



# BROWARD COUNTY BOARD OF RULES AND APPEALS

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Structural Engineer

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Mr. Jeff Falkanger,  
Architect

### **Board Attorney**

Charles M. Kramer, Esq.

### **Board Administrative Director**

Dr. Ana Barbosa

— Established 1971 —

December 12, 2023

RE: Florida Building Code - 8th Edition (2023)

The following amendments to the Florida Building Code were passed by the Broward County Board of Rules and Appeals on its regular session of October 12th, 2023. The amendments are effective on December 31st, 2023.

FBC 8th Edition (2023)– Residential –

- FBC 8th Edition (2023) – Residential
- CHAPTER 29 Table P2903.2 - Sub-Section 2903  
Section R4501.16 and R4501.16.1 – Electrical - Maximum Voltage

Attached, you will find each section with the amended text detailed and the required question and answer form as required to propose a local amendment to the Florida Building Code.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ruth Boselli", with a horizontal line underneath.

Ruth Boselli  
Administrative Specialist

**Broward County Amendments to Chapter 29,  
Subsection 2903 of the 2023 Florida Building Code, Residential, 8<sup>th</sup> Edition**

- ~~Stricken through text~~ are deletions from the Florida Building Code, Residential, 8<sup>th</sup> Edition.
- Underscored text are additions to Florida Building Code, Residential, 8<sup>th</sup> Edition.

**TABLE P2903.2  
MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES, AND FIXTURE  
FITTINGS <sup>b</sup> AND APPLIANCES**

<b>PLUMBING FIXTURE OR FIXTURE FITTING</b>	<b>MAXIMUM FLOW RATE OR QUANTITY</b>
Lavatory faucet	<del>2.2</del> <u>1.5</u> gpm at 60 psi
Shower head <sup>a</sup>	<u>2.0</u> <del>2.2</del> gpm at 80 psi
Sink faucet	2.2 gpm at 60 psi
Water closet	<del>4.6</del> <u>1.28</u> gallons per flushing cycle
<u>Dishwasher (Residential)</u>	<u>6.5 gallons per cycle or less (Energy Star/Watersense Certified) (c)</u>
<u>Washing Machine</u>	<u>Water factor or 8 or lower (Energy Star/Watersense Certified) (c)</u>

For SI: 1 gallon per minute = 3.785 L/m.

1 pound per square inch = 6.895 kPA.

- A handheld shower spray is also a shower head.
- Consumption tolerances shall be determined from referenced standards.
- Water factor in gallons per cycle per cubic foot  
Exception: All fixtures, fittings and appliances with U.S. Environmental Agency WaterSense® (EPA)  
Label

**Broward County Amendments to Chapter 29,  
Subsection 2903 of the 2023 Florida Building Code, Residential, 8<sup>th</sup> Edition**

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## 2023 Florida Building Code, Residential, 8<sup>th</sup> Edition

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### Section R4501.16 Electrical

Electrical equipment wiring and installation, including the bonding and grounding of pool components, shall comply with Chapter 27 of the Florida Building Code, Building. Outlets supplying pool pump motors connected to single-phase 120-volt through 240-volt branch circuits, whether by receptacle or by direct connection, and outlets supplying other electrical equipment ~~and underwater luminaires operating at voltages greater than the low-voltage contact limit~~, connected to single-phase, 120-volt through 240-volt branch circuits, rated 15 or 20 amperes, whether by receptacle or by direct connection, shall be provided with ground-fault circuit interrupter protection for personnel.

#### Section R4501.16.1 Maximum Voltage

The maximum voltage for each luminaire in any private swimming or bathing pool shall not exceed the Low Voltage Contact Limit, which is defined as a voltage not exceeding the following values:

- (1) 15 volts (RMS) for sinusoidal alternating current.
- (2) 21.2 volts peak for nonsinusoidal alternating current.
- (3) 30 volts continuous, direct current.
- (4) 12.4 volts peak for direct current that is interrupted at a rate of 10 to 200 Hertz. The maximum incandescent lamp size shall be 300 watts.



## Broward County Board of Rules and Appeals

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### BROWARD COUNTY LOCAL AMENDMENT Proposed Modification to the Florida Building Code

Per Section 553.73 Florida Statute

**Name:** Broward County Board of Rules and Appeals, Attn: Dr. Ana Barbosa

**Address:** 1 N. University Drive, Suite 3500B, Plantation, FL 33324

**Email:** [abarbosa@broward.org](mailto:abarbosa@broward.org)

**Phone:** 954-765-4500

**Fax:** 954-765-4504

**Code:** Florida Building Code, Building 8<sup>th</sup> Edition (2023) Section R4501.16.1

Text of Modification (Additions underlined; Deletions ~~stricken~~):

Please see the attachment.

#### **Respond to the following questions:**

**1. How is the local amendment more stringent than the minimum standards described in the FBC?**

*This amendment exceeds the minimum standards by requiring all swimming pool lighting fixtures to be low voltage (15 Volts or less) RMS for sinusoidal alternating current.*

**2. Demonstrate or provide evidence or data that the geographical jurisdiction governed by the local governing body exhibits a local need to strengthen the FBC beyond the needs or regional variation addressed by the FBC.**

*South Florida has more swimming pools than other jurisdictions. Also, South Florida's salty environment may cause loose or broken connections on electrical equipment.*

**3. Explain how the local need is addressed by the proposed local amendment.**

*This modification will require all swimming pool lighting to be 15 volts or less RMS for sinusoidal alternating current, thereby reducing the probability of electrocution hazard of high voltage lightning in residential swimming pools.*

**4. Explain how the local amendment is no more stringent than necessary to address the local need.**

*This modification will require all swimming pool lighting to be 15 volts or less RMS for sinusoidal alternating current, thereby reducing the probability of electrocution hazard of high voltage lightning in residential swimming pools.*

- 5. Are the additional requirements discriminatory against materials, products, or construction techniques of demonstrated capabilities?**

*No.*

- 6. Indicate whether or not additional requirements introduce a new subject not already addressed in the FBC.**

*The Florida Building Code currently allows the use of high-voltage and low-voltage types of light fixtures. Thus, by only allowing low-voltage pool light fixtures to be used for pool lighting would strengthen the code.*

- 7. Include a fiscal impact statement which documents the costs and benefits of the proposed amendment. Criteria for the fiscal impact statement shall include a, b, and c:**

- a) Impact to local government relative to enforcement.**

*None*

- b) Impact to property and building owners relative to cost of compliance.**

*Less than \$50.00 per swimming pool*

- c) Impact to the industry relative to the cost of compliance**

*Less than \$50.00 per swimming pool*

**Broward BORA Public Hearing and Vote on October 12 , 2023, respectively.**

**Amendment Effective Date: January 1, 2024.**