



AEP SPAN
MAGAZINE

**DESIGN
TRENDS**

THE LATEST IN
ARCHITECTURAL METAL
ROOFING & SIDING DESIGN

2023 Edition

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ABOVE AND ON FRONT COVER: The Jefferson Apartments in Vancouver WA features a variety of Flex Series metal siding panels in 22ga Cool Zinc Gray and Cool Terra-Cotta along with Box Rib® metal siding in Cool Matte Black.

The Jefferson Apartments, located near the waterfront in downtown Vancouver, Washington, selected a blend of smooth and boxy corrugated metal siding panels to mimic the traditional look of a boxcar.

The nearly 82,000 sf complex is located adjacent to railroad tracks and offers a contemporary multifamily project in a transitioning area. This site offers a nod to the neighborhoods's history while raising the standard for housing and green design.

[READ THE FULL CASE STUDY HERE](#)

RESILIENCY & PERFORMANCE

In the world of architecture and construction, the choice of roofing and siding materials plays a crucial role in determining the longevity and performance of a building. This year, the architectural world has seen a significant shift towards sustainability and energy efficiency, and metal roofing and siding have emerged as the popular choice. The popularity of mixed-material facades continues to rise, with architects and designers combining metal siding with elements such as wood, brick, or glass to create visually striking contrasts. This trend is all about celebrating the unique properties of each material and using them to enhance the overall design.

Metal roofing and siding products have come a long way from the days of simple corrugated steel panels. Today's metal building materials offer architects, designers, and property owners more options than ever before when it comes to colors, textures, profiles, and finishes. This increased design flexibility allows metal roofing and siding to meet both aesthetic goals and functional performance requirements for all types of buildings.

This article will delve into the latest design trends in metal roofing and siding, exploring how these products can seamlessly integrate into diverse architectural designs. From replicating the appearance of traditional materials like slate and wood to embracing sleek and modern aesthetics, metal building components can be customized to match the designer's vision. AEP Span offers complete systems in various profiles, colors, textures, and coatings, empowering specifiers to choose products that complement their overall building design.

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5 Trends of 2023

*“Good design is sustainable design”
– Imran Amed*

Photo: Daniel Jeon, Louiejeon Photography
Products: Nu-Wave® Corrugated (Cool Regal Blue), Prestige Series® (Cool ZACTique® II), and Span-Lok™ hp (Cool Dark Bronze)

Beyond aesthetics, we will also discuss how metal roofing and siding remains a smart, sustainable building envelope solution. The latest engineering innovations allow metal products to meet energy efficiency, durability, and longevity goals. And metal is inherently recyclable, earning points for many projects seeking green building certifications.

As the demand for innovative and visually striking building materials grows, metal remains at the forefront of design trends. By embracing these trends, architects and designers can create buildings that stand the test of time and captivate and inspire.

1 - MIXED MATERIAL FACADES

The popularity of mixed material facades such as metal siding with contrasting materials like wood, brick, or glass, continues to rise. The contrast highlights the unique properties of each material. For example, exposed fastener metal siding can be combined with rough wood panels for an appealing blend of textures. Architects celebrate materiality by leveraging metal's sleek durability and wood's natural warmth.

2 - DIVERSE TEXTURES & FINISHES

There are more options than ever before when it comes to textures and finishes for metal. Vintage patinas, weathering steel, and rusted looks provide an aged, industrial vibe. Cool metal roofing with high solar reflectivity is also in demand for sustainability. Using different metal finishes adds visual interest to building exteriors. For example, a building could combine a weathered steel standing seam roof with a smooth rustic wall panel for an eye-catching contrast.

3 - SLEEK, MODERN AESTHETICS

Architectural design today embraces sleek, streamlined aesthetics for a contemporary look. Metal roofing and siding lend themselves well to this with narrow, minimalist panels in finishes like matte black. Standing seam metal roofs with clean lines and little ornamentation complement modern architectural styles. Slim, rib-free metal wall panels can create a refined, polished facade.

4 - SUSTAINABLE METAL MATERIALS

Sustainability is a major goal in architectural design today. Metal offers inherent sustainability with solar reflective "cool" metal roofing, recycled content metal panels, and recyclability. Solar metal roofing offsets energy use, while recycled content reduces environmental impact. Specifying metal products with sustainability certifications like LEED helps buildings achieve green status.

5 - CURVED & UNIQUE METAL SHAPES

Considering metal's flexibility for curved panels and unique building shapes, architects and designers are taking advantage of innovations in metal fabrication. Curved metal roofing and wall panels allow architects to create more dramatic, eye-catching building forms. Metal's flexibility allows it to be formed into tighter radii and more organic shapes than many traditional building materials. This allows for bold new building shapes with beautiful, curved facades, domed roofs, and unique metal accents.

[Explore Metal Products](#)

Eagle Valley Middle School



Featuring:

- **Prestige Series[®]**
- **HR-36[®]**
- **Flush Panel**

The Eagle Valley Middle School building in Carson City, NV stands out against the desert landscape with a *Cool Regal White* metal siding finish. This project utilized a mix of concealed and exposed fastener panels to create an energy-efficient and striking look.

Designer: Van Woert Bigotti Architects
Photo Credit: Vance Fox Photography



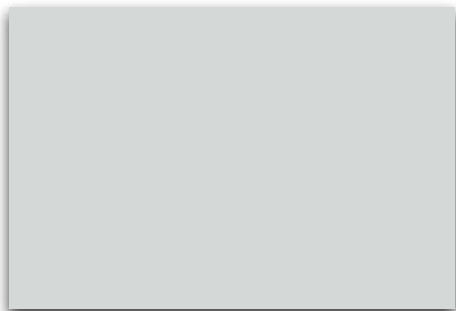
Prestige Series[®]



HR-36[®]



Flush Panel



Cool Regal White

SRI: 88 • LRV: 75



[EXPLORE OUR PANEL OPTIONS](#)

AEP Span Underlayment HT



PROTECT YOUR PROJECT GUARD YOUR INVESTMENT

AEP Span Underlayment HT is a high-tensile strength, SBS¹ modified rubberized asphalt underlayment specifically designed to withstand temperatures up to 250°F (121°C). Ideal for use under steel and aluminum metal roofing where a premium underlayment is desired.* This strong, skid-resistant membrane provides superior protection from water penetration caused by wind-driven rain and ice dams.

Features & Benefits:

- 1/4:12 minimum slope recommendation.
- Protects the roof structure from water seepage caused by ice dams and wind-driven rain.
- Withstands temperatures up to 250°F without degradation of the adhesive.
- Seals around roofing nails, staples and screws.
- Split-release film provides easier, faster installation.
- Resists cracking, drying and rotting; providing long-term waterproofing performance and low lifecycle cost.
- Concealed waterproofing system will not detract from the architectural aesthetics of the primary roofing system.
- Exposed rubberized asphalt bead along the membrane edge ensures watertightness of lap seams.
- 80-day UV exposure resistance from time of installation.
- Non-abrasive surface will not scratch or mar backside of panels through thermal movement.

Codes & Standards:

- UL Classified.
- ICC-ES ESR #2206.
- 2018 International Building Code™
- 2019 California Building Code™
- Meets ASTM D1970.
- ASTM E108/UL 790 Class A Fire Resistance.
- 2019 California Building Energy Efficiency Standards, Title 24.
- ICC/ASHRAE 700-2015 National Green Building Standard.



[LEARN MORE ABOUT UNDERLAYMENT HT](#)

* Can also be used with copper and zinc roofing products.
1 SBS (styrene-butadiene-styrene)

EMERYVILLE APARTMENTS

3900 Adeline

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The apartments at 3900 Adeline, nestle the border of Emeryville and Oakland in the lively Triangle neighborhood of Emeryville. The apartments are just minutes away from San Francisco and consist of 101 units spread accross four buildings.

Nu-Wave® Corrugated in a *Cool Metallic Champagne*, and Prestige Series® in a *Cool Matte Black* were installed in both a vertical and horizontal fashion, giving the siding a unique and appealing look.



Nu-Wave® Corrugated



Cool Metallic Champagne

SRI: 54 • LRV: 33



Cool Matte Black

SRI: 29 • LRV: 5



Prestige Series®

[FIND OUT MORE](#)

Vintage®

A Dynamic Metal Roofing & Siding Color

Vintage® offers a warm, classic-aged metal appearance, designed to maximize the natural light cast on your metal roofing and siding.

Its semi-translucent color allows for the character of the underneath metal to be visible, providing unparalleled depth and a distinct metallic sheen.

The dynamic nature of this finish plays on the changing light of its environment.



SRI 22 LRV 20

FEATURES / BENEFITS

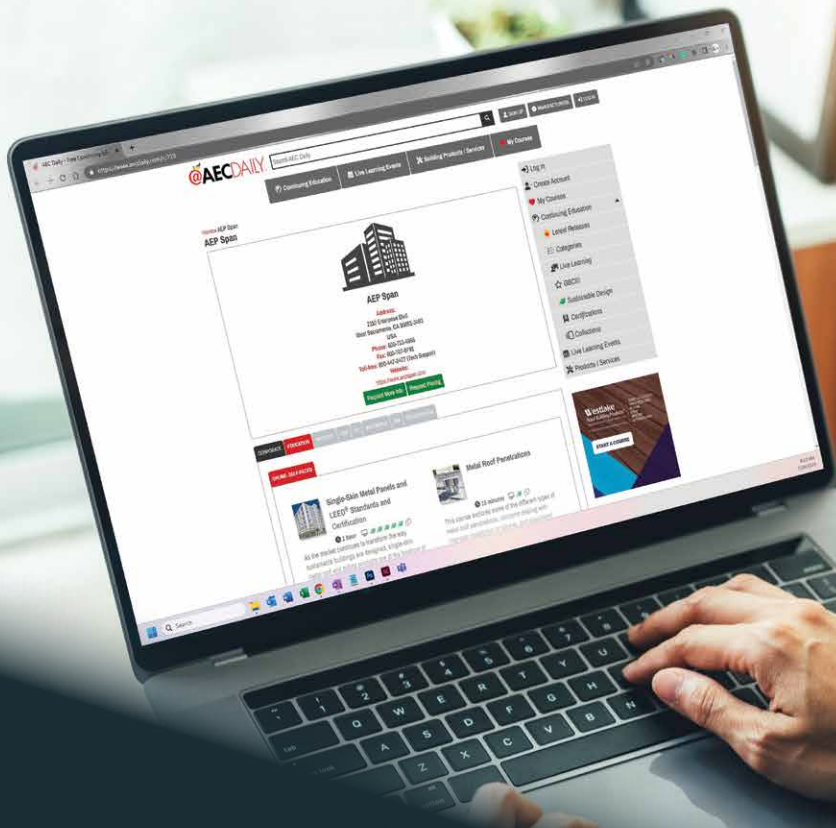
- Corrosion & graffiti-resistant
- Comes in a TruZinc® substrate
- Robust 20-year limited warranty
- For use in exterior & interior applications
- Offered in 24ga metal roofing & siding panels

FINISHES DEVELOPED BY



Alan Brandt Photography

[FIND OUT MORE](#)



Continuing Education

New Nano Course on AEC Daily



Metal Roof Penetrations

This course explores some of the different types of metal roof penetrations, concerns dealing with improper installation or failures, and associated details and installation practices to ensure a properly performing and long-lasting roof penetration.



Rated 1 SD symbol and contains minimal sustainable design information.



Registered with 24 industry associations



Online & self-paced. Experience it on your own schedule.



Course is Health, Safety and Welfare eligible.

**Earn .25 credit
in just 15 mins!**

SIGN UP TODAY!



Landmark Square Senior Center

Near the center of Old Town Clovis, sits this six-acre lot turned 35,000 sq ft Senior Activity Center, Transit Center, and Public Library. The Landmark Square project brings together the County of Fresno with the City of Clovis and was designed with sustainability, inclusion, and longevity in mind. The Senior Activity Center was completed in Summer of 2022 as the first of many project phases. A key element in achieving this project design was the use of long-lasting and energy-efficient metal roofing.

One of the main advantages of metal roofing is its long lifespan. Longevity was an important factor for this project as it was designed to be a long-term investment in the community. The roofing system chosen for this first phase was AEP Span's SpanSeam™ architectural metal roof system. SpanSeam is a performance-rated, mechanically seamed roof system featuring a 16" width spanning between the 2" high ribs.

The 2" ribs provide clean bold line aesthetics to the roof as well as a weather-tight design with its 180-degree seam. Unlike a directly fastened standing seam profile, SpanSeam requires a clip to fasten the panels down. The panels were fastened using a two-piece clip assembly to help manage thermal movement. Due to the large roof area and the Clovis climate, designing with thermal movement in mind was a key consideration.



SpanSeam™ Metal Roofing



ZINCALUME® Plus
SRI: 64 • LRV: 67



To ensure long-lasting protection and aid in the sustainability design element, a 22ga thickness in ZINCALUME® Plus coated metal was selected for the finish. The aluminum-zinc coating of ZINCALUME offers two to four times the corrosion resistance of regular galvanized products while also being energy-efficient. ZINCALUME Plus has a Solar Reflective Index of 61 which helps to reflect infrared heat and in turn, reduces the amount of energy required to cool the building during the hot summer months.

This first phase of the Landmark Square project is a great example of the benefits of using standing seam metal roofing for commercial projects. Metal roofing provides both functional and aesthetic benefits while also offering cost savings over the long term. Contrasting with other roofing materials that require periodic replacement, the community of Clovis will be able to enjoy these new structures for several decades with minimal maintenance.

Architect: Paul Halajian Architects

Installer: Pac Shield Roofing

Metal Siding Products: SpanSeam™ Metal Roofing

Metal Colors: ZINCALUME® Plus



[DOWNLOAD THE PROJECT SPOTLIGHT](#)

Community Relations

Our success relies on communities supporting our business and products. In turn, we live our bond, “Our Communities Are Our Homes” by supporting programs, events, and education within our community. Our strength is in choosing to do what is right.



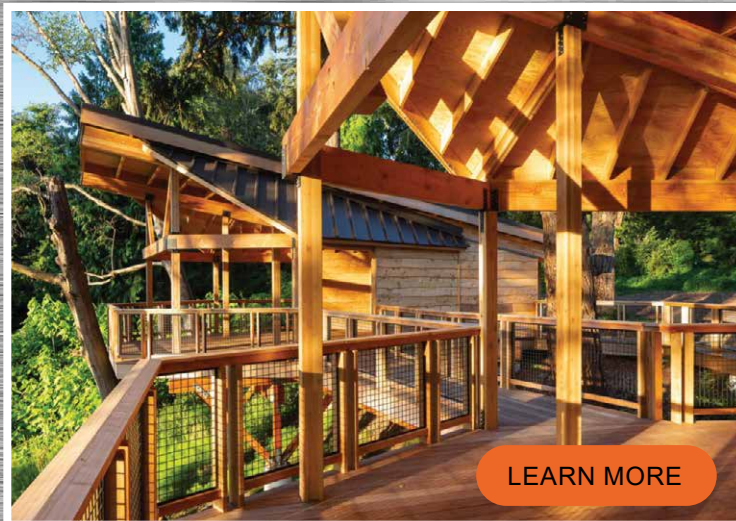
PARTNER SPOTLIGHTS

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Seattle, Washington 98168
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Burnt Rust

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A Rusted Metal Roofing & Siding Color

Naturally rusted metals offer a distinctive charm and nostalgic feel but come at the cost of performance and durability. Burnt Rust is a specialty finish from AEP Span which captures the natural beauty of oxidized metal while offering a 30 finish warranty.

Burnt Rust is suited to a broad range of environments and designed to compliment other natural elements such as wood siding and stone. Burnt Rust is the ideal color for standing seam roofing, corrugated panels, and flat metal siding.

The energy-saving “cool” paint technology behind this unique print is designed to better reflect the heat from the sun (infrared radiation), transferring less of the heat to the structure, and reducing building cooling costs.



XGRAB101
SRI: 36 • LRV: 13



FINISHES DEVELOPED BY



steelscape

www.steelscape.com



Visit www.aepspan.com to Request a FREE sample.

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