

Sec. 18-3. International Energy Conservation Code – Adopted and Amended.

(A) A certain document, one copy of which is on file in the City Clerk’s Office of the City of Peoria, being marked and designated as “International Energy Conservation Code, 2015 2018 Edition,” published by the International Code Council is hereby adopted, as amended herein, as the Energy Code of the City of Peoria.

(B) The International Energy Conservation Code, 2015 2018 Edition, is amended as follows:

- (1) Chapter 1 [CE], “Scope and Administration” is hereby amended as follows:

Note: For sections designated “RESERVED” herein, refer to the Building Code of the City of Peoria for these code requirements.

**C101.2 Scope.** This code applies to *commercial buildings* and the building sites and associated systems and equipment. *Group R-2, when defined as a commercial building by Section C202, shall have the option of complying under the Residential Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the Residential Provisions shall be followed.*

**Section C102 ALTERNATIVE MATERIALS, DESIGN AND METHODS OF CONSTRUCTION AND EQUIPMENT – Reserved**

~~**C102.1 General.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design or method of construction shall be approved where the code official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety. Where the alternative material, design or method of construction is not approved, the code official shall respond in writing, stating the reasons why the alternative was not approved.~~

~~**C102.1.1 Above code programs.** The code official or other authority having jurisdiction shall be permitted to deem a national, state or local energy efficiency program to exceed the energy efficiency required by this code. Buildings approved in writing by such an energy efficiency program shall be considered to be in compliance with this code. The requirements identified as “mandatory” in Chapter 4 shall be met.~~

**Part 2 – Administration and Enforcement**

**Section C103 Construction Documents RESERVED**

**C103.3 Examination of documents** RESERVED

**C103.3.1 Approval of construction documents.** RESERVED

**C103.3.2 Previous approvals.** RESERVED

**C103.3.3 Phased Approval.** RESERVED

**C103.3.4 Amended construction documents.** RESERVED

**C103.3.5 Retention of construction documents** RESERVED

**Section C104 Inspections Fees** RESERVED.

**Section C105 Validity Inspections** RESERVED.

**Section ~~C107 Fees~~ C106 Validity** RESERVED

**Section C108 Stop Work Orders** RESERVED.

**Section C109 Board of Appeals** RESERVED.

(2) Chapter 4 [CE], "Commercial Energy Efficiency" is hereby amended as follows:

**C401.2 Application.** Commercial buildings shall comply with one of the following:

1. The requirements of ANSI/ASHRE/IESNA 90.1
2. The requirements of Sections C402 through C405 and ~~C408~~. In addition, commercial buildings shall comply with Section C406 and tenant spaces shall comply with Section C406.1.1.
3. The requirements of Sections C402.5, C403.2, C403.3 through C403.3.2, C403.4 through C403.4.2.3, C403.5.5, C403.7, C403.8.1 through C403.8.4, C403.10.1 through C403.10.3, C403.11, C403.12, C404, C405, and C407 and ~~C408~~. The building energy cost shall be equal or less than 85 percent of the standard reference design building.
4. Compliance with the provisions of Section C408 are optional.

**C408.3 Functional testing of lighting controls.**

Automatic lighting controls required by this code shall comply with this section.

**C408.3.1 Functional testing.**

Prior to ~~passing~~ final inspection, ~~the registered design professional~~ a preliminary report of commissioning test procedures and results shall be completed and certified by the registered design professional or approved agency and provided to the building owner or owner's authorized agent. The report shall be identified as "Preliminary Commissioning Report - Lighting," and shall be provided to the *code official* from the building owner or owner's authorized agent. The preliminary report shall include the completed Commissioning Compliance Checklist, Figure C408.2.4, and shall identify:

1. Itemization of deficiencies found during testing required by this section that have not been corrected at the time of report preparation.
2. Deferred tests that cannot be performed at the time of report.

3. Schedule of when deferred tests will be performed.
4. Results of functional performance tests.
5. Functional performance test procedures used during the commissioning process, including measurable criteria for test acceptance.

The preliminary and final commissioning reports shall provide evidence that the lighting control systems have been tested to ensure that control hardware and software are calibrated, adjusted, programmed and in proper working condition in accordance with the construction documents and manufacturer's instructions. Functional testing shall be in accordance with Sections C408.3.1.1 through C408.3.1.3 for the applicable control type.

(3) Chapter 1 [RE], "Scope and Administration" is hereby amended as follows:

**R101.2 Scope.** This code applies to *commercial buildings* and the building sites and associated systems and equipment. Group R-2, when defined as a residential building by Section R202, shall have the option of complying under the Commercial Provisions of the code, regardless of height. Once defined as such on the submittal documents, all components of the Commercial Provisions shall be followed.

## **Section C102 ALTERNATIVE MATERIALS, DESIGN AND METHODS OF CONSTRUCTION AND EQUIPMENT**

~~**R102.1 General.** RESERVED—The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design or method of construction shall be approved where the code official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety. Where the alternative material, design or method of construction is not approved, the code official shall respond in writing, stating the reasons why the alternative was not approved.~~

~~**R102.1.1 Above code programs.** RESERVED—The code official or other authority having jurisdiction shall be permitted to deem a national, state or local energy efficiency program to exceed the energy efficiency required by this code. Buildings approved in writing by such an energy efficiency program shall be considered to be in compliance with this code. The requirements identified as "mandatory" in Chapter 4 shall be met.~~

**R102.1.2 RESNET Testing & Inspection Protocol.** The Residential Energy Services Network (RESNET) Mortgage Industry National Home Energy Rating System Standard Protocol for third party testing and inspections, shall be deemed to meet the requirements of Sections R402.4.1.1, R402.4.1.2, and R403.3.2 and shall meet the following conditions:

1. Third Party Testing and Inspections shall be completed by RESNET certified Raters or Rating Field Inspectors and shall be subject to RESNET Quality Assurance Field Review procedures.
2. Sampling in accordance with Chapter 6 of the RESNET Standards shall be performed by Raters or Rating Field Inspectors working under a RESNET Accredited Sampling Provider.
3. Third Party Testing is required for the following items:
  - a. R402.4.1.1 – Building Envelope – Thermal and Air Barrier Checklist
  - b. R404.4.1.2 – Testing – Air Leakage Rate
  - c. R403.3.2 – Sealing – Duct Tightness
4. The other requirements identified as “mandatory” in Chapter 4 shall be met.
5. Alternate testing and inspection programs and protocols shall be allowed when approved by the Code Official.

**~~Section R103 Construction Documents~~ RESERVED**

**R103.3 Examination of documents RESERVED**

**R103.3.1 Approval of construction documents. RESERVED**

**R103.3.2 Previous approvals. RESERVED**

**R103.3.3 Phased Approval. RESERVED**

**R103.3.4 Amended construction documents. RESERVED**

**R103.3.5 Retention of construction documents RESERVED**

**Section R104 Inspections Fees RESERVED.**

**Section R105 Validity Inspections RESERVED.**

**Section R107 Fees R106 Validity RESERVED.**

**Section R108 Stop Work Orders RESERVED.**

**Section R109 Board of Appeals RESERVED.**

(4) Chapter 4 [RE], “Residential Energy Efficiency” is hereby amended as follows:

**Section R403.3.1 Insulation (Prescriptive).** Supply and return ducts in attics shall be insulated to a minimum of R-8 where 3 inches (76 mm) in diameter and greater and R-6 where less than 3 inches (76 mm) in diameter. Supply and return ducts in other portions of the building shall be insulated to a minimum of R-6 where 3 inches (76 mm) in diameter or greater and R-4.2 where less than 3 inches (76 mm) in diameter.

**Exceptions:**

1. Ducts or portions thereof located completely inside the building thermal envelope
2. Supply ducts may be insulated to a minimum of R-6 when one or more of the following conditions are met:
  - 2.1 Minimum SEER rating of space heating/cooling system is increased to 16.
  - 2.2 Maximum U-factor is decreased to 0.30 and maximum SHGC is decreased to 0.22 for all fenestration products.
  - 2.3 Wall cavity insulation minimum R-value is increased to R-19.
  - 2.4 Residential buildings that meet the requirements of sections R102.1.1 or R405.

Table R406.4 Maximum Energy Rating Index, is amended for Climate Zone 2 as follows:

**TABLE R406.4**

**MAXIMUM ENERGY RATING INDEX**

<b>CLIMATE ZONE</b>	<b>ENERGY RATING INDEX<sup>a</sup></b>
1	<del>52</del> <u>57</u>
2	<del>59</del> <sup>†</sup> <u>57</u>
3	<del>51</del> <u>57</u>
4	<del>54</del> <u>62</u>
5	<del>55</del> <u>61</u>
6	<del>54</del> <u>61</u>
7	<del>53</del> <u>58</u>
8	<del>53</del> <u>58</u>

<sup>†</sup>Energy generated from on-site renewable energy shall not be included in the calculation of the Energy Rating Index value. a. Where on-site renewable energy is included in for compliance using the ERI analysis of Section R406.4, the building shall meet the mandatory requirements of Section R406.2, and the building thermal envelope shall be greater than or equal to the levels of efficiency and SHGC in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code.