

## Design and Application Details

The instructions given here are not meant to supersede local code requirements. Check with your local building code official for their preference in your area.

**Preparation** - Be sure that the walls are smooth, without protuberances. Nail ends or points should be removed or pounded flush.

### TIPS:

The CSSB recommends installing over plywood panel 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.

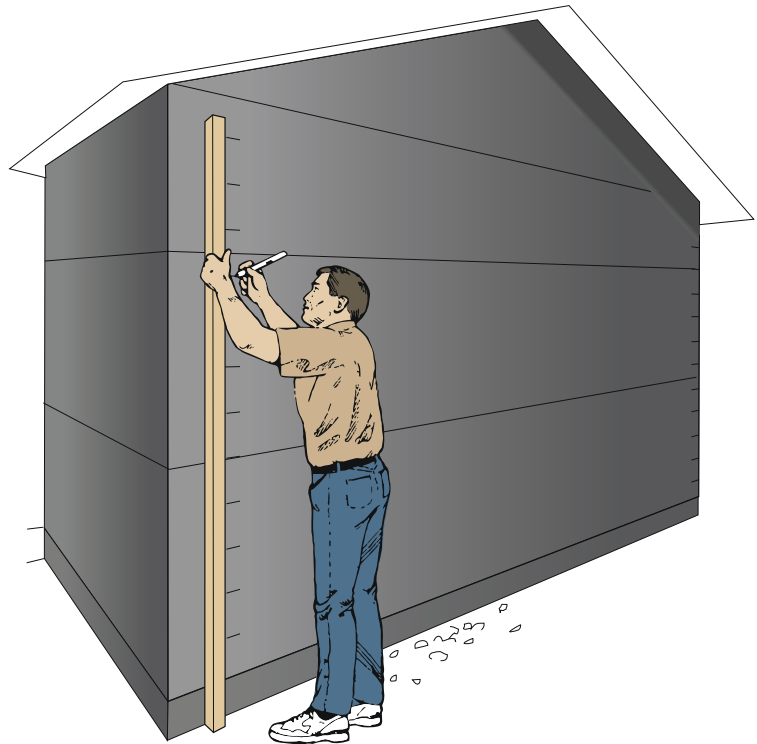
**Underlayment** - The CSSB recommends No. 30 organic felt (ASTM D226 Type II or ASTM D4869 Type IV) underlayment material. Apply it horizontally, with a staple gun, starting at the base of the wall, with a 2" horizontal overlap with each succeeding course and a 6" overlap vertically when starting a new roll. Wrap the organic felt underlayment 4" each way around both inside and outside corners.

**Corner Boards** - Install corner boards (**Figure 8**) at this time.

**Flashing** - Flashings associated with doors, windows and penetration details should be in accordance with local building code requirements.

**Laying Out** - Determine the number of Certi-label® courses by measuring the height of the wall at the lowest part of the foundation, from a point 1" below the top of the foundation, to the top of the wall. Divide the height into equal parts, corresponding closely to the weather exposure, but not exceeding the maximum weather exposure recommended. Transfer this measurement and the number of Certi-label® courses to a storypole (**Figure 1**), to lay out courses on all

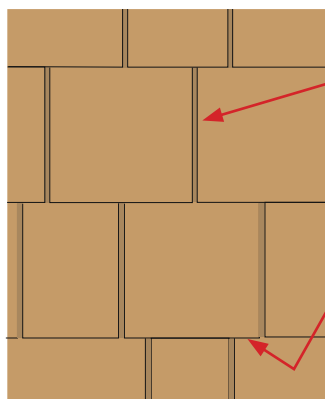
**Figure 1: Storypole**



other walls. Whenever possible butt lines should align with tops or bottoms of windows or other openings and for appearance the exposure of the final course at the top should match those below.

Certi-label® Western Cedar shingle and shake size, exposure, width of joints, width of product, kiln versus air-drying process, moisture content and the local environment will all affect the expansion/contraction of Certi-label® Western Cedar sidewall products. These factors should always be taken into consideration when determining the installation details and adequate spacing needed for your specific project. Consult with your installer and refer to **Figure 2: Spacing Detail**.

**Figure 2: Spacing Detail**



### Spacing Detail

- Number 1 Grade Certi-label® Western Red Cedar shingles shall be spaced 1/8" to 1/4" apart (keyways are 1/8" to 1/4" wide).
- Number 1 Grade Certi-label® Yellow Cedar shingles shall be spaced 3/16" to 5/16" apart (keyways are 3/16" to 5/16" wide).
- These joints allow for expansion and prevent possible "buckling." For every 4" width of dry Certi-label® Western Cedar shingle material, the product will expand approximately 1/8". Therefore space keyways accordingly, i.e. 12" shingle is expected to have approximately 3/8" expansion.
- Allow minimum 1/4" to 3/8" keyway spacing for Number 2 Grade Rebutted and Rejointed Certi-label® Western Red Cedar shingles.
- Leave a side lap of at least 1 1/2" between joints in adjacent courses.