Carpentry Level Two



Kickoff Activity

 List the types of exterior finish materials used on residential structures in the local area. Discuss reasons that these finish materials are predominant in the vicinity.



Objectives

- Describe the various types and applications of exterior finish materials.
 - Identify the types of wood siding.

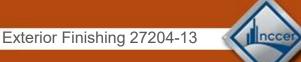
- Installation steps for exterior finishing
 - Apply weather-resistant house wrap
 - Install all boxed cornices, rake sections, windows, and exterior door frames
 - Install exterior window and door trim, if not part of the assembly
 - Apply the siding
 - Install the roof drainage system gutters and downspouts

- Common types of wood siding
 - Western red cedar (WRC)
 - Bald cypress
 - Douglas fir
 - Western hemlock
 - Western larch
 - Ponderosa pine
 - Red pine
 - Southern white pine
 - Sugar pine
 - Redwood

- Commonly used nails for wood siding
 - Siding
 - Casing
 - Box
 - Finish
 - Ring-shank

 Spiral-shank stainless steel or steel nails with hot-dipped galvanized or noncorrosive coatings

- Beveled siding
 - Most often associated with traditional architecture
 - Available in plain or bungalow and rabbeted (Dolly Varden) styles
 - Plain beveled produces a strong shadow line
 - Rabbeted beveled provides a snugger lap and can be installed faster, with a greater coverage



- Board-and-batten siding
 - Attractive, versatile, squared-edge siding
 - Easy to apply and weathertight
 - Surfaced on four sides (S4S), so it does not require expensive millwork
 - Most widely used variation is the vertical placement of wide boards, with the joints covered by narrow battens

- Reverse batten
 - Attractive vertical siding
 - Give a building a very sharp, well-defined, deep vertical shadow line
 - Creates an illusion that the boards on the surface are free floating



- Board-on-board siding
 - Creates a vertical shadow line and allows the builder to maintain a uniformity in the width of the material used
 - Apply the underboards first, spacing them to allow a 1 ¹/₂" overlap by the outer boards at both edges. Use standard nailing for underboards, with one 8d nail per bearing.



- Board-on-board siding (continued)
 - The outer boards must be nailed twice per bearing to ensure proper fastening. Drive 10d siding nails so that the shanks clear the edges of the underboards by approximately 1/4".

- Tongue-and-groove (T&G) siding
 - Can be applied vertically, horizontally, or at an angle
 - Diagonal application of siding creates an interesting exterior pattern and is pleasing to the eye
 - Provides a perfectly weathertight wall



- Tongue-and-groove drop siding
 - Normally applied only horizontally or vertically
 - Horizontal is more water resistant than plain T&G
 - Like plain T&G siding, T&G drop siding can be blind-nailed



- Shiplap siding
 - Can be installed vertically, horizontally, or diagonally
 - Available in plain and four other patterns
 - Plain installs with a flush edge
 - V-edged shiplap creates a definite shadow line and indicates the direction of the courses
 - Drop
 - Channel rustic
 - Log cabin

- Shiplap siding (continued)
 - Siding that is 6" or narrower can be facenailed 1" from the bottom with one nail per bearing
 - Siding that is wider than 8" should be facenailed with two nails per bearing

 Nails should be long enough to penetrate at least 1 ¹/₂" into the studs, or the studs an wood sheathing combined.

- Shingle siding
 - An attractive, rustic, architecturally interesting siding
 - Durable and decay resistant
 - Wood shingle
 - Cut by machine and manufactured in 16", 18", and 24" vertical lengths
 - Widths are random
 - Tapered, with a butt thickness of 3/8" to 3/4"
 - Wood shake
 - Hand-split from a log, thus more expensive than machinecut shingles
 - Available in taper-split form

- Panelized shakes/shingles
 - Shakes glued or stapled to a backer board of plywood
 - Available in widths of 4' and 8'
 - Available in natural wood and prefinished in several basic colors of stain
 - Can be applied rapidly, using spiral-shank nails colored to match the panels



- Plywood siding
 - Quick installation
 - Reliable waterproof adhesives available
 - Nailed directly to the studs, eliminating the need for sheathing and saving money
 - Available in thicknesses of 3/8", 1/2", 5/8", and 3/4"



Wrap Up

Identify the types of wood siding shown on the buildings in the photographs provided to you by the instructor.

Next Lesson: Other Types of Siding and Finishes Review Sections 2.2.0–2.6.0