The Kentucky Residential Code (KRC) is essentially the 2015 International Residential Code for One and Two Family Dwellings published by the International Code Council, Inc., with the specific Kentucky amendments. It provides minimum standards to ensure the public safety, health and welfare insofar as they are affected by building construction, and to secure safety to life and property from all hazards incident to the occupancy of buildings, structures, or premises. This edition presents the code with changes approved by the Kentucky Department of Housing, Buildings and Construction through April 2018.

The Kentucky Residential Code is a “mini/maxi” code, in that it establishes minimum and maximum building code requirements for detached single-family dwellings, two-family dwellings and townhouses and local governments shall not adopt or enforce any other building code on these units.

The Kentucky Residential Code may be amended from time to time by the Department of Housing, Buildings and Construction through the regulatory process by considering proposals from code enforcement officials, industry and design professionals, and other interested persons and organizations. Amendments are discussed during open meetings of the Housing, Buildings and Construction Advisory Committee. Approved amendments by the Department and the Legislative Review Commission are printed in the Kentucky Administrative Register and posted on the Department’s website (dhbc.ky.gov).
SAMPLE ORDINANCE FOR ADOPTION OF THE

INTERNATIONAL

RESIDENTIAL CODE FOR

SINGLE FAMILY DWELLINGS

ORDINANCE NO. ______

An ordinance of _______ adopting the 2018 edition of the Kentucky Residential Code, regulating and controlling the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of one- and two-family dwellings and townhouses in the ______; providing for the issuance of permits and collection of fees therefore when used with money; repealing Ordinance No. of the _______ and all other ordinances and parts of the ordinances in conflict therewith.

The _______ of the _______ does ordain as follows:

Section 1. That certain documents, three (3) copies of which are on file in the office of the _______ CUSTODIAN of RECORDS ______ and the _______, being marked and designated as Kentucky Residential Code, is hereby adopted as the code of the _______ for regulating the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of one- and two-family dwellings and townhouses not more than three stories in height in the_and providing for the issuance of permits and collection of fees therefore; and each and all of the regulations, provisions, conditions and terms of such Kentucky Residential Code, 2018 edition, on file in the office of the _______ ______ are hereby referred to, adopted and made a part hereof as if fully set out in this ordinance.

Section 2. The following sections are hereby revised:

Section R101.1 Insert: [NAME OF JURISDICTION]
Table R301.2(l) Insert: [APPROPRIATE DESIGN CRITERIA]

Section 3. That Ordinance No.____ of _____________ entitled (fill in here the complete title of the present ordinance or ordinances in effect at the present time so that they will be repealed by definite mention) and all other ordinances or parts of ordinances in conflict herewith are hereby repealed.

Section 4. That if any section, subsection, sentence, clause or phrase of this ordinance is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this ordinance. The - hereby declares that it would have passed this ordinance, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional.

Section 5. That the [JURISDICTION'S CUSTODIAN OF RECORDS] is hereby ordered and directed to cause this ordinance to be published. (An additional provision may be required to direct the number of times the ordinance is to be published and to specify that it is to be in a newspaper in general circulation. Posting may also be required.)

Section 6. That this ordinance and the rules, regulations, provisions, requirements, orders and matters established and adopted hereby shall take effect and be in full force and effect ________________ from and after the date of its final passage and adoption.
TABLE OF CONTENTS

CHAPTER 1
SCOPE AND ADMINISTRATION .................................... 1
Section
R101 General .......................................................... 1
R102 Applicability ..................................................... 1
R103 Building Inspection Program ................................. 2
R104 Duties and Powers of Building Official .................... 2
R105 Permits ............................................................. 2
R106 Construction Documents ...................................... 3
R107 Temporary Structures and Uses ............................... 3
R108 Fees .................................................................. 4
R109 Inspections .......................................................... 4
R110 Certificate of Occupancy ....................................... 4
R111 Service Utilities ................................................... 4
R112 Appeals .............................................................. 5
R113 Violations ............................................................ 6
R114 Stop Work Order .................................................. 6
R115 Proof of Insurance ............................................... 6
R116 Effective Dates ..................................................... 6

CHAPTER 2
DEFINITIONS ............................................................. 7
Section
R202 Definitions .......................................................... 7

CHAPTER 3
BUILDING PLANNING .................................................. 9
Section
R301 Design Criteria ..................................................... 9
R302 Fire-Resistant Construction .................................... 13
R310 Emergency Escape and Rescue Openings ............... 15
R311 Means of Egress .................................................... 15
R312 Guards and Window Fall Protection ....................... 16
R313 Automatic Fire Sprinkler Systems ......................... 17
R326 Swimming Pools, Spas, and Hot Tubs ................. 17
R327 Post and Frame Structures ................................... 18
R328 Tiny Houses ........................................................ 23

CHAPTER 4
FOUNDATIONS ........................................................... 25
Section
R401 General ............................................................. 25
R403 Footings .............................................................. 25
R404 Foundations and Retaining Walls ......................... 28

CHAPTER 5
FLOORS .................................................................. 31
Section
R502 Wood Floor Framing ........................................... 31
R507 Exterior Decks ..................................................... 31

CHAPTER 6
WALL CONSTRUCTION ................................................. 32
Section
R602 Wood Wall Framing ............................................. 32

CHAPTER 7
WALL COVERING ...................................................... 33
Section
R703 Exterior Covering ................................................ 33

CHAPTER 9
ROOF ASSEMBLIES ....................................................... 35
Section
R905 Requirements for Roof Coverings ....................... 35

CHAPTER 11
ENERGY EFFICIENCY
Section
N1101 General ........................................................... 36

CHAPTER 13
GENERAL MECHANICAL SYSTEMS
REQUIREMENTS
Section
M1301 General ........................................................... 38
M1305 Appliance Access .............................................. 38

CHAPTER 14
HEATING AND COOLING EQUIPMENT AND
APPLIANCES ........................................................... 39
Section
M1403 Heat Pump Equipment ...................................... 39
M1411 Heating and Cooling Equipment ....................... 39
M1416 Mini-Split Heat Pumps ...................................... 39

CHAPTER 15
EXHAUST SYSTEMS ..................................................... 40
Section
M1502 Clothes Dryer Exhaust ...................................... 40
M1503 Range Hoods ..................................................... 40

CHAPTER 16
DUCT SYSTEMS .......................................................... 41
Section
M1601 Duct Construction ............................................. 41

CHAPTER 17
COMBUSTION AIR ......................................................... 42
CHAPTER 1
ADMINISTRATION

SECTION R101
GENERAL

R101.1 Title. These provisions shall be known as the Kentucky Residential Code for One- and Two-family Dwellings and shall be cited as such and will be referred to herein as "this code."

R101.2 Scope. The provisions of the Kentucky Residential Code for One- and Two-family Dwellings shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal, and demolition of detached one- and two-family dwellings and townhouses not more than three stories above grade in height or with separate means of egress and their accessory structures.

Exceptions:
1. Live/work units complying with the requirements of Section 419 of the Kentucky Building Code shall be permitted to be built as one- and two-family dwellings or townhouses. Fire suppression required by Section 419.5 of the Kentucky Building Code when constructed under the International Residential Code for One- and Two-family Dwellings shall conform to Section P2904.
2. Owner-occupied lodging houses with five or fewer guestrooms shall be permitted to be constructed in accordance with the Kentucky Residential Code for One-and Two-family Dwellings when equipped with a fire sprinkler system in accordance with Section P2904.
3. Farm dwellings and other buildings and structures located on farms which are incident to the operation of the farm and located outside the boundary of a municipality; but only if they are not used in the business of retail trade, as a regular place of work for 10 or more people, or for the processing or storage of timber products.
4. Manufactured homes constructed under federal HUD standards. However, the exterior electric, water, and sewer connections and additions to the home are not exempt.
5. Swimming pools constructed completely above grade.

R101.3 Intent. The purpose of this code is to establish minimum and maximum requirements to safeguard the public safety, health, and general welfare through affordability, structural strength, means of egress facilities, stability, sanitation, light and ventilation, energy conservation, and safety to life and property from fire and other hazards attributed to the built environment and to provide safety to fire fighters and emergency responders during emergency operations. Local governments shall not adopt or enforce any other building code for detached single family dwellings, two-family dwellings and townhouses.

R101.4 Other residential buildings. Multiple single-family dwellings (townhouses) over three stories above grade in height or without separate entrances shall comply with the Kentucky Building Code (KBC).

R101.5 Accepted practices. In the absence of provisions not specifically contained in this code or final decisions of the appeals board, the specification and standards listed in Chapter 44 shall be deemed to represent accepted engineering practice with respect to materials, equipment, systems, or method of construction as specified and shall be acceptable.

R101.6 Licensed HVAC contractors. All work involving HVAC shall comply with KRS Chapter 198B and 815 KAR Chapter 8. The building official shall require proof of licensure when making inspections.

R101.7 Plumbing contractors and inspections. All plumbing installations shall be performed in compliance with KRS Chapter 318 and 815 KAR Chapter 20. The building official shall require proof of licensure when making inspections.

R101.8 Electrical contractors and inspections. All electrical installations shall be performed in compliance with KRS 227.450 through 227.530, KRS Chapter 227A, and 815 KAR Chapter 35. The building official shall require proof of licensure when making inspections.

SECTION R102
APPLICABILITY

R102.2 Other laws. The provisions of this code shall not be deemed to nullify any provisions of local, state, or federal law. Other local, state, or federal law shall be consulted to determine the existence of other powers given to the building official, such as those related to demolition or authority over unsafe structures; however, a local ordinance shall not establish any additional or contradictory building construction standard than those adopted in this code.

R102.5 Appendices. Provisions in the appendices of the 2016 Kentucky Residential Code shall not apply unless specifically referenced in the adopting ordinance.

R102.5.1 Appendix K, Sound transmission. The provisions found in Appendix K shall apply to wall and floor-ceiling assemblies separating dwelling units including those separating townhouses.

R102.5.2 Appendix R, Light Straw-Clay Construction. The provisions found in Appendix R shall apply to light
straw clay construction as a nonbearing building material and wall infill systems.

R102.5.3 Appendix S, Strawbale Construction. The provisions found in Appendix S provides prescriptive and performance-based requirements for the use of baled straw as a building material.

R102.7 Existing structures. The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, the locally adopted property maintenance code, or as is deemed necessary by the building official for the general safety and welfare of the occupants and the public.

R102.8 Plumbing. The provisions of the Kentucky State Plumbing Code shall apply to the installation, alteration, repair, and replacement of plumbing systems, including equipment, appliances, fixtures, fittings, and appurtenances.

R102.9. Electrical. The electrical system shall be installed in compliance with NFPA 70 as adopted by the Commonwealth of Kentucky.

SECTION R103
BUILDING INSPECTION PROGRAM

R103.2.1 Certified inspectors. The local government shall provide at least one Kentucky Certified Building Inspector, Level I, certified pursuant to 815 KAR 7:070, and at least one certified electrical inspector, certified according to 815 KAR 35:015. The local government shall report the name of all inspectors to the Department and shall notify the Department of any changes in inspection personnel. To enforce the residential code only, the local government shall provide at least one inspector that has achieved 1 & 2 Family Dwelling Certification.

R103.3 Deputies. In accordance with the prescribed procedures of this jurisdiction and with the concurrence of the appointing authority, the building official shall have the authority to appoint a deputy building official, the related technical officers, inspectors, plan examiners, and other employees. Such employees shall have powers as delegated by the building official. These appointments shall meet the requirements of 815 KAR 7:070 for certification associated with their job duties.

SECTION R104
DUTIES AND POWERS OF THE BUILDING OFFICIAL

R104.7 Department records. The building official shall keep official records of applications received, permits and certificates issued, fees collected, reports of inspections, and notices and orders issued. Such records shall be retained in the official records for the period required for the retention of public records as promulgated by the Kentucky Department of Libraries and Archives pursuant to KRS 171.450.

R104.10.1 Flood hazard areas. The building official shall not grant modifications to any provision related to flood hazard areas as established by local jurisdiction without the granting of a variance to such provisions by the board of appeals.

SECTION R105
PERMITS

R105.2 Work exempt from permit. Exemption from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

Building:
1. One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 200 square feet (18.58 m²).
2. Fences not over 7 feet (1829 mm) high.
3. Retaining walls that are not over 4 feet (1219 mm) in height measured from grade at the bottom of the wall to the top of the wall.
4. Water tanks supported directly upon grade if the capacity does not exceed 5000 gallons (18927L) and the ratio of height to diameter or width does not exceed 2 to 1.
5. Sidewalks and driveways.
6. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
7. Swings and other playground equipment.
8. Window awnings supported by an exterior wall which do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.
9. Decks not exceeding 200 square feet (18.58 m²) in area, that are not more than 30 inches (762 mm) above grade at any point, are not attached to a dwelling and do not serve the exit door required by Section R311.4.

Electrical:
1. Listed cord-and-plug connected temporary decorative lighting.
2. Reinstallation of attachment plug receptacles but not the outlets therefor.
3. Replacement of branch circuit overcurrent devices of the required capacity in the same location.
4. Electrical wiring, devices, appliances, apparatus or equipment operations at less than 25 volts and not capable of supplying more than 50 watts of energy.
5. Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.
6. The provisions of this code shall not apply to electrical equipment used for radio and television transmissions.
7. The installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

**Gas:**
1. Portable heating appliances.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
3. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

**Mechanical:**
1. Portable heating appliances.
2. Portable ventilation equipment.
3. Portable cooling units.
4. Steam, hot, or chilled water piping within any heating or cooling equipment regulated by this code.
5. Replacement of any part which does not alter its approval or make it unsafe.
6. Portable evaporative cooler;
7. Self-contained refrigeration system containing 10 pounds (4.54 kg) or less of refrigerant and actuated by motors of 1 horsepower (746 W) or less.
8. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

**Plumbing**
1. The stopping of leaks in drains, water, soil, waste, or vent pipe; provided, however, that if any concealed trap, drainpipe, water, soil, waste, or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves, or fixtures, and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes, or fixtures.

**R105.3 Application for permit.** To obtain a permit, the applicant shall first file an application in writing on a form prepared by a licensed design professional.

**R106 Construction documents.**

**R106.1 Submittal documents.** Submittal documents consisting of construction documents and other data shall be submitted in two or more sets with each application for a permit. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a licensed design professional.

**Exception:** The building official is authorized to waive the submission of construction documents and other data not required to be prepared by a licensed design professional if it is found that the nature of the work applied for is such that reviewing of construction documents is not necessary to obtain compliance with this code.

**R106.1.3 Information on construction in flood hazard areas.** For buildings and structures located in whole or in part in flood hazard areas as established by local jurisdiction or floodplain manager, floor construction documents shall include:
1. Delineation of flood hazard areas, floodway boundaries, and flood zones and the design flood elevation, as appropriate;
2. The elevation of the proposed lowest floor, including basement, in areas of shallow flooding (AO zones), the height of the proposed lowest floor, including basement, above the highest adjacent grade;
3. The elevation of the bottom of the lowest horizontal structural member in coastal high hazard areas (V zone); and
4. If design flood elevations are not included on the community’s Flood Insurance Rate Map (FIRM), the building official and the applicant shall obtain and reasonably utilize any design flood elevation and floodway data available from other sources.

**R106.2 Site plan or plot plan.** The construction documents submitted with the application for permit shall be accompanied by a site plan showing the size and location of new construction and existing structures on the site and distances from lot lines, the established street grades and the proposed finished grades, and it shall be drawn in accordance with an accurate boundary line survey. In the case of demolition, the site plan shall show construction to be demolished and the location and size of existing structures and construction that are to remain on the site or plot. The building official is authorized to waive or modify the requirement for a site plan when the application for permit is for alteration or repair or when otherwise warranted.

**R106.5 Retention of construction documents.** The building official, as required by the Kentucky Department of Libraries and Archives administrative regulations, shall retain approved construction documents.
SECTION R107
TEMPORARY STRUCTURES AND USES

R107.3 Temporary power. The building official and the applicable licensed and certified inspector listed in Section 101.8 are authorized to give permission to temporarily supply and use power in part of an electric installation before such installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat, or power in NFPA 70.

SECTION
R108 FEES

R108.6 Work commencing before permit issuance. Any person who commences any work on a building, structure, electrical, gas, mechanical, or plumbing system before obtaining the necessary permits may be subject to penalties established in KRS Chapters 198B, 227, 227A, 234, 236 and 318. The fee shall be in addition to and equal to the amount of the original fee.

R108.7 Accounting. The building official shall keep an accurate account of all fees collected, and such collected fees shall be deposited monthly in the jurisdiction treasury, or otherwise disposed of as required by law.

SECTION
R109 INSPECTIONS

R109.1 Types of inspections. For onsite construction, from time to time the building official, upon notification from the permit holder or his agent, shall make or cause to be made any necessary inspections and shall either approve that portion of the construction as completed or shall notify the permit holder or his or her agent wherein the same fails to comply with this code. Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Inspections presuming to give authority to violate or cancel the provisions of this code or of other ordinances of the jurisdiction shall not be valid. It shall be the duty of the permit applicant to cause the work to remain accessible and exposed for inspection purposes. Neither the building official nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material required to allow inspection.

R109.1.3 Floodplain inspections. For construction in areas prone to flooding as established by local jurisdiction, upon placement of the lowest floor, including basement, and prior to further vertical construction, the building official shall require submission of documentation, prepared and sealed by a registered design professional, of the elevation of the lowest floor, including basement, required in Section R322.

R109.1.6 Final inspections. Upon completion of

SECTION R110
CERTIFICATE OF OCCUPANCY

R109.1.7 Industrialized building system inspections. The inspection of all buildings classified as industrialized building systems, regardless of size or occupancy classification, shall be in accordance with this section.

R109.1.7.1 Off-site construction. In-plant inspections in production and manufacturing facilities for industrialized building systems shall be conducted by the Department or its authorized agent.

R109.1.7.2 On-site construction. On-site construction related to modular homes or one- and two-family dwelling installations may be permitted and inspected by the local building official having jurisdiction upon notice from the Department of an approved modular home. The local code official having jurisdiction shall be responsible for inspection of the foundation system, placement of the building, connection of the units, final set-up of the units and issuance of the certificate of occupancy. The local building official shall be responsible for inspection of these systems for zoning, water supply and sewage disposal, and other applicable local ordinance purposes.

SECTION R111
SERVICE UTILITIES

R111.1 Connection of service utilities. No person shall make connections from a utility, source of energy, fuel, or power to any building or system that is regulated by this code for which a permit is required, until approved by the building official or the applicable licensed and certified inspector listed in sections R101.6, R101.7 and R101.8.

R111.2 Temporary connection. The building official and the applicable licensed and certified inspector listed in section R101.6, R101.7, and R101.8 shall have the authority to authorize and approve the temporary connection of the
building or system to the utility, source of energy, fuel, or power.

R112.3 Authority to disconnect service utilities. The building official and the applicable licensed and certified inspector listed in section R101.6, R101.7, and R101.8 shall have the authority to authorize disconnection of utility service to the building, structure, or system regulated by this code and the referenced codes and standards set forth in Section R102.4 in case of emergency where necessary to eliminate an immediate hazard to life or property, or when such utility connection has been made without the approval required by Section R111.1 or R111.2. The building official shall notify the serving utility and, whenever possible, the owner and occupant of the building, structure, or service system of the decision to disconnect prior to taking such action if not notified prior to disconnection. The owner or occupant of the building, structure, or service system shall be notified in writing as soon as practical thereafter.

SECTION R112 APPEALS

R112.1 General. All appeals from the decisions of building officials shall be conducted in accordance with the appeals provisions of KRS 198B.070. Where a local appeals board exists, a party must first appeal to the local appeals board when aggrieved by a decision of the local building official. The Department shall hear appeals directly from a party aggrieved by the decision of an agent of the Department.

R112.2 Appeal by fire code official. Decisions rendered by the building official with respect to enforcement of the Kentucky Building Code on any building may be appealed by the local fire code official of the jurisdiction if the fire code official is aggrieved by that decision.

R112.3 Local appeals board. Local appeals boards may be appointed to hear appeals from the decisions of the local building official in accordance with the provisions of Sections 112.3.1 through 112.3.4.

R112.3.1 Appointment. The mayor or county judge executive of a local government which is enforcing the Kentucky Building Code may, upon approval of the local legislative body, appoint a local appeals board, consisting of at least five technically qualified persons with professional experience related to the building industry, three of which shall not be employees of the local government, to hear appeals from the decisions of the local code official regarding building code requirements.

R112.3.2 Cooperative agreements. Local governments which are enforcing the Kentucky Building Code may cooperate with each other and provide a local appeals board and shall adhere to the provisions of KRS Chapter 65 when entering into a cooperative agreement.

R112.3.3 Disqualification of member. Local building officials or employees of a local inspection department shall not sit on a local appeals board if the board is hearing an appeal to a decision rendered by the local department. A member of a local appeals board shall not hear an appeal in a case in which the member has a financial interest.

R112.3.4 Right to appeal. Any party to a decision by the local building official may appeal that decision to the local appeals board. Upon receipt of an appeal from a qualified party, the local appeals board shall convene a hearing to consider the appeal within 15 days of receipt.

R112.3.5 Notice of meeting. All parties to the appeal shall be notified of the time and place of the hearing by letter sent by certified mail not later than 20 days prior to the date of the hearing.

R112.3.6 Board decision. The local appeals board shall render a decision within five working days after the hearing. The board may uphold, amend, or reverse the decision of the local building official, and there shall be no appeal from the decision of the local appeals board other than by appeal to the Department.

R112.3.7 Open hearing. All hearings before the local appeals board shall be open to the public. The appellant, the appellant’s representative, the building official, and all persons whose interests are affected shall be given an opportunity to be heard.

R112.3.7.1 Procedure. The local appeals board shall adopt and make available to the public through the secretary procedures under which a hearing will be conducted. The procedures shall not require compliance with strict rules of evidence but shall mandate that only relevant information be received.

R112.3.8 Board decision. A majority of the local appeals board members’ votes shall be required to modify or reverse the decision of the building official.

R112.4 Appeals to the State. Application for appeal by a property owner may be made when it is claimed in writing that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction can be used, or that the building official has refused to grant a modification to the provisions of this code covering the manner of construction or material to be used in the erection, alteration, or repair of a building or structure.

R112.4.1 Application procedure. Appeals to the Department shall be in writing and shall be addressed to the Commissioner of the Department of Housing, Buildings and Construction, 101 Sea Hero Road, Suite 100, Frankfort, Kentucky 40601-5412; Attention: Appeals. The appeal shall include citations of those provisions of the Kentucky Building Code or Kentucky Residential Code that are at issue, an explanation of why the
decision of the state building official or local building official relative to those provisions is being contested, and a copy of the decision rendered by the local appeals board, if any.

**R112.4.2 Investigation of appeal.** The Commissioner shall immediately notify the Department or the five-member committee authorized by the Commissioner when an appeal is received. The Commissioner or a designated employee of the Department shall then investigate the evidence pertaining to the appeal and, based on the results of the investigation, make written recommendations to the Department or committee on the disposition of the case in question, within 30 days.

**R112.4.3 Employee deferral.** Employees of the Department shall not investigate or make recommendations on an appeal to his or her decision, but shall defer in this case to employees who are not party to the decision which led to the appeal.

**R112.4.4 Investigative authority.** In conducting an investigation, the Commissioner or the designated representatives, acting for the Department, shall have the authority to administer oaths and affirmations, issue subpoenas authorized by law, rule upon offers of proof and receive relevant evidence, take or cause depositions to be taken, regulate the course of any hearings they may schedule, and hold conferences for the settlement or simplification of the issue by consent of the parties.

**R112.4.5 Administrative hearing.** Pursuant to KRS Chapter 13B, if the issue has not been settled by agreement of the parties within limitations set by Section 112.4.2, the Department shall schedule an administrative hearing on the matter. The cost of any appeal forwarded to the Department because there is no local appeals board shall be borne by the local government. The Department shall calculate the actual cost of processing the appeal and bill the local government at the conclusion of all proceedings.

**112.4.6 Judicial appeals.** Final orders of the Department are appealable to the Circuit Court in the county in which the property is located.

**SECTION R113 VIOLATIONS**

**R113.4 Violation penalties.** Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters, or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties provided by KRS 198B.990 and other applicable law.

**SECTION R114 STOP WORK ORDER**

**R114.4 Limitation on changes.** No inspector shall be authorized to require changes on-site that are contrary to the approved construction documents. If an inspector finds a code discrepancy in an on-site inspection, the inspector shall refer the matter to the official having construction document review responsibility who shall require corrections if the code so requires.

**SECTION R115 PROOF OF INSURANCE**

**R115.1 Compliance with law.** The issuance of a building permit shall be contingent upon presentation of proof to the effect that all contractors and subcontractors employed or that will be employed in the construction, alteration, or repair under the permit are in compliance with the Kentucky law relating to worker’s compensation and unemployment insurance.

**R115.2 General applicability.** Compliance with this section shall be achieved by presenting certificates or other forms approved by the Kentucky Labor Cabinet to the code official issuing the permit.

**SECTION R116 EFFECTIVE DATES**

**R116.1 General.** The building official shall accept plans in compliance with the requirements of this code. Effective August 1, 2019, this code shall be mandatory and no permit shall be issued for construction under any other building code.
SECTION R202
DEFINITIONS

R202 DEFINITIONS. Section R202 Definitions of Habitable Space and Historical Building of the 2015 IRC shall be DELETED in their entirety.

BUILDING. Any combination of materials, whether portable or fixed, which comprises a structure or non-mine underground area affording facilities or shelter for any human occupancy, whether infrequent or regular, and also means single-family dwellings, including those sold or constructed under a trade or brand name. The word "building" shall be construed wherever used herein as if followed by the words "or part or parts thereof and all equipment therein" unless the context clearly requires a different meaning. "Building" shall also mean swimming pools constructed below grade on site, but not swimming pools assembled above grade on site. "Building" shall not mean a manufactured home governed by the National Manufactured Housing Construction and Safety Standards Act of 1974, 42 U.S.C. secs. 5401 et seq., or a farm dwelling or other farm buildings and structures incident to the operation and maintenance of the farm if the farm structures are located outside the boundary of a municipality and are not used in the business of retail trade or used as a place of regular employment for ten (10) or more people or structures used in the storage or processing of timber products.

BARRIER. A fence, a wall, a building wall, or combination thereof, which completely surrounds the swimming pool and obstructs access to the swimming pool.

COLLAR BEAM/TIE. A horizontal framing member connecting opposing rafter elements for stability.

COMMISSIONER. The Commissioner of the Department of Housing, Buildings and Construction.

DEPARTMENT. The Department of Housing, Buildings and Construction.

EGRESS ROOF ACCESS WINDOW. A skylight or roof window designed and installed to satisfy the emergency escape and rescue opening requirements in Section R310.2.

FARM. Property having a bona fide agricultural or horticultural use as defined by KRS 132.010(9) and (10) which is qualified by and registered with the property valuation administrator in the county in which the property is located.

HOT TUB. See definition of private swimming pool.

INDUSTRIALIZED BUILDING SYSTEM or BUILDING SYSTEM. Any structure or component thereof which is wholly or in substantial part fabricated in an off-site manufacturing facility for installation or assembly on a permanent foundation at the building site.

IN-GROUND POOL. See definition of private swimming pool.

KAR. Kentucky Administrative Regulation.

KNEE WALL. Any short wall used as a part of the support for a roof structure.

KRS. Kentucky Revised Statutes.

LANDING PLATFORM. A landing measuring two treads deep and two risers tall, provided as the top step of a stairway accessing a loft.

LOFT. Any floor level located above the main floor and open to it on at least one side, with a ceiling height less than 6 feet 8 inches (2032 mm), complying with the area, access, and guard requirements of Section AV104, and used as a living or sleeping space.

MANUFACTURED HOME. A single-family residential dwelling constructed in accordance with the federal act, manufactured after June 15, 1976, and designed to be used as a single-family residential dwelling with or without a permanent foundation when connected to the required utilities, and includes the plumbing, heating, air conditioning, and electrical systems contained therein. The manufactured home may also be used as a place of business, profession, or trade by the owner, the lessee, or the assigns of the owner or lessee and may comprise an integral unit or condominium structure. Buildings the construction of which is not preempted by the federal act are subject to building code requirements of KRS Chapter 198B.

MODULAR HOME. An industrialized building system which is designed to be used as a residence and which is not a manufactured home or mobile home.

ORDINARY REPAIR. Any nonstructural reconstruction or renewal of any part of an existing building for the purpose of its maintenance, or decoration, and shall include but not be limited to the replacement or installation of nonstructural components of the building such as roofing, siding, windows, storm windows, insulation, drywall or lath and plaster, or any other replacement, in kind, that does not alter the structural integrity, alter the occupancy or use of the building, or affect, by rearrangement, exitways and means of egress; but shall not include additions to, or alteration of, or relocation of any
standpipe, water supply, sewer, drainage, gas, soil, waste, vent or similar piping, electric wiring, or mechanical equipment including furnaces and hot water heaters or other work affecting public health or safety.

PERPENDICULAR LUMBER SHEATHING. For the purposes of this code, any lumber sheathing, either spaced or laid side-by-side having an angle of intersection with the rafter or joist of 60 degrees or greater.

PRIVATE SWIMMING POOL. Any *structure* that contains water over 24 inches (610 mm) deep and which:

a. is used, or intended to be used, for swimming or recreational bathing in connection with a Group R-3 occupancy; and

b. is available only to the family and guests of the householder. This includes *swimming pools* constructed below grade on *site*, but not those assembled above grade on *site*.

PRIVATE SWIMMING POOL, OUTDOOR. Any *private swimming pool* that is not an indoor pool.

RATIONAL ANALYSIS. Alternative analytical calculations, experimental data, published design data or other referenced citations that have been approved for use by the building official.

REPAIR. The reconstruction or renewal of any part of an existing building for the purpose of its maintenance. See also “ordinary repair.”

SPA. See definition of *private swimming pool*.

SWIMMING POOL. Any *structure* intended for swimming, recreational bathing or wading that contains water over 24 inches (610 mm) deep. This includes in-ground, pools, hot tubs, spas and fixed-in-place wading pools.

TINY HOUSE. A *dwelling* which is 400 or less square feet (37 m²) in floor area excluding *lofts*.
CHAPTER 3
BUILDING PLANNING

SECTION R301
DESIGN CRITERIA

R301.1.1 Alternative provisions. As an alternative to the requirements in Section R301.1, the following standards are permitted subject to the limitations of this code and the limitations therein. Where engineered design is used in conjunction with these standards the design shall comply with the Kentucky Building Code.

2. American Iron and Steel Institute (AISI) Standard for Cold-Formed Steel Framing – Prescriptive Method for One-and Two-Family Dwellings (COFS/PM) with Supplement to Standard for Cold-Formed Steel Framing – Prescriptive Method for One-and Two-Family Dwellings.

R301.2 Climatic and geographic design criteria. Buildings shall be constructed in accordance with the provisions of this code as limited by the provisions of this section. Additional criteria shall be established as set forth in Tables R301.2 (1) and R301.2.2.1.

R301.2.2 Seismic provisions. The seismic provisions of this code shall apply to buildings constructed in Seismic Design Categories D0, D1, and D2, as determined in accordance with this section. Buildings in Seismic Design Category E shall be designed in accordance with the Kentucky Building Code, except when the Seismic Design Category is reclassified to a lower Seismic Design Category in accordance with Section R301.2.2.1.

Exceptions: The following types of buildings or structures are exempt from the seismic requirements of this code:

1. Detached one-and two-family dwellings, townhomes and their accessory structures located in Seismic Design Categories A, B or C.
3. Where exceptions to the required provisions for Seismic Design Categories D1 and D2 can be shown to be justified by implementing the provisions of the Kentucky Building Code, a rational analysis design in accordance to the International Building Code may be used, subject to the approval of the building official.

R301.2.2.1 Determination of seismic design category. Buildings shall be assigned a seismic design category in accordance with Table R301.2.2.1.

R301.2.2.1.1 Alternate determination of seismic design category. The seismic design categories and corresponding short period design spectral response accelerations, SD, are based on soil Site Class D, as defined in Section 1613.3.2 of the Kentucky Building Code. If soil conditions are other than Site Class D, the short period design spectral response accelerations, SD, for a site can be determined according to Section 1613.3 of the Kentucky Building Code. The value of SD determined according to Section 1613.3 of the Kentucky Building Code is permitted to be used to set the seismic design category according to Table R301.2.2.1.1, and to interpolate between values in Tables R602.10.1.3, R603.9.2(1) and other seismic design requirements of this code.

R301.2.2.1.2 Alternative determination of Seismic Design Category E. Section R301.2.2.1.2 of the 2015 IRC shall be DELETED in its entirety.

R301.2.2.4 Seismic Design Category E. Section R301.2.2.4 of the 2015 IRC shall be DELETED in its entirety.

R301.2.2.5 Irregular buildings. Prescriptive construction as regulated by this code shall not be used for irregular structures located in Seismic Design Categories D0, D1, and D2. Irregular portions of structures shall be designed in accordance with accepted engineering practice to the extent the irregular features affect the performance of the remaining structural system. When the forces associated with the irregularity are resisted by a structural system designed in accordance with accepted engineering practice, design of the remainder of the building shall be permitted using the provisions of this code. A building or portion of a building shall be considered to be irregular when one or more of the following conditions occur:

1. When shear wall lines or braced wall panels are not in one plane vertically from the foundation to the uppermost story in which they are required.

Exception: For wood light-frame construction, floors with cantilevers, offsets, or setbacks not exceeding four times the nominal depth of wood floor joists are permitted to support braced wall panels that are out of plane with braced wall panels below provided that:
**TABLE R301.2 (1)**
DESIGN SNOW, CLIMATIC AND GEOMETRIC DESIGN CRITERIA FOR KENTUCKY COUNTIES

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**WIND DESIGN**
Basic ultimate wind speed, $V_{ult}$ shall be 115 mph (51.4 m/s) for all Kentucky counties. Topographic effects shall be investigated.$^d,e$

**SEISMIC DESIGN CATEGORY**
Seismic Design Category shall be in accordance with Table R301.2.2.1.

**WEATHERING**
Weathering probability for concrete shall be classified as SEVERE for all Kentucky counties and meet requirements of Table R402.2.

**FROST LINE DEPTH**
Frost depth shall be in accordance to Table 403.1.4.

**TERMITE PROTECTION**
Termite infestation probability shall be MODERATE TO HEAVY for all Kentucky counties.

**FLOOD HAZARDS**
Buildings in identified floodways shall be designed in accordance to Section R301.2.4.
TABLE R301.2 (1)
DESIGN SNOW, CLIMATIC AND GEOMETRIC DESIGN CRITERIA FOR KENTUCKY COUNTIES (continued)

For SI: 1 pound per square foot (psf) = 0.0479 kN/m².

a. Listed values of ground snow load, pg, shall be used in accordance to Section R301.2.3 of this code.
b. Ground snow load values for elevations above 2600 feet (792.480 m) in this county shall be based on site-specific case studies or by other approved means of rational analysis.
c. Ground snow load values for elevations above 2500 feet (762 m) in this county shall be based on site-specific case studies or by other approved means of rational analysis.
d. See Section 301.2.1.3 for conversion to nominal design wind speeds, Vₚₐ when reference documents are based on nominal or ASD speeds.
e. See Section 602.12 for alternative methods for wind design.

1. Floor joists are nominal 2 inches by 10 inches (51 mm by 254 mm) or larger and that: spaced not more than 16 inches (406 mm) on center.

2. The ratio of the back span to the designed cantilever is at least 2 to 1.

3. Floor joists at ends of braced wall panels are doubled.

4. For wood-frame construction, a continuous rim joist is connected to ends of all cantilever joists. When spliced, the rim joists shall be spliced using a galvanized metal tie not less than 0.58 inch (1.5mm) (16 gage) and 1 ½ inches (38mm) wide fastened with six 16d nails on each side of the splice or a block of the same size as the rim joist of sufficient length to fit securely between the joist space at which the splice occurs, fastened with eight 16d nails on each side of the splice; and

5. Gravity loads carried at the end of cantilevered joists are limited to uniform wall and roof loads and the reactions from headers having a span of 8 feet (2438mm) or less.

2. When a section of floor or roof is not laterally supported by shear walls or braced wall panels on all edges.

Exceptions:
1. Portions of floors that do not support shear walls or braced wall panels above, or roofs, shall be permitted to extend no more than 6 feet (1829 mm) beyond a shear wall or braced wall line.

2. Portions of floors that do not support shear walls or braced wall panels above or roofs, shall be permitted to extend no more than 25 feet (7620mm) or two-thirds of the width of the cantilever portion, whichever is less, beyond a shear wall or braced wall line provide that:
   a. If a roof deck, the overhang is continuously braced by a wood truss designed for the lateral load effects of the overhang, or the shear walls or braced wall panels between the roof deck and ceiling. The bracing element shall be directly over the line of the lower braced wall system.
   b. All unsupported deck edges are continuously blocked and all edges are nailed with 8d common nails on not greater than 6” (152mm) on centers.
   c. A continuous double rim joist matching the dimensions of the joists, purlins or rafters is provided along the three open sides.

3. When the end of a braced wall panel occurs over an opening in the wall below and ends at a horizontal distance greater than 1 foot (305 mm) from the edge of the opening. This provision is applicable to shear walls and braced wall panels offset in plane and to braced wall panels offset out of plane as permitted by the exception to item 1 above.

Exception: For wood light-frame wall construction, one end of a braced wall panel shall be permitted to extend more than 1 foot (305 mm) over an opening not more than 8 feet (2438 mm) wide in the wall below provided that the opening includes a header in accordance with the following:

1. The building width, loading condition and framing member species limitations of Table R502.5(1) shall apply and
2. Not less than one 2x12 or two 2x10 for an opening not more than 4 feet (1219 mm) wide or
3. Not less than two 2x12 or three 2x10 for and opening not more than 8 feet (1829 mm) wide or
4. Not less than three 2 x 12 or four 2 x 10 for an opening not more than 8 feet (2438 mm) wide and
5. The entire length of the braced wall panel does not occur over an opening in the wall below.
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<td>B</td>
</tr>
<tr>
<td>Clay</td>
<td>B</td>
<td>Jefferson</td>
<td>B</td>
<td>Monroe</td>
<td>B</td>
<td>Wayne</td>
<td>B</td>
</tr>
<tr>
<td>Clinton</td>
<td>B</td>
<td>Jessamine</td>
<td>B</td>
<td>Montgomery</td>
<td>B</td>
<td>Webster</td>
<td>C</td>
</tr>
<tr>
<td>Crittenden</td>
<td>D₀</td>
<td>Johnson</td>
<td>B</td>
<td>Morgan</td>
<td>B</td>
<td>Whitley</td>
<td>B</td>
</tr>
<tr>
<td>Cumberland</td>
<td>B</td>
<td>Kenton</td>
<td>A</td>
<td>Muhlenberg</td>
<td>C</td>
<td>Wolfe</td>
<td>B</td>
</tr>
<tr>
<td>Daviess</td>
<td>C</td>
<td>Knott</td>
<td>B</td>
<td>Nelson</td>
<td>B</td>
<td>Woodford</td>
<td>B</td>
</tr>
</tbody>
</table>
4. When an opening in a floor or roof exceeds the lesser of 12 feet (3657 mm) or 50 percent of the least floor of roof dimension.

**Exception:** The opening is bounded by braced walls within four feet of the opening on all four sides and running the full height of the structure. The braced walls shall bear on continuous foundations walls or the basement slab.

5. When portions of a floor level are vertically offset.

**Exceptions:**
1. Framing supported directly by continuous foundations at the perimeter of the building.
2. For wood light-frame construction, floors shall be permitted to be vertically offset when the floor framing is lapped or tied together as required by Section R502.6.1.
3. The offset occurs at a braced wall system over continuous foundations or a basement slab.

6. When shear walls and braced wall lines do not occur in two perpendicular directions.

7. When stories above-grade partially or completely braced by wood wall framing in accordance with Section R602 or steel framing in accordance with Section R603 include masonry or concrete construction.

**Exception:** Fireplaces, chimneys, and masonry veneer as permitted by this code. When this irregularity applies, the entire story shall be designed in accordance with accepted engineering practice.

8. Where only one side of the section is unbraced, the length perpendicular to the unbraced side shall not exceed 25 feet nor have a ratio to the unbraced dimension of 1 for a one-story structure or 0.67 for other structures, whichever is less, provided:

   a. All unsupported deck edges within the section are continuously blocked and all edges are nailed with 8d common nails on not greater than 6-inch (152 mm) on center.
   b. A continuous rim joist matching the dimensions of the joists, purlins or rafters is provided along the unbraced side. On the other three sides, there shall be a continuous joist, rim joist or blocking directly over the braced walls.

---

**SECTION R302**  
**FIRE-RESISTANT CONSTRUCTION**

**R302.1 Exterior walls.** Construction, projections, openings and penetrations of exterior walls of dwellings and accessory buildings shall comply with Table R302.1(1).

**Exceptions:**

1. Walls, projections, openings, or penetrations in walls perpendicular to the line used to determine the fire separation distance.
2. Walls of dwellings and accessory structures located on the same lot.
3. Detached tool sheds and storage sheds, playhouses, and similar structures exempted from permits are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line.
4. Detached garages accessory to a dwelling located within 2 feet (610 mm) of a lot line are permitted to have roof eave projections not exceeding 4 inches (102 mm).
5. Foundation vents installed in compliance with this code are permitted.
6. For building applications that have received local zoning approvals for plats or for preliminary concept or master plans prior to July 1, 2007, dwellings with a fire separation distance of less than three (3) feet from the property line shall be required to have at least a one-hour fire resistance rating and exposure from both sides and openings shall not be permitted. Projections and penetrations shall comply with Table R302.1(1).
7. Minimum fire separation distances for exterior walls may be decreased to a minimum of three (3) feet from the property line if the exterior wall of the dwelling on the adjacent site is held by deed or other recorded land restriction at a distance from the property line which affords at least ten (10) feet between the exterior walls of the dwellings. Projections more than 12 inches beyond the exterior wall are prohibited.
### Table R302.1 (1)
#### Exterior Walls

<table>
<thead>
<tr>
<th>Exterior Wall Element</th>
<th>Minimum Fire-Resistance Rating</th>
<th>Minimum Fire Separation distance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Walls</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire-resistance rated</td>
<td>1 hour – tested in accordance with ASTM E 119 or UL 263 with exposure from both sides</td>
<td>&lt; 5 feet</td>
</tr>
<tr>
<td>Non fire-resistance rated</td>
<td>0 hours</td>
<td>≥ 5 feet</td>
</tr>
<tr>
<td><strong>Projections</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire-resistance rated</td>
<td>1 layer 5/8 type exterior sheetrock or other approved material on the underside</td>
<td>≥ 2 feet to &lt; 4 feet</td>
</tr>
<tr>
<td>Not fire-resistance rated</td>
<td>0 hours</td>
<td>≥ 5 feet</td>
</tr>
<tr>
<td><strong>Openings</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not allowed</td>
<td>N/A</td>
<td>&lt; 3 feet</td>
</tr>
<tr>
<td>25% maximum of wall area(^a)</td>
<td>0 hours</td>
<td>&lt; 5 feet to &gt; 3 feet</td>
</tr>
<tr>
<td>Unlimited</td>
<td>0 hours</td>
<td>&gt; 5 feet</td>
</tr>
<tr>
<td><strong>Penetrations</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All</td>
<td>Comply with Section R302.4</td>
<td>&lt; 5 feet</td>
</tr>
<tr>
<td>None required</td>
<td></td>
<td>&gt; 5 feet</td>
</tr>
<tr>
<td>25% maximum of wall area(^a)</td>
<td>0 Hours</td>
<td>&lt; 5 feet to &gt; 3 feet</td>
</tr>
</tbody>
</table>

\(^a\) Shall be the aggregate of Openings and Penetrations in walls that are > 3 feet and < 5 feet to a property line.

**R302.1.1 Continuity.** The fire-resistance rated wall shall be continuous from the foundation to the underside of the roof sheathing, deck, or slab, and shall extend the full length of the wall or assembly, to a point where the fire separation distance no longer would require a fire-resistance rating of the exterior wall.

**R302.1.2 Parapets.** Parapets shall be constructed on exterior walls of buildings in accordance with Section R302.2.3 and R302.3.

**Exceptions.** A parapet need not be provided on an exterior wall where any of the following conditions exist:

1. The wall is not required to be fire-resistance rated in accordance with Table R302.1(1).

2. When the entire building is provided with a Class C roof covering, the exterior walls shall be permitted to terminate at the underside of the roof sheathing or deck provided:

   2.1. The roof sheathing or deck is constructed of approved noncombustible materials or of fire retardant-treated wood for a distance of 4 feet (1220mm); or

   2.2. The roof is protected with one layer of 5/8 (15.9mm) Type X gypsum board directly beneath the roof sheathing or deck, supported by a minimum of nominal 2-inch (51mm) ledgers attached to the sides of the roof framing members for a minimum distance of 4 feet (1220mm).

3. Where the exterior wall is permitted to have a maximum of 25% unprotected openings based on fire separation distance based on Table R302.1(1).

**R302.2 Townhouses.** Each townhouse shall be considered a separate building and shall be separated by fire-resistance-rated wall assemblies meeting the requirements of Section R302.1 for exterior walls.

**Exception:** A common 2-hour fire-resistance-rated wall assembly tested in accordance with ASTM E 119 or UL 263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight
against exterior walls and the underside of the roof sheathing. Electrical installations shall be in accordance with NFPA 70. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.

R302.5.1 Opening protection. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and the residence shall be equipped with solid wood doors not less than 1 3/8 inches (35mm) in thickness, solid or honeycomb-core steel doors not less than 1 3/8 inches (35mm) thick, or 20-minute fire-rated doors.

R302.13 Fire protection of floors. Section R302.13 of the 2015 IRC shall be DELETED in its entirety.

SECTION R310
EMERGENCY ESCAPE AND RESCUE OPENINGS

R310.1 Emergency escape and rescue. Every sleeping room shall have at least one operable emergency escape and rescue opening. Where basements contain one or more sleeping rooms, emergency escape and rescue openings shall be required in each sleeping room, but shall not be required in adjoining areas of the basement. Where emergency escape and rescue openings are provided they shall have a sill height of not more than 44 inches (1118 mm) measured from the finished floor to the bottom of the clear opening. Where a door opening having a threshold below the adjacent ground elevation serves as an emergency escape and rescue opening an is provided with a bulkhead enclosure, the bulkhead enclosure shall comply with Section R310.3. The net clear opening dimensions required by this section shall be obtained by the normal operation of the emergency escape and rescue opening from the inside. Emergency escape and rescue openings with a finished sill height below the adjacent ground elevation shall be provided with a window well in accordance with Section R310.2. Emergency escape and rescue openings shall open directly into a public way, or to a yard or court that opens to a public way.

R310.1 Emergency escape and rescue opening required. Section R310.1, Exception of the 2015 IRC shall be DELETED in its entirety.

R310.5 Dwelling additions. Section R310.5 of the 2015 IRC shall be DELETED in its entirety.

R310.6 Alterations or repairs of existing basements. Section R310.6 of the 2015 IRC shall be DELETED in its entirety.

SECTION R311
MEANS OF EGRESS

R311.2 Egress Doors. Not less than one egress door shall be provided for each dwelling unit. The egress door shall be side hinged, and shall provide a clear width of not less than 32 inches (813 mm) where measured between the face of the door and the stop, with the door open 90 degrees (1.57 rad). The clear height of the door opening shall be not less than 78 inches (1981 mm) in height measured from the top of the threshold to the bottom of the stop. Egress doors shall be readily openable from inside the dwelling without the use of a key or special knowledge or effort.

R311.3.1 Floor elevations at the required egress doors. Landings or finished floors at the required egress door shall not be more than 1 ½ inches (38mm) lower than the top of the threshold.

Exception: The landing or floor on the exterior side shall not be more than 8 ¼ inches (210mm) below the top of the threshold provided the door does not swing over the landing or floor.

R311.3.2 Floor elevations for other exterior doors. Doors other than the required egress door shall be provided with landings or floors not more than 8 ¼ inches (210mm) below the top of the threshold.

Exception: Other than the required egress door, where the vertical elevation measured between the interior finish floor and the exterior finish grade, patio, or deck does not exceed 30 inches, a landing is not required for the exterior side of the door provided the door, other than an exterior storm or screen door, does not swing over the stairway.

R311.4 Vertical egress. Egress from habitable levels shall be by a ramp in accordance with Section R311.8 or a stairway in accordance with Section R311.7.

R311.7.5.1 Risers. The maximum riser height shall be 8 ¼ inches (210 mm). The riser shall be measured vertically between leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Risers shall be vertical or sloped from the underside of the nosing of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open risers are permitted provided that the opening between the treads does not permit the passage of a 4-inch (102mm) diameter sphere.

Exception: The opening between adjacent treads is not limited on stairs with a total rise of 30 inches (762mm) or less.

R311.7.5.2 Treads. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right
angle to the tread’s leading edge. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

R311.7.5.2.1 Winder treads. Winder treads shall have a minimum tread depth of 9 inches (229 mm) measured between the vertical planes of the foremost projection of adjacent treads at the intersections with the walk line. Winder treads shall have a minimum tread depth of 6 inches at any point within the clear width of the stair. Within any flight of stairs, the largest winder tread depth at the walk line shall not exceed the smallest winder tread by more than 3/8 inch (9.5 mm). Consistently shaped winders at the walk line shall be allowed within the same flight of stairs as rectangular treads and do not have to be within 3/8 inch (9.5 mm) of the rectangular tread depth.

R311.7.8.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 1 ½ inch (38) between the wall and the handrails.

Exceptions:

1. Handrails shall be permitted to be interrupted by a newel post at the turn.

2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.

3. Handrails within a dwelling unit shall be permitted to be discontinuous between the top and bottom of a flight of stairs where the ends of the discontinued rail are returned to a wall or post and the maximum distance between the ends of discontinued rails is not greater than 4 inches (102 mm).

R311.7.8.3 Grip-size. All required handrails shall be of one of the following types or provide equivalent graspability.

1. **Type I.** Handrails with a circular cross section shall have an outside diameter of at least 1 ¼ inches (32 mm) and not greater than 2 5/8 inches (67 mm). Other handrail shapes, including those complying with Figure R311.7 (a-f) are considered to be equivalent in graspability. If the handrail is not circular it shall have a perimeter dimension of at least 4 inches (102 mm) and not greater than 6 ¼ inches (160 mm) with a maximum cross section of dimension of 2 ¼ inches (57 mm).

2. **Type II.** Handrails with a perimeter greater than 6 ¼ inches (160 mm) shall provide a graspable finger recess area on both sides of the profile. The finger recess shall begin within a distance of ¾ inch (19 mm) measured vertically from the tallest portion of the profile and achieve a depth of at least 5/16 inch (8 mm) with 7/8 inch (22 mm) below the widest portion of the profile. This required depth shall continue for at least 3/8 inch (10 mm) to a level that is not less than 1 ¾ inches (45 mm) below the tallest portion of the profile. The minimum width of the handrail above the recess shall be 1 ¾ inches (32 mm) to a maximum of 2 ¾ inches (70 mm). Edges shall have a minimum radius of 0.01 inch (0.25 mm).

**Figure 311.7**

For SI: 1 inch =25.4 mm, 1 degree = 0.018 rad

**SECTION R312**

GUARDS AND WINDOW FALL PROTECTION

R312.2 Guards at retaining walls. Where retaining walls with differences in grade level on either side of the wall is in excess of 30 inches and are located closer than 3 feet to a walk, designated walking path, or driveway on the high side, such retaining wall shall be provided with guards that are
constructed in accordance with Section R312.1.2 and R312.1.3.

**R312.2 Window sills.** Section R312.2.1 of the 2015 IRC shall be DELETED in its entirety.

**R312.2.2 Window opening control devices.** Section R312.2.2 of the 2015 IRC shall be DELETED in its entirety.

**SECTION R313 AUTOMATIC FIRE SPRINKLER SYSTEMS**

**R313 Automatic Fire Sprinkler Systems.** Section R313.1 through R313.1.1 of the 2015 IRC shall be DELETED in their entirety.

**SECTION R326 SWIMMING POOLS, SPAS, AND HOT TUBS**

**R326.1 General.** The provisions of this section shall control the design and construction of swimming pools, spas, and hot tubs installed in or on the lot of a one- or two-family dwelling.

**R326.2 Definitions.** The following terms are defined in Chapter 2:

- **BARRIER**
- **HOT TUB**
- **IN-GROUND POOL PRIVATE**
- **SWIMMING POOL**
- **PRIVATE SWIMMING POOL, INDOOR**
- **PRIVATE SWIMMING POOL, OUTDOOR SPA**
- **SWIMMING POOL**

**R326.3 Pools in flood hazard areas.** Swimming pools that are located in flood hazard areas established by the local jurisdiction or the flood plain manager including in-ground swimming pools that involve placement of fill, shall comply with Section R326.3.1 or R326.3.2.

**Exception:** Swimming pools located in riverine flood hazard areas which are outside of designated floodways.

**R326.3.1 Pools located in designated floodways.** Where swimming pools are located in designated floodways, documentation shall be submitted to the building official that demonstrates that the construction of the swimming pool will not increase the design flood elevation at any point within the jurisdiction.

**R326.3.2 Pools located where floodways have not been designated.** Where swimming pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed swimming pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the jurisdiction.

**R326.4 In-ground pools.** In-ground swimming pools shall be designed and constructed in compliance with ANSI/NSPI-5.

**R326.5 Above-ground and on-ground pools.** Above-ground and on-ground swimming pools shall be designed and constructed in compliance with ANSI/NSPI-4.

**R326.6 Pools in flood hazard areas.** Swimming pools in flood hazard areas established by Table R301.2 (1) shall be designed and constructed in compliance with ASCE 24.

**R326.7 Permanently installed spas and hot tubs.** Permanently installed spas and hot tubs shall be designed and constructed in compliance with ANSI/NSPI-3.

**R326.8 Barrier Requirements.** The provisions of this section shall control the design of barriers for residential swimming pools. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools.

**R326.8.1 Outdoor swimming pool.** An outdoor inground swimming pool shall be surrounded by a barrier, which shall comply with the following:

1. The top of the barrier shall be at least 48 inches (1219 mm) above grade measured on the side of the barrier, which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 4 inches (102 mm) measured on the side of the barrier, which faces away from the swimming pool.

2. Openings in the barrier shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions, except for normal construction tolerances and tooled masonry joints.

4. Where the barrier is composed of horizontal and vertical members, and the distance between the tops of the horizontal members is less than 24 inches (610 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1 3/4 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 3/4 inches (44 mm) in width.

**Exception:** When intermediate horizontal members are located 34 inches (864 mm) or more above grade, the spacing between vertical members
shall not exceed 4 inches (102 mm) in width.

5. Where the barrier is composed of horizontal and vertical members, and the distance between the tops of the horizontal members is 24 inches (610 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 3/4 inches (44 mm) in width.

6. Maximum mesh size for chain link fences shall be a 2 1/4-inch (57 mm) square, unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than 1 3/4 inches (44 mm).

7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1 3/4 inches (44 mm).

8. Access gates shall comply with the requirements of items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the swimming pool, and shall be self-closing and have a self-latching device. Gates, other than pedestrian access gates, shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 48 inches (1219 mm) above grade from the bottom of the gate, the release mechanism and openings shall comply with the following:

8.1. The release mechanism shall be located on the swimming pool side of the gate at least 3 inches (76 mm) below the top of the gate; and

8.2. The gate and barrier shall have no opening larger than 1/2 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

9. Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:

9.1. The swimming pool shall be equipped with a powered safety cover in compliance with ASTM F 1346;

9.2. Doors with direct access to the swimming pool through that wall shall be equipped with an alarm that produces an audible warning when the door and its screen, if present, are opened. The alarm shall be listed and labeled in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or

9.3. Other means of protection, such as self-closing doors with self-latching devices, which are approved by the authority having jurisdiction, shall be acceptable as long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described herein.

R326.8.2 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Item 9 of Section R926.6.2.

R326.8.3 Prohibited locations. Barriers shall be located to prohibit permanent structures, equipment, or similar objects from being used to climb them.

R326.8.4 Barrier exceptions. Spas or hot tubs with a safety cover that comply with ASTM F 1346 shall be exempt from the provisions of this section.

R326.9 Locations. Private swimming pools shall not encroach on any front or side yard required by this code or by the governing zoning laws, unless in accordance with specific rules of the jurisdiction in which the swimming pool is located. A wall of a swimming pool shall not be located less than 6 feet (1829mm) from any rear or side property lines or 10 feet (3048mm) from any street property line, unless in accordance with the specific rules of the jurisdiction in which the swimming pool is located.

R326.10 Entrapment Protection for Swimming Pool and Spa Suction Outlets. Suction outlets shall be designed and installed in accordance with ANSI/APS-7.

SECTION R327
POST AND FRAME STRUCTURES

R327.1 Post and frame structures. The following requirements serve as minimum standards for post and frame structures within all of the following structural limitations:

1. Residential accessory structures;
2. Single story;
3. Metal roof on purlins with bracing and metal wall panels on girts, with bracing as shown in Figure R327.1 or in lieu of bracing provide solid exterior structural sheathing;
4. No attic storage;
5. Maximum building width of 48 feet including the overhang;
6. Maximum wall height of 16 feet;
7. Maximum mean roof height of 20 feet; and
8. Maximum post spacing of 8 feet.

Post and frame structures and portions thereof outside the above structural limitations of this standard shall be accompanied by structural calculations as required by the residential building official or designed under the provisions of section R106.1 of the this code. Post and
frame structure shall comply with the structural design requirements of Section R301 of this code or the alternative provisions (Post Frame Building Design Manual) referenced in Section 301.1.1.

**R327.2 Definition.** Post and frame structures consist of primary members (post, beams and single span trusses or ceiling joists and rafters) and secondary members (roof purlins, wall girts, bracing, and sheathing) where all loads are transmitted from the sheathing and the secondary members to the primary members, which transfer them to the ground through vertical posts bearing on footings embedded in the soil. See Figure R327.1.
METAL WALL PANEL

KNEE BRACE DIMENSION
PER TABLE R327.5

KNEE BRACE
PER R327.5

WOOD COLUMN
PER R327.4
PER R324.4

HEADER CONNECTION TO COLUMN PER

HEADER PER R324.4.5

METAL WALL PANEL

WALL GRIT
PER R324.4.4

SKIRT BOARD
PER R324.4.3

GRADE

OPTIONAL 4" CONCRETE SLAB
CONCRETE SLAB

4" GRAVEL FILL

UPLIFT PROTECTION
PER R327.4.1

FOOTING PER R327.3
FOOTING PER R324.3

THICKNESS
PER R324.3

PER TABLE R324.3
PER TABLE R327.3
FIGURE R327.1

POST AND FRAME WALL SECTION
NO SCALE

BRACING NOT SHOWN
### TABLE R327.3
**POST FRAME PIER DIAMETERS**

<table>
<thead>
<tr>
<th>Building width (length of truss) including overhang (feet)</th>
<th>25</th>
<th>28</th>
<th>32</th>
<th>36</th>
<th>40</th>
<th>44</th>
<th>48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter (inches) 20 lb. Roof Snow Load</td>
<td>18</td>
<td>22</td>
<td>24</td>
<td>26</td>
<td>28</td>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>Diameter (inches) 30 lb. Roof Snow Load</td>
<td>24</td>
<td>26</td>
<td>28</td>
<td>28</td>
<td>30</td>
<td>30</td>
<td>32</td>
</tr>
</tbody>
</table>

1. Pier footing thickness shall be a minimum one-half of the diameter of the footing.
2. Based upon 2000 PSF soil bearing capacity and truss loads of 20 or 30 PSF live or snow load top chord, 10 PSF dead load top chord, 5 PSF dead load on the bottom chord and no live load on the bottom chord.
3. Fractional widths shall be rounded to the next higher pier footing diameter.

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**R327.4 Column and wall construction.** Columns shall be three sections of 4-ply unspliced, reinforced spliced, or solid wood and shall not be less than 6-inch by 6-inch nominal size. Columns shall comply with the requirements of Section R318 and shall be restrained to prevent lateral displacement. Built up columns shall be fastened as illustrated in Figure R327.2.

**R327.4.1 Column uplift protection.** Columns shall have uplift protection by one of the following methods:

1. Two 2x6 12 inch column uplift protection blocks attached to each side of the base of the column. The column uplift protection blocks must be placed horizontally, attached per Table R327.7 and comply with Section R318.

2. 12 inch high, concrete collar poured on top of footing around the post with 2 #5x9 inch rebar placed through the post at 3 inches and 9 inches from bottom of post in opposite directions. The rebar ends shall be installed in accordance with ACI 332 for the specified distance in inches from contact with the soil. See Figure R327.3

**R327.4.2 Column spacing.** The maximum spacing for columns shall be 8 feet.

**R327.4.3 Skirt boards.** Skirt boards shall be treated lumber meeting the requirements of Section R318 and attached per Table R327.7.

**R327.4.4 Wall girts.** Girts shall be a minimum 2x4 spaced not more than 24 inches on center and attached per Table R327.7.

---

**R327.3 Footings and Foundations.** Footings and foundations shall comply with applicable provisions of R401. Post and frame structures shall have poured in-place concrete footings installed below all posts. The top of the footing shall be a minimum of 48 inches below finished grade and have footing diameters complying with Table R327.3.
R327.4.5 Load bearing beams and headers. Load bearing beams and headers shall comply with Table R302.5 (1).

Exceptions:
1. Bearing beams are not required if the trusses or ceiling joists and rafters bear directly on the columns.
2. Opening on the gable end walls of post and frame buildings supporting a door or roof total load not exceeding 5 square feet per lineal feet of wall area, headers must be sized per Table R327.4.5.

**TABLE R327.4.5**

<table>
<thead>
<tr>
<th>Opening Width (feet)</th>
<th>10</th>
<th>12</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Header Size (inches)</td>
<td>2 - 2x8</td>
<td>2 - 2x10</td>
<td>2 - 2x12</td>
</tr>
</tbody>
</table>

R327.4.6 Exterior Structural Sheathing or Wall Bracing. Provide exterior structural sheathing or wall bracing to resist all racking and shear forces. Bracing must comply with the applicable provisions of section R602.10 or by installing 2x6 diagonal braces between two adjoining columns at 8 feet on center or multiple spacing totaling a minimum of 8 feet on center where the post spacing design is less than 8 feet on center. The diagonal brace shall be placed from the top header or girt to the next adjoining column at the skirt board. The bracing shall be installed on each side of the building and shall be a minimum of 25 feet on center and within 12 feet of the end of the building and attached to the wall girts and columns per Table R327.7. Any splices of the diagonal brace required due to excessive length, must lap over two consecutive wall girts.

R327.4.7 Beams supporting trusses or rafters and ceiling joists attachment to column. Bearing beams supporting roof trusses or rafters and ceiling joists shall be connected to columns by one of the following methods:

1. Bolts that are 1/2 inch diameter through-bolted to the side of the column;
2. Bolts that are 1/2 inch diameter, directly attached to a 3-ply column notch, enclosing the truss or rafter at the top of column; or
3. Other fasteners with minimum shear or withdraw values stated in Table R327.4.7.

**R327.4.7.1 Number of fasteners.** The minimum numbers of through bolts or the fasteners with minimum shears or withdraw values required per Table R327.4.7.

R327.5 Knee bracing. A 2x6 brace shall extend from the column to the top chord of the truss or rafter adjacent to the post at a 45 degree angle. The vertical distance down from the bottom chord of the truss or ceiling joist to the point where the brace attaches to the post shall be in compliance with Table R327.5 as shown on Figure R327.1. Trusses or rafter must be spaced such that they align with the column intervals. Attachment of knee brace shall be per Table R327.7.

**TABLE R327.5**

<table>
<thead>
<tr>
<th>Wall Height</th>
<th>Vertical Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>8'-0&quot; and 9'-0&quot;</td>
<td>1'-6&quot;</td>
</tr>
<tr>
<td>10'-0&quot; and 11'-0&quot;</td>
<td>2'-0&quot;</td>
</tr>
<tr>
<td>12'-0&quot; and 13'-0&quot;</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>14'-0&quot; through 16'-0&quot;</td>
<td>4'-0&quot;</td>
</tr>
</tbody>
</table>

R327.6 Roof Construction. Top chord of roof trusses or roof rafters shall be braced with exterior sheathing or metal roof on purlins with bracing.

R327.6.1 Roof Purlins. Roof purlins shall be a minimum of 4x2 SPF #2 laid flat of spans up to 4 feet, and 4x2 SPF #2 laid on edge for spans up to 8 feet.

R327.6.2 Roof Bracing. Provide exterior structural sheathing or bracing to resist racking and shearing forces in roof Bracing shall occur in the roof on all 4 sides of the building and shall consist of 2x6 diagonal braces perpendicular and parallel to rafters or trusses and attached to the bottom side of rafters or top chords of trusses. These braces shall start at a point just below the first purlin, rafter, or truss in from the eave purlin and at each corner column. The brace shall be placed on a 45-degree angle and end below the location of a purlin, rafter, or truss within 8'-0" in from the wall. If the building width or length exceeds 24'-0" then install additional braces in the same manner. Spacing of braces shall not exceed a maximum spacing of 2 feet on center in any direction.

R327.7 Attachment details. Structural fastener details for post and frame buildings shall comply with Table R327.7.
### TABLE R327.4.7

BEAM OR TRUSS CONNECTION AT COLUMNS MINIMUM FASTENERS OR TOTAL SHEAR OR WITHDRAW VALUES

<table>
<thead>
<tr>
<th>Building width (length of truss) including overhang (feet)</th>
<th>24</th>
<th>28</th>
<th>32</th>
<th>36</th>
<th>40</th>
<th>44</th>
<th>48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shear or withdraw (pounds) 20# snow load</td>
<td>3360</td>
<td>3920</td>
<td>4480</td>
<td>5040</td>
<td>5600</td>
<td>6160</td>
<td>6720</td>
</tr>
<tr>
<td>Number of Bolts 20# roof snow load</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Shear or withdraw (pounds) 30# roof snow load</td>
<td>4320</td>
<td>5040</td>
<td>5760</td>
<td>6480</td>
<td>7200</td>
<td>7920</td>
<td>8640</td>
</tr>
<tr>
<td>Number of Bolts 30# roof snow load</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Based upon truss loads of 20 or 30 PSF live or snow load top chord, 10 PSF dead load top chord, 5 PSF live load on the bottom chord and no live load on the bottom chord.
2. Based upon post spacing at intervals not exceeding 8 feet.
3. When beams are attached at each side of the column and fasteners do not extend through both beams such as through-bolts, the required values are one-half the amount shown above for each beam.

### TABLE R327.7

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

<table>
<thead>
<tr>
<th>Fastener Schedule for Structural Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of Building Element</td>
</tr>
<tr>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Uplift blocking to column</td>
</tr>
<tr>
<td>Skirt board to column</td>
</tr>
<tr>
<td>Wall girt to column</td>
</tr>
<tr>
<td>Diagonal bracing to column</td>
</tr>
<tr>
<td>Diagonal bracing to skirt board</td>
</tr>
<tr>
<td>Diagonal bracing to wall girts</td>
</tr>
<tr>
<td>Knee brace to column</td>
</tr>
<tr>
<td>Knee brace to top chord of truss or rafter</td>
</tr>
<tr>
<td>Knee brace to bottom chord of truss or ceiling joist</td>
</tr>
<tr>
<td>Roof purlin to truss or rafter with span of 2’ or 4’</td>
</tr>
<tr>
<td>Roof purlin to truss or rafter with span of 8’</td>
</tr>
</tbody>
</table>
SECTION R328
TINY HOUSES GENERAL

R328.1 Scope. This section shall be applicable to tiny houses used as single dwelling units set on a permanent foundation. Tiny houses shall comply with this code except as otherwise stated in this section.

R328.2 Definitions. The following words and terms shall have the meanings shown herein. Refer to Chapter 2 for general definitions.

EGRESS ROOF ACCESS WINDOW
LANDING PLATFORM
LOFT
TINY HOUSE

R328.3 Minimum ceiling height. Habitable space and hallways in tiny houses shall have a ceiling height not less than 6 feet 8 inches (2032 mm). Bathrooms, toilet rooms, and kitchens shall have a ceiling height not less than 6 feet 4 inches (1930 mm). No obstructions shall extend below these minimum ceiling heights including beams, girders, ducts, lighting, or other obstructions.

Exception: Ceiling heights in lofts are permitted to be less than 6 foot 8 inches (2032 mm).

R328.4 Minimum loft areas. Lofts used as a sleeping or living space shall meet the minimum area and dimension requirements of Sections R328.4.1 through R328.4.3.

Exception: Under gable roofs with a minimum slope of 6:12, portions of a loft with a sloping ceiling measuring less than 16 inches (406 mm) from the finished floor to the finished ceiling shall not be considered as contributing to the minimum required area for the loft.

R328.4.1 Minimum area. Lofts shall have a floor area of not less than 35 square feet (3.25 m²)

R328.4.2 Minimum dimensions. Lofts shall be not less than 5 feet (1524 mm) in any horizontal dimension.

R328.4.3 Height effect on loft area. Portions of a loft with a sloping ceiling measuring less than 3 feet (914 mm) from the finished floor to the finished ceiling shall not be considered as contributing to the minimum required area for the loft.

R328.5 Loft access. The access to and primary egress from lofts shall be of any type described in Sections R328.6 through R328.9.

R328.6 Stairways. Stairways accessing lofts shall comply with this code or with Sections R328.6.1 through R328.6.5.

R328.6.1 Width. Stairways accessing a loft shall not be less than 17 inches (432 mm) in clear width at all points at or above the permitted handrail height. The minimum width below the handrail shall not be less than 20 inches (508 mm).

R328.6.2 Headroom. The headroom in stairways accessing a loft shall not be less than 6 feet 2 inches (1880 mm) measured vertically from the sloped line connecting the tread nosings in the middle of the tread width.

Exception: The headroom for landing platforms shall not be less than 4 feet 6 inches (1372 mm).

R328.6.3 Treads and Risers. Risers for stairs accessing a loft shall be a minimum of 7 inches (178 mm) and a maximum of 12 inches (305 mm). Tread depth and riser height shall be calculated with the following formulas:

\[
\text{Tread depth} = 20 \text{ inches} (508 \text{ mm}) - \frac{4}{3} \text{ riser height} \\
\text{or} \\
\text{Riser height} = 15 \text{ inches} (381 \text{ mm}) - \frac{3}{4} \text{ tread depth}
\]

Exception: Landing platforms shall measure two treads deep and two risers tall.

R328.6.4 Handrails. Handrails shall comply with Section R311.7.8.

R328.6.5 Stairway guards. Guards at open sides of stairways shall comply with Section R312.1.

R328.7 Ladders. Ladders accessing lofts shall comply with Sections R328.7.1 and R328.7.2.

R328.7.1 Size and capacity. Ladders accessing lofts shall have 12 inches (305 mm) minimum rung width and 10 inches (254 mm) to 14 inch (356 mm) spacing between rungs. Ladders shall be capable of supporting a 200 pound (75 kg) load on any rung. Rung spacing shall be uniform within 3/8-inch (9.5 mm).
R328.7.2 Incline. Ladders shall be installed at 70 to 80 degrees from horizontal.

R328.8 Alternating tread devices. Alternating tread devices accessing lofts shall comply with Sections R311.7.11.1 and R311.7.11.2. The clear width at and below the handrails shall be not less than 20 inches (508 mm).

R328.9 Ships ladders. Ships ladders accessing lofts shall comply with Sections R311.7.12.1 and R311.7.12.2. The clear width at and below the handrails shall be not less than 20 inches (508 mm).

R328.10 Loft guards. Loft guards shall be located along the open side(s) of lofts located more than 30 inches (762 mm) above the main floor. Loft guards shall be not less than 36 inches (914 mm) in height or one-half the clear height to the ceiling, whichever is less.

R328.11 Emergency escape and rescue openings. Tiny houses shall meet the requirements of Section R310 for emergency escape and rescue openings.

Exception: Egress roof access windows in lofts used as sleeping rooms shall be deemed to meet the requirements of Section R310 where installed with the bottom of their opening no more than 44 inches (1118 mm) above the loft floor.
SECTION R401
GENERAL

R401.1 Application. The provisions of this chapter shall control the design and construction of the foundation and foundation spaces for all buildings. In addition to the provisions of this chapter, the design and construction of foundations in areas prone to flooding as established by local jurisdiction shall meet the provisions of Section R322. Wood foundations shall be designed and installed in accordance with AF&PA PWF.

Exception: The provisions of this chapter shall be permitted to be used for wood foundations only in the following situations:
1. In building that have no more than two floors and a roof.
2. When interior basement and foundation wall are constructed at intervals not exceeding 50 feet (15240 mm).
3. Wood foundations in Seismic Design Category D0, D1, or D2 shall be designed in accordance with accepted engineering practice.

R401.4.1 Geotechnical evaluation. In lieu of a complete geotechnical evaluation, the load-bearing values in Table R401.4.1 shall be assumed.

TABLE R401.4.1
PRESUMPTIVE LOAD-BEARING VALUES OF FOUNDATION MATERIALS

<table>
<thead>
<tr>
<th>CLASS OF MATERIAL</th>
<th>LOAD-BEARING PRESSURE (pounds per square foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline bedrock</td>
<td>12,000</td>
</tr>
<tr>
<td>Sedimentary and foliated rock</td>
<td>4,000</td>
</tr>
<tr>
<td>Sandy gravel and/or gravel (GW and GP)</td>
<td>3,000</td>
</tr>
<tr>
<td>Sand, silty sand, clayey sand, silty gravel and clayey gravel (SW, SP, SM, SC, GM and GC)</td>
<td>2,000</td>
</tr>
<tr>
<td>Clay, sandy clay, silty clay, clayey silt, silt and sandy silt (CL, ML, MH and CH)</td>
<td>1,500bc</td>
</tr>
</tbody>
</table>

For SI: 1 pound per square foot = 0.0479 kPa.

a. When soil tests are required by Section R401.4, the allowable bearing capacities of the soil shall be part of the recommendations.

b. Where the building official determines that in-place soils with an allowable bearing capacity of less than 1,500 psf are likely to be present at the site, the allowable bearing capacity shall be determined by a soils investigation.

c. 2000 psf presumptive load-bearing value shall be used for Boone, Campbell, and Kenton counties for CL and CH soils only.

SECTION R403
FOOTINGS

R403.1.4 Minimum depth. The minimum depth of all exterior footings and foundation wall systems shall extend not less than the minimum frost-protection depths (MFPD) specified in Table R403.1.4 and Figure R403.1.4. The minimum frost depth shall be measured from the proposed finished grade to the bottom of the footing. All site fills shall be prepared in accordance with the requirements of Section R401.2. The minimum frost-protection depths specified in Table R403.1.4 may be achieved by backfilling with non-compacted soil above the base of the footing to a depth equal to or greater than the required frost depth plus an additional 4 inches (102 mm). The maximum grade slope for frost-protection shall not exceed 2 to 1 and the minimum grade slope shall comply with the drainage requirements of Section R401.3.

Footing and foundation systems may be formed on top of the finished prepared site grade of the cut side of the excavation when the excavation cut exceeds 28 inches (711 mm) and the MFPD may be achieved by backfilling the cut slope.

The “finished prepared site grade” shall be defined as the area exposed after clearing, grubbing, topsoil removal, and grading of the building pad, exposing stable ground.

If solid rock is exposed during the preparation of the finished prepared site grade then the footing and foundation systems may bear on the solid rock and shall not be required to extend below the frost line specified in Table R403.1.4.
<table>
<thead>
<tr>
<th>County</th>
<th>Frost Depth $d_f$ (in)</th>
<th>County</th>
<th>Frost Depth $d_f$ (in)</th>
<th>County</th>
<th>Frost Depth $d_f$ (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bell</td>
<td>27</td>
<td>Johnson</td>
<td>30</td>
<td>Magoffin</td>
<td>30</td>
</tr>
<tr>
<td>Boone</td>
<td>30</td>
<td>Kenton</td>
<td>30</td>
<td>Martin</td>
<td>33</td>
</tr>
<tr>
<td>Breathitt</td>
<td>30</td>
<td>Knott</td>
<td>33</td>
<td>Owsley</td>
<td>27</td>
</tr>
<tr>
<td>Campbell</td>
<td>30</td>
<td>Knox</td>
<td>27</td>
<td>Perry</td>
<td>30</td>
</tr>
<tr>
<td>Clay</td>
<td>27</td>
<td>Lawrence</td>
<td>27</td>
<td>Pike</td>
<td>33</td>
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<tr>
<td>Floyd</td>
<td>33</td>
<td>Leslie</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harlan</td>
<td>30</td>
<td>Letcher</td>
<td>33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All other KY Counties</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>
### SECTION R404
FOUNDATION AND RETAINING WALLS

#### TABLE R404.1.2 (8)
MINIMUM VERTICAL REINFORCEMENT FOR 6-, 8-, 10-INCH AND 12-INCH NOMINAL FLAT BASEMENT WALLS

<table>
<thead>
<tr>
<th>MAXIMUM WALL HEIGHT (feet)</th>
<th>MINIMUM VERTICAL REINFORCEMENT-BAR SIZE AND SPACING (inches)</th>
<th>Soil classes(a) and design lateral soil (psf per foot of depth)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GW, GP, SW, SP 30</td>
<td>GM, GC, SM, SM-SC and ML 45</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>4</td>
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<tr>
<td></td>
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</tr>
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<td>4</td>
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<tr>
<td></td>
<td>9</td>
<td>NR</td>
</tr>
</tbody>
</table>

\(a\) Minimum nominal wall thickness (inches)
NR = Not required.

a. Soil classes are in accordance with the Unified Soil Classification System. Refer to Table R405.1.
b. Table values are based on reinforcing bars with a minimum yield strength of 60,000 psi.
c. Vertical reinforcement with a yield strength of less than 60,000 psi and/or bars of a different size than specified in the table are permitted in accordance with Section R404.1.2.3.7.6 and Table R404.1.2(9).
d. NR indicates no vertical wall reinforcement is required, except for 6-inch nominal walls formed with stay-in-place forming systems in which case vertical reinforcement shall be #4 @ 48 inches on center.
e. Allowable deflection criterion is L/240, where L is the unsupported height of the basement wall in inches.
f. Interpolation is not permitted.
g. Where walls will retain 4 feet or more of unbalanced backfill, they shall be laterally supported at the top and bottom before backfilling.
h. Vertical reinforcement shall be located to provide a cover of 1.25 inches measured from the inside face of the wall. The center of the steel shall not vary from the specified location by more than the greater of 10 percent of the wall thickness or 1/8-inch.
i. Concrete cover for reinforcement measured from the inside face of the wall shall not be less than 1/4-inch. Concrete cover for reinforcement measured from the outside face of the wall shall not be less than 1 1/2 inches for No. 5 bars and smaller, and not less than 2 inches for larger bars.
j. DR means design is required in accordance with the applicable building code, or where there is no code in accordance with ACI 318.
k. Concrete shall have a specified compressive strength, f′c, of not less than 2,500 psi at 28 days, unless a higher strength is required by footnote l or m.
l. The minimum thickness is permitted to be reduced 2 inches, provided the minimum specified compressive strength of concrete, f′c, is 4,000 psi.
m. A plain concrete wall with a minimum nominal thickness of 12 inches is permitted, provided minimum specified compressive strength of concrete, f′c, is 3,500 psi.
n. See Table R608.3 for tolerance from nominal thickness permitted for flat walls.
o. The use of this table shall be prohibited for soil classifications not shown.
p. For a minimum 8-inch thick concrete wall with a minimum specified strength of concrete f′c of 3000 psi, no wall reinforcement is required.
q. For a minimum 10 inch thick concrete wall with a minimum specified strength of concrete f′c 3000 psi, no wall reinforcement is required.

### Table R404.1.5.2 Concrete wall thickness

<table>
<thead>
<tr>
<th>Backfill H</th>
<th>6 @ 38</th>
<th>5 @ 41</th>
<th>NR</th>
<th>6 @ 33</th>
<th>6 @ 38</th>
<th>5 @ 37a</th>
<th>NR</th>
<th>6 @ 24</th>
<th>6 @ 29</th>
<th>6 @ 39</th>
<th>4 @ 48m</th>
</tr>
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<tbody>
<tr>
<td>8</td>
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<td>6</td>
<td>5 @ 48</td>
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<td>7</td>
<td>6 @ 47</td>
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<td>8</td>
<td>6 @ 34</td>
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<td>6 @ 27</td>
<td>6 @ 35</td>
<td>4 @ 48m</td>
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<td>6 @ 45</td>
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<td>6 @ 29</td>
<td>6 @ 38</td>
<td>DR</td>
<td>6 @ 22</td>
<td>6 @ 22</td>
</tr>
</tbody>
</table>

For SI: 1 foot = 304.8 mm; 1 inch = 25.4 mm; 1 pound per square foot per foot = 0.1571 kPa²/m, 1 pound per square inch = 6.895 kPa.
Vertical reinforcement for the foundation wall shall be based on Table R404.1.2 (8) and located in the wall as required by Section R404.1.3.3.7.2 where that table is used. Vertical reinforcement shall be based on the thickness of the thinner portion of the wall.

Exceptions:

1. Where the height of the reduced thickness portion measured to the underside of the floor assembly or sill plate above is less than or equal to 24 inches (610 mm) and the reduction in thickness does not exceed 4 inches (102 mm), the vertical reinforcement is permitted to be based on the thicker portion of the wall.

2. Concrete foundation walls with a brick drop stem wall and located within Jefferson, Bullitt, Oldham, Spencer, and Shelby counties which are known to have soil with sufficient stiffness, shall be permitted to comply with Figure R404.1.5. In seismic Design Categories D₀, D₁, and D₂, concrete foundation walls shall also comply with Section R404.1.4.

R404.1.9.2 Masonry piers supporting floor girders. Masonry piers supporting wood girders sized in accordance with Tables R602.7 (1) and R602.7 (2) shall be permitted in accordance with this section. Piers supporting girders for interior bearing walls shall have a minimum nominal dimension of 12 inches (305 mm) and a maximum height of 10 feet (3048 mm) from top of footing to bottom of sill plate or girder. Piers supporting girders for exterior bearing walls shall have a minimum nominal dimension of 12 inches (305 mm) and a maximum height of 4 feet (1220 mm) from top of footing to bottom of sill plate or girder. Girders and sill plates shall be anchored to the pier or footing in accordance with Section R403.1.6 or Figure R404.1.5 (1). Floor girder bearing shall be in accordance with Section R502.6.

Exception: Interior piers shall not be required to be anchored to girders unless required by an engineered design.
CHAPTER 5
FLOORS

SECTION R502
WOOD FLOOR FRAMING

R502.6 Bearing. The ends of each joist, beam, or girder shall have not less than 1.5 inches (38 mm) of bearing on wood or metal and not less than 3 inches (76 mm) on masonry or concrete except where supported on a 1-inch by 4-inch (25.4 mm by 102 mm) ribbon strip and nailed to the adjacent stud or by the use of approved joist hangers. The bearing on masonry or concrete shall be direct, or a sill plate of 2-inch minimum (51 mm) nominal thickness shall be provided under the joist, beam or girder. The sill plate shall provide a minimum nominal bearing area of 48 square inches (30865 square mm). A shim of metal or 1-inch nominal hardwood shall be acceptable to fill the void between joist, beam or girder and sill plate.

Steel columns, posts, and beams must be erected and installed according to manufacturer’s instructions (if applicable). Unless otherwise listed and approved for specific use, nail/fram gun applications are prohibited in the installation of steel columns, posts, and beams (flanges and right angle clips) in residential construction. Anchors of proper size and strength (no less than ½ inch or according to the manufacturer’s instructions) must be used and installed for the correct number of holes in each base plate or clip. All clips and column or post plates must be welded to the beam(s) by a weld in accordance with AISC 360 across the full width of two or more sides, or secured with at least two[.] 1/2 inch diameter bolts for columns or posts weighting 300 pounds or less, and four 1/2 inch diameter bolts for all other cases.

R502.9 Fastening. Floor framing shall be nailed in accordance with Table R602.3 (1). Where post and beam or girders construction is used to support framing, positive connections shall be provided to ensure against uplift and lateral displacement. The fastening of steel columns, posts, and beams shall be in accordance with the manufacturer’s installation instructions or in accordance with Table R602.3 (1).

SECTION R507
EXTERIOR DECKS

R507.2.2 Alternate deck ledger connections. Deck ledger connections not conforming to Table R507.2 shall be designed in accordance with accepted engineering practice. Girders supporting deck joists shall not be supported on deck ledgers or band joists. Deck ledgers shall not be supported on stone or masonry veneer unless specifically designed by a design professional, or supported by an approved listed and labeled fastening method.
CHAPTER 6
WALL CONSTRUCTION

SECTION R602
WOOD WALL FRAMING

R602.12 Simplified Wall Bracing. A prescriptive alternative for braced wall compliance with this code shall follow the requirements established in this section. All one- and two-family dwellings and townhouses located in a Seismic Design Category A, B, and C as constructed through the prescriptive allowance of the adopted code and are sheathed entirely on the exterior of the structure with one of the following approved methods:

1. Wood structural panels conforming to R602.1.8, being a minimum 7/16-inch thick and fastened with the wood structural panel fastening schedule in Table R602.3 (1) or Table R602.3 (2).

2. Any Alternate Structural Method, having been evaluated by an ANSI/ACLASS ISO 17065 agency and demonstrating structural performance under lateral load conditions (wind and seismic) for use as an alternative to the Kentucky Residential Code Intermittent Wall Bracing provisions of Section R602.10 method WSP. The Alternate Structural Method must have a current Evaluation Report sealed by a Kentucky licensed Design Professional.

Either of the two methods shall be considered compliant with Sections R602.10 and R602.12 outlining prescriptive and braced wall requirements. All one and two family dwellings and townhouses located in Seismic Design Category D, D0, D1, and D2 shall be constructed per the prescriptive allowances as outlined in Sections R602.10 and R602.12.
CHAPTER 7
WALL COVERING

SECTION R703

EXTERIOR COVERING
## TABLE R703.8.4
**TIE ATTACHMENT AND AIR SPACE REQUIREMENTS**

<table>
<thead>
<tr>
<th>BACKING AND TIE</th>
<th>MINIMUM TIE</th>
<th>MINIMUM TIE FASTENER</th>
<th>AIR SPACE</th>
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<tr>
<td>Wood stud backing with corrugated sheet metal</td>
<td>22 U.S. gage (0.0299 in.) × 7/8 in. wide</td>
<td>8d common nail&lt;sup&gt;b,c&lt;/sup&gt; (2 1/2 in. × 0.131 in.)</td>
<td>Nominal 3/4 in. between sheathing and veneer</td>
</tr>
<tr>
<td>Wood stud backing with metal strand wire</td>
<td>W1.7 (No. 9 U.S. gage; 0.148 in.) with hook embedded in mortar joint</td>
<td>8d common nail&lt;sup&gt;b,c&lt;/sup&gt; (2 1/2 in. × 0.131 in.)</td>
<td>Minimum nominal 3/4 in. between sheathing and veneer</td>
</tr>
<tr>
<td>Cold-formed steel stud backing with adjustable metal strand wire</td>
<td>W1.7 (No. 9 U.S. gage; 0.148 in.) with hook embedded in mortar joint</td>
<td>No. 10 screw extending through the steel framing a minimum of three exposed threads</td>
<td>Minimum nominal 3/4 in. between sheathing and veneer</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm.

**a.** In Seismic Design Category D<sub>0</sub>, D<sub>1</sub>, or D<sub>2</sub>, the minimum tie fastener shall be an 8d ring-shank nail (2 1/2 in. × 0.131 inch) or a No. 10 screw extending through the steel framing a minimum of three exposed threads.

**b.** All fasteners shall have rust-inhibitive coating suitable for the installation in which they are being used, or be manufactured from material not susceptible to corrosion.

**c.** All Fasteners shall penetrate a stud or wood structural panel.
SECTION R905
REQUIREMENTS FOR ROOF COVERINGS

R905.2.8.5 Drip edge. A drip edge shall be provided at eaves and gables of shingle roofs. Adjacent pieces of drip edge shall be overlapped a minimum of 2 inches (51 mm). Drip edges shall extend a minimum of 0.25 inch (6.4 mm) below the roof sheathing and extend up the roof deck a minimum of 2 inches (51 mm). Drip edges shall be mechanically fastened to the roof deck at a maximum of 12 inches (305 mm) on center with fasteners as specified in Section R905.2.5. Underlayment shall be installed over the drip edge along eaves and under the drip edge on gables. Alternate methods to the standard metal drip edge may include site formed coil stock that creates a drip line as intended by the code. Wood, composite, and manufactured trim installed on the fascia shall create a drip line to prevent water from running back under the shingles, which will meet the requirements of the drip edge.
CHAPTER 11
ENERGY EFFICIENCY

SECTION N1101
GENERAL

N1101.1 Scope. This chapter regulates the energy efficiency for the design and construction of buildings regulated by the 2009 International Energy Conservation Code.

N1101.2 Compliance. Compliance shall be demonstrated by meeting the requirements of the International Energy Conservation Code and Sections N1101.2.1 and N1101.2.2 of this code where applicable.

N1101.2.1 Basement walls. Walls associated with basements that make up the building thermal envelope shall be insulated from the inside or outside of the basement wall from the top of the basement wall below grade to the design frost depth in accordance with Section R403.1.4. Walls associated with unconditioned basements shall meet this requirement unless the floor overhead is insulated in accordance with Sections 402.1.1 and 402.2.6 of the 2009 International Energy Conservation Code.

N1101.2.2 Slab on grade floors. Slab on grade floors constructed in accordance with Figure N1101.2.2 shall be permitted as an alternative insulation method.
Figure N1101.2.2
Alternative insulation method for slab on grade floors
CHAPTER 13
GENERAL MECHANICAL SYSTEM REQUIREMENTS

SECTION M1301
GENERAL

M1301.1. Scope. The provisions of this chapter shall govern the installation of mechanical systems not specifically covered in other chapters applicable to mechanical systems. Installation of mechanical appliances, equipment, and systems not addressed by this code shall comply with the applicable provisions of the International Mechanical Code and NFPA 54 National Fuel Gas Code.

SECTION M1305
APPLIANCE ACCESS

M1305.1 Appliance access for inspection service, repair, and replacement. Appliances shall be accessible for inspection, service, repair, and replacement without removing permanent construction, other appliances, or any other piping or ducts not connected to the appliance being inspected, serviced, repaired, or replaced. A level working space not less than 30 inches deep and 30 inches wide (762 mm by 762 mm) shall be provided in front of the control side to service an appliance.

Exception: Structural members located within the 30-inch by 30-inch work space shall be acceptable if it does not impede serviceability of the appliance.

M1305.1.3 Appliances in attics. Attics containing appliances shall be provided with an opening and a clear and unobstructed passageway large enough to allow removal of the largest appliance, but not less than 30 inches (762 mm) high and 22 inches (559 mm) wide and not to exceed half the length of the structure from the opening to the appliance. The passageway shall have continuous solid flooring in accordance with Chapter 5 not less than 24 inches (610 mm) wide. A level service space not less than 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present along all sides of the appliance where access is required. The clear access opening dimensions shall be not less than of 20 inches by 30 inches (508 mm by 762 mm), and large enough to allow removal of the largest appliance.

Exceptions:

1. The passageway and level service space are not required where the appliance can be serviced and removed through the required opening.
2. Where the passageway is unobstructed and not less than 6 feet high (1929 mm) and 22 inches (559 mm) wide for its entire length, the passageway shall be not more than 50 feet (15 250 mm) long.

M1305.1.4 Appliances under floors. Underfloor spaces containing appliances shall be provided with an unobstructed passageway large enough to remove the largest appliance, but not less than 30 inches (762 mm) high and 22 inches (559 mm) wide, nor more than half the length of the structure from the opening to the appliance. A level service space not less than 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the appliance. If the depth of the passageway or the service space exceeds 12 inches (305 mm) below the adjoining grade, the walls of the passageway shall be lined with concrete or masonry extending 4 inches (102 mm) above the adjoining grade in accordance with Chapter 4. The rough-framed access opening dimensions shall be not less than 22 inches by 30 inches (559 mm by 762 mm), and large enough to remove the largest appliance.

Exceptions:

1. The passageway is not required where the level service space is present when the access is open, and the appliance can be serviced and removed through the required opening.
2. Where the passageway is unobstructed and not less than 6 feet high (1929 mm) and 22 inches (559 mm) wide for its entire length, the passageway shall not be limited in length.
CHAPTER 14
HEATING AND COOLING EQUIPMENT AND APPLIANCES

SECTION M1403
HEAT PUMP EQUIPMENT

M1403.1 Heat pumps. Electric heat pumps shall be listed and labeled in accordance with UL 1995 or UL/CSA/ANCE 60335-2-40 and installed in accordance with the manufacturer’s installation instructions.

SECTION M1411
HEATING AND COOLING EQUIPMENT

M1411.8 Locking access port caps. Section M1411.8 shall be DELETED in its entirety.

SECTION M1416
MINI-SPLIT HEAT PUMPS

M1416.1 General. Mini-split heat pumps shall be installed in accordance with Section R303.9 and the manufacturer’s installation instructions.
CHAPTER 15
EXHAUST SYSTEMS

SECTION M1502
CLOTHES DRYER EXHAUST

M1502.4.1.1 Alternate Material and installation. Clothes dryer exhaust ducts are permitted to be made of PVC and CPVC plastic provided they shall be a nominal 4 inches in diameter. The alternate material shall only be installed below a slab on grade floor and backfilled with sand or gravel. Each dryer exhaust duct joint shall be secured with PVC or CPVC solvent glue and each joint shall provide a smooth interior finish. The maximum installed exhaust duct length shall conform to Section M1502.4.4.1 and labeled in accordance with Section M1502.4.5. The dryer exhaust duct shall be installed to provide positive drainage to the termination and shall not permit the collection of condensate. The exhaust duct shall only extend a maximum of 1 inch above the slab on grade floor for connection to the appliance.

M1502.4.4.1 Accessibility and identification. Dryer exhaust duct power ventilators shall be accessible for inspection, service, repair, and replacement without removing permanent construction and identified on a permanent label or tag at the appliance or access door to the appliance. A permanent label or tag giving notification to the occupant of the use of a dryer exhaust duct power ventilator shall be located within 6 feet (1829 mm) of the dryer.

SECTION M1503
RANGE HOODS

M1503.2 Duct material. Ducts serving range hoods shall be constructed of galvanized steel, stainless steel, copper, or other manufacturer approved material.

Exception: Ducts for domestic kitchen cooking appliances equipped with down-draft exhaust systems shall be permitted to be constructed of schedule 40 PVC pipe and fittings provided that the installation complies with all of the following:

1. The duct is installed under a concrete slab poured on grade;
2. The underfloor trench in which the duct is installed is completely backfilled with sand or gravel;
3. The PVC duct extends not more than 1 inch (25 mm) above the indoor concrete floor surface;
4. The PVC duct extends not more than 1 inch (25 mm) above grade outside of the building; and
5. The PVC ducts are solvent cemented.

M1503.4 Makeup air required. Exhaust hood systems capable of exhausting in excess of 400 cubic feet per minute (0.19 m³/s) shall be mechanically or naturally provided with makeup air at a rate approximately equal to the exhaust air rate. Such makeup air systems shall be equipped with not less than one damper. Each damper shall be an electrically operated damper that automatically opens when the exhaust system operates. Dampers shall be accessible for inspection, service, repair, and replacement without removing permanent construction or any other ducts not connected to the damper being inspected, serviced, repaired, or replaced.
CHAPTER 16
DUCT SYSTEMS

SECTION M1601
DUCT CONSTRUCTION

M1601.4.1 Joints, seams, and connections. Longitudinal and transverse joints, seams, and connections in metallic and nonmetallic ducts shall be constructed as specified in SMACNA HVAC Duct Construction Standards—Metal and Flexible and NAIMA Fibrous Glass Duct Construction Standards. Longitudinal and transverse joints, seams, and connections in ductwork shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric systems, liquid sealants, or tapes. Tapes and mastics used to seal fibrous glass ductwork shall be listed and labeled in accordance with UL 181A and shall be marked “181A-P” for pressure-sensitive tape, “181 A-M” for mastic or “181 A-H” for heat-sensitive tape.

Tapes and mastics used to seal flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked “181 B-FX” for pressure-sensitive tape or “181 BM” for mastic. Duct connections to flanges of air distribution system equipment shall be sealed and mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked 181B-C. Crimp joints for round metallic ducts shall have a contact lap of not less than 1 inch (25 mm) and shall be mechanically fastened by means of not less than three sheet-metal screws or rivets equally spaced around the joint.

Closure systems used to seal all ductwork shall be installed in accordance with the manufacturer’s instructions.

Exceptions:
1. Spray polyurethane foam shall be permitted to be applied without additional joint seals.
2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint, so as to prevent a hinge effect.
3. Continuously welded and locking-type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500 Pa) pressure classification shall not require additional closure systems.
CHAPTER 17
COMBUSTION AIR

Chapter 17 Combustion Air. Chapter 17 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 18
CHIMNEYS AND VENTS

Chapter 18 Chimneys and Vents. Chapter 18 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 19
SPECIAL APPLIANCES, EQUIPMENT AND SYSTEMS

Chapter 19 Special Appliances, Equipment and Systems. Chapter 19 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 20
BOILERS AND WATER HEATERS

Chapter 20 Boilers and Water Heaters. Chapter 20 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 24
FUEL GAS

Chapter 24 Fuel Gas. Chapter 24 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 25
PLUMBING ADMINISTRATION

Chapter 25 Plumbing Administration. Chapter 25 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 26
GENERAL PLUMBING REQUIREMENTS

Chapter 26 General Plumbing Requirements. Chapter 26 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 27
PLUMBING FIXTURES

Chapter 27 Plumbing Fixtures. Chapter 27 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 28
WATER HEATERS

Chapter 28 Water Heaters. Chapter 28 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 29
WATER SUPPLY AND DISTRIBUTION

Chapter 29 Water Supply and Distribution. Chapter 29 of the 2015 IRC shall be DELETED except for Section P2904 Dwelling Unit Fire Sprinkler Systems.

CHAPTER 30
SANITARY DRAINAGE

Chapter 30 Sanitary Drainage. Chapter 30 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 31
VENTS

Chapter 31 Vents. Chapter 31 of the 2015 IRC shall be DELETED in its entirety.
CHAPTER 32
TRAPS

Chapter 32 Traps. Chapter 32 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 33
STORM DRAINS

Chapter 33 Storm Drains. Chapter 33 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 34
GENERAL REQUIREMENTS

Chapter 34 General Requirements. Chapter 34 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 35
ELECTRICAL DEFINITIONS

Chapter 35 Electrical Definitions. Chapter 35 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 36
SERVICES

Chapter 36 Services. Chapter 33 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 37
BRANCH CIRCUIT AND FEEDER REQUIREMENTS

Chapter 37 Branch Circuit and Feeder Requirements. Chapter 37 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 38
WIRING METHODS

Chapter 38 Wiring Methods. Chapter 38 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 39
POWER AND LIGHTING DISTRIBUTION

Chapter 39 Power and Lighting Distribution. Chapter 39 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 40
DEVICES AND LUMINAIRES

Chapter 40 Devices and Luminaires. Chapter 40 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 41
APPLIANCE INSTALLATION

Chapter 41 Vents. Chapter 41 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 42
SWIMMING POOLS

Chapter 42 Swimming Pools. Chapter 42 of the 2015 IRC shall be DELETED in its entirety.

CHAPTER 43
CLASS 2 REMOTE-CONTROL, SIGNALING AND POWER-LIMITED CIRCUITS

Chapter 43 Class 2 Remote-Control, Signaling and Power-Limited Circuits. Chapter 43 of the 2015 IRC shall be DELETED in its entirety.
## AWC
American Wood Council  
222 Catocin Circle, Suite 201  
Leesburg, VA 20175

<table>
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<th>Standard Reference Number</th>
<th>Title</th>
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<td>AWC PRWDC6---2012</td>
<td>Prescriptive Residential Wood Deck Construction guide</td>
<td>R301.1.1</td>
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## ANSI
American National Standards Institute  
25 West 43rd Street 4th Floor  
New York NY 10036

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<td>ANSI/NSPI 3-99</td>
<td>Standard for Permanently Installed Residential Spas</td>
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<td>Standard for Residential In-ground Swimming Pools</td>
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<td>ANSI/APSP 7-06</td>
<td>Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs And Catch Basins</td>
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## ASTM
ASTM International  
100 Barr Harbor Drive  
West Conshohocken PA 19428

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### KY CODES
Department of Housing, Buildings and Construction
101 Sea Hero Road, Suite 100
Frankfort, Kentucky 40601-5412

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### FEMA
Federal Emergency Management Agency
500C. Street SW
Washington, D.C. 20472

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### ICC
International Code Council, Inc.
500 New Jersey Avenue, NW
6th Floor
Washington, DC 20001

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### NFBA
National Frame Builders Association
8735 W Higgins Road suite 300
Chicago IL 60631

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