

Technical Design Guide: 07 42 00

Introduction

What is SLENDERWALL®? (www.slenderwall.com)

SLENDERWALL® is a proprietary, lightweight, permanent, exterior cladding, architectural precast concrete/steel-stud building panel wall system with extraordinary design flexibility.

The SLENDERWALL® panel's exterior surface is 2-inches of reinforced high-strength architectural precast concrete. The inside surface is 16 gauge, 6-inch galvanized steel studs spaced vertically at 2-foot centers. The architectural concrete is connected to the steel-stud frame with THERMAGUARD™, a proprietary connection system utilizing insulated, stainless-steel welded Nelson® anchors.

It is the only wall system that combines these four time-tested, proven design components to create an integrated exterior wall system weighing about two-thirds less than conventional architectural precast or brick:

1. *high-strength architectural precast concrete*
2. *hot-dipped galvanized welded-wire-fabric reinforcing steel*
3. *insulated epoxy-coated stainless-steel Nelson® anchors*
4. *heavy-gauge galvanized or stainless-steel studs.*

What Makes SLENDERWALL® Different?

It provides designers with unique and limitless design flexibility and function...*plus* SLENDERWALL® has five proprietary features yielding benefits that no other wall system provides.

Exclusive to the SLENDERWALL® system

- *Duraflex 360°™ technology (allows 360° differential movement that isolates the precast concrete from the superstructure)*
- *THERMAGUARD™ connection system — epoxy-coated anchor with thermal-break protection (prevents corrosion and reduces thermal transfer by as much as 25%)*
- *Lift-and-Release™ panel installation (facilitates easier and quicker installation process)*
- *H₂Out™ secondary water-drainage system (further eliminates moisture conditions)*
- *Second Nature™ architectural precast concrete brick finish (APCB...the only Class A precast brick on the market with the quality level necessary for Class "A" commercial projects)*

These additional benefits of the SLENDERWALL® system establish it as the premier exterior wall system of choice for major projects:

- Superb architectural design flexibility (limitless combinations of architectural precast textures, colors, shapes and finishes)
- Superior durability
- Permanent components
- Plant-produced quality
- Lightweight (about 30 lbs. per square foot compared to approx. 85 lbs. for heavy architectural precast)
- Economical (reduces building foundation and structure costs plus shipping and installation costs)
- Makes cantilever designs practical
- Mounts outboard of the floor slab, yielding bonus square footage on each floor
- Perfect for both re-cladding and new construction
- Smaller cranes and fewer trailers to jockey

Independently Performance Tested: SLENDERWALL® has been fully tested and meets the required ASTM and AAMA standards. (Copies of all tests are available from EASI-SET®, or see SECTION 4 of the Architectural Portfolio/Technical Design Guide.)

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Who Produces SLENDERWALL®?

SLENDERWALL® is manufactured solely by PCI- and/or NPCA-certified architectural precast concrete producers *who are also* certified licensees of EASI-SET® Industries. PCI and NPCA are the two premier associations in the precast concrete industry. For specifics on each producer, see SECTION 6 of the Architectural Portfolio/Technical Design Guide, or please contact EASI-SET® by phone: 540-439-8911 or 800-547-4045; or by website: www.easiset.com

SLENDERWALL® was developed over 15 years ago and has changed forever how the world builds. EASI-SET®-licensed producers have enhanced the architectural industry with more than 50 SLENDERWALL® projects in 11 states and the District of Columbia. (See SECTION 2 of the Architectural Portfolio/Technical Design Guide for examples of completed SLENDERWALL® projects or visit the SLENDERWALL® website at www.slenderwall.com.)

Who Is EASI-SET® Industries? (www.easiset.com)

EASI-SET® is a licensing organization staffed with multi-skilled, experienced, creative and innovative professionals from the precast concrete industry. Our mission is to find, develop, and distribute cutting-edge precast technology to qualified producers worldwide and to license them to manufacture EASI-SET®-represented products. EASI-SET® also provides engineering and technical support, design development, training, and marketing expertise to its licensees. Technical support is also offered to architects, owners, engineers and developers.

EASI-SET® was established in 1978 and represents proprietary, state-of-the-art precast concrete products that are presently being manufactured worldwide by licensed producers in 23 States, and 11 other countries, including Mexico and three Canadian Provinces. EASI-SET® is the only licensing organization in the precast concrete industry that represents multiple lines of products.

What Is The EASI-SET® Role In SLENDERWALL® Projects?

The many benefits of EASI-SET® include working with architects, designers, owners and contractors to incorporate the SLENDERWALL® product into plans and specifications of construction projects. Our staff of professional sales people, engineers, drafters, and coordinators is available to discuss your design questions and to assist you in developing your projects while ensuring a smooth transition to the selected EASI-SET®-licensed producer. We are committed to providing designers with expertise from project conception to completion, and our design team will work closely with you and the selected producer every step of the way to ensure that your SLENDERWALL® project meets the highest possible design and manufacturing standards.

Since every project is unique in its own way, it is always recommended that you contact EASI-SET® or your nearest SLENDERWALL® producer early on in the design process to develop high-quality, value-engineered solutions up-front. In this way, you can be assured that your custom designs will have the support of one of the most experienced precast teams in the industry. To contact EASI-SET®, please call 540-439-8911 or 800-547-4045 ...or visit our website at www.easiset.com

Who Should Use This Guide?

This Technical Design Guide is presented as a resource for architects, owners, developers, designers and engineers. The intent is to provide information that will aid you in the design-development process of your building project when choosing the SLENDERWALL® system. The ultimate goal is to ensure the profitable execution of your project with a successful blend of quality, beauty and economy. However, since there is so much versatility with SLENDERWALL®, it is not possible to cover every option or detail. Therefore, we will be sending you periodic technical specification updates so please be sure to keep us informed of your current contact information. We also invite you to provide us with *your* innovative ideas for SLENDERWALL® applications.

NOTE: *The SLENDERWALL® building system may not be suitable for use in every possible application and must be installed correctly in order to be installed safely. Only a qualified professional can determine whether SLENDERWALL® is suitable for a particular application or whether a particular installation has been done correctly or safely. EASI-SET® Industries does not provide these services. Nor does EASI-SET® Industries license or qualify installers.*