

Single Coursing

Double the starting course at the base of the wall (Figure 6). For Number 1 Grade Western Red Cedar shingles apply with 1/8" to 1/4" keyway space and for Number 1 Grade Yellow Cedar shingles, apply with 3/16" to 5/16" keyway space between the shingles, giving a pronounced individual effect to each course.

Offset the side joints in any one course at least 1 1/2" over joints in adjacent courses (Figure 2).

Use a straight edge, nailing it lightly to the wall with the edge at the butt line (to keep courses straight and level). Check for level every 3 or 4 courses.

This wall application features concealed nailing (Figure 6), with nails driven approximately 1" above the butt line of the succeeding course. With Cedar shingles wider than 8", drive one nail near the center or split wide shingle into two smaller width shingles.

Because Cedar shingles vary in width there should be little waste.

Installation for use in areas defined as high-velocity hurricane zone, exposure is maximum 7-inches over minimum 5/8-inch thickness code complying wood panel type sheathing. Installation to be in accordance with these instructions.

Plywood panel or dimensional lumber sheathing

Underlayment shall comply with requirements of the 2023 FBC.

The outer course is applied

Enlarged to show detail (Figure 6)

1/2" lower than the inner course as a drip course to help shed water.

Plywood panel or dimensional lumber sheathing

Underlayment shall be No. 30 felt conforming to ASTM D226 Type II or ASTM D4869 Type IV.

Concealed nailing

The outer course is applied 1/2" lower than the inner course as a drip course to help shed water

Undercoursing grade shingles

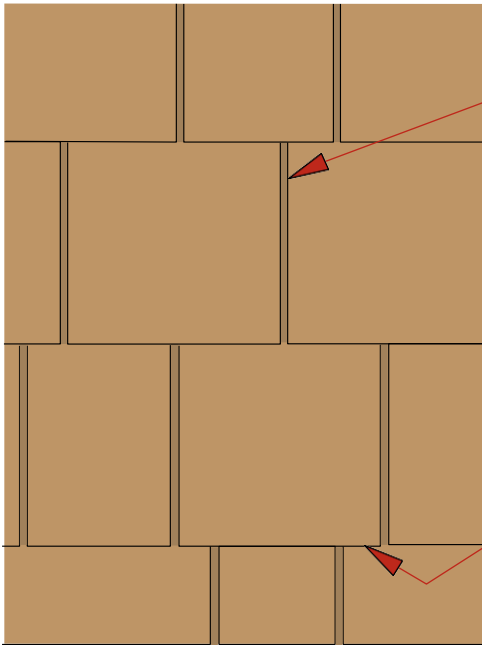
Figure 6: Single Coursing

Note:

The CSSB recommends installing **over plywood panel of minimum thickness as required by the applicable code and these installation instructions**, or dimensional lumber sheathing. If other sheathing materials are approved for use by your local building code official, the holding power of the fasteners should also be considered carefully. Installation is to comply with these instructions for installations in areas prone to wind-born debris (high-velocity hurricane zones). Contact local building code official for **substrate (plywood)** attachment fastener detail.

All figures depict shingle applications. **DONOT** interlay shingles or shakes with felt on sidewall applications.

The Cedar Shake & Shingle Bureau® recommends that underlayment shall be No. 30 felt conforming to ASTM D226 Type II or ASTM D4869 Type IV. Check with your local building code official for any questions about



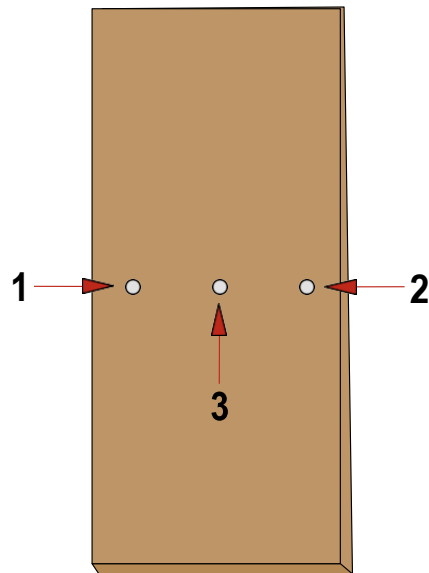
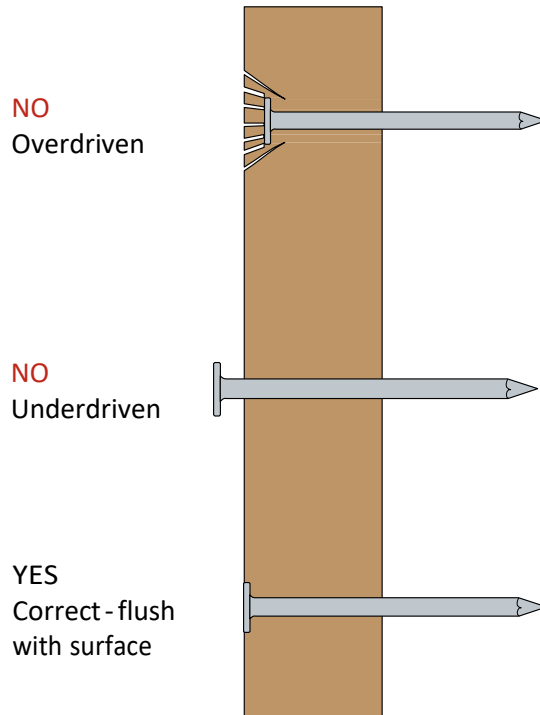
SPACING DETAIL

- CSSB-97 Grade #1 18-inch Western Red Cedar shingles shall be spaced $\frac{1}{8}$ " to $\frac{1}{4}$ " apart (keyways are $\frac{1}{8}$ " to $\frac{1}{4}$ " wide).
- CSSB-97 Grade #1 18-inch Yellow Cedar shingles shall be spaced $\frac{3}{16}$ " to $\frac{5}{16}$ " apart (keyways are $\frac{3}{16}$ " to $\frac{5}{16}$ " wide).
- These joints allow for expansion and prevent possible "buckling." For every 4" width of dry cedar shingle material, the product will expand approximately $\frac{1}{8}$ ". Therefore, space keyways accordingly, i.e. 12" shingle is expected to have approximately $\frac{3}{8}$ " expansion.

Figure 2: Spacing Detail

Nails

Each Sidewall Cedar shingle should be applied with two fasteners where shingles are 3 inch to 8 inch width, or 3 fasteners where shingles are 8 inch to 12 inch width. Nails *must be* stainless steel Type 316 ring-shank 5D of minimum 1-3/4-inch length, in locations within fifteen (15) miles of salt water. For locations outside the saltwater zone - nails *must be* stainless steel Type 304 Ring shank Stainless steel 5D of minimum 1-3/4-inch length, nails are a better value and offer the highest degree of corrosion resistance.



Wide Shingle Fastener Detail