



WESTERN RED CEDAR MODERN ARCHITECTURE SERIES

the
CEDAR
BOOK

XI



CELEBRATING WESTERN RED CEDAR ARCHITECTURAL DESIGN



FOREWORD



— **KEVIN VALK**
PARTNER, DESIGN DIRECTOR
HOLST / PORTLAND, OREGON

WESTERN RED CEDAR HAS AN IMPRESSIVE RANGE AND VERSATILITY AS A BUILDING MATERIAL BECAUSE OF ITS WARMTH, TEXTURE, DURABILITY AND AFFORDABILITY. THIS IS DEMONSTRATED WELL BY THE TWO HOLST PROJECTS IN THIS BOOK—THE MIXED-USE COMMERCIAL DEVELOPMENT ONE NORTH AND THE PRIVATE RESIDENCE THE KARUNA HOUSE. WESTERN RED CEDAR ALLOWED US TO EXPRESS TWO VERY DIFFERENT DESIGN CONCEPTS AT VERY DIFFERENT SCALES TO SERVE DIVERSE FUNCTIONS WHILE MEETING THE HIGHEST STANDARDS FOR ENVIRONMENTAL RESPONSIBILITY.

As Design Director at Holst, I promote a belief that a big idea informs and prioritizes design solutions and ensures that a complete design concept guides the project from ideas through construction. Our design philosophy balances formal notions of scale, proportion, and materiality with the client's needs, goals, and aspirations to create spaces and buildings that resonate with its occupants and its surroundings. A project must be appropriately designed for its site and location, and it should make a positive and lasting impression on the users. The choice of building materials has a significant impact on the people who experience the building on a daily basis; cedar adds a distinct warmth, texture, and connection to nature. In the Pacific Northwest, cedar provides a sense of connection to our local surroundings as a defining element of our natural environment.

Holst is committed to sustainable design and construction. In many of our projects, working in wood, and local cedar in particular, enables us to explore new ideas with economic and environmental efficiency without compromising craft. The results reflect our design pursuit of clarity, balance, and authenticity—to create buildings that are a source of creative inspiration for our clients, end users, and communities. ●

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01

Skyline House

AESTHETICS
WITH HARMONY



architect
TERRY & TERRY ARCHITECTURE

client
YOUNG FAMILY

structural engineer
SANTOS & URRUTIA
STRUCTURAL ENGINEERS

general contractor
LYNDEN CONSTRUCTION (PHASE 1),
CAISTOR CONSTRUCTION (PHASE 2)

photography
BRUCE DAMONTE PHOTOGRAPHY

project type
SINGLE FAMILY RESIDENTIAL



OAKLAND, CALIFORNIA, US



Bookended by large redwood trees on two longitudinal sides of the property, one of the main challenges for this project was creating unobstructed views of the San Francisco Bay in a way that harmonizes with the surrounding woodlands.

“The design consists of shrouding the main floor common space in a wood tube that connects the garden in the front to the viewing deck off the living space at the rear,” explains lead architect Ivan Terry. “The roof of the tube form is warped out, creating a large ventilation volume for the living space. The form echoes the wisps of the coastal fog flowing inward, thus cooling the interior with the afternoon breezes. The main floor common space becomes the connector of the two contrasting outdoor spaces.”

Since the open-plan family home sits about 1,500 feet above sea level, the exterior faces some extreme weather and dramatic temperature swings. So choosing a building material that can stand up to the elements was paramount. Which is one of the reasons Terry incorporated durable Western Red Cedar into the exterior palette. He also wanted a material that was aesthetically in tune with the project's vision.

"The Western Red Cedar enhanced our concept of the wood tube form nestled in the trees," says Terry of cedar's innate ability to be as one with nature.

For the interior, Terry turned to Western Red Cedar to maximize the beauty of the home's most stand-out feature: the wavy ceiling. As Terry points out, cedar is not only beautiful, but also surprisingly lightweight and easy to work with.

"The T&G cedar siding is flexible in the flat direction, which enabled us to form the main floor ceiling."

For Terry and the homeowners, Western Red Cedar was an obvious choice from the get-go. "Our clients were very much onboard with using Western Red Cedar from the initial concept stages of the design," he says, adding, "and they're very thrilled on how the WRC has enhanced the design and love the feel of the space." ●



Curve appeal

The wavy Western Red Cedar ceiling on this project is an architectural show-stopper.



All-season stunner

Rain or shine, Western Red Cedar's top-performing characteristics make it an excellent choice for exterior applications.

Creating a connection

Using naturally beautiful Western Red Cedar for the ceiling and soffit system created a sense of harmony with the surrounding landscape.



WESTERN RED CEDAR SPECIFICATIONS

grade

KD GRADE 'A' CLEAR VERTICAL GRAIN

size

1 X 4 T&G

fastening

BLIND NAIL

applied finish

TRANSPARENT STAIN

In plain view

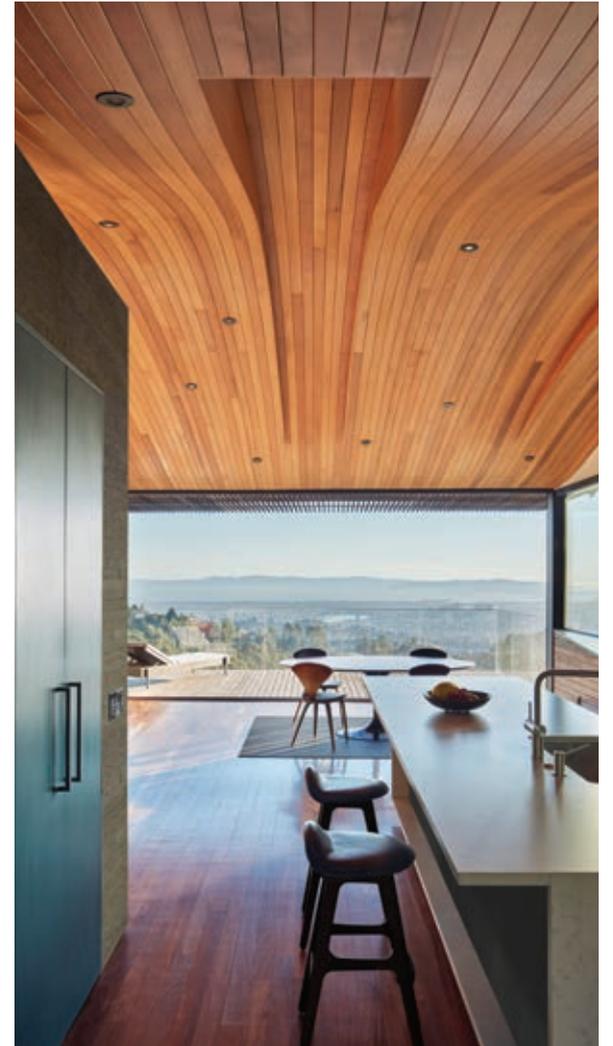
The main living space extends out onto an open deck, maximizing views of the San Francisco Bay.



“

WE HAVE USED WESTERN RED CEDAR IN SEVERAL OF OUR PROJECTS. THE WOOD IS EASY TO WORK WITH AND DURABLE YET LIGHTWEIGHT. IT GIVES THE SPACE A DELIGHTFUL WARM GLOW.”

— ALEX TERRY, AIA



And the winner is...

Combining innovative architectural theory and practice, Skyline House took home top honors in the Real Cedar category at this year's Wood Design Awards.

02

Newberg Residence

HOUSE
& HABITAT



architect

JAMES CUTLER, FAIA (DESIGN);
MEGHAN GRISWOLD (PROJECT)

client

CAREY CRITCHLOW
& MICHAEL ETZEL

structural engineer

MADDEN BAUGHMAN ENGINEERING

general contractor

R & H CONSTRUCTION

photography

JEREMY BITTERMANN

project type

SINGLE FAMILY RESIDENCE



NEWBERG, OREGON, US



Bridging over a large pond and nestled in a deep forest, the Newberg Residence sets a new architectural standard in integrating house and habitat. That's because from the beginning, architects James Cutler and Meghan Griswold approached the project as if house and pond were a single entity, in which the owners can enjoy the wild creatures that come to the water on both regular and varied schedules. With large vertical-lift windows, the homeowners can dive right into the water from their living room or they can just sit back and watch the show.

"This one bedroom residence allows the owners to have a strong emotional connection to the living world," explains James Cutler, FAIA.

In addition to honoring the forest atmosphere, the owners wanted a structure that could stand up to the elements. As a natural choice for siding, decking and dock, the designers and owners opted for Western Red Cedar—a building material that is naturally resistant to rot, decay and insects.



Take it outside
Western Red Cedar was used throughout this project to help blur the lines between interior and exterior.



Visitors welcome
To enable guests to experience the place, the guest house is connected by an outdoor covered walkway.



“Our basic design philosophy is to reveal what is true about all of the circumstances of a project,” says Cutler, who also used some WRC on the interior walls. “The use of Western Red Cedar for an exterior finish was a natural choice for its beauty, durability in a damp climate, and ability to weather.”

Large roof overhangs were designed to shelter the glass and vertical wooden surfaces of the building. For exterior finishes, they agreed the best option was to let the cedar weather naturally, eventually turning a beautiful silvery patina.

“The homeowners wanted a home which hugged the landscape, was minimally invasive and emotionally rich,” says Cutler. “This connection to the living world is what brought WRC to mind as an exterior and interior material choice.” ●



WESTERN RED CEDAR SPECIFICATIONS

grade
(EXTERIOR & INTERIOR) KD SELECT KNOTTY;
(DECKING) KD ‘A’ CLEAR

size
(DECKING) 2 X 6; (SIDING) 1 X 10 BOARD
& 1 X 2 BATTEN; (INTERIOR) 1 X 10

fastening
STAINLESS STEEL

applied finish
(EXTERIOR) NONE
(INTERIOR) TRANSPARENT STAIN

“

WESTERN RED CEDAR
WAS USED AS A SIDING
MATERIAL AND LEFT
UNFINISHED SO AS TO
WEATHER WITH AGE,
ALLOWING THE HOME
TO BLEND INTO ITS
WOODLAND ENVIRONMENT.”

— CUTLER ANDERSON ARCHITECTS

Bring it on home

Newberg Residence was recently awarded an American Institute of Architects 2016 Housing Award for excellence in housing design.

03

Hoke Residence

DRAMATIC
STRUCTURAL
EXPRESSION



architect
SKYLAB ARCHITECTURE

client
JOHN & KAREN HOKE

structural engineer
FROELICH ENGINEERING

general contractor
METCALF CONSTRUCTION
/ GREEN GABLES

photography
BOONE SPEED &
JEREMY BITTERMANN

project type
RESIDENTIAL



PORTLAND, OREGON, US



If Hoke Residence looks oddly familiar to you, then you were probably parenting a tween circa 2008/2010—either that or you’re an overage fan of young adult fiction. Yes, this is the house featured in the Twilight series. Celebrity status aside though, this home is dramatic by design. Originally a speculative project, Skylab Architecture set out to make a statement that would appeal to a broad spectrum of potential clients.

“The home features daring cantilevers, advanced building systems and controls, and cutting edge details—yet the surfaces, textures and spaces are natural and intuitive,” explains Jeff Kovel, Skylab founding principal. “Daylight and electric light play quietly against the warmth and textures of natural materials, but are modulated by surprising and inspiring geometries. This duality is mirrored in the dwelling’s flowing spaces, moving between crisp and deftly angular details, and framed views of the forest canopy or the primeval boulders upslope.”

To make volumes even more striking, the Skylab team needed an exceptional building material—one that’s striking enough to contrast the black mass on the first floor but also earthy enough to complement the surrounding woodland. They chose naturally beautiful Western Red Cedar, a pitch and resin-free species that accepts and holds a wide range of finishes beautifully.

“We clad the cantilevered volume on the second floor on all sides in cedar to highlight it visually, and make a conceptual connection to the surrounding forest,” says Kovel, who specified a clear grade to enhance the contemporary aesthetic of the project. Considering this secluded Portland gem got Hollywood’s attention, Skylab clearly made the right design choices on all fronts.

“The Hoke residence is an iconic home that was subsequently featured in the Twilight movie series,” says Kovel, before adding, “And we believe the forested location and the choice of cedar to highlight the dramatic structural expression is responsible for this.” ●

WESTERN RED CEDAR SPECIFICATIONS

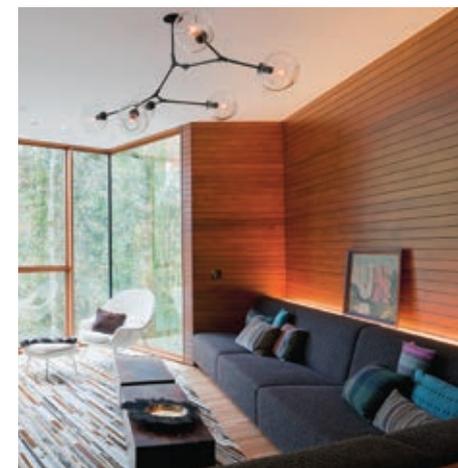
grade	fastening
KD 'A' CLEAR	STAINLESS STEEL SIDING NAILS
size	applied finish
1 X 4 V-GROOVE T&G	TRANSPARENT STAIN



THE CEDAR IS HOLDING UP BEAUTIFULLY AND MINIMAL MAINTENANCE HAS BEEN REQUIRED.” — JEFF KOVEL, AIA

Causing a sensation

The residence provides a venue for interplay between the vibrant outdoor environment and dramatic interior spaces.



Wooded wonder

At once urban and wild, the residence is in harmony with, and a reflection of, its location at the border of Portland and Forest Park.



04

Karuna House

WHERE
FORM MEETS
SUSTAINABILITY



architect
HOLST ARCHITECTURE

client
ERIC LEMELSON

structural engineer
FROELICH STRUCTURAL ENGINEERS

general contractor
HAMMER & HAND

photography
JEREMY BITTERMAN
& JEFF AMRAM

project type
SINGLE-FAMILY RESIDENCE

NEWBERG, OREGON, US



Why meet the standards of one internationally recognized, green building rating system... when you can meet the standards of three internationally recognized, green building rating systems? It's a lofty goal, and one that Holst Architecture and their client set—and met—when they designed Karuna House, a project that now serves as a case study on how to satisfy the many requirements of different environmental certifications.

“Karuna is the first MINERGIE-certified building in North America, earning the top rating of MINERGIE-P-ECO,” explains Holst senior associate and sustainability director, Cory Hawbecker. “Additionally, it has achieved Passive House PHIUS+, LEED for Homes Platinum, and Net Zero energy use by incorporating onsite solar panels. It is expected to be one of the few homes in the world certified by both MINERGIE and Passive House Institute US, and is the first to earn all three certifications.”



In addition to that, the Holst team needed to balance all these sustainability requirements with a rigorous contemporary form that responds to the client's programmatic needs. Here's how they did it.

"Two towers anchor the Karuna House to the earth, marking the location of double-height spaces and the internal stair," says Hawbecker. "Wood and glass volumes that contain the living spaces are arranged around the towers to maximize views to the south and east while graciously separating social spaces from the private and guest spaces. Sited in an area famous for its rust-colored soil, the home's exterior palette is composed of materials and colors that reflect the tones of its surroundings."

As well as complementing the property's natural surroundings, they wanted a material that would add warmth and texture to the design's clean lines, a material that accepts and holds stains beautifully, a material that met all their stringent environmental criteria. Western Red Cedar delivered on all counts, and as Hawbecker recalls, getting everyone on board with this choice wasn't a tough sell at all.

"The client was familiar with Western Red Cedar, and supported its selection throughout the design process," says Hawbecker, adding, "The client is pleased with the finished product." ●

The green go-to

Sustainable Western Red Cedar was used for decking and siding for its beauty and durability.



WESTERN RED CEDAR'S TEXTURE
REFLECTS THE PROJECT'S
NATURAL SURROUNDINGS."

— CORY HAWBECKER, AIA, CPHC, LEED AP

Creating a scene

Wood and glass volumes that contain the living spaces are arranged to maximize the spectacular views of the hills and town of Newberg, Oregon.



WESTERN RED CEDAR
SPECIFICATIONS

grade

KD SELECT KNOTTY

size

(SIDING) 1 X 4 FINE LINE T&G
(DECKING) 2 X 6

fastening

CONCEALED

applied finish

SEMI-TRANSPARENT
STAIN



Making a statement

The award-winning project may have a humble footprint, but it has a bold presence.



Inner beauty

The interior finishes cast a warm minimalism saturated in natural light, allowing the owner's eclectic art collection to take center stage.

05

Avocado Acres House

HANDMADE
MODERNISM



architect
LLOYD RUSSELL, AIA

client
SURFSIDE PROJECTS

structural engineer
QUALLS ENGINEERING

general contractor
ALLIANCE GREEN BUILDERS

developer & designer
SURFSIDE PROJECTS,
STEVE HOILES

photography
DARREN BRADLEY

project type
SPECULATIVE SINGLE
FAMILY RESIDENCE



ENCINITAS, CALIFORNIA, US



Designed by Lloyd Russell AIA and Steve Hoiles of Surfside Projects, this brand new, mid-century modern influenced beach house is all about the rooflines. The dramatic curvilinear feature connects individual pavilions to a common courtyard, blurring inside and outside to make the house live larger than its actual square footage. Furthermore, the clerestory glass above the muscular concrete exterior walls make the roof look like it's floating and framing the sky for stargazers.

As well as boasting a funky open styled layout fit for a cool surfing town just north of San Diego, this single level, U-shaped home is an outstanding achievement in green building.

“

MY GOAL IS TO MAKE HANDMADE
MODERNISM. THE WARMTH AND DEPTH
OF CEDAR HELPS ME ACHIEVE THAT.”

— LLOYD RUSSELL, AIA



“This home is 26% more efficient than a standard new home built to the current California Building Codes,” explains Hoiles, principal of Surfside Projects. “We used a solar thermal panel on the roof to heat domestic hot water, light colored metal roof that reflects the sun’s heat, the building envelope is air tight, super insulated with recycled cellulose (paper) in all stud walls including interior walls, integrated passive design elements like large overhangs to prevent solar heat gain and cross ventilation, to cool the house without using any power.”

Material matters

Using sustainable building materials such as Western Red Cedar played a key role in helping the owner and architect meet their environmental goals with this project.



Eco warrior

Like all Surfside Projects Homes, the Avocado House is built and designed in accordance with the most stringent green building practices.

When it came to the ceiling and siding, they needed a building material that is sustainable, but also something that honors the spirit of the artisan coastal community. They also factored in color rendition, versatility and value. In the end, they chose Western Red Cedar: a knotty grade for the exterior, which they stained in a brown/black tone, and a clear grade for the soffit, which they left natural.

For the developer, Steve Hoiles, cedar met all his criteria in that its tonal mosaic is naturally beautiful, and it's termite resistant as well as low maintenance. It's also pitch and resin-free so it accepts and holds a wide range of finishes beautifully, and as Hoiles explains, cedar possesses certain qualities that no man-made material can ever duplicate.

“Cedar just oozes soul.” ●

Visual property

A knotty grade of cedar siding was used to add texture and contrast nicely with the smooth muscular aesthetic of the concrete masses.



WESTERN RED CEDAR SPECIFICATIONS

grade

(SOFFIT & CEILING) KD 'A' CLEAR
(SIDING) KD SELECT KNOTTY

size

(SIDING) 1 X 8 CHANNEL
(SOFFIT/CEILING) 1 X 6 T&G

fastening

STAINLESS STEEL

applied finish

(SOFFIT/CEILING) TRANSPARENT SOLID
(SIDING) SEMI-SOLID STAIN



06

Sea Bright House

WARMTH
& FAMILIARITY



architect
JEFF JORDAN ARCHITECTS

client
PROFESSIONAL COUPLE

structural engineer
PERSIMMON ENGINEERING

general contractor
INGALLS CUSTOM CONTRACTING

photography
GREGORY MAKI

project type
VACATION HOME



SEA BRIGHT, NEW JERSEY, US



With the Navesink River to the West of this site, the charming town of Sea Bright to the South, New York City to the North and, of course, the Atlantic Ocean to the East, there is no shortage of views to behold here. But since there are homes between this expansive lot and the beach, sight lines were not a given.

So when architect Jeff Jordan came on board, the main programmatic challenge for him was working around these potential obstructions in order to provide as many views as possible. He did this by maxing out the allowable zoning height and incorporating not one, not two, but three roof decks, each offering a different outlook and experience.

“The first is adjacent to the kitchen and living area on the second floor and includes a large table and grill overlooking the ocean,” explains Jordan. “The second is adjacent to a small mezzanine office on the third floor and overlooks the river, and as a bonus, the ocean can be seen through the house. It also offers a windbreak and additional shade in order to remain useful throughout the year in any weather.”



Hit the decks

The house can be summed up as a collection of three roof decks, each offering a different view and experience.



IN FO	WESTERN RED CEDAR
	SPECIFICATIONS
	grade KD 'A' CLEAR
	size (SIDING) 1 X 4 T&G (DECKING) 2 X 4
fastening STAINLESS STEEL	
applied finish NONE	

“The final roof deck is the main event,” he continues, “as the culmination of four flights of stairs and with unobstructed views in all directions. Extensive seating and a wet bar make this a great spot for cocktail hour.”

In terms of building materials for all these stunning outdoor living spaces, Jordan chose Western Red Cedar on just about every surface of the exterior from siding to the ceiling at the entryway to the roof decks.

“We are big fans of Western Red Cedar and use it in many of our projects for the combination of a warm and familiar appearance and weather/rot resistance,” says Jordan. “I think the project would have a very different appearance if we had used another material. The cedar is such a prominent part of the look of the house.” ●



In full view

The ingenuity of the program allows occupants to see the ocean from multiple positions in and out of the house.



“

CEDAR IS SUCH A PROMINENT PART OF THE HOUSE'S LOOK AND IT WOULD HAVE BEEN DIFFICULT TO FIND ANOTHER MATERIAL THAT HAS BOTH A NATURAL APPEARANCE AND CAN WEATHER NATURALLY OVER TIME.” — JEFF JORDAN

07

Arbutus House

CELEBRATING
THE LANDSCAPE



architect

KIM SMITH + BO HELLIWELL,
HELLIWELL + SMITH
• BLUE SKY ARCHITECTURE

client

RETIRED COUPLE

structural engineer

CARLOS CHIU, CHIU HIPPMANN
ENGINEERING

general contractor

ROB PARSONS, R PARSONS
CONSTRUCTION LTD.

photography

HEATH MOFFATT
& PETER POWLES PHOTOGRAPHY

project type

SINGLE-FAMILY RESIDENCE
& GUEST HOUSE/STUDIO



VANCOUVER ISLAND, CANADA



When building a family home, guesthouse, and garage on a steep, narrow, crescent shaped mountain ridge, the site really dictates the design. This is how Blue Sky Architecture approached this stunning series of curved, cedar-clad pavilions.

“Organic forms were created by integrating the building with the landscape, producing sensual and embracing spaces that break down barriers between the exterior environment and natural built form,” explains Kim Smith, Architect AIBC, FRAIC. “Open, unimpeded views and accordion-fold doors allow the interior and exterior spaces to blend. We also included large, semi-sheltered outdoor rooms to create year-round opportunities to be outside in comfortably contemplated ways, sheltered from rain, wind, and sun.”

The Blue Sky team didn't just want to work with the landscape; they wanted to celebrate it with naturally beautiful building materials such as Western Red Cedar siding and trim.



Craftsmanship at its best
The detailing of the high quality and fine grained cedar siding, inset with thin, horizontal galvalume strips, gives the house a look like fine furniture placed in the arbutus forest.



How to make an entrance
The entry door is crafted with book-matched red cedar panels set in a fir frame with horizontal glazing slots.



Open plan design
The main social spaces of den, living room, dining, kitchen are all one great wood-clad room in the center of the house.



“The cladding on this project is truly unique, lending the house the type of grain and color that is usually reserved for fine furniture or instrument making,” says Bo Helliwell, Architect AIBC, FRAIC.

And the award-winning architects didn't stop there. They chose cedar for the following features: interior wall paneling, the winding handrail on the balcony, as well as the stunning entry door.

“The neutral and subtle colors of wood provide a warmth and connect- edness to place,” says Helliwell, who appreciates how beautifully Western Red Cedar's rich tonal range can either stand on its own or complement and contrast other materials to weave a harmonious palette. “We used highlights of bright color—in this case, green glass tile—to playfully emphasize rhythm and texture, and to accent entryways.” ●



WESTERN RED CEDAR
SPECIFICATIONS

grade	KD 'A' CLEAR VERTICAL GRAIN
size	1 X 10 CLADDING
fastening	STAINLESS STEEL
applied finish	TRANSPARENT STAIN



Making waves

The customized Western Red Cedar railing follows the natural curves of the main ridge, which offers spectacular views over Saanich Inlet.



Original character

The homeowners wanted to add personality to their residence while celebrating fine craft, so they selected premium timbers and finished wood to shape this truly unique structure.



IN OUR BUILDING EXPERIENCE, WE HAVE COME TO TRUST CEDAR FOR ITS BEAUTY AND NATURAL DURABILITY IN EXTERIOR APPLICATIONS.

— BO HELLIWELL, ARCHITECT AIBC, FRAIC



Tetra House

OPEN INTIMACY



architect
BERCY CHEN STUDIO LP

client
THE HOME BUILDER & HIS FAMILY

structural engineer
BUFKIN ENGINEERING

general contractor
ABODE MODERN HOMES

photography
PAUL BARDAGJY

project type
RESIDENTIAL HOME



AUSTIN, TEXAS, US



This modern, Tex-Mex stunner was meant to be a spec home. But something unexpected happened about halfway through construction: the homebuilder and his wife fell so in love with Bercy Chen Studio's design, they decided to keep the house for themselves and move their family in before completion. And who could blame them? Not only is it located in a historically bohemian area of the always-hip Austin, Texas; it's a beautiful interaction of materials and intersecting volumes.

"It's a striated house with a bottom layer of strategically laid out concrete walls and a top layer of floating wood boxes, both materials mimicking one another in a way," says Thomas Bercy, principal architect at Bercy Chen Studio. "The house is layered in form and contains an intimate courtyard with a pool at its center. The spaces are open yet intimate, receiving plentiful natural light throughout."

For the floating wood boxes, Bercy specified a beautiful knotty grade of Western Red Cedar and finished it with a lustrous gray-white finish. As he explains the reason for this choice was threefold.

Setting the tone

A beautiful knotty grade of cedar was used extensively on the home's exterior to create a rich, warm texture.



WE USED CEDAR BECAUSE OF ITS WARMTH AND THE UNIQUE SILVER PATINA IT WILL DEVELOP OVER TIME DUE TO THE STAINING PROCESS."

— THOMAS BERCY, AIA

"Cedar adds a great deal of warmth to a project that otherwise comprises concrete, glass, and steel," says the award-winning architect. "The silverizing subsequent to treatment with the stain makes the wood look especially unique in this context. Last, as aforementioned, using the same material as form work on the concrete and siding on the house allowed for a dynamic play between the two materials that make up the exteriors."

Plans for this beautifully curated material palette no doubt played a big part in why the homebuilder's family weren't willing to give it up.

"They loved the idea and had worked with cedar before, though not exactly in this process," explains Bercy. "They loved the finished product and plan to utilize it again on future projects." ●



WESTERN RED CEDAR SPECIFICATIONS

grade	KD SELECT KNOTTY
size	1 X 6 T&G
fastening	STAINLESS STEEL NAILS
applied finish	TRANSPARENT STAIN



Lessen the leftovers

As part of the project's environmental goal, the entire home is designed on a 4' x 4' grid to minimize material waste and conform to standardized material sizes.



Community spirit

Considering how architecturally eclectic and varied the surrounding homes are, this project's innovative program fits right into the neighborhood.

09

High Meadow at Fallingwater

IN RESONANCE
WITH SPACE



architect
BOHLIN CYWINSKI JACKSON

client
WESTERN PENNSYLVANIA
CONSERVANCY

structural engineer
K2 ENGINEERING INC.

general contractor
FAIRCHANCE CONSTRUCTION
COMPANY

photography
NIC LEHOUX,
ALEXANDER DENMARSH
& BOHLIN CYWINSKI JACKSON

project type
DWELLING UNITS FOR
FALLINGWATER RESIDENCY
PROGRAM



MILL RUN, PENNSYLVANIA, US



When it comes to designing a summer residency for architecture and design students at the Fallingwater Institute, not just any space will do. Add to that, the designated site is up the hill from none other than Frank Lloyd Wright's iconic residence (but you know—no pressure). For this unique challenge, the clients—the Western Pennsylvania Conservancy—hired Bohlin Cywinski Jackson, an internationally renowned, award-winning firm that specializes in exceptional architecture that resonates within its place.

Bill James, an architectural designer at Bohlin Cywinski Jackson, explains how he and the team did it: "We positioned the structure between forest and field. We framed the vista of the meadow and valley with simple wood interiors. To impart minimal disturbance to the site, we set the structure lightly above ground on a network of nimble steel columns and delicate tectonics."

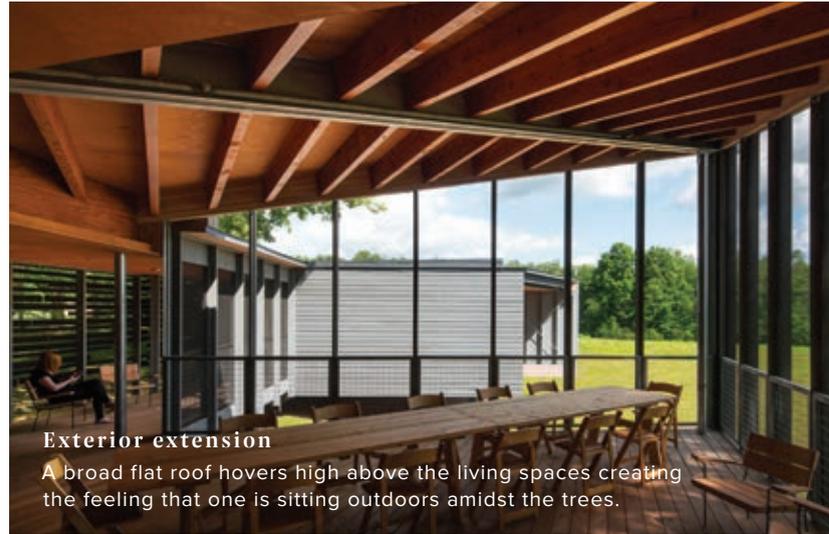
“The building’s main entry welcomes visitors into a central screened porch,” continues James, “which joins the new architecture to an existing 1950’s split-level cabin and serves as the outdoor gathering and dining space. It has become the heart of the project.”

As a key component of the overall program, Bohlin and his team wanted to use a naturally beautiful building material that would complement the site’s stunning backdrop. They opted for Western Red Cedar—something the practice has used on previous projects with great success.

“Here, we chose finer grades and finishes for points of entry and aperture: doors and windows, for its stability and comfort to touch,” says James. “And then we chose more rustic grades and finishes to create depth, texture, and humility to the façade. The structural grades were used where the members’ strength was required.”

As per the client’s request, these cedar applications also worked to unify the formal elements of the building and update the existing structure.

“They were very pleased with how it refreshed an older, split-level home and created an overall cohesive composition.” ●



Exterior extension

A broad flat roof hovers high above the living spaces creating the feeling that one is sitting outdoors amidst the trees.



WESTERN RED CEDAR SPECIFICATIONS

grade

KD SELECT KNOTTY & KD ‘A’ CLEAR VERTICAL GRAIN

size

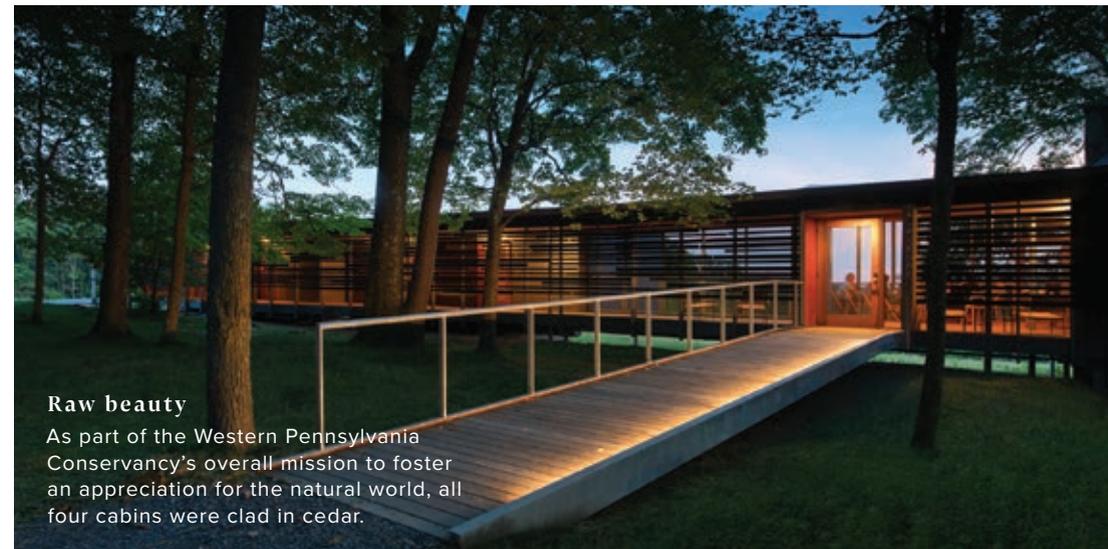
1 X 6, 2 X 4, 2 X 6 & OTHER VARIATIONS

fastening

STAINLESS STEEL

applied finish

TRANSPARENT & SEMI-TRANSPARENT STAINS



Raw beauty

As part of the Western Pennsylvania Conservancy’s overall mission to foster an appreciation for the natural world, all four cabins were clad in cedar.



OUR PRACTICE HAS USED WESTERN RED CEDAR ON MANY PROJECTS OVER THE YEARS, BOTH COMMERCIAL AND RESIDENTIAL, AND WE CONTINUE TO TURN TO IT FOR ITS BEAUTY, RESILIENCY, AND AUTHENTICITY.”

— PETER BOHLIN, FOUNDER, BOHLIN CYWINSKI JACKSON



Protruding project

Anchored by a weathered cedar clad bedroom wing, a bold concrete cantilever projects the living and dining spaces into the dense forest and toward the view.



10

One North

RAISING THE BAR
ON SUSTAINABILITY
& DESIGN



architect
HOLST ARCHITECTURE

client
KARUNA PROPERTIES II, LLC

structural engineer
FROELICH STRUCTURAL ENGINEERS

general contractor
R&H CONSTRUCTION

photography
ANDREW POGUE

project type
MIXED USE, (OFFICE, RETAIL,
RESTAURANT, ETC.)



PORTLAND, OREGON, US

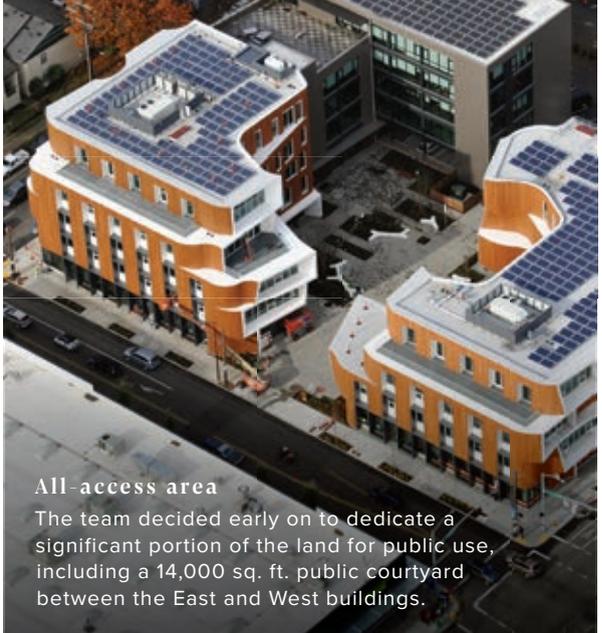


When the client is a climate policy advocate and celebrated leader in the local sustainability movement, an architect is not only expected to meet green building standards, but to raise the bar for future community developments. That's exactly what Holst Architecture did with its design for One North, a mixed-use project in the heart of Portland, Oregon. The two buildings, comprised of office, retail and restaurant space, was commissioned by renowned environmental lawyer/developer, Eric Lemelson.

"To reach the highest levels of sustainability for the project, we translated passive house tactics, which have been studied mainly in residential construction, into the commercial project," explains Kevin Valk, partner and design director at Holst Architecture. "Additional sustainability strategies include a super-insulated airtight building envelope, exterior shading, highly efficient mechanical systems, and the near-elimination of thermal bridges."



WESTERN RED CEDAR GAVE THE PROJECT A UNIQUE APPEARANCE AND TEXTURE.” — KEVIN VALK



All-access area

The team decided early on to dedicate a significant portion of the land for public use, including a 14,000 sq. ft. public courtyard between the East and West buildings.



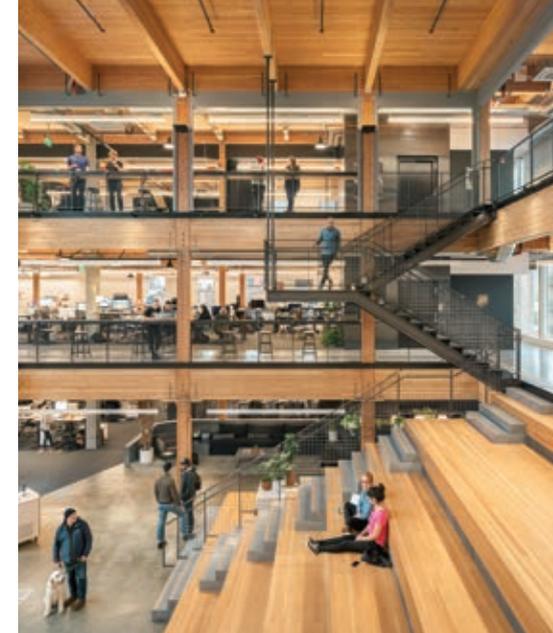
Sustainable selection

Western Red Cedar siding was selected because woods such as WRC leave the smallest carbon footprint than any other building material.



Design-wise, One North was inspired by Lemelson’s passion for the architecture of Antoni Gaudi. As such, both buildings boast beautiful wavy exteriors synonymous with the distinctive style of Catalan modernism. Adding to the drama—as well as lending a distinctive Pacific North West style—the rippled façade is clad in nature’s most versatile building material.

“One North’s unique curves are complemented by its equally striking Western Red Cedar siding, a feature that also reflects the team’s commitment to exceeding industry standards,” says Valk. “It was important to the developer to know precisely where the siding material was coming from, reaching beyond CSA and SFI certification.”



In terms of specifications, the team opted for a knotty grade of cedar. This added warmth and texture to the exterior. It also helped keep the project’s overall costs down, as knotty is a cost-effective choice as well. It’s just one of the many ways Lemelson and co. were able to break new ground in the world of economically and environmentally sound design. The hope is other architects and developers will take note.

“He didn’t want One North to be a one-off,” says Valk of Lemelson’s main objective. “He hoped that the lessons learned from this project could be shared with the community and that the favorable return on investment would encourage other developers to adopt similar sustainability goals.” ●



Raising the bar

The aim for One North was to achieve the highest levels of sustainability in a way that supported the community and incorporated unique design attributes.



grade
KD SELECT KNOTTY

size
5/4 X 4 T&G

fastening
COATED SCREWS

applied finish
SEMI-TRANSPARENT STAIN

11

Scottsdale's Museum of the West: Western Spirit

OLD WEST IMPACT



architect
STUDIO MA, INC. (PHOENIX)

client
CITY OF SCOTTSDALE & OPERATED BY THE SCOTTSDALE'S MUSEUM OF THE WEST

structural engineer
RUDOW + BERRY

general contractor
CORE CONSTRUCTION & LGE DESIGN BUILD

photography
BILL TIMMERMAN

project type
MUSEUM



SCOTTSDALE, ARIZONA, US



With this project, Studio Ma answers the age-old question: what happens when Old West meets contemporary design. The 38,279-square-foot, two-story Scottsdale museum features an outdoor courtyard, gift shop, interpretive spaces, as well as galleries for permanent and traveling exhibitions, and a multi-use space for gatherings and audiovisual presentations. Expertly combining modern forms with traditional materials, the stunning venue has garnered a lot of positive attention from both visitors and architecture aficionados alike since it opened its doors in Scottsdale's historical and increasingly hip downtown hub.

"The museum is not only a leading attraction for regional culture, but it has also been applauded as an iconic building and a catalyst for an urban community," says Studio Ma principal, Christina Moss.



Old West inspiration

The public space of the \$11.5 million museum is organized as a series of galleries in a “U” or horseshoe shape, forming a central courtyard.



WESTERN RED CEDAR COMPLEMENTS THE COLLECTIONS AND EXHIBITS, AND IT REINFORCES THE DESIGN MOTIF BASED ON ICONS OF THE WEST.”

— CHRISTIANA MOSS, AIA



WESTERN RED CEDAR SPECIFICATIONS

grade

KD SELECT KNOTTY & KD ‘A’ CLEAR

size

VARIES

fastening

STAINLESS STEEL

applied finish

(INTERIOR) TRANSPARENT FINISH

(EXTERIOR) SEMI-TRANSPARENT STAIN

As part of the interior’s textured and tactile palette, Studio Ma opted to use Western Red Cedar extensively throughout including all entry doors to the reception, ticketing area, and courtyard, the 10-foot-high barn door and wall paneling outside the elevator, galleries and other spaces.

Cedar siding also appears at the high ceilings above the stairs, low ceilings at galleries and the museum store, interior doors in public spaces and wall base.

“It is an essential and impactful building material for this composition,” adds Studio Ma principal, Christopher Alt.



Evoking early settlements

Natural light from the courtyard becomes a central, organizing element for the museum, reminding visitors of the quality of the western landscape.



Southwest winners

Studio Ma won “Firm of the Year” at the AIA Arizona awards for projects such as this cedar-clad museum.



Beautiful inside and out

The Western Red Cedar siding also appears at the high ceilings above the stairs, low ceilings at galleries and the museum store, interior doors in public spaces, wall base, and interior and exterior signage.

Homage to land and legends

The materials and design of the Museum take inspiration from icons of the west and the characteristic red cliffs and mesas of the Colorado Plateau.



12

ECCO Hotel & Conference Centre

HUMAN + HABITAT
EXPERIENCE



architect
DISSING+WEITLING ARCHITECTURE

client
ECCO

structural engineer
INGENIØR'NE

general contractor
THE CONSTRUCTION CONTRACT
WAS DIVIDED INTO LOTS BY
TRADE. THE LOCAL COMPANY
KRAFTMAN DID ALL THE
CARPENTRY.

photography
ADAM MØRK

project type
HOTEL & CONFERENCE CENTRE



TØNDER, SYDDANMARK, DENMARK



Located near a marshy area by Denmark's blustery North Sea, the environmental goal for this PlusEnergy project was to build a structure that produces more energy than it uses. The design goal, meanwhile, was to blend into the unique scenery and maximize the human/habitat experience for hotel guests throughout the year. DISSING+WEITLING architecture delivered on all fronts via sustainable innovation, attention to detail and choice in material.

"You are a part of a constant relationship to the landscape, and are a natural part of a larger context in the main rooms and then you have the same landscape to yourself when you are in your room," explains Daniel V. Hayden, principal at DISSING+WEITLING. "The architecture is all about light, sound, craftsmanship and materials. Each gesture and each material has been carefully considered and developed to utilize and enhance the natural qualities of the various materials and this becomes part of your experience."



With that in mind, they clad the entire circular volume in vertical strips of Western Red Cedar.

“The narrow width of the pieces ensures that the circular form of the building is reinforced and not divided up into segments,” says Hayden. “The boards are left untreated so they will weather to a silver grey color, which will work beautifully with the surrounding grain fields.”

They also used cedar for the decking and moveable sun-screens of each room. In fact, cedar plays such a prominent role in the telling of this project’s story; it’s hard to imagine what it would have looked like with any other material.

“It would have been very difficult to achieve the same results with one type of wood had it not been cedar,” says Hayden. “The versatility of the material, the beauty of the various finishes, and its natural longevity made it the optimal choice for the project.” ●

Innate beauty

The window niches are treated with a natural oil which keeps the natural glow of the wood and helps create a warm “framing” of the view to the landscape outside all year round.

Perfecting proportion

The project is a super fine play on scales, from the overall scale of the building in the landscape to the small window seat in each room that provides a cozy place for each guest.



WESTERN RED CEDAR SPECIFICATIONS

grade

CLEAR HEART
VERTICAL GRAIN

size

VARIES

fastening

STAINLESS STEEL NAILS

applied finish

(INTERIOR) NONE
(WINDOW NICHES) NATURAL OIL
(EXTERIOR) NONE

Great Dane design

Presenting architectural challenges and opportunities, the low-lying area has a unique flora and fauna and is unlike any other natural landscape in Denmark.



THE CHOICE OF NATURALLY WEATHERING CEDAR WAS THE PERFECT CHOICE FOR THIS AREA.”

— DANIEL V. HAYDEN

At one with nature

The soft toning of the cedar structure allows the building to melt into the surrounding landscape.



ABOUT THE WESTERN RED CEDAR LUMBER ASSOCIATION

THE 11TH VOLUME OF THE CEDAR BOOK PROFILES STUNNING AND AWARD-WINNING ARCHITECTURE FROM INSPIRED ARCHITECTS AROUND THE WORLD. THESE ARCHITECTS CONTINUE A TRADITION THAT STARTED CENTURIES AGO WHEN THE INDIGENOUS PEOPLES OF THE PACIFIC NORTHWEST RECOGNIZED THE VALUE OF USING THIS UNIQUE WOOD SPECIES.

First Nations people recognized Western Red Cedar's natural durability, characteristics and versatility, making it the preferred choice for building ocean-going canoes and post-and-beam houses and lodges. Today's discerning architects and builders enhance their projects with this stunning, versatile and sustainable building material. Nature still knows best. Despite all efforts at imitation, no man-made product can match the beauty, performance and longevity of Western Red Cedar—something that this book, as well as the RealCedar.com online gallery, undoubtedly illustrates.

Western Red Cedar is one of nature's truly remarkable materials. It absorbs and stores greenhouse gases, generates less water and air pollution, requires less energy to produce than alternatives, and comes from a renewable and sustainable resource. More than ever before, we must find ways to reduce the pressure on our planet's environment and finite resources.

By choosing products with a light carbon footprint and by reducing waste, we can have a real impact on climate change now, and into the future. As part of their commitment to transparency, the Western Red Cedar Lumber Association has Environmental Product Declarations available for siding, decking and other products. We hope this book will inspire you to consider Western Red Cedar for your next project. ●



FOR MORE INFORMATION OR TO ANSWER ANY
QUESTIONS ABOUT WESTERN RED CEDAR PRODUCTS,
PLEASE VISIT REALCEDAR.COM.

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Need help selecting, specifying or sourcing the right Western Red Cedar products?
Contact the Western Red Cedar Lumber Association and we will be glad to assist.

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