

HOW DOES A PORCH SURVIVE MORE THAN 100 YEARS?

The porch and its decorative elements take the most weather abuse of any part of the house, second only to wooden gutters. The porch's flat, horizontal surfaces and decorations collect water, which then seeps into the wood. Luckily for homeowners, instead of seeping into the wood through the long grain (the sides or edges), water enters wood most readily through the end grain (at the end of

a piece or where the joints are). When you understand how wood reacts, you can properly maintain it.

Opposite and right:

Historically accurate millwork on this new vintage-style home is designed to keep water moving so it can't damage the wood.



Joints need

- 1 Try to accurately re-create original millwork when replac-
- Redwood and cedar, used on many historic homes, require
- Paint will help preserve the wood; rely on visual inspection.
- 4) Dirt and soot will accumulate at the joints and hold in mois-
- 5 To repair joints, you need to use enough flexible painters'



BUILT-IN PROTECTION

Knowing trapped water would create an environment for rot, Victorian builders built mechanical methods to discourage water from entering the end grain.

To illustrate this craftsmanship, note the design of the baluster pictured on page 11. The turned portion of the baluster starts and ends in a round over, which keeps the water from sitting on the flat end grain created by the turned design. Columns are the same, and this is why handrails always have hand-molded tops that shed water. It is also why the porch floors were pitched slightly to the outside: to send that water away.

NATURAL MOVEMENT

Another point to remember: Wood never stops expanding and contracting as it gets wet and becomes dry. But the movement is always lateral, not longitudinal: A board expands



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widthwise, not lengthwise. Therefore, a 1" x 6" x 12-foot board may be 5 15/16-inches wide in the summer and 6 1/16-inches wide in the winter—but it is always 12 feet long. Why is this important? Take handrails and columns, for example. Where the two meet (the joint), one piece (the end grain in the handrail) will expand and contract, and the other (the long grain in the column) won't. These joints need special treatment with caulking and paint to make them waterproof and long-lasting (see "Make it Last," page 10).

By keeping in mind that maintenance includes controlling water, you can keep your porches lasting forever.

Bio: Eric Hollenbeck, founder and master craftsman of Blue Ox Millworks, grew up in Eureka, California. Eureka's rich architectural heritage, with its reputation of more Victorians per capita than any city in the state, inspired his 38 years in the Victorian millwork business. Nationally, hundreds of buildings have benefited from Hollenbeck's passion and commitment to quality workmanship. For more information, call (800) 248-4259 or visit blueoxmill.com.