

SECTION 450.4.2.5 (NURSING HOMES) **DEBRIS IMPACT STANDARDS**

- Revised to permit impact protection from windborne debris to be in accordance with ASTM E 1996.
- borne debris to be in accordance with ASTM E 1996. New language permits facilities located where V_{un} is 130 mph and less, to meet the requirements for Wind Zone 1 in ASTM E 1996. New section requires critical systems and utilities to protected from debris impact by a housing or enclosure complying with the impact protection standards of Chapter 16 when located at or below 30 feet above finished grade.
- Requires roof mounted equipment to be fastened to meet the wind load requirements of Section 1609.



SECTIONS 504: BUILDING HEIGHT AND NUMBER OF STORIES; AND 506: BUILDING AREA

- Provide limiting values based upon
- Occupancy classification
 Type of construction, and;
- Whether or not the building is sprinklered
- Changes are largely editorial and reorganization
 2014 Table 503 split into 3 new tables
- Table 504.3, "Allowable Building Heig<mark>ht in Feet Above Grade Plane"</mark> Table 504.4, "Allowable Number of St<mark>ories Above Grade Plane"</mark>
- 506.2, "Allowable Area Factor"

SECTION 706.2 (FIRE AND SMOKE PROTECTION) STRUCTURAL STABILITY

- · Fire walls shall be designed and constructed to allow collapse of the structure on either side without collapse of the wall under fire conditions. Fire walls designed and constructed in accordance with NFPA 221 shall be deemed to comply with this section.
- Duration of time indicated by the fire-resistance rating requirement was eliminated

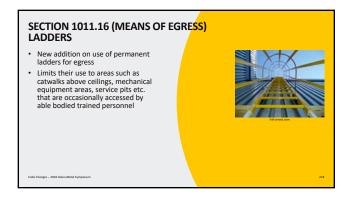
SECTION [F] 903.2.1.6 (FIRE PROTECTION SYSTEMS) ASSEMBLY OCCUPANCIES ON ROOFS

- · New section added
- Where an occupied roof has an assembly occupancy with an occupant load exceeding 100 for Group A-2 and 300 for other Group A occupancies, all floors between the occupied roof and the level of exit discharge shall be equipped with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.
- Exception: Open parking garages of Type I or Type II construction

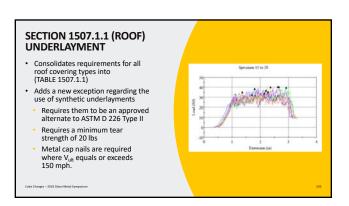












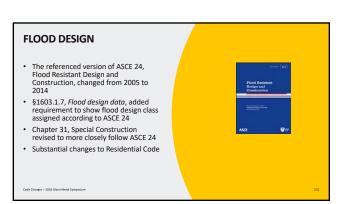




TABLE 1604.3 (STRUCTURAL DESIGN) DEFLECTION LIMITS

- Note b revised to require that the provisions of this table do not apply to all
 flexible, folding and portable partitions.
- A new row has been added specifying deflection limits for interior partitions.
- Note f has been revised to clarify the wind load to be used for deflection calculations for members that support glass.
- The wind load is permitted to be taken as 0.42 times the "component and cladding" loads for the purpose of determining deflection limits. Where members support glass in accordance with Section 2403 using the deflection limit therein, the wind load shall be no less than 0.6 times the "component and cladding" loads for the purpose of determining deflection.

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SECTION 1607.12.3 (STRUCTURAL DESIGN) OCCUPIABLE ROOFS

- Revised to include vegetative roofs
- Dead loads for vegetative roofs are required to be determined in accordance ASTM E 2397, Standard Practice for Determination of Dead Loads and Live Loads Associated with Vegetative Roof Systems
- Weight measurements of various components
- ASTM E2398 for Water Capture and Media Retention of Geocomposite Drain Layers



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SECTION 1609.1.2 (STRUCTURAL DESIGN) PROTECTION OF OPENINGS

- Allowable span between lines of fasteners for wood structural panels reduced to 44 inches
- Adds prescriptive attachment means for wood, masonry, and concrete
- ASTM E 1886-13A and ASTM E 1996-14 referenced
- §1609.1.2.2.1 Modifications to ASTM E 1886 and ASTM E 1996 were removed

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SECTION 1609.1.3 (STRUCTURAL DESIGN)
TESTING TO ALLOWABLE OR NOMINAL LOADS

Section permitting the design wind loads determined in accordance with ASCE 7 or Section 1609 to be multiplied by 0.6 where wind load resistance testing is based on allowable or nominal wind loads. This was inadvertently left out of the 5th Edition.

SECTION 1620.6 (STRUCTURAL DESIGN) ROOFTOP EQUIPMENT AND STRUCTURES

- · Reorganized for clarity
- Revised to be more in line with ASCE 7-10 and consistent with ASCE 7-16
- Adopts use of gust-effect factor
- Adds Exception: Exposed mechanical equipment or appliances fastened to a roof or installed on the ground in compliance with the code using rated stands, platforms, curbs, slabs, walls, or other means are deemed to comply with the wind-resistance requirements.

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SECTION 1709 PRECONSTRUCTION LOAD TESTS

§1709.5 Exterior window and door assemblies

- Section revised to refer to the ASD load combinations for required design wind pressures. ASD load combinations include a 0.6 factor on wind load.
- Added to Exception 3 lineal components may vary in length compared to the tested system. Clarified the 'shall not exceed area of the tested approved unit' requirement.

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SECTION 1709 PRECONSTRUCTION LOAD TESTS

- Updated references for testing labeling of Exterior windows and doors to AAMA/WDMA/CSA101/I.S.2/A440. Exterior side-hinged doors are also permitted to comply Section 1709.5.2.
- The exception for custom doors formerly in \$ 1710.5.2 has been relocated to \$1709.5. New language requires signed and sealed copies of the rational analysis and calculations to be provided to the building official upon permit application for custom doors.

§1709.5.2 Deflection (mullions)

 Deflection limits have been strengthened by limiting spans up to 13 foot 6 inches to L/175 and spans over 13 foot 6 inches to L/240.

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SECTIONS 2303.5 & 2304.9.3 JOIST HANGERS

- Joist hangers are now required to conform to the requirements of ASTM D7147
- Moved from Chapter 17



CHANGES TO REFERENCED TEST STANDARDS FOR THE HVHZ

TAS 100(A)-95, TEST PROCEDURE FOR WIND AND WIND DRIVEN RAIN RESISTANCE AND/OR INCREASED WINDSPEED RESISTANCE OF SOFFIT VENTILATION STRIP AND CONTINUOUS OR INTERMITTENT VENTILATION SYSTEM INSTALLED AT THE RIDGE AREA

NEVALED AT ITERATION AREA

New section 9.6 permits additional fastener
installation during testing to ensure roof
covering performance does not interfere with
the evaluation of ventilation materials.

Additional fasteners are not permitted to
contribute to the wind load resistance of the
ventilation materials.

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CHANGES TO REFERENCED TEST STANDARDS FOR THE HVHZ

TAS 103: Test Procedure for Self-Adhered Underlayments for Use in Discontinuous Roof Systems

 Conditions for failure have been revised from any deflection or significant blistering as any test specimen that exhibits any significant separation between the membrane and tested substrate.



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REFERENCES

Analysis of Changes for the 6th Edition (2017) F<mark>lorida Codes;</mark> http://www.floridabuilding.org/fbc/thecode/<mark>2017-</mark> Gedition/Analysis_of_Changes_6th_Ed_FBCB.pdf

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