

Sec. 4-33. - Amendments to the International Residential Code.

INTERNATIONAL RESIDENTIAL CODE FOR ONE-AND TWO-FAMILY DWELLINGS 2018

CHAPTER 1 ADMINISTRATION

Section R101 *Title*, is amended and shall read as follows:

101.1 *Title* These provisions shall be known as the Residential Code for One and Two-family Dwellings of the CITY OF WILMINGTON and shall be cited as such and will be referred to herein as "this code."

Section R103 Department of Building Safety, is amended by deleting section R103.1, R103.2, R103.3 and refer to Section 103 of the International Building Code 2018

The following section shall replace Sections R106.1 through R106.2 of the 2018 International residential Code:

Section R106.1 Minimum Design Requirements for Residential Documents

The construction documents for any one and two-family dwelling and all residential additions shall include, but are not limited to:

1. Plans must be drawn to scale. Plans shall be no smaller than 11" X 17" and no larger than 30" X 48". The Building Official shall have the authority to reject plans based on size and/or legibility of the construction documents. Two or more sets of plans shall be submitted with the permit application signed and dated by the applicant. Where special conditions exist, the Building Official is authorized to require additional construction documents to be prepared by registered Delaware design professional.
2. All braced wall lines, shall be identified on the construction documents and all pertinent information including, but not limited to, bracing methods, location and length of braced wall panels, foundation requirements of braced wall panels at top and bottom, and braced wall panel uplift load path design shall be provided.
3. *Exterior wall envelope*. Construction documents for all buildings shall describe the exterior wall envelope in sufficient detail to determine compliance with this Code. The construction documents shall provide details of the exterior wall envelope, including windows, doors, flashing, intersections with dissimilar materials, corners, end details, control joints, intersections at roof, eaves, or parapets, means of drainage, water resistive membrane, and details around openings. The construction documents shall include manufacturing installation instructions that provide supporting documentation that the proposed penetration and opening details described in the construction documents maintain the wind and the weather resistance of the exterior wall envelope. The supporting documentation shall fully describe the exterior wall system that shall be tested, where applicable, as well as the test procedure used.

Approval of Construction Documents. Where the Building Official issues a permit, the construction documents shall be approved in writing or by a stamp signed and dated by the Plans Examiner, including the assigned permit number. One set of signed stamped approved construction documents shall be returned to the applicant, and shall be kept at the site of work and shall be open to inspection by the building official or a duly authorized representative.

Amended Construction Documents. Work shall be installed in accordance with the approved construction documents, and any changes made during construction that are not in compliance with the approved construction documents shall be resubmitted for approval as an amended set of construction documents and may require a new permit issued for approval.

Site plan. The construction documents submitted with the application for permit shall be accompanied by two (2) sets of a site plan, or in an electronic format as required by the Building Official, showing to scale the size and location of new construction and existing structures on the site, distances from lot lines, the established street grades and the proposed finished grades. The site plan 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. All site plans shall be dated including the date of any and all revisions.

A plot or mortgage survey plan bearing the seal of a Delaware registered land surveyor or professional engineer will be accepted to accommodate structures under four hundred eighty (480) square feet, however applications for in-ground pools must be accompanied by a site plan regardless of pool size.

Minimum design requirements for swimming pools. Construction documents shall accurately show dimensions and construction of the pool and appurtenances and properly established distances to lot lines, buildings, walks and fences, as well as details of the water supply system, drainage and water disposal systems, and all appurtenances and properly established distances to lot lines, buildings, walks and fences, as well as details of the water supply system, drainage and water disposal systems, and all appurtenances pertaining to the swimming pool. Detailed construction documents of structures, vertical elevations and sections through pool showing depth shall be included.

CHAPTER 3 BUILDING PLANNING

Section R301.2.1 Wind design criteria, is amended by completing Table R301.2(1)

TABLE R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND SPEED (mph)	SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE SHIELD UNDERLAYMENT REQUIRED	FLOOD HAZARD	AIR FREEZING INDEX	MEAN ANNUAL TEMP
			WEATHERING	FROST LINE DEPTH	TERMITE					
25	90/115	B	SEVERE	32"	MODERATE TO HEAVY	15	YES		YES	54.4 54 DEG F

Section 302 Fire Resistant Construction is amended by adding Section 302.1.2 Type of Construction; Section 302.1.4 Bay Windows.

Section R302. Fire Resistant Construction. Section R302.1 Exterior Walls is amended to clarify the definition of a projection, and to remove the reference to Section P2904, and shall read as follows:

Section 302.1 Exterior Walls. Construction, projections including exterior decks and balconies, openings and penetrations of exterior walls of dwellings and accessory buildings shall comply with Table R302.1(1) ; or Table R302.1(2) dwellings equipped throughout with an automatic sprinkler system which has been approved by the authority having jurisdiction.

Section R302.1.2 Bay Windows Bay or oriel windows shall be built of Type 5A on residential structures of R-3 (One and Two Family Dwellings). Such windows shall not exceed 14 feet in length and not project beyond the exterior wall line more than three feet. Such windows shall not be nearer than three feet from party lot lines, nor shall any two such windows on the same story be built nearer than five feet to each other.

Section R302.2.4 Parapets for townhouses. Deleted in its entirety, this section is not applicable in The City of Wilmington since Type 5B construction is prohibited. The minimum Construction Type is Type 5A Construction requiring one-hour Fire Resistance Rated roof construction and associated secondary members.

Section R302.15 TYPE OF CONSTRUCTION. Type 5B construction is prohibited in the City of Wilmington (including any references to Type 5B Construction in the International Building Code Table 601). Follow the IBC Tables 601 and 602 for design criteria for Construction Type 5A and greater.

Section R312.1.3.1 Opening Limitations. Required guards shall not have openings which allow passage of a sphere 4 inches (102 mm) in diameter from the walking surface to the required guard height. Required guards shall not be constructed with horizontal rails or other ornamental patterns that results in a ladder effect in Group R-1, R-2, R-3, R-4, E, I-2 and Type I-4 occupancies.

Section R313 Automatic Fire Sprinkler Systems is deleted in its entirety and replaced with the following Section R313.

Automatic Sprinkler system. Group R-3 occupancies, defined and regulated by the International Residential Code as detached one and two family dwellings and townhouses not more than three stories above grade plane in height with a separate means of egress per dwelling, are exempt from the requirement to install an automatic fire sprinkler system. Group R-1, R-2, R-3, R-4 dwelling units located within and a part of mixed use commercial buildings and regulated by the International Building Code are not exempted from the Group R sprinkler requirement.

Congregate living facilities, such as boarding houses, lodging houses, care facilities, dormitories, fraternities, sororities, apartment houses of two or more units classified as R-3 and mixed use occupancy buildings containing any Group R with any other Occupancy Use are not exempted from the automatic sprinkler requirement.

CHAPTER 28 WATER HEATER

Section P2801 General, is amended by adding the following subsection P2801.9 and shall read as follows:

Section (IRC) P2801.9 Material. When non-metallic water distribution pipe is being used, the first 18 inches (457 mm) of both hot and cold water lines shall be non-flexible metallic pipe as listed in Table P2905.5 of the International Residential Code.

Section P2804.6.1 Requirements for discharge pipe, is amended by revising #13 and shall read as follows:

P2804.6.1 Requirement for discharge pipe. The discharge piping serving a pressure-relief valve, temperature-relief valve or combination valve shall:

13. Be constructed of rigid metallic piping only

CHAPTER 29 WATER SUPPLY AND DISTRIBUTION

Section P2904 Dwelling Unit Fire Sprinkler Systems (equivalent to NFPA 13D) shall be deleted in its entirety. The minimum Sprinkler system design accepted for installation by the City of Wilmington, is NFPA 13R as referenced in the International Building Code Section 903.3.1.2.

CHAPTER 31 VENTS

Section P3103.1.1 Roof Extension is amended by revising the minimum extension of 6 inches to 12 inches and shall read as follows:

P3103.1.1 Roof Extension. Open vent pipes that extend through a roof that do not meet the conditions of Section P3103.1.2 or P3103.1.3 shall terminate not less than 12 inches above the roof.

SECTION P3114

AIR ADMITTANCE VALVE

Section P3114.3 Where Permitted is amended to exclude branch vents, circuit vents, combination waste and vent systems and stack vents and shall read as follows. Individual vents shall be permitted to terminate with a connection to an air admittance valve. Individual air admittance valves shall vent only single fixtures.