

707.6 Voluntary lateral force-resisting system alterations. Alterations of existing structural elements and *additions* of new structural elements that are initiated for the purpose of increasing the lateral-force-resisting strength or stiffness of an existing structure and that are not required by other sections of this code shall not be required to be designed for forces conforming to the *Florida Building Code, Building*, provided that an engineering analysis is submitted to show that:

1. The capacity of existing structural elements required to resist forces is not reduced;
2. The lateral loading to existing structural elements is not increased either beyond their capacity or more than 10 percent;
3. New structural elements are detailed and connected to the existing structural elements as required by the *Florida Building Code, Building*;
4. New or relocated nonstructural elements are detailed and connected to existing or new structural elements as required by the *Florida Building Code, Building*; and
5. A *dangerous* condition as defined in this code is not created. Voluntary alterations to lateral-force-resisting systems conducted in accordance with the referenced standards of this code shall be permitted.

SECTION 708 ELECTRICAL

708.1 New installations. All newly installed electrical equipment and wiring relating to work done in any *work area* shall comply with the materials and methods requirements of Chapter 27 of the *Florida Building Code, Building*.

708.2 Existing installations. Existing wiring in all work areas in Group A-1, A-2, A-5, H, and I occupancies shall be upgraded to meet the requirements of Chapter 27 of the *Florida Building Code, Building*.

708.3 Residential occupancies. In Group R-2, R-3, and R-4 occupancies and buildings regulated by the *Florida Building Code, Residential*, the requirements of Sections 708.3.1 through 708.3.7 shall be applicable only to work areas located within a dwelling unit.

708.3.1 Enclosed areas. All enclosed areas, other than closets, kitchens, basements, garages, hallways, laundry areas, utility areas, storage areas, and bathrooms shall have a minimum of two duplex receptacle outlets or one duplex receptacle outlet and one ceiling or wall-type lighting outlet.

708.3.2 Kitchens. Kitchen areas shall have a minimum of two duplex receptacle outlets.

708.3.3 Laundry areas. Laundry areas shall have a minimum of one duplex receptacle outlet located near the laundry equipment.

708.3.4 Ground fault circuit interruption. Reserved.

708.3.5 Minimum lighting outlets. At least one lighting outlet shall be provided in every bathroom, hallway, stairway, attached garage, and detached garage with electric power, and to illuminate outdoor entrances and exits.

708.3.6 Utility rooms and basements. At least one lighting outlet shall be provided in utility rooms and basements where such spaces are used for storage or contain equipment requiring service.

708.3.7 Residential R3 Occupancies.

708.3.7.1 Existing electrical wiring. Existing electrical wiring and equipment undergoing repair or replacement shall be permitted to be repaired or replaced with like material.

708.3.7.2 Replacement receptacles. For replacement of nongrounding-type receptacles with grounding-type receptacles and for branch circuits that do not have an equipment grounding conductor in the branch circuitry, the grounding conductor of a grounding-type receptacle outlet shall be permitted to be grounded to any accessible point on the grounding electrode system, or to any accessible point on the grounding electrode conductor, in accordance with Article 250.130(c) of Chapter 27 of the *Florida Building Code, Building*.

708.3.7.3 Appliances. Frames of electric ranges, wall-mounted ovens, counter-mounted cooking units, clothes dryers, and outlet or junction boxes that are part of the existing branch circuit for these appliances shall be permitted to be grounded to the grounded circuit conductor in accordance with Article 250.140 of Chapter 27 of the *Florida Building Code, Building*.

SECTION 709 MECHANICAL

709.1 Reconfigured or converted spaces. All reconfigured spaces intended for occupancy and all spaces converted to habitable or occupiable space in any *work area* shall be provided with natural or mechanical ventilation or exhaust in accordance with the *Florida Building Code, Mechanical*.

709.2 Existing mechanical systems. Existing mechanical systems undergoing repair shall comply with Section 301.11 of the *Florida Building Code, Mechanical*.

709.3 Local exhaust. Reserved.

SECTION 710 PLUMBING

710.1 Minimum fixtures. Where the occupant load of the story is increased by more than 20 percent, plumbing fixtures for the story shall be provided in quantities specified in the *Florida Building Code, Plumbing* based on the increased occupant load.

710.2 Materials. The following plumbing materials and supplies shall not be used:

1. Sheet and tubular copper and brass trap and tailpiece fittings less than the minimum wall thickness of 0.027 inch (0.69 mm).
2. Solder having more than 0.2-percent lead in the repair of potable water systems.