

Carpentry & Building Construction

Chapter 23 Siding

Section 23.1 Assessment Answers

1. Woods used for siding should have the ability to accept paint or stains, be easy to work with, and be dimensionally stable.
2. These woods include cedars, eastern pines, western white pine, sugar pine, cypress, and redwood.
3. Proper detailing, flashing, and using high quality sealants all protect siding from moisture.
4. to prevent water from getting in without preventing vapor from getting out
5. *Vertical*: solid wood boards with a uniform thickness are sometimes placed vertically over sheathing. *Horizontal*: solid wood boards placed so that each piece overlaps the one below. *Panel*: the exposed surface is covered with a high-grade wood veneer. *Shingle*: individual shingles are nailed to the wall sheathing.

Section 23.2 Assessment Answers

1. If the siding has not been primed on all surfaces by the manufacturer (this is called pre-priming), the back surface of the boards should be primed on site.
2. One protective option is to treat the boards with a water repellent before installation.
3. Using a story pole can be used on each wall of the house to ensure consistent spacing of the siding.
4. Use a small wood block gauge to accurately mark pieces that must fit against a vertical surface.
5. To determine the exposed width of a course, subtract $1\frac{1}{4}$ " from $7\frac{1}{4}$ ". $7\frac{1}{4}" - 1\frac{1}{4}" = 6"$. 6" is half of a foot. So, a distance of 6' 6" would require $6 \times 2 + 1$ courses, or 13 courses. 13 courses would end just at the top of the window.

Section 23.3 Assessment Answers

1. The first grade includes clear, all-heartwood shingles. The second grade consists of shingles with a clear exposed area (butt) and allows defects in the part that will be covered in use.
2. An undercourse is a low-grade layer of shingles that will not be exposed to the weather.
3. Because the undercourse is partially exposed, it should be the same grade of shingle as the outer course.
4. For single coursing, 1 square (4 bundles) of 16" shingles with a $7\frac{1}{2}$ " exposure will cover 150 sq. ft.
5. 28 bundles

Section 23.4 Assessment Answers

1. Scratches are not noticeable. Vinyl siding can be installed more quickly than wood siding. If damaged, it can be easily removed and replaced. It will not rot and requires little maintenance.
2. Leave approximately $\frac{1}{32}$ " (the thickness of a dime) between the underside of the head and the vinyl.
3. plywood siding
4. Stucco is a mixture of clean water, bagged silica sand, Portland cement, and lime.
5. Reports will vary.