

CASE STUDY

BARRELS AND BEAMS



*LOMA LINDA UNIVERSITY HEALTH
AND EDUCATIONAL CENTER
SAN BERNARDINO, CALIF.*



DIVISION 9 ENGINEERED-TO-ORDER WOOD CEILINGS

The lobby features a vaulted, FSC cherry-veneered, panelized linear wood wave ceiling and matching curved box beams.



“We gravitated towards wood to bring warmth and timeless aesthetics to the space,” says the architect

Located in a city plagued by gang problems and a Chapter 9 bankruptcy, the Loma Linda University Health and Educational Center in San Bernardino, Calif., “represents the first step to rebuilding hope and reviving the community,” says a video about the facility’s grand opening.

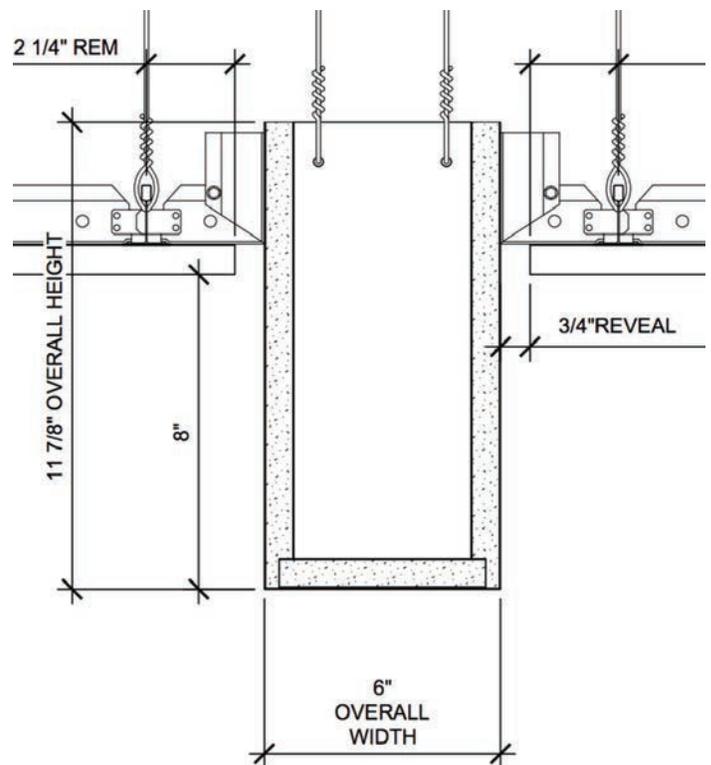
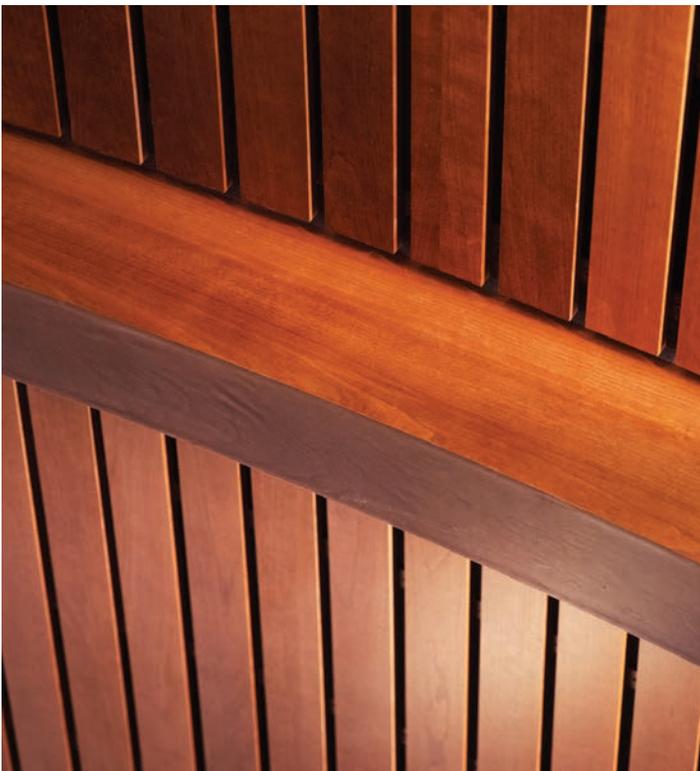
From the entry portico and through the interior hallways, the use of wood “creates a grand gesture of warmth and welcome to all,” says Tatyana Lemon, IIDA, LEED AP, Senior Associate at Boulder Associates Architects, Boulder, Colo.

Barrel Ceiling. The lobby features a vaulted, FSC cherry-veneered, panelized linear wood wave

ceiling and matching curved box beams. The curved box beams are decorative, designed by the architect to look like joists. They span the ceiling between two light coves and protrude 8 inches below the linear wood ceilings.

9Wood used a special suspension system to align the box beams and the ceiling grid snugly together, though suspended independently (shown below). “This is engineering we have never done before,” says 9Wood Project Manager Brad Leonard.

The atrium features a 7-foot diameter grille wood ceiling 61 feet above the floor. It features a three-story fabric sculpture.



The box beams and linear wood wave ceilings fit snugly together, though they are suspended independently. “This is engineering we have never done before,” says 9Wood Project Manager Brad Leonard.





PROJECT

Loma Linda University Health and Educational Center,
San Bernardino, Calif.

ARCHITECT

Boulder Associates Architects,
Boulder, Colo.

CEILING CONTRACTOR

Elljay Acoustics Inc.,
Placentia, Calif.

CEILING SYSTEM

9Wood custom engineered
wood ceilings,
Springfield, Ore.

Vaulted Ceilings. The project includes eight vaulted ceilings in hallways on two floors. "We used curved drywall grid," says Matt Paul, project manager at Elljay Acoustics Inc., Placentia, Calif. "Once we got the radius right on the first grid, we set up a jig to repeat the process."

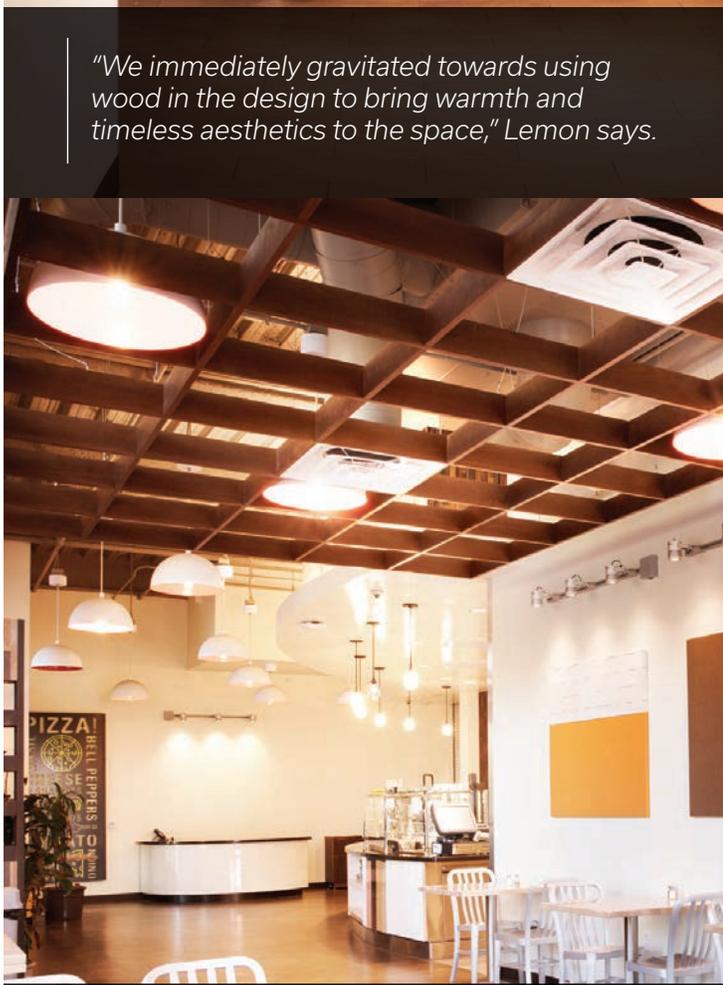
The project included several wood grille wall panels, which had to be specially fabricated, finished and attached. Special floor attachments and overhead build-outs were used to align the wood grille slats. "Two outside vertical members along with bottom horizontal wood members cap each wall screen," Leonard says. "This was custom work."

The center's vegetarian restaurant features a ceiling made of 2-foot by 2-foot cubes. 9Wood created a special dovetail joint to create the large, open cubes. "It was a different kind of joinery," says Leonard about the ceiling, which also had to integrate with air diffusers and lighting systems.

“THE PRECISION OF THIS WORK IS THE STORY. IT HAD TO LOOK RIGHT, SO OUR WORKMANSHIP WAS TOP NOTCH.”



"We immediately gravitated towards using wood in the design to bring warmth and timeless aesthetics to the space," Lemon says.



The vegetarian restaurant features a wood ceiling made of 2-foot by 2-foot cubes. The system is held together with special joinery.



Exterior T&G. The exterior tongue-and-groove wood ceilings matches the cherry wood color of the interiors. "We chose Douglas fir," Leonard says. "They went through several stain iterations before we got the color dialed into the architect's expectations."

In all, Loma Linda University Health and Educational Center features seven different wood ceilings.

"The precision of this work is the story," Paul says. "It had to look right, so our workmanship was top notch."



A stretched-fabric sculpture hangs from a 7-foot diameter grille wood ceiling 61 feet above the lobby.



The entry portico creates a grand gesture of warmth and welcome. The exterior tongue-and-groove wood ceilings are made of stained Douglas fir.



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