

The COPPER CONNECTION

*Architectural news
from Revere Copper*

Vol. II No. 1

To fit seamlessly into its natural environment of 127 wooded acres, international reinsurer Swiss Re chose Revere EverGreen pre-patinated copper for the roof and cladding on its new Main Office Building. To learn more about how copper is enhancing the picturesque setting at Swiss Re, see the Copper Cover Story, inside.

Revere is the U.S. market leader in architectural copper





COPPER COVER STORY

In rustic, woodland setting, Swiss Re finds EverGreen is a natural.

Swiss Re, an international reinsurance company with U.S. headquarters in Armonk, NY, recently completed construction of a new main office building. The 300,000-square-foot structure rests atop a hill, surrounded by 127 acres of woodlands and nature trails, yet seems very much a natural extension of the environment. One key reason: EverGreen pre-patinated copper by Revere.

Schnebli, Ammann & Menz of Zurich, Switzerland served as architects for the project, successfully blending modern architecture and classic elements within a very picturesque natural setting.

The four-story building required some 70,000 square feet of EverGreen standing-seam copper for the roof alone, plus additional Revere pre-patinated copper on the building's sidewall. The cladding works in harmony with another strong architectural element- the windows- creating a well-balanced visual effect. While the roof has already aged uniformly, project officials expect the wall to weather in a more indiscriminate manner, resulting in a one-of-a-kind architectural triumph.

Ann Daniel, a respected project manager with Adamson Associates of Ontario, was impressed with the Revere Product. "I'd look forward to using EverGreen again," she said, "because you can achieve the desired color almost immediately, instead of waiting years as with plain copper."

Coppertunities

Delivering the copper information you need

Revere is committed to bringing you practical, timely information, to consistently help you make the most of every copper opportunity. Here's a look at some of our ongoing efforts:

Literature updates Our growing library of technical literature now includes technical brochures for EverGreen™ and FreedomGray™. We are also continually revising and updating existing brochures, in order to provide you with the most current available Information.

Our renowned *Copper & Common Sense* is also under constant improvement.

Expanded Sales Service Department The people of our sales service department represent the

Most important link between Revere and you- the architectural community. That's why we're constantly dedicating more of our people to these efforts, resulting in better, faster responses, to all phone, fax and email inquiries.



We'd like to hear about how you're using Revere copper products. Please contact us or send your stories and photos for possible use in future issues of THE COPPER CONNECTION. Here's how to reach us:

*By phone:
1-800-950-1776*

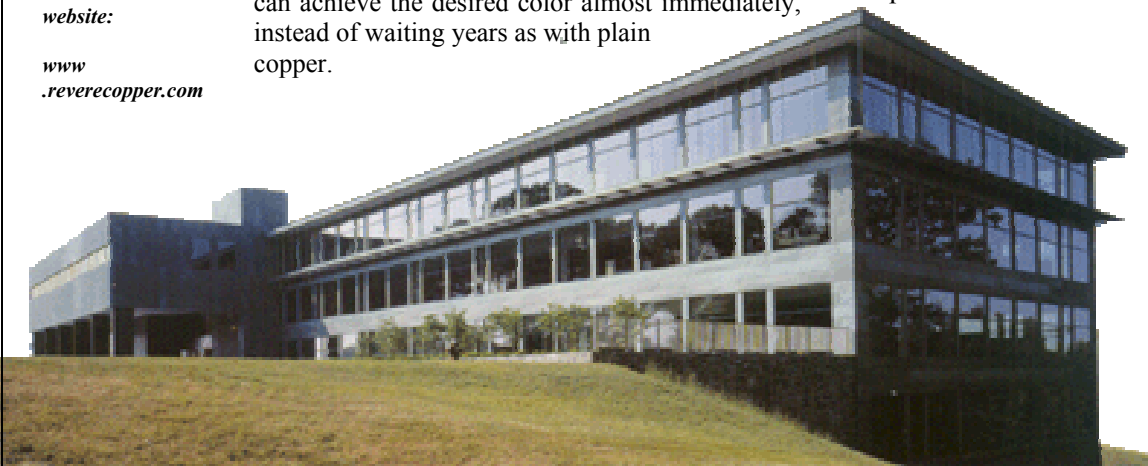
*By Fax:
315-338-2105*

*To request product literature call:
1-800-490-1776*

*E-mail:
Archcopper@
reverecopper.com*

Or visit our website:

*www
.reverecopper.com*





David L. Hunt has been with Revere Copper since 1968. He is one of the nation's foremost authorities On architectural copper, and is always ready to discuss your technical questions. He can be reached at 1-800-448-1776, ext. 2474, or email him: Archcopper@reverecopper.com

Website updates The revere website- <http://www.reverecopper.com/> – continues to evolve with new information. Check frequently for the most current details on new products, trends, tips, videos and other valuable material. The site is an archive for past issues of *The Copper Connection*, as well as our technical literature. Whenever we offer a new printed piece, look for it to be posted here.

Copper Seminar Requests for Revere's one-,two- and four-hour architectural copper seminars continue to grow. Developed with the architect in mind, these AIA/CES-registered seminars focus on emerging technical issues and unique advantages of designing, specifying and building with copper. Architects receive up to 12 Learning units by attending.

We urge you take advantage of Revere as your invaluable resource for copper information. E-mail us at archcopper@reverecopper.com, visit the Revere website, or call 1-800-950-1776.



Copper Conversation

Weathering of lead and lead-coated copper

Lead roofing, a centuries-old favorite of architects worldwide, has historically developed a warm gray patina when exposed to the atmosphere. The dome of the St. Paul's Cathedral by Christopher Wren is a perfect example.

Lead, however, is soft, weak, heavy and difficult to install. It has low resistance to creep and is quite susceptible to premature structural failure.

In the early 1900's, demand for a strong, lightweight, easy-to-install, durable gray metal led the copper industry to introduce lead-coated copper (LCC). LCC combines the strength and workability of copper with the aesthetics of lead. It cuts, bends, forms and installs the same as copper.

Upon atmospheric exposure, moisture and sulfur compounds reacted with the lead to create a dark gray sulfate patina. As environmental awareness grew in the latter half of the century, atmospheric sulfur levels were reduced. Pb0 and Pb304 began to appear in patinas of lead and LCC, not only in remote pristine environments, but also in suburban and urban areas.

Unlike lead sulfates and carbonates which are gray, lead oxides are red or orange. This color is a natural occurrence- it has nothing to do with how the LCC was produced or installed.

The oxides are generally stable and insoluble in water. While they can be removed by mechanical means, unless the LCC is artificially treated (and perhaps maintained) to induce a gray sulfate patina, it is likely the red/orange color will return.

Past weathering performance is no longer a guarantee of things to come. To satisfy the ongoing

Demand for a strong, lightweight, easy-to-install, Durable gray metal, Revere offers FreedomGray -tin/zinc alloy coated copper.



DLH
 Manager of
 Architectural Services