Products & Practice

REUSABLE ANCHOR PROVIDES FALL PROTECTION

The Saflok® Concrete Wedge Anchor can be reused again and again, lowering operating costs and increasing productivity. The anchor is designed to be inserted into a predrilled hole in concrete, providing a safe, fall arrest-rated 5000 lb (2270 kg) anchor point for a personal fall arrest system, work positioning system, rescue system, or horizontal lifeline system. Installation and removal take just seconds. The easy-grip trigger and quick-release plug boosts productivity by providing fast and easy attachment and release for added worker satisfaction. It's designed for use in cured concrete with compressive strengths of at least 3000 psi (21 MPa). For added safety, a forged connection ring provides a compatible tie-off point for a personal fall arrest system. The retractor cables are shielded from damage caused by grinding against the concrete lip of the hole.

—Capital Safety
www.capitalsafety.com

DOCUMENT MANAGEMENT PROGRAM KEEPS E-MAIL ORGANIZED

Mail Manager is a plug-in for Microsoft Outlook that allows users to file, find, and share e-mails easily. It was created by the architecture firm Arup to meet the specific needs of architecture and engineering professionals. With Mail Manager, filing becomes a seamless and simple part of the e-mail process rather than a task to do later. It saves storage space, reduces network traffic, and virtually eliminates the need to print e-mails. It helps improve project management by filing e-mails into one location where everyone can find them. The fast search option works even when users are disconnected from the network, making it ideal for mobile workers and telecommuters. Mail Manager for BlackBerry, provided free of charge to all Mail Manager users, allows users to file e-mail directly from their BlackBerry handheld device.

—Oasys Software
www.oasys-software.com

VACUUM FILTERS OUT DUST

The compact CS 1500K wet/dry vacuum is designed primarily for concrete and masonry dust pickup, as well as normal debris cleanup. With the "Y-adapter" to connect two tools, it's ideal for use on scaffolding and other tight spaces. The vacuum's heavy-duty plastic poly filter bag holds up to 10 gal. (38 L) of fine dust and allows for simple, safe disposal. The vacuum can also be used with a porous slurry filter bag to capture the heavy waste encountered while drilling or sawing wet concrete. The grit and concrete debris are collected while water passes easily through the special bag into the tank, allowing for easy disposal of the captured slurry. The clean water can be reused, or the tank can be emptied. The CS 1500K features a water detection sensor with automatic switch-off when the maximum filling level in the tank is reached. The vacuum has a 13 gal. (49 L) canister volume and a 25 ft (7.6 m) cord.

—CS Unitec, Inc.
www.csunitec.com

GLASS FIBERS HELP CREATE UNIQUE STADIUM FAÇADE

Cem-FIL® alkali-resistant (AR) glass fibers took the field during the 2010 FIFA World Cup at Soccer City Stadium in Johannesburg, South Africa. The newly redesigned stadium features fibreC® concrete panels from Rieder Smart Elements reinforced with Cem-FIL AR fibers, reducing the weight and thickness of the concrete by up to 10 times. The fibers enhance building life and durability by resisting corrosion, fire, UV light, and temperature variations.

The lightweight concrete panels promote design freedom. The façade of the stadium evokes a traditional African calabash cooking pot, requiring markedly curved panels. By enabling thin and light panels, the Cem-FIL fiber helped make it possible to create these sculpted forms without compromising strength and resilience.

"Products like Cem-FIL are indispensible in changing the way building materials can perform," said Wolfgang Rieder, CEO of Rieder Smart Elements. "The world is changing and the solutions we deliver must change along with it. This is a revolutionary time for the construction industry."

—Owens Corning
www.owenscorning.com

SHRINK WRAP PROTECTS STRUCTURES

When structures are being built and inclement weather arrives or a project goes on hold, there is no simpler or more cost-effective solution for asset protection than Fast Wrap. It combines an innovative technique of mobile shrink wrap asset protection with a specialized film with anti-microbial, weather-resistant, and nearly 100% UV protection properties. No object is too big to wrap and only environmentally conscious, easily recyclable materials are used, making Fast Wrap the answer to many of the construction industry's most prevalent needs. Fast Wrap can protect heavy equipment and supplies at the job site, so there's no need to transport them to offsite storage to protect them from the elements while not in use. Using Fast Wrap, contractors can save time, effort, and money.

—Fast Wrap
www.fastwrapusa.com

FORMWORK SOLUTIONS ON DISPLAY DURING SOCCER GAMES

To prepare for the recently completed 2010 FIFA World Cup, stadiums in Durban, Cape Town, Nelspruit, and Bloemfontein, South Africa, were constructed or enlarged with the help of PERI formwork and scaffolding systems.

The 340 mm (13 in.) thick reinforced concrete slab of the seven-story grandstand in the Greenpoint Stadium in Cape Town was formed using PERI panel slab formwork Skydeck with Muiltiprop slab props. Through the low individual weights of the aluminum components and the systematic assembly sequence, work could be carried out quickly and with minimal effort. In addition, the Skydeck drophead system ensured short stripping and cycle times. Connected with Muiltiprop frames, the slab props were also used as shoring towers, meaning that the cantilevered formwork for the slab edges could be supported for the height of several floors.

The PERI Trio panel formwork and the Vario GT 24 girder wall formwork played crucial roles in the construction of the Moses Mabhida Stadium in Durban. The highly versatile Trio system was used to form ballast tanks underneath the stadium structure, architectural concrete walls of the five access tunnels to the field, and three enormous abutments for the arch support structure of the stadium roof. The versatile Vario GT 24 wall and column formwork system was used for the construction of numerous reinforced concrete columns and elevator shafts as well as the grandstand raker beams.

For the construction of the Mbombela Stadium in Nelspruit and the Vodacom Park Stadium in Bloemfontein, the PERI Muiltiprop system provided high load-bearing capacities and a high degree of flexibility—finding use as individual slab props and frame-connected shoring towers. Multiflex girder slab formwork combined with UZR beam wales were used to build both slabs and beams. Using GT 24 formwork girders allowed large spans, which meant many intermediate supports could be avoided.

—PERI GmbH
www.peri.com

Web Notes

LAFARGE LAUNCHES DECORATIVE CONCRETE WEB SITE

Lafarge has launched a new Web site dedicated exclusively to its unique range of decorative concrete, Artevia. The site, **www.artevia-us.com**, aims to extend information about Artevia to key audiences such as architects, contractors, landscape professionals, and homeowners. The site features video, project profiles, information on color options, and more. Artevia's beautiful patterns and textures are now easily accessible online and demonstrate the possibilities of using Artevia concrete for exposed aggregate finishes, stamped concrete, and many other decorative surfaces. The Web site also highlights the partnership that Lafarge shares with its preferred applicators through the PRO Artevia Network. Consumers will appreciate the pictures of numerous projects successfully placed by PRO Artevia Network Applicators throughout the U.S.

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Book Notes

BUILDING CODES ILLUSTRATED
by Francis D.K. Ching and Steven R. Winkel

The third edition of *Building Codes Illustrated* is an accessible and trusted interpretive guide to the 2009 International Building Code® (IBC) for architects, builders, engineers, and interior designers. In a visual format created expressly for design-minded readers, this handy reference helps professionals understand how the code can be applied to a building. It extracts the core parts of the 2009 IBC that are most relevant for professionals and distills the building codes to the essentials. While the book's organization corresponds directly with the 2009 IBC, it's not intended to replace the code. Rather, it serves as a starting point to simplify and enhance research so the reader can be sure projects begin and remain up to code and free of costly mistakes.

Wiley, Web site: www.wiley.com; price: $55; 432 pp.; ISBN: 9780470191439

Product&Service Literature&Videos

TRAINING VIDEOS AVAILABLE FOR NEW SOFTWARE VERSION

Life-365 Service Life Prediction Model™ is a standardized software model developed by a consortium of industry associations established under ACI's Strategic Development Council in 1998. It's used to evaluate the service life of steel-reinforced concrete structures by comparing different strategies and techniques for increasing the service life of the structure. Version 2.0.1, the most recent release, includes a unique default feature that allows the user to override the model input values to input regional or project-specific data. A series of new training videos on the dedicated Web site, **www.life-365.org**, provides short tutorials for users interested in learning the many specifics and functions in the model.