**ANSI/APA PRP 210-2019 (Ballot 2019-1)**

**Ballot issue date: 11/12/2018 Ballot closing date: 12/12/2018**

**Ballot Instructions:**

1. All members are required to return the letter ballot. Failure to return 3 consecutive letter ballots will lead to the termination of the membership from this committee.
2. All votes shall be cast by marking the appropriate column of each ballot item.
3. Ballot items marked Negative or Affirmative-with-Comment shall be accompanied by a written explanation and proposed resolution that would address the negative/comment using the comment form at the end of this ballot form.

Exception: A written explanation and proposed resolution is not required for a recirculation or non-persuasive ballot.

1. Return ballot by e-mail to borjen.yeh@apawood.org. Please attach the completed ballot and comments as a word processor file (e.g., Microsoft Word) to facilitate the collection of comments for committee actions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Committee Member Name | Signature (not required with e-mail) | Date |

**Ballot** (Aff = affirmative; Aw/C = affirmative with comment; Neg = negative; Abst = abstention)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Description | Aff | Aw/C | Neg | Abst |
| 2019-1-01 | Revise ANSI/APA PRP 210-2014 as marked in this ballot. |  |  |  |  |

**Ballot Comment Form for ANSI/APA PRP 210-2019 (Ballot 2019-1)**

**Required only for Negative or Affirmative-with-Comment**

**Please attach this page to the e-mail ballot return**

|  |  |
| --- | --- |
| Item | Comments |
| 2019-1-01 |  |

ANSI/APA PRP 210-2019

Ballot 2019-1 (1 item)

Notations: Inserted Text New Text

Deleted Text ~~Old Text~~

**Item 2019-1-01: Revise ANSI/APA PRP 210-2014 as shown below.**

**Rationale:** This ballot is issued based on the call-for-change-proposals from the committee. These revisions, mostly editorial, were reviewed at the last Committee meeting on October 17, 2018 (the meeting minutes are attached for information) with the only exception of Section 10.2.3(c), which was brought up as there is a confusion that the required marking of “ANSI/APA” in the product may be misconstrued as the product is certified by APA, while it may be in direct conflict with the certification mark of the certification agency that also appears in the same product if the product is not certified by APA.  The ExSub of this Committee unanimously recommended that Section 10.2.3(c) be modified by deleting “/APA” in the product marking symbol.  This change will not violate the ANSI regulations.

**Ballot:**

3. REFERENCED DOCUMENTS

3.1. ASTM Standards

D1037-12 Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials

D1761-12 Standard Test Methods for Mechanical Fasteners in Wood

D3043-17~~00 (2011)~~ Standard Test Methods for Structural Panels in Flexure

D3501-05a (2011) Standard Test Methods for Wood-Based Structural Panels in Compression

D4442-16~~07~~ Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials

E72-15~~13a~~ Test Methods of Conducting Strength Tests of Panels for Building Construction

E661-03 (2015e1~~2009~~) Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads

3.2. Other Standards and Referenced Documents

ANSI~~/AHA~~ A135.4-2012 American National Standard for Basic Hardboard

AWPA U1-18~~13~~ Use Category System: User Specification for Treated Wood

Voluntary Product Standard PS 1-09 Structural Plywood

5.2. Hardboard Face

The hardboard face shall comply with the requirements of Class 1 of ANSI~~/AHA~~ A135.4.

Table 5. Fastener Head Pull-Through Criteria

|  |  |  |
| --- | --- | --- |
| Test Exposure Conditions | Nail Size(a) | Minimum Ultimate Load |
| Dry | 6d hot-dipped galvanized casing nail (2 x 0.099 x 0.142 in. head diameter) (50.8 x 2.51 x 3.61 mm head diameter) or 6d hot-dipped galvanized siding nail (1-7/8 x 0.106 x 0.141 in. head diameter) (47.6 x 2.69 x 3.58 mm head diameter) | 55 lbf (0.245 kN) |
| Wet | 40 lbf (0.178 kN) |

1. ~~Hot-dipped galvanized casing nail or siding nail.~~ Dimensions are nominal uncoated nail size.

Table 6. Racking Load Performance Criteria

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Thickness | Nail Size(c) | Nail Spacing | Test Exposure Conditions | Performance Requirements(a) |
| Panel Edge | Intermediate Studs | Design Load | Maximum Deflection at Design | Minimum Ultimate Load  |
| At Point of Nailing (b) | 6d hot-dipped galvanized box nail(2 x 0.099 in.) (50.8 x 2.51 mm) | 6 in. (152 mm) | 12 in. (305 mm) | Dry | 150 lbf/ft(2.2 N/mm) | 0.20 in.(5.1 mm) | 650 lbf/ft(9.5 N/mm) |
| 300 lbf/ft(4.4 N/mm) | 0.60 in.(15.2 mm) |
| Wet(~~c~~d) | 150 lbf/ft(2.2 N/mm) | 0.28 in.(7.1 mm) | 500 lbf/ft(7.3 N/mm) |
| 300 lbf/ft(4.4 N/mm) | 0.80 in.(20.3 mm) |

(a) Stud spacing at 16 in. (406 mm) o.c. or 24 in. (610 mm) o.c., depending on the maximum Span Rating.

(b) Thickness at point of nailing shall be measured at base of grooves (if grooved) unless otherwise recommended by the manufacturer.

(c) Dimensions are nominal uncoated nail size.

(~~c~~d) Wet exposure shall follow the recommended procedures outlined in ASTM E72.

6. STRUCT URAL PERFORMANCE QUALIFICATION

Performance shall be…. (No change.)

*3)* Specimens shall be tested at the maximum intended Span Rating for the product (typically 16 in. (406 mm) or 24 in. ~~oc~~ (610 mm) o.c.).

10.2.3. Siding Panel Marking

All siding represented as conforming to this standard shall be identified with marks giving the following information:

a) … (No change)

b) … (No change)

c) The symbol “ANSI~~/APA~~ PRP 210” signifying conformance with this standard.

d) … (No change)

11.1.2. Equipment

…. (No change.)

*Loading Rod.* A loading rod one inch (25.4 mm) in diameter is required. The edge of the loading rod contacting the test specimen shall be rounded to a radius not to exceed 0.06 inch (1.52 mm).

*Deflection Gages*…. (No change.)

To measure indentation, a metal sleeve shall be fabricated to fit around the loading rod. The bottom of the sleeve shall be chamfered to create a 1/4-inch (6.35 mm) wide bearing ring around the rod…. (No changes to the rest of the section.)

11.6.3. Test Procedure

Load shall be applied continuously at a uniform rate. The rate of loading shall be chosen such that the ~~1-times~~ 100 percent test load shall be reached in not less than 2 minutes. The loading rate for the subsequent loading cycles shall be the same as the ~~1-times~~ 100 percent test load cycle.

Deflection measurements are recorded as the wall is being loaded. At least 10 sets of uniformly spaced deflection readings are taken prior to failure to establish the load-deformation curve. At ~~1-times~~ 100 percent and ~~2-times~~ 200 percent the test load, as specified in Table 6 of this standard, the load is removed and the wall is allowed to recover for 5 minutes. At ~~2.5-times~~ 250 percent the test load, the dial gages are removed and the wall is loaded to failure…. (No change to the rest of the section.)

11.8.4. Test Procedure

…. (No change.)

2. Nailing: Drive nails of the size recommended by the manufacturer through the overlay. ~~Back the specimens solidly~~ Support the specimen in the back continuously during nailing.

3. Drilling: Power drill with a 1/4-inch-diameter (6.4-mm-diameter) machine bit through the overlay. ~~Back the specimens solidly~~ Support the specimen in the back continuously during the drilling…. (No change to the rest of the section.)

11.11.2. Specimen Preparation

…. (No change.) Fixed reference points which serve as measuring points on the centerline of each specimen are located 1 inch (25.4 mm) in from each end…. (No change to the rest of the section.)

11.12.2. Specimen Preparation

From each siding panel, cut a specimen at least 2 inches (50.8 mm) from any edge using a 3-inch (76-mm) hole saw…. (No change to the rest of the section.)

A2.2. …. (No change.) Note that the hardboard face should meet the requirements of Class 1 of ANSI~~/AHA~~ A135.4 in accordance with Section 5.2.