



Blastcrete RD6536 Skid Steer Pump Attachment

Blastcrete Equipment LLC's RD6536 Skid Steer Pump is compatible with any skid steer brand and provides a fast, efficient solution for pumping grout, 3/8 in. (10 mm) shotcrete, and 3/4 in. (19 mm) structural concrete mixtures. The attachment features Blastcrete's 3 in. (76 mm) hydraulic squeeze pump and provides variable speeds of 0 to 25 yd³/h (19 m³/h). Contractors can pump materials 250 ft (76 m) horizontally and up to 50 ft (15 m) vertically with the use of a rubber delivery line. The receiving hopper includes a hydraulic agitator that keeps the mixture well-blended, ensuring aggregate and sand stay evenly suspended.

—Blastcrete Equipment, www.blastcrete.com

Atlas Copco LED Light Towers

Atlas Copco HiLight P2+, V2+, and V3+ LED light towers can be powered from an auxiliary power source, a portable generator, or the grid. The HiLight V2+ and V3+ are housed on four-wheel trailers. Both models have a heavy-duty steel frame, stainless steel mast, and polyethylene bumpers. The HiLight V2+ provides a 320-watt LED light source that covers about 21,500 ft² (2000 m²). The HiLight V3+ is equipped with four 160-watt LED bulbs with specially designed directional glass optics capable of illuminating an area of about 32,000 ft² (3000 m²). Both the V2+ and V3+ have manually operated vertical masts that extend up to 18 ft (5 m). The towers are designed to withstand wind speeds of up to 50 mph (80 km/h). The HiLight P2+ features the same glass optics as the HiLight V2+, but provides 360-degree coverage. The light source is housed within a dampproof cylindrical polyethylene housing with built-in cooling to maximize operating lifetime. The manually elevated vertical mast provides a maximum operating height of 11 ft (3 m).

—Atlas Copco, www.atlascopco.us



ELE Pocket Penetrometers for Field Testing Concrete and Soils

ELE International concrete and soil pocket penetrometers are used for indicative measurements in the field. The soil pocket penetrometer evaluates consistency and approximate unconfined compressive strength of soils. The pocket penetrometer's scale was developed by ELE Soiltest after the compilation of several thousand unconfined compressive strength tests of various soil types. The concrete penetrometer helps measure setting time of concrete, mortar, and grout mixtures. The test can be used to assess the effects of admixtures, water content, or cementitious materials.

—ELE International, www.ele.com



Products & Practice

Thermafiber SAFB FF and UltraBatt FF

Owens Corning's formaldehyde-free Thermafiber® mineral wool insulation solutions help users achieve green building standards. SAFB™ FF (Sound Attenuation Fire Blankets) batts provide acoustical control and fire protection in interior walls and floor/ceiling fire-rated assemblies and are noncombustible, moisture-resistant, noncorrosive, and mold-resistant. The new formaldehyde-free Thermafiber light density products can be used for applications in education, healthcare, and other institutions committed to indoor air quality. UltraBatt™ Formaldehyde-Free insulation batts are designed to provide thermal insulation, fire resistance, and noise control in residential and light commercial construction. UltraBatt FF is more dense than traditional batts or rolls and is easy to install.

—Owens Corning, www.owenscorning.com



PENETRON Helps Preserve Visitor Center at Historical Site

Penetron Specialty Products (PSP) was an integral part of the dampproofing treatment to restore and protect the aging courtyard structures of the Visitor Center at the Ocmulgee National Monument Park in Macon, GA. The Ocmulgee National Monument Park features eight earthen mounds, which were erected between 900 and 1000 CE; and the Earth Lodge, a reconstructed council chamber of the Mississippian culture. The Park's Visitor Center is housed in an Art Deco building, a two-floor structure built in the 1930s. The center's courtyard had insufficient drainage, so the original dampproofing membrane had fallen into disrepair. The courtyard's concrete pavers were removed and a new membrane was constructed, using a combination of the Penetron VB 225 moisture mitigation system and SURFIX Screed Set. Two coats of VB 225 were applied—the second coat with a sand broadcast ensured an excellent bond for the SURFIX Screed Set. To ensure adequate drainage, the latter was installed with a thickness of 6 in. (152 mm) at the high end and 1/2 in. (13 mm) at the lowest point, over a distance of 30 to 40 ft (9 to 12 m). A hot-applied roofing membrane was installed to the broom-finished SURFIX Screed Set surface, and the existing concrete pavers were put back into place and adjusted to their proper elevation.

—PENETRON, <https://penetron.com>

Stinger Electric Flex Shaft Concrete Vibrator

Minnich Manufacturing's Stinger electric flex shaft concrete vibrator has a 12.9 lb (5.9 kg) universal motor and can drive Minnich vibrator shafts and heads from 3/4 to 2-1/2 in. (19 to 64 mm). Available in 15-amp (115-volt) and 7.5-amp (230-volt) options, the Stinger offers a speed range of 11,000 to 13,000 vibrations per minute. The unit comes standard with a quick disconnect that adapts to the vibrator shafts and heads of many other manufacturers. A durable, protective frame extends vibrator life with urethane end caps that absorb shock while supporting easy-to-grip handles.

—Minnich Manufacturing, www.minnich-mfg.com



SeeHerWork Women's High-Performance Work Wear

SeeHerWork, a new apparel company, created products that are specifically made for women. SeeHerWork sells work wear, safety equipment, and other job-specific products. The line includes eye protection, tool belts, and gloves. Clothing options include vibrant colors and reflective materials. Products are lightweight and can be layered for shifting climate conditions. SeeHerWork will launch in mid-September 2018.

—SeeHerWork, <https://seeherwork.com>

OxBlue Cobalt Series Camera

OxBlue's The Cobalt Series, a time-lapse camera for the construction industry, monitors and documents projects. The camera is encased in a rugged enclosure built to withstand harsh conditions found on jobsites. The system provides 96 degrees horizontal and 73 degrees vertical fields of view, is autonomous, and provides a 4G LTE connection supported by dual antennas. The backup battery serves as an instant power supply to relay diagnostics to OxBlue if the camera loses power.

—OxBlue Corporation, <https://oxblue.com>

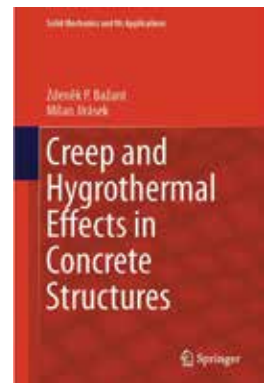
Book Notes

Creep and Hygrothermal Effects in Concrete Structures by Zdeněk P. Bažant and Milan Jirásek

This book is divided into two parts. Part I covers the essentials required for designing structures, including basic properties of creep, shrinkage, and drying; structural effects of creep; and numerical analysis of creep problems. Part II covers advanced topics, including moisture transport in concrete; physical and statistical justifications of RILEM Models B3 and B4; and temperature effects on water diffusion, hydration rate, and creep and shrinkage. Numerous appendices provide discussions of creep models, moisture transport, and other topics. The work grew out of various courses taught by each of the authors. It is intended for university researchers and educators, members of committees formulating design recommendations, and practicing engineers designing or evaluating creep sensitive structures such as large-span prestressed bridges, supertall buildings, large roof shells and nuclear containments, excavation linings, and offshore oil platforms. Parts of the book can be used for teaching graduate level courses. Supplementary materials will be made available at <http://mech.fsv.cvut.cz/ConcreteCreep>.

—Springer Science+Business Media B.V., www.springer.com

ISBN: 978-94-024-1136-2



Web Notes

Simpson Strong-Tie Blog for Construction Professionals

The Simpson Strong-Tie Building Strong blog provides insights to help construction professionals design and build safer, stronger structures. Issues of special interest or importance include proper installation methods and new design technologies. The Building Strong blog will include articles on topics such as safety, codes, and compliance; residential and commercial construction; building resilience; emerging trends; and industry insights.

—Strong-Tie Company Inc., www.strongtie.com

Products & Service Literature & Videos

Mortar Net Solutions Quick Tips Videos

Mortar Net Solutions™ videos include tips on installing a CompleteFlash™ inside corner boot, the best way to cut the TotalFlash termination bar, and how to install TotalFlash in a step-down section of a masonry cavity wall. Each Quick Tips video features comprehensive text instructions plus narration and demonstrations by Mortar Net's Engineering and Construction Manager Steven Fechino.

—Mortar Net Solutions, <https://mortarnet.com>