

- 2.2. Exterior wall envelope test assemblies shall be at least 4 feet by 8 feet (1219 mm by 2438 mm) in size.
- 2.3. Exterior wall envelope assemblies shall be tested at a minimum differential pressure of 6.24 pounds per square foot (psf) (0.297 kN/m²).
- 2.4. Exterior wall envelope assemblies shall be subjected to a minimum test exposure duration of 2 hours.

3. [OSHPD 1, 2 and 4] OSHPD regulated facilities are exempt from requirements of Title 24, Part 6.

The exterior wall envelope design shall be considered to resist wind-driven rain where the results of testing indicate that water did not penetrate control joints in the exterior wall envelope, joints at the perimeter of openings or intersections of terminations with dissimilar materials.

LA 1403.3 **Structural.** Exterior walls and the associated openings
LA shall be designed and constructed to resist, safely, the superimposed loads required by Chapter 16 of this Code.

LA In no case shall veneer be considered as part of the wall in computing strength or deflection, nor shall it be considered a part of the required thickness of the wall. Deflection of lateral support of LA veneer, including wood studs, shall be no greater than h/500.

1403.4 **Fire resistance.** Exterior walls shall be fire-resistance rated as required by other sections of this code with opening protection as required by Chapter 7.

1403.5 **Flood resistance.** For buildings in flood hazard areas as established in Section 1612.3, exterior walls extending below the design flood elevation shall be resistant to water damage. Wood shall be pressure-preservative treated in accordance with AWPA U1 for the species, product and end use using a preservative listed in Section 4 of AWPA U1 or decay-resistant heartwood of redwood, black locust or cedar.

1403.6 **Flood resistance for high-velocity wave action areas.** For buildings in flood hazard areas subject to high-velocity wave action as established in Section 1612.3, electrical, mechanical and plumbing system components shall not be mounted on or penetrate through exterior walls that are designed to break away under flood loads.

**SECTION 1404
MATERIALS**

1404.1 **General.** Materials used for the construction of exterior walls shall comply with the provisions of this section. Materials not prescribed herein shall be permitted, provided that any such alternative has been approved.

1404.2 **Water-resistive barrier.** A minimum of one layer of No.15 asphalt felt, complying with ASTM D 226 for Type 1 felt or other approved materials, shall be attached to the studs or sheathing, with flashing as described in Section 1405.3, in such a manner as to provide a continuous water-resistive barrier behind the exterior wall veneer.

1404.3 **Wood.** Exterior walls of wood construction shall be designed and constructed in accordance with Chapter 23.

1404.3.1 **Basic hardboard.** Basic hardboard shall conform to the requirements of AHA A135.4.

1404.3.2 **Hardboard siding.** Hardboard siding shall conform to the requirements of AHA A135.6 and, where used structurally, shall be so identified by the label of an approved agency.

1404.4 **Masonry.** Exterior walls of masonry construction shall be designed and constructed in accordance with this section and Chapter 21. Masonry units, mortar and metal accessories used in anchored and adhered veneer shall meet the physical requirements of Chapter 21. The backing of anchored and adhered veneer shall be of concrete, masonry, steel framing or wood framing.

1404.5 **Metal.** Exterior walls of formed steel construction, structural steel or lightweight metal alloys shall be designed in accordance with Chapters 22 and 20, respectively.

1404.5.1 **Aluminum siding.** Aluminum siding shall conform to the requirements of AAMA 1402.

1404.5.2 **Cold-rolled copper.** Copper shall conform to the requirements of ASTM B 370.

1404.5.3 **Lead-coated copper.** Lead-coated copper shall conform to the requirements of ASTM B 101.

1404.6 **Concrete.** Exterior walls of concrete construction shall be designed and constructed in accordance with Chapter 19.

1404.7 **Glass-unit masonry.** Exterior walls of glass-unit masonry shall be designed and constructed in accordance with Chapter 21.

1404.8 **Plastics.** Plastic panel, apron or spandrel walls as defined in this code shall not be limited in thickness, provided that such plastics and their assemblies conform to the requirements of Chapter 26 and are constructed of approved weather-resistant materials of adequate strength to resist the wind loads for cladding specified in Chapter 16.

1404.9 **Vinyl siding.** Vinyl siding shall be certified and labeled as conforming to the requirements of ASTM D 3679 by an approved quality control agency.

1404.10 **Fiber cement siding.** Fiber cement siding shall conform to the requirements of ASTM C 1186 and shall be so identified on labeling listing an approved quality control agency.

**SECTION 1405
INSTALLATION OF WALL COVERINGS**

1405.1 **General.** Exterior wall coverings shall be designed and constructed in accordance with the applicable provisions of this section.

1405.1.1 **Additional requirements.** [DSA-SS & OSHPD 1, 2 and 4] In addition to the requirements of 1405.5, 1405.6, 1405.7, 1405.8 and 1405.9, the installation of anchored or adhered veneer shall comply with applicable provisions of Section 1408.

1405.2 **Weather protection.** Exterior walls shall provide weather protection for the building. The materials of the minimum nominal thickness specified in Table 1405.2 shall be acceptable as approved weather coverings.