built, stating that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced floor elevation, and stating that construction below the design flood elevation increases risks to life and property.</p> <p><b>104.3 Applications and permits.</b> The code official shall receive applications, review <i>construction documents</i>, issue permits, inspect the premises for which such permits have been issued and enforce compliance with the provisions of this code.</p> <p><b>104.3.1 Determination of substantially improved or substantially damaged existing buildings and structures in flood hazard areas.</b> For applications for reconstruction, rehabilitation, repair, <i>alteration</i>, addition or other improvement of existing <i>buildings</i> or structures located in flood hazard areas, the code official shall determine if the proposed work constitutes substantial improvement or repair of substantial damage. Where the code official determines that the proposed work constitutes substantial improvement or repair of substantial damage, and where required by this code, the code official shall require the <i>building</i> to meet the requirements of Section 1612 of the <i>International Building Code</i> or Section R322 of the <i>International Residential Code</i>, as applicable.</p> <p><b>104.4 Right of entry.</b> Where it is necessary to make an inspection to enforce the provisions of this code, or where the code official has reasonable cause to believe that there exists in a <i>structure</i> or on any premises a <i>condition that is contrary to or in violation</i> of this code that <i>makes</i> the <i>structure</i> or premises unsafe, dangerous or hazardous, the code official <i>is authorized</i> to enter the <i>structure</i> or premises at all reasonable times to inspect or to perform the duties imposed by this code. If such <i>structure</i> or premises is occupied, the code official shall present credentials to the occupant and request entry. If such <i>structure</i> or premises is unoccupied, the code official shall first make a reasonable effort to locate the owner, the owner’s authorized agent or other person having charge or control of the <i>structure</i> or premises and request entry. If entry is refused, the code official <i>shall have</i> recourse to every remedy provided by law to secure entry.</p> <p><b>104.4.1 Warrant.</b> Where the code official has first obtained a proper inspection warrant or other remedy provided by law to secure entry, an owner, the owner’s authorized agent, occupant or person having charge, care or control of the structure or premises shall not fail or neglect, after a proper request is made as herein provided, to permit entry therein by the code official for the purposes of inspection and examination pursuant to this code.</p> <p><b>104.5 Identification.</b> The code official shall carry proper identification when inspecting structures or premises in the performance of duties under this code.</p> <p><b>104.6 Notices and orders.</b> The code official shall issue all necessary notices or orders to ensure compliance with this code. <i>Notices of violations shall be in accordance with Section 114.</i></p> <p><b>104.7 Official records.</b> The code official shall keep official records <i>as required by Sections 104.7.1 through 104.7.5.</i> Such <i>official</i> records shall be retained for not less than 5 years or for as long as the <i>building</i> or structure to which such records relate remains in existence, unless otherwise provided by other regulations.</p> <p><b>104.7.1 Approvals.</b> A record of approvals shall be maintained by the code official and shall be available for public inspection during business hours in accordance with applicable laws.</p> <p><b>104.7.2 Inspections.</b> The code official shall have the authority to conduct inspections, or shall accept reports of inspection by approved agencies or individuals. Reports of such inspections shall be in writing and be certified by a responsible officer of such approved agency or by the responsible individual. The code official shall keep a record of each inspection made, including notices and orders issued, showing the findings and disposition of each.</p> <p><b>104.7.3 Code alternatives and modifications.</b> Application for alternative materials, design and methods of construction and <i>equipment</i> in accordance with Section 104.2.3; modifications in accordance with Section 104.2.4; and documentation of the final decision of the code official for either shall be in writing and shall be retained in the official records.</p> <p><b>104.7.4 Tests.</b> The code official shall keep a record of tests conducted to comply with Sections 104.2.2.4 and 104.2.3.5.</p> <p><b>104.7.5 Fees.</b> The code official shall keep a record of fees collected and refunded in accordance with Section 108.</p> <p><b>104.8 Liability.</b> The code official, member of the board of appeals or employee charged with the enforcement of this code, while acting for the jurisdiction in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered <i>personally liable</i>, either civilly or criminally, and is hereby relieved from personal liability for any damage accruing to persons or property as a result of an act or by reason of <i>any</i> act or omission in the discharge of official duties.</p> <p><b>104.8.1 Legal defense.</b> Any suit or criminal complaint instituted against any officer or employee because of an act performed by that officer or employee in the lawful discharge of duties and under the provisions of this code <i>or other laws or ordinances implemented through the enforcement of this code</i> shall be defended</p>			

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	<p>by the legal representatives of the jurisdiction until the final termination of the proceedings. The code official or any subordinate shall not be liable for costs in an action, suit or proceeding that is instituted in pursuance of the provisions of this code.</p> <p><b>104.9 Approved materials and equipment.</b> Materials, <i>equipment</i> and devices <i>approved</i> by the code official shall be constructed and installed in accordance with such approval.</p> <p><b>104.9.1 Material and equipment reuse.</b> Materials, <i>equipment</i> and devices shall not be reused unless such elements are in <i>good working condition</i> and <i>approved</i>.</p>						
	Qualifications (Means of appeal)	113.3	112.3	Specifies that the training and experience must be on matters pertaining to the provisions of this code	Adopt changes	Accept changes	
	<b>112.3 Qualifications.</b> The board of appeals shall consist of members who are qualified by experience and training on matters pertaining to the provisions of this code and are not employees of the jurisdiction						
	Board of Appeals	114	NA	Removed section and renumbered subsequent sections; contents moved to an appendix	Adopt changes	Accept changes	
	<b>114.1 Membership of board.</b> The board of appeals shall consist of five members appointed by the chief appointing authority as follows: one for 5 years; one or 4 years; one for 3 years; one for 2 years and one for 1 year. Thereafter, each new member shall serve for 5 years or until a successor has been appointed.						
<b>Chapter 2 Definitions</b>							
	Def: Approved Agency			Swaps "agency" with "organization" and adds "furnishing evaluation or certification"	Adopt changes	Accept changes	
	<b>[A] APPROVED AGENCY.</b> An established and recognized organization that is regularly engaged in conducting tests, furnishing inspection services or furnishing product evaluation or certification where such organization has been approved by the code official.						
	Def: Listed	202	202	Clarifies that other words may be used in lieu of "Listed"	Adopt changes	Accept changes	
	<b>[A] LISTED.</b> <i>Equipment</i> , materials, products or services included in a list published by an organization acceptable to the code official and concerned with evaluation of products or services that maintains periodic inspection of production of <i>listed equipment</i> or materials or periodic evaluation of services and whose listing states either that the <i>equipment</i> , material, product or service meets identified standards or has been tested and found suitable for a specified purpose. Terms that are used to identify <i>listed equipment</i> , products or materials include "listed," "certified," "classified" or other terms as determined appropriate by the listing organization.						
	Def: Peer Review		202	Added to address a method of review utilized by many jurisdictions (see 104.2.3.7)	Adopt changes	Accept changes	
	<b>[A] PEER REVIEW.</b> An independent and objective technical review conducted by an approved third party.						
<b>Chapter 3 General Regulations</b>							

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Yes	Equipment and appliances on roofs or elevated structures	306.5	306.5	Correlates with updated OSHA standard	Adopt change	Accept changes	
<p><b>306.5 Equipment or appliances on roofs or elevated structures.</b> Where <i>equipment</i> requiring access or <i>appliances</i> are located on an elevated structure or the roof of a <i>building</i> such that personnel will have to climb higher than 16 feet (4877 mm) above grade to access such <i>equipment</i> or <i>appliances</i>, an interior or exterior means of access shall be provided. Such access shall not require climbing over obstructions greater than 30 inches (762 mm) in height or walking on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope). Such access shall not require the use of portable ladders. Where access involves climbing over parapet walls, the height shall be measured to the top of the parapet wall.</p> <p>Permanent ladders installed to provide the required access shall comply with the following minimum design criteria:</p> <ol style="list-style-type: none"> <li>1. The side railing shall extend above the parapet or roof edge <del>or landing platform</del> not less than <del>30</del> <b>42 inches (1067 mm)</b>.</li> <li>2. Ladders shall have rung spacing <del>not to exceed 14 inches</del> <b>not less than 10 inches (254 mm) and not to exceed 14 inches (356 mm)</b> on center. The uppermost rung shall be not greater than 24 inches (610 mm) below the upper edge of the roof hatch, roof or parapet, as applicable.</li> <li>3. Ladders shall have a toe spacing not less than <del>6</del> <b>7 inches (178 mm) and not more than 12 inches (305 mm)</b> deep.</li> <li>4. There shall be not less than <del>18</del> <b>16 inches (406 mm)</b> between rails.</li> <li>5. Rungs shall have a diameter not less than 0.75-inch (19.1 mm) and be capable of withstanding a 300-pound (136 kg) load.</li> <li>6. Ladders over 30 feet (9144 mm) in height shall be provided with offset sections and landings capable of withstanding 100 pounds per square foot (488 kg/m<sup>2</sup>). Landing dimensions shall be not less than 18 inches (457 mm) and not less than the width of the ladder served. A guard rail shall be provided on all open sides of the landing.</li> <li>7. Climbing clearance. The distance from the centerline of the rungs to the nearest permanent object on the climbing side of the ladder shall be not less than 30 inches (762 mm) measured perpendicular to the rungs. This distance shall be maintained from the point of ladder access to the bottom of the roof hatch. A minimum clear width of 15 inches (381 mm) shall be provided on both sides of the ladder measured from the midpoint of and parallel with the rungs except where cages or wells are installed.</li> <li>8. Landing required. The ladder shall be provided with a clear and unobstructed bottom landing area having a minimum dimension of 30 inches (762 mm) by 30 inches (762 mm) centered in front of the ladder.</li> <li>9. Ladders shall be protected against corrosion by <i>approved</i> means.</li> <li>10. Access to ladders shall be provided at all times.</li> <li>11. <b>Top landing required. The ladder shall be provided with a clear and unobstructed landing on the exit side of the roof hatch, having a minimum space of 30 inches (762 mm) deep and being the same width as the hatch.</b></li> </ol> <p>Catwalks installed to provide the required access shall be not less than 24 inches (610 mm) wide and shall have railings as required for service platforms.</p> <p><b>Exception:</b> This section shall not apply to Group R-3 <i>occupancies</i>.</p>							
<b>Chapter 4 Ventilation</b>							
Yes	Design and installation (piping support)	407.2	407.2	"Metal" was removed from the specifications with the rationale that there is no reason for the restriction	Adopt change	Accept changes	
<p><b>407.2 Design and installation.</b> <i>Piping</i> shall be supported with <del>metal</del> pipe hooks, <del>metal</del> pipe straps, <del>metal</del> bands, <del>metal</del> brackets, <del>metal</del> hangers or building structural components, suitable for the size of <i>piping</i>, of adequate strength and quality, and located at intervals so as to prevent or damp out excessive vibration. <i>Piping</i> shall be anchored to prevent undue strains on connected <i>appliances</i> and shall not be supported by other <i>piping</i>. Pipe hangers and supports shall conform to the requirements of MSS SP-58 and shall be spaced in accordance with Section 415. Supports, hangers and anchors shall be installed so as not to interfere with the free</p>							

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	expansion and contraction of the <i>pipng</i> between anchors. The components of the supporting <i>equipment</i> shall be designed and installed so that they will not be disengaged by movement of the supported <i>pipng</i> .						
<b>Chapter 8 Referenced Standards</b>							
	The following standards were <b>updated</b> :						
				<b>ANSI</b> Z21.1, Z21.8Z21.10.1, Z21.10.3, Z21.11.2, Z21.15, Z21.19, , Z21.24, Z21.41,Z21.42, Z21.47, Z21.50, Z21.56, Z21.58, Z21.69, Z21.75,Z21.80, Z21.88, Z21.90, Z21.91, Z83.11, Z83.20, FC 1, LC 1, LC 4, NGV 5.1, NGV 5.2, ; <b>ASME</b> B1.20.1, B16.5, B16.21, B16.24, B16.33, B16.44, B16.47, B31.3, B31.12, B36.10M, BPVC, CSD-1; <b>ASSP</b> Z359.1; <b>ASTM</b> A53/53M, A106/106M, A254/254M, A268/268M, A269/269M, A312/312M, B88, B210.210M, B241/241M, B280, C64, C315, D2513, E136 <b>CGA</b> S-1.1, S-1.2, S-1.3; <b>CSA</b> C22.2 No. 62282-3-100,NGV 5.1 <b>ICC</b> IBC, IECC, IFC, IMC, IRC; <b>MSS</b> SP-58; <b>SMACNA</b> 006; <b>UL</b> 103, 127, 441, 651, 705, 795, 959, 1738, 1777, 2158A, 2200	Accept all changes	Accept changes	
	The following standards are <b>new</b> :						
				<b>AISI</b> S220, S240	Accept added standards	Accept changes	