**SLENDERWALL®**

Architectural Precast/Steel Stud Building Panels

**A Complete System, Inside and Out**

**PRECAST CONCRETE**

SleenderWall 2" thick architectural precast panels are only 30 lbs. per square foot, 66% lighter than traditional precast, allowing for lower structural and foundation costs. Precast concrete is available in a vast array of Class "W" finishes, colors and textures. Lighter weight also means larger panels, lower erection costs and faster schedules. More panels per truck load reduces shipping costs.

**G90 STUD FRAME**

Ready for drywall, integrated heavy-duty G90 galvanized steel stud framing equates to fewer on-site trades and faster construction schedules.

**THERMAGUARD®**

Stainless steel fasteners create a thermal-break/barrier connection by forming a variable gap between the concrete and steel-stud frame, reducing energy costs. The system utilizes both standard headed and refractory fasteners to incorporate flexibility and strength.

**CLOSED CELL FOAM**

Drywall attaches directly to stud frame, or attach hat channels when extra depth is needed.

**FACTORY WINDOWS**

Optional: Factory-installed windows provide greater control over the quality of installation. Performed at ground level in a controlled environment, the process improves fit, sealant application, and provides for close-up visual inspection. Factory-windows allow for faster erection schedules, fewer on-site trades, and lower overall costs.

**SECOND NATURE® + CLASS “A” ARCHITECTURAL FINISHES**

Second Nature® is the only architectural precast concrete brick reproduction approved by historical societies and architects for use on high profile architectural projects. It looks like hand-laid brick, without the time, labor and leaky mortar joints.

**LIFT-AND-RELEASE™**

Optional: SleenderWall’s exclusive panel-lending system that makes the installation process faster and easier (no need for crane to wait while connections are made).

**H2OUT™**

Optional: The only pressure-equalized, in-the-joint rainscreen sealant system with street-level leak detection. If the sealant joint ever fails, leaks exit to the outside of the building and can be located within a localized containment area. No water intrusion guaranteed!

**Johns Hopkins Hospital**

Baltimore, MD

Overcladded with panels utilizing Thin-Brick inserts

The design team strategized on how to address the exterior, and make it completely weathertight and add sufficient insulation. "It needed to be a lightweight system and it had to match the Johns Hopkins signature brick aesthetic on campus. “ The only product we found that met all our criterion was SleenderWall.”

Dan Mc Kelvey, Associate Principal & Envelope Expert, Ayers Saint Gross

**U.S Army Legal Services**

Fort Belvoir, VA

33,338 sq. ft. erected in just 14 days!

Architect: Perkins & Will

**ARCHITECTURAL PRECAST/STEEL STUD BUILDING PANELS**

- Johns Hopkins Hospital
- Overcladded with panels utilizing Thin-Brick inserts
- The design team strategized on how to address the exterior, and make it completely weathertight and add sufficient insulation. "It needed to be a lightweight system and it had to match the Johns Hopkins signature brick aesthetic on campus. “ The only product we found that met all our criterion was SleenderWall.”
- Dan Mc Kelvey, Associate Principal & Envelope Expert, Ayers Saint Gross

**Closed-cell foam continuous insulation. In addition, foam provides primary air and vapor barrier for exterior wall. SleenderWall precast building panels with closed-cell foam insulation have been lab tested to meet 2012 IECC Thermal Requirements from Zone 1 through 8.**
Why Use Precast?
Precast concrete has become the architectural cladding material of choice wherever superior aesthetics and construction economy are decisive considerations. Architectural precast combines the benefits of durability, low maintenance, excellent fire resistance and energy efficiency. Manufacturing in certified plants also reduces weather related delays and increases quality control standards.

VERSATILITY
The true beauty of precast is found in the architectural effects that can be achieved. Custom-made forms are used to create panels in the precise sizes and shapes. These forms introduce reveals, joints, patterns, and other detailing to the panel surface. Specific color effects can be achieved by varying sands, aggregates, and pigments. Textures can be customized through the use of differing levels of sandblast and acid etch treatments. Stone, tile or brick veneers can be cast into the panels, giving architects compelling visual effects.

ECONOMICAL & FAST
SlenderWall panels are economical to produce, erect, and maintain. Substantial cost savings can be achieved by taking full advantage of reduced foundation and structural requirements, shortened erection schedules and fewer on-site trades.

TIME TESTED DURABILITY
Concrete has proven through centuries to be the reliable choice for building construction. Low maintenance and resistant to the effects of time, Mother Nature and Human Nature are the hallmarks of this material.

A TRUE VALUE
SlenderWall combines the benefits of high durability, low maintenance, excellent fire resistance and energy efficiency. This creates an ideal solution for high-rise towers, where emphasis is on prestige, luxury, safety and aesthetic appeal, or lower-rise structures, where economy and durability are paramount.

Tested & Certified
Earthquake, hurricane and tornado level testing establishes SlenderWall as the system of choice for severe conditions. All tests were performed by certified independent testing laboratories using nationally recognized standards and methods. Detailed reports are available upon request.

- Air Infiltration..........................ASTM E283
- Static Pressure Water Resistance.....ASTM E331
- Dynamic Pressure Water Resistance...AAMA 501.1
- Structural Performance..............ASTM E330
- Seismic Movement (Interstory)......AAMA 501.4
- Thermal Cycle.........................AAMA 501.5
- Thermal Transmittance...............AAMA 1503
- Thermal Performance..............ASTM C1363
- Sound Transmission..................ASTM E90
- In-situ Water Test.....................AAMA 503.03
- Fire Resistance Rating.............ASTM E119

Additional Ratings:
- Wind Load Test: 226MPH, 130PSF
- Florida Hurricane Code: NOA #09101.05
- Blast Resistant Design
- Fire Rated: NFPA 285

More Information
- CALL US TODAY with questions or to initiate a quote - (540) 439-3266.
- Contact us to schedule a Lunch & Learn.
- Visit www.SlenderWall.com for more technical information, project case studies, news, and test reports.
- Register online for access to AutoCAD typical detail files and specifications.

SlenderWall Performs
SlenderWall is a hi-performance, thermal and fire code compliant, architectural panel system that combines proven technologies into a single efficient solution for new construction, re-cladding or over-cladding.

Healthcare • Hospitality • Institutional Offices • Mixed-Use • Multi-Family • Schools

Who Benefits?
Developer
— Save money & time upfront
“SlenderWall was the right solution for us.”
Lou Haddad, CEO & President, Armada Hoffler

Architect
— Superior Aesthetics & Versatility
“For this project, SlenderWall was cheaper, better and faster to install than alternative construction methods. After all of the options were evaluated, the obvious choice was SlenderWall.”
Mr. Doug Carter, AIA, Davis, Carter, Scott

Engineer
— Fully Tested Performance
“Our overall objectives of design flexibility, sound construction, and speed of building erection – all at economical costs – were made possible with the SlenderWall panel system.”
Tom LePage, Project Engineer, Barr & Barr

Contractor
— Tighter Erection Schedules
“SlenderWall was chosen for 2 main reasons… it is a continuation of a product that we knew worked well and because of the effectiveness of erection. We had potential tenants and needed to turn around the space quickly.”
Stan Link, Senior VP Construction, Corporate Office Properties Trust (COPT)

Owner
— A Product That Lasts
“We went to Virginia to study the panel system for a project in another state, and we were impressed by its capabilities. So we decided to use the system again for the Alexander.”
Fred Daibes, Owner, Daibes Enterprises