

The Stainless Rebar Standard



Kevin Cornell, Editor January 2008

SSR exhibiting and presenting at MCPX

Salit Specialty Rebar will be exhibiting in the Colorado Convention Center, Denver at the Manufactured Concrete Products Exposition (MCPX), February 7 to 9. In addition, SSR has been invited by the National Precast Concrete Association to present a paper on *Fabricating Reinforcement Cages* on Friday, February 8. Salit will be co-presenting with A.L. Patterson between 9:30 and 11:00.

The NPCA has recognized that one of the most important jobs in the plant is the proper fabricating of reinforcement cages. Even the slightest error in this process can weaken the tensile strength of the concrete by upwards of 15%. This course will reveal the delicate nature of rebar placement and highlight the importance of excellent craftsmanship in this area of the shop. This presentation is for those new to the shop and veterans who seek a refresher.

MCPX will bring together an estimated 6,000 manufactured-concrete producers, suppliers, engineers and other industry leaders. With more than 250,000 gross square feet of exhibit space filled with hundreds of suppliers offering thousands of products and services for the industry, MCPX is the largest trade show in the world, exclusively for the manufactured concrete products industry.

Salit Specialty Rebar and StelCrete are there to show what is new and improved in their operations and range of products that can benefit clients' production operations.

If you are planning to attend MCPX, visit booth 2133 to speak with a Salit Specialty Rebar representative.



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Projects built to last with stainless steel

Ridge Road Bridge Reconstruction

Salit Specialty Rebar Partner: Upstate Rebar

Reinforcing Steel: Duplex 2205

Web links for more information:

<http://www.ci.lackawanna.ny.us/ridgebridge.htm>

<http://www.ci.lackawanna.ny.us/mayordesk.htm>

Duplex 2205 was furnished for the Ridge Road Bridge replacement in Lackawanna, New York. The use of stainless steel in this bridge will protect the structure against corrosion from de-icing salts and ensure a long service life, despite the harsh Buffalo area winters.

Reconstruction of the bridge began in the spring of 2007. It involves the total demolition and rebuilding of the bridge over a period of three years.

The project was awarded to Oakgrove Construction of Elma who won the project with a bid of \$16,037,213.



University of Kentucky Pharmacy Building

Salit Specialty Rebar Partner: Ambassador Steel

Reinforcing Steel: Enduramet32

Web links for more information:

<http://www.mc.uky.edu/pharmacy/building/index.html>

<http://www.mc.uky.edu/pharmacy/building/webcam.html>

The University of Kentucky Pharmacy Building is a recent project calling for Enduramet32 Stainless Steel. At 280,000 square feet, it will be the largest academic building in Kentucky. This new building will include innovative research facilities designed to foster collaboration among researchers in chemistry, biology and pharmaceutical lab areas.

Ohio State University Rhodes Hall

Salit Specialty Rebar Partner: Ambassador Steel

Material: Enduramet32

Enduramet32 stainless steel rebar was furnished for the Ohio State University MRI Replacement project at Rhodes Hall in Columbus, Ohio. Enduramet32 is ideal for MRI units because of its long service life and non-magnetic properties.

Mitchell Physics Building and Institute at Texas A&M University

Salit Specialty Rebar Partner: Concrete Protection Products and CMC Sterling

Reinforcing Steel: Enduramet32

Web links for more information:

<http://www.tamu.edu/home/spotlight/archives/construction.html>

Texas A&M University plans to complete construction on two new physics buildings and an interdisciplinary life sciences building by the end of 2009. Enduramet32 was supplied for the research trench of this project.

BAPS Chino Hills Hindu and Religious Cultural Center

Salit Specialty Rebar Partner: Pacific Coast Steel

Reinforcing Steel: Enduramet32

Web links for more information:

<http://www.chinohillshindumandir.org/index.html>

http://www.chinohillshindumandir.org/construction_diary/2007/08.28.07_mandirprep-concretepour.html

Enduramet32 was provided for this nearly 165,000 square foot Hindu Temple and cultural center. It will be a new center for the ongoing spiritual, social and charitable work of the BAPS Swaminarayan Sanstha. It is also a cultural complex which will provide unique educational opportunities and foster inter-religious and inter-cultural harmony, because the facility will be open to the public for visitation. Opening of the cultural center is scheduled for summer 2008.

Northwestern University Richard and Barbara Silverman Hall for Molecular Therapeutics & Diagnostics

Salit Specialty Rebar Partner: Ambassador Steel

Reinforcing Steel: 316LN

Web links for more information:

<http://www.northwestern.edu/fm/design/current/proteomics/index.html#description>

In partnership with Ambassador Steel, type 316LN stainless steel was provided for the Richard and Barbara Silverman Hall for Molecular Therapeutic & Diagnostics. The four-story building with mechanical penthouse is scheduled for completion in fall 2009. It will include an NMR suite, core and laser labs, an imaging suite, laboratories, student offices, faculty offices and conference rooms.

Bookmark the Salit Specialty Rebar Web site

The Salit Specialty Rebar site at **www.stainlessrebar.com** describes the application of stainless steel rebar and mesh in corrosive environments and provides a listing of most common applications. In addition, a selection of projects in both the USA and Canada has been posted for quick reference. The projects include photos and brief descriptions.

Salit Specialty Rebar (SSR) stocks over 1,000,000 lbs of stainless rebar allowing the company to be responsive to the needs of its North American customers. SSR stocks all sizes of rebar including imperial and metric, and grades 316LN and 2205. The plant uses a stainless-only production line to eliminate contamination from black carbon dust.

Contact information provides the coordinates for the plant location and key personnel. Kevin Cornell can be reached at kcornell@stainlessrebar.com and Gena Peters at gpeters@stainlessrebar.com.

SSR's traveling road show is a call away

Salit Specialty Rebar (SSR) has long recognized the importance of meeting with clients and client groups to keep them updated on recent developments in the industry, fluctuating steel costs as they continue an historical rising trend, and applications of stainless steel rebar and mesh in association with alternate reinforcement products. SSR is a company within Salit Meyer Ltd. that can draw upon affiliated businesses within the Salit group of companies to supply a wide range of reinforcing products and services.

SSR has prepared presentations for use in Canada and the USA that can be delivered to designers and specifiers at their office, to groups at trade shows and conferences, or during education sessions at special events.

As one of North America's foremost suppliers of stainless steel rebar and mesh, SSR is prepared to present information on the many topics associated with the use of stainless steel in concrete structures. The company has a history of supplying reinforcing products for high profile projects in a wide range of environments and project requirements. Its staff is prepared and willing to share information during the planning stage of major works.



Concrete is the most common building material on the planet. With a global movement toward sustainable development and projects to last for generations, stainless steel has a role to play in the performance of precast and cast-in-place concrete structures. SSR staff is a resource that can provide field information on realistic expectations related to structures reinforced with stainless steel. Contact Kevin Cornell at kcornell@stainlessrebar.com or 1-877-299-1700 to arrange for a presentation.

Breaking News

Concrete not blamed in Johnson Report on collapse of Laval Viaduct

The Report of the Johnson Commission revealed that the main causes of the collapse of the viaduct were badly placed and insufficient reinforcing steel, poor worksite supervision, poor maintenance, badly done repairs between 1994 and 2000 and the use of concrete not intended for freeze-thaw conditions. On this last point, the Commission notes that the design engineer of the project specified the wrong type of concrete, even though the right type of concrete was prescribed in the construction standards prevailing at the time. Responsibility is thus placed on the consulting engineer, the contractor and sub-contractors, as well as the Québec Ministry

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of Transport, which states that it endorses all the recommendations of the report. The government of Quebec has recently allocated \$11.6 billion over the next four years for bridge and overpass maintenance under the management of a new independent agency. (Source: Cementics, Nov. 2007, Cement Association of Canada)

2008 Concrete Bridge Conference – HPC – Safe, Affordable, Efficient

The 2008 Concrete Bridge Conference is being held May 4 to 7 at the Hyatt Regency in St. Louis, Missouri. The conference is the premier national venue for the exchange of ideas and information on all aspects of concrete bridge design and construction – the 2008 CBC is sponsored by the National Concrete Bridge Council, Federal Highway Administration, Missouri Department of Transportation, and the American Concrete Institute. Over 100 papers in multi-track technical sessions will feature state-of-the-art topics fresh from design boards, research laboratories and construction sites, presented by experts from all facets of the concrete industry.

The conference will feature technical presentations on:

- Bridge Aesthetics, Bridge Decks, Construction Techniques, Contractor Alternates and Value Engineering, Creative Concrete Bridges, Design & Retrofit for Seismic Forces, Detail & Construct for Durability, Design-Build Projects
- FHWA Innovative Bridge Research & Construction, Rapid Bridge Construction, Monitoring Bridge Condition, Quality Control/Assurance,
- Innovative Concrete Bridges
- LRFD Issues, Structural Performance, Post-Tensioning Technology, Segmental Concrete Bridges, Specifications
- Research, Service Life & Life Cycle Cost, Design for 100 Years, Design

The conference will feature:

- Quality technical program
- Professional networking
- Informative expo
- Exciting venue, social events, and guest program

A panel of leading state, design, producer, and contractor representatives will discuss field experiences, design recommendations, and construction practices to assure successful construction and performance of lightweight concrete bridges.

For more information and registration, visit www.NationalConcreteBridge.org/cbc

Subsidies Fuel China Steel Exports

Massive government energy subsidies have fueled China's transformation into the world's largest producer and exporter of steel, according to a new study released January 8. In 2007, energy subsidies to Chinese steel are estimated at approximately \$15.7 billion, showing a 3,800 percent increase since 2000," the study prepared for Alliance for American Manufacturing, a U.S. industry group, said. The report provides new ammunition for U.S. steel companies that complain Chinese government subsidies are responsible for a surge in steel imports from that country. Imports totaled 5.35 million tons in 2006, more than double the 2005 level. Source: Washington – Reuters.

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