

CHAPTER 27 ELECTRICAL

SECTION 2701 GENERAL

2701.1 Scope. This chapter governs the electrical components, equipment and systems used in buildings and structures covered by this code. Electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of *NFPA 70, National Electrical Code*, except Article 80.

[F] SECTION 2702 EMERGENCY AND STANDBY POWER SYSTEMS

2702.1 Installation. Emergency and standby power systems shall be installed in accordance with the *NFPA 70, National Electrical Code*, NFPA 110 and NFPA 111.

2702.1.1 Stationary generators. Reserved.

2702.2 Where required. Reserved.

2702.3 Maintenance. Reserved.

SECTION 2703 CROSS REFERENCES

2703.1 Cross references. See Table 2703.

SECTION 2704 BONDING METAL FRAMING MEMBERS

2704.1 Bonding Metal Framing Members: Metal framing members. Metal framing members shall be bonded to the equipment grounding conductor for the circuit that may energize the framing and be sized in accordance with the *National Electrical Code* Table 250.122. For the purpose of this section, a grounded metal outlet box attached to the framing shall be permitted.

**TABLE 2703
CROSS REFERENCES DEFINING ELECTRICAL REQUIREMENTS OF THE FLORIDA BUILDING CODE**

| Florida Building Code—Building | | | |
|--------------------------------|----------------------------------|------------|--|
| Section | | Section | |
| Chapter 1 | Administration | Chapter 7 | Fire-Resistance-Rated Construction |
| 101 | General | 712 | Penetrations |
| 102 | Applicability | 714 | Fire-Resistance Rating of Structural Members |
| 105 | Permits | 715 | Opening Protective |
| 106 | Construction Documents | 716 | Ducts and Air Transfer Openings |
| 107 | Temporary Structures and Uses | | |
| 108 | Fees | Chapter 9 | Fire Protection Systems |
| 109 | Inspections | 901 | General |
| 111 | Service Utilities | 902 | Definitions |
| | | 903 | Automatic Sprinkler Systems |
| Chapter 2 | Definitions | 904 | Alternative Automatic Fire-Extinguishing |
| 202 | Definitions | | Systems |
| | | 907 | Fire Alarm and Detection Systems |
| Chapter 3 | Use and Occupancy Classification | 908 | Emergency Alarm Systems |
| 302 | Classification | 909 | Smoke Control Systems |
| 306 | Factory Group F | 910 | Smoke and Heat Vents |
| 307 | High -Hazard Group H | 911 | Fire Command Center |
| | | | |
| Chapter 4 | Special Detailed Requirement | Chapter 10 | Means of Egress |
| | Based on Use and Occupancy | 1006 | Means of Egress Illumination and Signs |
| 402 | Covered Mall Buildings | 1008 | Doors, Gates and Turnstiles |
| 403 | High-Rise Buildings | 1033 | Day Care |
| 311 | Storage Group S | | |

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**TABLE 2703—continued
Florida Building Code—Building—continued**

| Section | | Section | |
|--------------------------|--|----------------|---|
| Chapter 4 (continued) | Special Detailed Requirement Based on Use and Occupancy | Chapter 11 | Florida Accessibility Code For Building Construction Part A |
| 404 | Atriums | 11-3 | Miscellaneous Instructions and Definitions |
| 405 | Underground Buildings | 11-4 | Accessible Elements and Spaces: Scope and Technical Requirements |
| 406 | Motor-Vehicle-Related Occupancies | 11-9 | Accessible Transient Lodging |
| 407 | Group I-2 | | Part B |
| 408 | Group I-3 | 5 | Guidelines |
| 409 | Motion Picture Projection Rooms | | |
| 412 | Aircraft-Related Occupancies | Chapter 12 | |
| 414 | Hazardous Materials | 1205 | Lighting |
| 415 | Groups H-1, H-2, H-3, H-4 and H-5 | | |
| 419 | Hospitals | Chapter 13 | Energy Efficiency |
| 420 | Nursing Homes | 13-101 | Scope |
| 421 | Ambulatory Surgical Centers | Subchapter | |
| 423 | State Requirements for Educational Facilities | 13-2 13-3 | Definitions Referenced Standards and Organizations |
| 424 | Swimming Pools and Bathing Places (Public and Private) | 13-4 13-6 | Commercial Building Compliance Methods Residential Building Compliance Methods |
| 425 | Public Lodging Establishments | | |
| 426 | Public Food Service Establishments | Appendix 13-B | Supplemental Information for Subchapter 13-4 |
| 427 | Mental Health Programs | | |
| 428 | Manufactured Buildings | Chapter 26 | Plastic |
| 431 | Transient Public lodging Establishments | 2606 | Light-Transmitting Plastics |
| 435 | Control of Radiation Hazards | 2611 | Light-Transmitting Plastic Interior Signs |
| 436 | Day Care Occupancies | 2612 | High-Velocity Hurricane Zones—Plastics |
| | | Chapter 27 | Electrical |
| | | 2701 | General |
| | | 2702 | Emergency and Standby Power Systems |
| | | Chapter 30 | Elevators and Conveying Systems |
| | | 3003 | Emergency Operations |
| | | 3005 | Conveying Systems |
| | | 3006 | Machine Rooms |
| | | 3011 | Alterations to Electric and Hydraulic Elevators and Escalators |
| | | Chapter 31 | Special Construction |
| | | 3102 | Membrane Structures |
| | | 3108 | Radio and Television Towers |
| | | 3112 | Lighting, Mirrors, Landscaping |
| | | Chapter 33 | |
| | | 3306 | Protection of Pedestrians |
| | | 3310 | Exits |
| | | Chapter 35 | Referenced Standards |

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**TABLE 2703—continued
Florida Building Code—Residential**

| Section | | Section | |
|---------------------------------------|--------------------------------|----------------|---------------------------------|
| Chapter 3 | Building Planning | Chapter 24 | Fuel Gas |
| R303 | Light, Ventilation and Heating | G2403 (202) | General Definitions |
| R313 | Smoke Alarms | G2410 (309) | Electrical |
| R317 | Dwelling Unit Separation | G2411 (310) | Electrical Bonding |
| | | G2440 (615) | Sauna Heaters |
| Chapter 8 | Roof -Ceiling Construction | | |
| R808 | Insulation Clearance | Chapter 33 | General Requirements Electrical |
| | | E3301 | General Requirements Electrical |
| Chapter 13 | General Mechanical System | | |
| | Requirements | Chapter 43 | Referenced Standards |
| M1303 | Labeling of Equipment | | |
| M1305 | Appliance Access | | |
| Florida Building Code—Existing | | | |
| Section | | Section | |
| Chapter 3 | Classification of Work | Chapter 11 | Relocated or Moved Buildings |
| 305 | Alterations-Level 3 | 1102 | Requirements |
| Chapter 4 | Repairs | Chapter 12 | Compliance Alternatives |
| 401 | General | 1201 | General |
| 408 | Electrical | | |
| | | Chapter 14 | Referenced Standards |
| Chapter 5 | Alterations-Level 1 | | |
| 508 | Electrical | Appendix B | Standard for Rehabilitation |
| Chapter 6 | Alterations-Level 2 | | |
| 608 | Electrical | | |
| Chapter 8 | Change of Occupancy | | |
| 808 | Electrical | | |
| 811 | Other Requirements | | |
| Chapter 9 | Additions | | |
| 901 | General | | |
| 904 | Smoke Alarms in Occupancy | | |
| | Groups R-3 and R-4 | | |

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**TABLE 2703—continued
Florida Building Code—Mechanical**

| Section | | Section | |
|---------------------------------------|---------------------------------------|----------------|--|
| Chapter 3 | General Regulations | Chapter 9 | Specific Appliances, Fireplaces and Solid Fuel-Burning Equipment |
| <u>301</u> | General | 912 | Infrared Radiant Heaters |
| <u>306</u> | <u>Access and Service Space</u> | 917 | Cooking Appliances |
| | | 918 | Forced-Air Warm-Air Furnaces |
| <u>Chapter 5</u> | Exhaust Systems | 924 | Stationary Fuel Cell Power Plants |
| <u>502</u> | Required Systems | 927 | Residential Electric Duct Heaters |
| <u>503</u> | Motors and Fans | 928 | Vented Residential Floor Furnaces |
| <u>504</u> | <u>Clothes Dryer Exhaust</u> | | |
| <u>509</u> | <u>Fire Suppression Systems</u> | Chapter 10 | Boilers, Water Heaters and |
| <u>513</u> | <u>Smoke Control Systems</u> | | Pressure Vessels |
| | | 1001 | General |
| Chapter 6 | Duct Systems | 1004 | Boilers |
| <u>601</u> | General | 1006 | Safety and Pressure Relief Valves |
| <u>602</u> | Plenums | | And Controls |
| <u>606</u> | <u>Smoke Detection System Control</u> | | |
| <u>607</u> | Ducts and Air Transfer Openings | Chapter 11 | Refrigeration |
| | | 1104 | System Application Requirements |
| <u>Chapter 8</u> | <u>Chimneys and Vents</u> | 1105 | Machinery Room, General Requirements |
| <u>801</u> | General | 1106 | Machinery Room, Special Requirements |
| 804 | Direct-Vent, Integral Vent and | | |
| | <u>Mechanical Draft System</u> | Chapter 15 | Referenced Standards |
| Florida Building Code—Plumbing | | | |
| Section | | Section | |
| Chapter 6 | Water Supply and Distribution | Part II | Design Criteria |
| <u>601</u> | General | I. | Control Valves |
| <u>612</u> | Well Pumps and Tanks used for Private | | |
| | Potable Water Systems | Part IV | Materials |
| | | H. | Low Voltage Wiring |
| Chapter 11 | Storm Drainage | I. | Irrigation Controllers |
| 1113 | Sumps and Pumping Systems | J. | Pumps and Wells |
| Chapter 13 | Referenced Standards | Part V | Installation |
| | | E. | Low Voltage Wire Installation |
| Appendix F | Proposed Construction Building Codes | F. | Hydraulic Control Tubing |
| | For Turf and Landscape Irrigation | | |
| | Systems | | |

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| TABLE 2703—continued Florida Building Code—Fuel Gas | | | |
|--|--------------------------------------|-----------|--------------------------------------|
| Section | | Section | |
| Chapter 2 | Definitions | Chapter 6 | Specific Appliances |
| | | 627 | Air Conditioning Equipment |
| Chapter 3 | General Regulations | 630 | Infrared Radiant Heaters |
| 306 | Access and Service Space | | |
| 309 | Electrical | Chapter 7 | Gaseous Hydrogen Systems |
| 310 | Electrical Bonding | 703 | General Requirements |
| | | 706 | Location of Gaseous Hydrogen Systems |
| Chapter 4 | Gas Piping Installations | | |
| 413 | Compressed Natural Gas Motor Vehicle | Chapter 8 | Referenced Standards |
| | Fuel-Dispensing Stations | | |

* This table is provided only as a tool to assist the construction industry as a general guide. Users should review all sections of the code in order to determine specific applicable electrical requirements.

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