



2015 Residential Code Question Of The Week

Where structural wood panels are used to provide windborne debris protection for glazed openings, the fasteners shall be long enough to penetrate through the sheathing and into wood wall framing a minimum of ___ inch(es).

- A) 1
- B) 1-1/2
- C) 2 ←
- D) 2-1/2

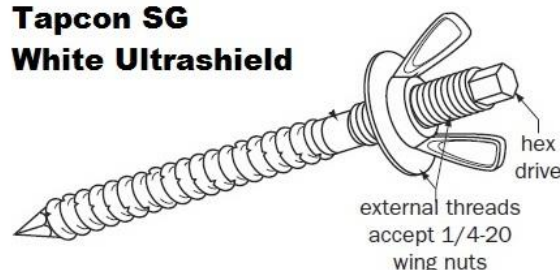
TABLE R301.2.1.2
WINDBORNE DEBRIS PROTECTION FASTENING
SCHEDULE FOR WOOD STRUCTURAL PANELS^{a, b, c, d}

FASTENER TYPE	FASTENER SPACING (inches) ^{a, b}		
	Panel span ≤ 4 feet	4 feet < panel span ≤ 6 feet	6 feet < panel span ≤ 8 feet
No. 8 wood screw based anchor with 2-inch embedment length	16	10	8
No. 10 wood screw based anchor with 2-inch embedment length	16	12	9
1/4-inch lag screw based anchor with 2-inch embedment length	16	16	16

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound = 4.448 N,
 1 mile per hour = 0.447 m/s.

- a. This table is based on 180 mph ultimate design wind speeds, V_{ult} , and a 33-foot mean roof height.
- b. Fasteners shall be installed at opposing ends of the wood structural panel. Fasteners shall be located not less than 1 inch from the edge of the panel.
- c. Anchors shall penetrate through the exterior wall covering with an embedment length of not less than 2 inches into the building frame. Fasteners shall be located not less than 2 1/2 inches from the edge of concrete block or concrete.
- d. Panels attached to masonry or masonry/stucco shall be attached using vibration-resistant anchors having an ultimate withdrawal capacity of not less than 1,500 pounds.

Tapcon SG White Ultrashield





2015 Commercial Building Code Question Of The Week

In a nonsprinklered office building, an attic space used for the storage of combustible material shall be protected on the storage side _____ .

- A) with 1/2-inch gypsum board
- B) with 1/2-inch Type X gypsum board
- C) with 5/8-inch gypsum board
- D) as required for one-hour fire-resistance-rated construction



SECTION 413 COMBUSTIBLE STORAGE

413.1 General. High-piled stock or rack storage in any occupancy group shall comply with the *International Fire Code*.

413.2 Attic, under-floor and concealed spaces. Attic, under-floor and concealed spaces used for storage of combustible materials shall be protected on the storage side as required for 1-hour fire-resistance-rated construction. Openings shall be protected by assemblies that are *self-closing* and are of noncombustible construction or solid wood core not less than 1³/₄ inch (45 mm) in thickness.

Exception: Neither fire-resistance-rated construction nor open protectives are required in any of the following locations:

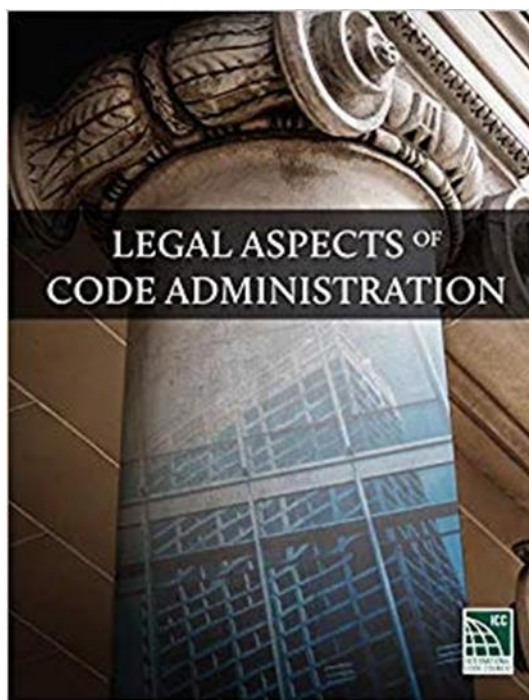
1. Areas protected by *approved automatic sprinkler systems*.
2. Group R-3 and U occupancies.



2015 Permit Tech Question Of The Week

When an application is denied for a project, the applicant can sue the building code official seeking relief in the form of _____, where the court commands the municipality to perform the duty it is responsible for performing.

- A) a writ of mandamus ←
- B) an injunction
- C) a doctrine of Ultra Vires
- D) an equitable estoppel



WRIT OF MANDAMUS. An order issued from a higher court requiring a private or municipal corporation or any of their officers to carry out the duties they were hired to perform. (Chapter 6)