**Item 1**

**6th Edition (2017) FBC, Building**

**Proposed revision**

**Submitted by: T. Eric Stafford**

**6th Edition (2017) Florida Building Code, Building**

 **Structural Correlation Issues**

**1609.1.2 Protection of openings.** In *wind-borne debris regions*, glazed openings in buildings shall be impact resistant or protected with an impact-resistant covering meeting the requirements of, ANSI/DASMA 115 (for garage doors and rolling doors) or TAS 201, 202 and 203, AAMA 506. ASTM E 1996 and ASTM E 1886 referenced herein, or an *approved* impact-resistant standard as follows:

1 -4: (no change)

**Exceptions:**

1. Wood structural panels with a thickness of not less than 7/16 inch (11 mm) and maximum span between lines of fasteners of 44 inches (1118 mm) shall be permitted for opening protection in Group R-3 or R-4 occupancy buildings with a mean roof height of 33 feet or less where Vult is 180 mph or less. Panels shall be precut to overlap the wall such that they extend a minimum of 2 inches (50.8 mm) beyond the lines of fasteners and attached to the framing surrounding the opening containing the product with the glazed opening. Panels shall be predrilled as required for the attachment method and secured with corrosion-resistant attachment hardware permanently installed on the building. Attachments shall be designed to resist the component and cladding loads determined in accordance with ASCE 7, with the permanent corrosion-resistant attachment hardware provided and anchors permanently installed on the building.  As an alternative ~~At a minimum~~, panels shall be fastened at 16 inches (406.4 mm) o.c. along the edges of the opposing long sides of the panel. For wood frame construction, fasteners shall be located on the wall such that they are embedded into the wall framing members, nominally a minimum of 1 inch (25.4 mm) from the edge of the opening and 2 inches (50.8 mm) inward from the panel edge. Permanently installed anchors used for buildings with wood frame wall construction shall have the threaded portion that will be embedded into the wall framing based on ¼ inch (6.35 mm) lag-screws and shall be long enough to penetrate through the exterior wall covering with sufficient embedment length to provide an allowable minimum 300 lbs ASD design withdrawal capacity. For concrete or masonry wall construction, fasteners shall be located on the wall a minimum of 1.5 inches (37.9 mm) from the edge of the opening and 2 inches (50.8 mm) inward of the panel edge. Permanently installed anchors in Concrete or masonry wall construction shall have an allowable minimum 300 lbs ASD design withdrawal capacity and an allowable minimum 525 lbs ASD design shear capacity with a 1.5 inch edge distance. Hex nuts, washered wing-nuts, or bolts used to attach the wood structural panels to the anchors shall be minimum ¼ inch hardware and shall be installed with or have integral washers with a minimum 1 inch outside diameter. Vibration resistant alternative attachments designed to resist the component and cladding loads determined in accordance with provisions of Table R301.2(2) or ASCE 7 shall be permitted.

2. – 3. (no change)

**Reason:** The new prescriptive option was intended to be an alternative to designing the fastening system in accordance with ASCE 7.

**Item 2**

**6th Edition (2017) FBC, Residential**

**Proposed revision**

**Submitted by: T. Eric Stafford**

**6th Edition (2017) Florida Building Code, Residential**

**Structural Correlation Issues**

**R301.2.1.2 Protection of openings.** Glazed openings in buildings located in windborne debris regions shall be protected from windborne debris. Glazed opening protection for windborne debris shall meet the requirements of the Large Missile Test of ASTM E 1996 and ASTM E 1886 referenced therein, SSTD 12, TAS 201, 202 and 203 or AAMA 506, as applicable. The applicable wind zones for establishing misile types in ASTM E 1996 are shown in Section R301.2.1.2.1. Garage door glazed opening protection for windborne debris shall meet the requirements of an *approved* impact-resisting standard or ANSI/DASMA 115.

1. - 2. (no change)

**Exception:** Wood structural panels with a thickness of not less than 7/16 inch (11 mm) and a maximum span between lines of fasteners of 44 inches (1118 mm) shall be permitted for opening protection in buildings with a mean roof height of 33 feet or less in locations where Vult is 180 mph or less. Panels shall be precut to overlap the wall such that they extend a minimum of 2 inches (50.8 mm) beyond the lines of fasteners and attached to the framing surrounding the opening containing the product with the glazed opening. Panels shall be predrilled as required for the attachment method and secured with corrosion-resistant attachment hardware permanently installed on the building. Attachments shall be designed to resist the component and cladding loads determined in accordance with either Table R301.2(2) or ASCE 7, with the permanent corrosion-resistant attachment hardware provided and anchors permanently installed on the building. As an alternative ~~At a minimum~~, panels shall be fastened at 16 inches (406.4 mm) o.c. along the edges of the opposing long sides of the panel. For wood frame construction, fasteners shall be located on the wall such that they are embedded into the wall framing members, nominally a minimum of 1 inch (25.4 mm) from the edge of the opening and 2 inches (50.8 mm) inward from the panel edge. Permanently installed anchors used for buildings with wood frame wall construction shall have the threaded portion that will be embedded into the wall framing based on ¼ inch (6.35 mm) lag-screws and shall be long enough to penetrate through the exterior wall covering with sufficient embedment length to provide an allowable minimum 300 lbs ASD design withdrawal capacity. For concrete or masonry wall construction, fasteners shall be located on the wall a minimum of 1.5 inches (37.9 mm) from the edge of the opening and 2 inches (50.8 mm) inward of the panel edge. Permanently installed anchors in Concrete or masonry wall construction shall have an allowable minimum 300 lbs ASD design withdrawal capacity and an allowable minimum 525 lbs ASD design shear capacity with a 1.5 inch edge distance. Hex nuts, washered wing-nuts, or bolts used to attach the wood structural panels to the anchors shall be minimum ¼ inch hardware and shall be installed with or have integral washers with a minimum 1 inch outside diameter. Vibration resistant alternative attachments designed to resist the component and cladding loads determined in accordance with provisions of Table R301.2(2) or ASCE 7 shall be permitted.

2. - 3. (no change)

**Reason:** The new prescriptive option was intended to be an alternative to designing the fastening system in accordance with ASCE 7 or Table R301.2(2).