**Florida Building Code, Energy Conservation**

Residential Provisions

CHAPTER 2 [RE] DEFINITIONS

**Guest Suite.** A bedroom or sleeping area without kitchen designated as an amenity area for use of residents within a residential structure.

**EN-ER-Ch. 4/6 - Comment #1**

CHAPTER 3 [CE] GENERAL REQUIREMENTS

**C304.2.1 Single materials.** If building materials R Values or thermal conductivities are determined by testing, one of the test procedures shall be used:

a. ASTM C177

b. ~~ASTM~~ ~~C236~~ ASTM C1363

c. ASTM C518

No change to the remaining text.

(Additional comment as submitted post TAC)

CHAPTER 4 [RE] RESIDENTIAL ENERGY EFFICIENCY

**R406.4 ERI-based compliance.** The ERI for the *rated design* shall be determined in accordance with ANSI/RESNET/ ICC 301, including Addendum A-201~~5~~ 9, and be shown to have an ERI less than or equal to the appropriate value listed in Table R406.4.

**Exception:** ERI-based compliance shall not be used for *guest suites* without kitchens. [No other changes to section.]

**TABLE R405.5.2(1)**

**SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS**

|  |  |  |
| --- | --- | --- |
| Service water heatingd, e, f, g | Fuel type: as proposed  Use (gal/day): determined in accordance with ANSI/RESNET/ICC 301  ~~Addendum A-2015~~  Efficiency: in accordance with prevailing federal minimum standards  Energy consumption: determined in accordance with ANSI/RESNET/ICC 301  ~~Addendum A-2015 (EN7597)~~ | Fuel type: As proposed  Use “gal/day”: determined in  accordance with ANSI/RESNET/  ICC 301 ~~Addendum~~  ~~A-2015~~  Efficiency: As proposed  Energy consumption: determined  in accordance with  ANSI/RESNET/ICC 301  ~~Addendum A-2015~~ |

EN-ER-Ch. 4/6 - Comment #1

CHAPTER 6 [RE] REFERENCED STANDARDS

ANSI

ANSI/RESNET/ Standard for the Calculation and Labeling of the Energy

ICC 301—201~~4~~9 Performance of Low-Rise Residential Buildings Using an Energy Rating Index, including Addendum A-2019. . . . . . . . . . . . . . R406.4, Table R405.5.2(1)

~~ANSI/RESNET/~~

~~ICC 301—2014,~~

~~Addendum A-2015 Amendment on Domestic Hot Water Systems. . . . . . . . . . . . . . . . . . . . . . . . . . . .Table R405.5.2(1), R406.4~~

**EN-ER-Ch. 4/6 - Comment #1**

Commercial Provisions

CHAPTER 4 [CE] COMMERCIAL ENERGY EFFICIENCY

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

**1. The requirements of ANSI/ASHRAE/IESNA 90.1, excluding section 9.4.1.1(g), ~~and~~ section 8.4.2, and section 8.4.3 of the standard.**

**2. The requirements of Sections C402 through C405 and Section C408. In addition, commercial buildings shall comply with Section C406 and tenant spaces shall comply with Section C406.1.1.**

**3. 3. The requirements of Sections C402.5, C403.2, C404, C405.2, C405.3, C405.5, C405.6, C407, and Section C408. The building energy cost shall be equal to or less than 85 percent of the standard reference design building.**

**C405.~~6~~5 Electrical power (Mandatory).**

**C405.~~6~~5.1 Applicability.** This section applies to all building

power distribution systems. The provisions for electrical

distribution for all sections of this code are subject to

the design conditions in ASHRAE Standard 90.1.

**Exception:** Compliance with ASHRA 90.1 Sections 8.4.2, 8.4.3, and 9.4.1.1(g) are not required.

**Remainder of Section unchanged.**

**EN/E-EC-Ch. 4 - Comment #4**

Table C404.2 – revise as per the attached.

**EN-EC-Ch. 4 - Comment #2**

TABLE C405.4.2(1) INTERIOR LIGHTING POWER ALLOWANCES: BUILDING AREA METHOD

[No changes to table or footnotes except footnotes “a” and “b” as highlighted (starting from 2020 Energy Conservation Supplement):]

1. Where sleeping units are excluded from lighting power calculations by application of Section R404~~5~~.1, neither the area of the sleeping units nor the wattage of lighting in the sleeping units is counted.
2. Where dwelling units are excluded from lighting power calculations by application of Section R404~~5~~.1, neither the area of the dwelling units nor the wattage of lighting in the dwelling units is counted.

TABLE C405.4.2(2) INTERIOR LIGHTING POWER ALLOWANCES: SPACE-BY- SPACE METHOD

[No changes to table or footnotes except footnotes “c” and “d” as highlighted (starting from 2020 Energy Conservation Supplement):]

1. Where sleeping units are excluded from lighting power calculations by application of Section R404~~5~~.1, neither the area of the sleeping units nor the wattage of lighting in the sleeping units is counted.
2. Where dwelling units are excluded from lighting power calculations by application of Section R404~~5~~.1, neither the area of the dwelling units nor the wattage of lighting in the dwelling units is counted.

EN-EC-Ch. 4 -Comment #3

**C406.7.1 Load fraction.** The building service water-heating system shall have one or more of the following that are sized to provide not less than 60 percent of the building's annual hot water requirements, or sized to provide 100 percent of the building's annual hot water requirements if the building shall otherwise comply with Section C403.4.5.

1. Waste heat recovery from service hot water, heat- recovery chillers, building equipment, or process equipment, or a combined heat and power system.

2. Solar *On site renewable energy* water-heating systems

EN-EC-Ch. 4 -Comment #5

CHAPTER 6 [RE] REFERENCED STANDARDS

ASHRAE

ANSI/ASHRAE/IESNA

90.1—2016 Energy Standard for Buildings Except Low-rise Residential Buildings,

excluding section 9.4.1.1(g) 8.4.2, and 8.4.3. . . . . . . . . . . . . . . . . . . .C304.1,1, C304.3.1.4, C304.3.2.1, C405.6.1.

EN/E-EC-Ch. 4 - Comment #4