

OPERATIONS • MARKET DEVELOPMENT • PRACTICE

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Concrete[®]

PRODUCTS

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SPRAGUES' SLURRY MANAGEMENT SOLUTION



California producer pilots water recycling system with closed-loop, zero-discharge processing and an operation ready for tougher regulations

TRIPLE PLAY: DRY, WARM, STURDY FOUNDATIONS

Ensuring dryness, Superior Walls' 5,000-plus-psi concrete is moisture resistant, even without additional on-site damp-proofing sprays or bituminous coatings. Moreover, a specified crushed-stone footing and perimeter drain direct water away from the foundation.

Warmth also is built into Superior Walls foundation systems. Since research indicates that over 33 percent of heat loss through the basement occurs at the top 24 inches, a continuous layer of insulation is bonded directly to the concrete. R-12.5 or R-5 insulation throughout wall panels minimizes thermal transfer, and prestudded wall panels include extra cavity space to allow added insulation for maximizing R-value up to R-50-plus.

Superior Walls components are fabricated in a controlled plant environment to ensure that foundations are built to highest industry standards. The concrete is reinforced with steel rebar, making it stronger than traditional foundations, product engineers affirm. Certified trained crews install the systems typically in less than one day.



Fiber-cement siding contributes to the New World Home's Platinum LEED certification

New World Home achieves historic 'green' milestones

Among landmark achievements of the New World Home is certification by the U.S. Green Building Council as Georgia's first Platinum LEED [Leadership in Energy and Environmental Design] factory-built home, as well as the first Platinum LEED home of any type in Georgia designed without need for renewable energy sources, such as solar panels, wind turbines or geothermal systems. Features contributing to the project's LEED for Homes Platinum certification include an insulated, moisture-resistant precast foundation that reduces potential for growth of mold and mildew, plus maintenance-free, fiber-cement siding, offering rot-, flame-, and insect-resistant exterior surfaces.

Additionally, the New World Home project—located in East Cobb County—earned EarthCraft Gold certification, as well as the National Association of Home Builders' National Green Building Certification Gold. Its trademarked New Old Green Modular (NOGM) design platform incorporates a holistic approach to historically inspired green building, the company notes, resulting in homes constructed to exacting standards in less than 100 days. NOGM homes reportedly are distinguished from conventional modular structures by two primary features: (1) their design is historically inspired while integrating modern conveniences and amenities; and, (2) a 'whole systems' approach incorporates stringent 'green' standards in building practices and product selection.

"Bringing green design to the highest level," affirms Mark Jupiter, New World Home cofounder and Product Division president, "this home reflects our mission to provide traditional-style houses that incorporate a 'whole systems' approach, resulting in a minimum 50 percent energy savings annually, reduced water consumption by thousands of gallons a year, a nontoxic indoor environment, and thousands of dollars a year in maintenance-cost savings, starting from day one—without an array of solar panels on the roof or a wind turbine in the backyard."

The homes are built with lumber from sustainably harvested forests certified by the Forest Stewardship Council (FSC) and incorporate ultra-efficient HVAC systems, as well as low- or no-VOC [volatile organic compound] paints, adhesives and finishes. In addition to a precast foundation and fiber-cement siding, NOGM standard features include:

- Spray-foam insulated walls and rafters, creating an air-tight thermal envelope
- Low-E, argon-filled, dual-pane, energy-efficient windows that reduce air leakage



The East Cobb County, Ga., project showcases one of New World Home's traditional and regionally derived American designs, illustrating what company founders describe as perfect alignment with surrounding design vernacular, while providing one of the greenest residential structures currently available nationwide.

- Watersense fixtures, home-run plumbing, and a tankless water heater that reduces annual water usage by 40 percent
- Framing techniques that significantly reduce waste and thermal-bridging energy loss
- Non-added formaldehyde cabinets, floors and trim
- Energy Star-rated doors, windows, roof, ceiling fans and appliances

All New World Home NOGM designs are LEED for Homes certifiable at a base level. Notes New World Home Chief Executive Officer Michael Natbony, "We're offering a sustainable—even transformative—way to design and mass produce the greenest homes on the market, a turn-key 'green' housing solution accessible to as many people as possible."



Salisbury-based Superior Walls of North Carolina supplied and installed the home's precast foundation.