



A Pavilion Perched High on a Ledge

by Tim Healey

When Hayward Design Build recently finished work on a screened-in pavilion located on a bluff overlooking Vermont's Lake Champlain, it marked the end of a multi-year project building a high-performance home on a steep, rocky site (see "Pinning a Deck to Ledge," page 11). Designed by the company in conjunction with the clients and their architect, the 16-by-20-foot free-standing building provides shelter and a bug-free environment for lake gazing and small get-togethers (A).

The pavilion is supported by 8x8 PT posts bearing on concrete piers attached to ledge; to prevent racking, the posts are reinforced with steel-rod X-bracing. The floor is framed with 2x12 PT stock, while 6x6 corner and midspan posts were

installed to hold up the pavilion's low-slope roof, which is covered with a fully adhered TPO membrane.

For the decking, workers ran a couple of 1x6 ipe boards around the deck's perimeter, then infilled the floor area (more of a traditional wood floor than a deck) with 1x4 T&G ipe to avoid insect-penetrating gaps. Around the perimeter of the floor, a strip of perforated linear drain was let in under the screened openings for drainage (B). According to project manager Jim Bradley, the goal was to allow any wind-driven rain blown through the screening to drain out at the edge, though the clients were on board with occasionally having to break out a squeegee after strong rainstorms.

At the walls, 1/4-inch tempered glass

panels were run up to a 2x4 ipe mullion 36 inches off the deck (matching the adjacent deck guardrail height). The panels were then set in the openings with site-ripped 5/8-inch-square ipe stops (C). Above the mullions, workers installed heavy-duty bronze metal screening in custom frames, again setting the frames in the openings with ipe stops (D). For the entry, the company special-ordered a Larson screen door and refitted it with the heavy-duty bronze screening.

The space was wired for lighting, a ceiling fan, and sound. Then Bradley and his crew installed trim, finishing the ceiling and area above the screen openings with T&G western red cedar. ♦

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PHOTOS BY JIM BRADLEY AND TIM HEALEY