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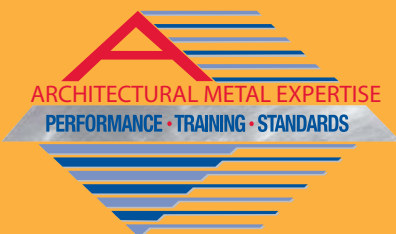
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Oregon Contractor Helps Restore An Historic Courthouse



Completed Restoration of the Franklin County Courthouse.

Architect: CKJT Architects

Sheet Metal Contractor: McBride Sheet Metal Inc., Portland, Ore.

Time and nature had not been kind to the appearance of the Franklin County Courthouse. The original courthouse was built in 1913 and was badly in need of an upgrade.

McBride Sheet Metal, of Portland, Ore., was called in to complete the historical restoration work on the courthouse, which included the removal of the old galvanized and zinc roof as well as the ornamental metal.

McBride tackled the job of matching the existing roof and ornamental metal objects – not an easy assignment. The job was challenging because all of the ornamental pieces had to be reproduced to match the existing ones. McBride was able to do this by making molds and forming the metal in the molds and then finishing each one by hand. The only items outsourced were the crestings.

For the restoration work McBride used Revere Classic Copper metal – 350 sheets of 20-ounce copper and 24 sheets of 24-ounce copper for the hammer work. They also used rosin slip sheet as well as a high temperature ice and water underlayment.

While working on the roof, the temperature reached an unbearable 122 degrees in the late afternoon. The men were able to stay cool by using wet towels and wrapping them around their heads as turbans.

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Oregon Contractor Helps Restore An Historic Courthouse

Continued from cover

Overall the restoration of the courthouse was a huge success thanks to the cooperation with the general contractor, Lydig Construction and CKJT Architects. "By teamwork and cooperation we were able to turn a very challenging project into one that was a pleasure to work on," noted Shirley McBride, owner of McBride Sheet Metal.



The very top of the dome was handmade.

On The Cover



The existing dome which was galvanized with zinc ornamentation.

Showcase Your Talents In The Next Issue Of This Architectural Metal Newsletter!

The Architectural Metal Newsletter is seeking recent architectural sheet metal or custom fab projects from SMACNA members for consideration in future issues.

We encourage SMACNA Contractors to share their stories of skill and architectural expertise. Simply send us your project photos along with pertinent details requested on a submittal form available on the SMACNA Web site at www.smacna.org/members/pdf/councils/ArchFabSubmit.pdf.

Photos should be of high quality and resolution. Please send all digital photos via e-mail, to Sarah Moore, communications manager, at smoore@smacna.org. For standard photographs or CD-ROMs, mail materials to: Sarah Moore, SMACNA, 4201 Lafayette Center Dr., Chantilly, VA 20151.

Contact Sarah Moore, at (703) 995-4036 or smoore@smacna.org for more information. ■

Your Fellow Contractors Are Waiting To Hear From You, Join SMACNA's Architectural Listserv

The architectural sheet metal contractors listserv is the most widely used SMACNA listserv.

Many SMACNA members rely on it as a sounding board for their questions on products or to pursue information on recent topics such as soldering or copper panel exposure.

Recently, listserv member David Meyer, of Ralph J. Meyer Co., wanted to know if anyone had experience in re-installing copper flat lock panels and if there was a method for cleaning the joints before soldering. Several contractors responded with varying opinions and methods. Several contractors felt that it is important not to pre-tin the panels too early and let them sit and get oxidized. They recommended installing and soldering the panels as you go instead of coming back and doing it later.

Another contractor suggested doing a mock-up of what you are planning and then leave the joint exposed for longer than it normally would be on the work-site, solder it, and then perform

some destructive testing. He also suggested that the need for an acceptable time for pre-tinned joints but at the moment there is no industry standard.

Why should you join the listserv? This electronic mailing list provides SMACNA members the opportunity to network with colleagues from all over the U.S. and participate in discussions like this one and receive information on various topics, current issues, or areas of concern.

Subscribing is easy. SMACNA members who would like to join the architectural listserv should send an e-mail to Jose Arias at jarias@smacna.org.

Your message can be as simple as "please subscribe me to the Architectural E-mail Listserv." Once you've been added to the list, you'll receive a confirmation from SMACNA and you'll be able to converse with the group members. It's easy to unsubscribe at any time – instructions are included with each e-mail. ■

FAB FOCUS

Custom Copper Hood Helps Transform Kitchen From Ordinary To Extraordinary

Custom Fab Project: Custom Copper Kitchen Hood, Private Residence, Windermere, Fla.

Sheet Metal Contractor: Vickers Metal Works, Orlando, Fla.

Vickers Metal Works Inc., of Orlando, Fla., took a design concept and turned it into a custom copper kitchen hood for a private residence in Windermere, Fla.

The project scope was to take a design concept from a photograph supplied by the custom home builder and interpret the design from the photograph in order to plan and fabricate a custom copper kitchen hood. Prior to fabricating the hood, Vickers Metal Works prepared and submitted the details for approval to the builder.

The sleek work of art is constructed of 48-oz. copper and measures 28 inches by 60 inches tall. The hood was given an antique finish and required 100 man-hours to fabricate. The custom antique finish was completed by American Metal Refinishers of Orlando, Fla.

The hood was fabricated in two sections, top and bottom, with all seams welded and finished to give a seamless appearance. The custom stainless steel filter and light housing were supplied by the contractor and were installed during fabrication.

Vickers Metal Works is a full-service custom and architectural sheet metal shop offering both fabrication and installation services.



The custom copper kitchen hood took 100 man-hours to fabricate.

A California Beach Residence Receives A Facelift

Architect: Secoy Architects

Sheet Metal Contractor: Atlas Sheet Metal Inc., Costa Mesa, Calif.

The craftsman at Atlas Sheet Metal helped transform this residence in Laguna Beach, Calif. into a modern beach home. The remodel design that the owner and architect created gave the home a contemporary look while also allowing it to blend with its surroundings.

Atlas Sheet Metal spent 425-man-hours on this custom home remodel that included a glass elevator enclosure structure, sheet metal crickets with coping, leader head and stainless steel down-

spout. All of these items were laid out and welded by a certified welder, cleaned and ground smooth, craned into place and welded on the job.

The 5 ½ inch x ¾ inch thick stainless steel metal pipe for the project was purchased from Titan Metals in flat sheets. The pipe was then sent out to be machined and coped. 24-gage 316 #4 stainless steel was also used for the project.

In addition, Atlas installed a stainless-steel handrail and column, one leader head and downspout threshold of 16-gage stainless steel, a 20-gage stainless steel kitchen hood vent cover, deck flashing, roof flashing, glass mounting brackets and stair treads.



Atlas Sheet Metal spent 425-man-hours on this custom home remodel



The custom home remodel included a glass elevator enclosure structure, sheet metal crickets with coping, leader head and stainless steel downspout.

Architectural Sheet Metal Council Forum Preview

Achieving Optimal Stainless Steel Performance

Stainless steel is a “hot” design material because it can be aesthetically spectacular while providing practical long-term performance benefits for sustainable construction.

Whether the application is a well-maintained lobby or a corrosive exterior location prone to vandalism, appropriately selected and fabricated stainless steels can remain attractive over the life of the building. Conversely, uninformed decisions can lead to expensive, unattractive mistakes.

Ms. Catherine Houska, an architectural consultant for TMR Consulting, will discuss how to achieve optimal stainless steel performance at this year’s Architectural Sheet Metal Council forum at SMACNA’s annual convention, Oct. 21 to 25, in Las Vegas.

She will emphasize how fabricators need to be knowledgeable so that unnecessary problems with flatness, finish quality and corrosion can be avoided. Attendees will learn about available finishes, specification tips to avoid common problems, and



Catherine Houska

how to evaluate the corrosiveness of the environment to ensure appropriate stainless steel selection. Examples of the latest design trends will be provided and case studies will be used to illustrate common problems and successful use of stainless steel materials. Industry association literature will be provided and free software tools introduced.

Ms. Houska is an architectural consultant for numerous industry associations including the Nickel Institute (NI), International Molybdenum Association (IMOA), Ornamental Metal Institute of New York (OMINY), and Specialty Steel Industry of North American (SSINA). She has provided technical assistance and given workshops to thousands of industry decision makers in North, Central and South America, Asia, Australia, New Zealand and Europe.

This presentation is sponsored by the Nickel Institute and International Molybdenum Association (IMOA).

For more information on the annual convention, Oct. 21 to 25, in Las Vegas, contact Mary Lou Taylor, director of meetings and convention at (703) 803-2998 or mtaylor@smacna.org. ■

A Hospital Receives A More Welcoming Facade

Architect: Zimmer Gunzul Frasca Architects (ZGF)

Sheet Metal Contractor: Kuenz Heating & Sheet Metal, St. Charles, Mo.

When a community hospital needed a new facade, the craftsmen at Kuenz Heating and Sheet Metal worked alongside architects Zimmer Gunzul Frasca to create something that would be visually appealing.

The \$1,055,000 job included stainless steel metal flat seam wall panels or metal shingles, Centria foam insulated wall panels and aluminum composite panels. The materials used were Rimex Green stainless steel, Centria foam panels and Universe Corp composite panels. The 420-flat sheets of Rimex material was manufactured (colored) in England and shipped to Kuenz for shearing and fabrication to the required sizes.

For Kuenz Heating and Sheet Metal the project proved to be particularly challenging because they had to be extremely precise when ordering the materials, as they were so expensive and took 14 weeks to get from England. The material was also harder to work with since it was 20-gage stainless and had a green anodized finish that could not be repaired, if scratched.

In addition, the building had numerous openings and vertical aluminum accent fins requiring special notched panels that had to be measured in the field. To keep the field crews going, they measured the accent fins while, the wall panels were being installed. The measurements were faxed to the shop for immediate fabrication. There were more than 300 different shapes and sizes of panels. It took five months to install 10,000-square feet of the metal shingles.

The Rimex green stainless steel material arrived in varying shades of green. Kuenz had to submit a color range to the architect for approval and Rimex had to color the sheets within that range. It is this variance in color that makes the finished product so interesting. The seam pattern and panel size are visible due to the range of colors and the panels change color depending on the light conditions.



The \$1,055,000 job included stainless steel metal flat seam wall panels or metal shingles.



The Rimex green stainless steel material was challenging to work with due to its green anodized finish that could not be repaired, if scratched.

New Jersey Contractor Appointed To Historical Board

Larry Plevy of Schtiller Plevy, of Newark, N.J., was appointed to Preservation New Jersey, the only statewide private membership-supported historic preservation organization in New Jersey.

Schtiller and Plevy Inc., historic preservation and architectural sheet metal contractors, are among a handful of fully accredited Historic Restoration Contractors nationwide. They are listed with the New York Landmarks Conservancy and the New

Jersey Historic Trust, and are also members of the Historic Restoration Education Foundation and the National Conference of State Historic Preservation Officers.

Schtiller & Plevy Inc., was established in 1920 in Newark, N.J. as a sheet metal fabrication shop. Owned and operated for three generations by members of the Plevy family, S&P has concentrated their efforts in the New York City metropolitan area. ■

Identification Of Personal Protective Equipment Hazards

Hazard identification is an ongoing process that is a critical component of any health and safety program. A basic safety management equation will include three principles – identification, evaluation and control of employee exposures to workplace hazards. Without the identification step, it is impossible to know where to focus your safety program efforts.

An example of the importance of hazard identification is a requirement in the Occupational Safety and Health Administration's (OSHA) General Industry Standard for personal protective equipment (PPE), 29 CFR 1910.132. A key requirement of this OSHA standard is to complete and document a "hazard assessment" of the entire workplace to "identify" the need for personal protective equipment. To address the "evaluation" and "control" aspects of the basic safety equation, the General Industry Standard states that "if such hazards are present, or likely to be present, the employer shall,"

- select the types of PPE that will protect the affected employee from the hazards identified in the hazard assessment;
- communicate selection decisions to each affected employee; and
- have each affected employee use PPE that fits properly.

A useful guide for accomplishing this assessment is Appendix B of the General Industry Standard. Appendix B is a set of non-mandatory compliance guidelines that may be used to perform a hazard assessment in any workplace. The standard and guidelines may be found on the federal OSHA Web site at www.osha.gov.

Free downloadable PDF copies of two applicable manuals are also available:

- The *SMACNA Personal Protective Equipment Manual* www.smacna.org/members/pdf/safety/PersProtEquip.pdf.
- *Assessing the Need for Personal Protective Equipment: A Guide for Small Business Employers* www.osha.gov/Publications/osha3151.pdf

Direct questions on PPE or hazard identification to Mike McCullion in the SMACNA Safety and Health Department at (703) 995-4027 or e-mail at mmccullion@smacna.org. ■

New Architectural PowerPoint Presentations – Now Available For Members

The Architectural Sheet Metal Council Steering Committee members have developed a series of architectural PowerPoint presentations for SMACNA members. These PowerPoint presentations may be used by SMACNA chapters to deliver a custom presentation at the local level in conjunction with local AIA chapters. Members may customize the presentation for new business presentations. These informative programs are approximately one to two hours in length and showcase stunning photographs of dynamic architectural work.

The PowerPoint presentations include additional pages for chapters and members to include extra slides and custom photos. The presentations also include a reference to SMACNA's Web site, the Architectural Expertise Web site, as well as related SMACNA products and/or publications.

Chapters and members may download the Power Point presentations from SMACNA's Web site at www.smacna.org/councils/asm/ or request a free CD-ROM of the following presentations:

- Restoration: New World Aesthetics Combined with Old World Techniques
- High End Architectural
- Interior Metals: Incorporating Metal into Interior Designs
- Custom Fabricated Metal Roofs
- Architectural Sheet Metal Manual

Additional architectural PowerPoint presentations underdevelopment include "Finishes," "Custom Wall Panels," "Training/National Organization," and "Shop Capability."

For more information contact Bridgette Bienacker, director, business management and membership, at (703) 803-2987 or bbienacker@smacna.org. ■

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Executive Editor: Rosalind P. Raymond
Editor: Sarah K. Moore
Layout/Design: Denise J. Ladd
Council Staff Liaison: Thomas J. Soles Jr.
Bridgette Bienacker



Sheet Metal and Air Conditioning Contractors' National Association
4201 Lafayette Center Drive • Chantilly, VA 20151-1209
Phone: (703) 803-2980 • FAX: (703) 803-3732

www.smacna.org