



Manufacturing Structural Insulated Panels Since 1987.

The Meadowbrook Project

Total Area: 2,300 Sq.Ft.
3 Bedroom, 2 Bath

This presentation features the Meadowbrook model home built in Punta Gorda, Florida.

One year after this home was built, a category four hurricane ripped through Punta Gorda. Adjacent homes were severely damaged by the winds. This home had only minor surface damage to finishing material.

The slide show illustrates how resilient and attractive residential projects, such as the Meadowbrook, are built using Structural Insulated Panels (SIPs).



Structall Building Systems, Inc.

350 Burbank Road
Oldsmar, FL 34677

1-800-969-3706

Fax: 1-813-855-8128



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Meadowbrook Construction Process

Side walls are erected.



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Meadowbrook Construction Process

Floor trusses are placed.



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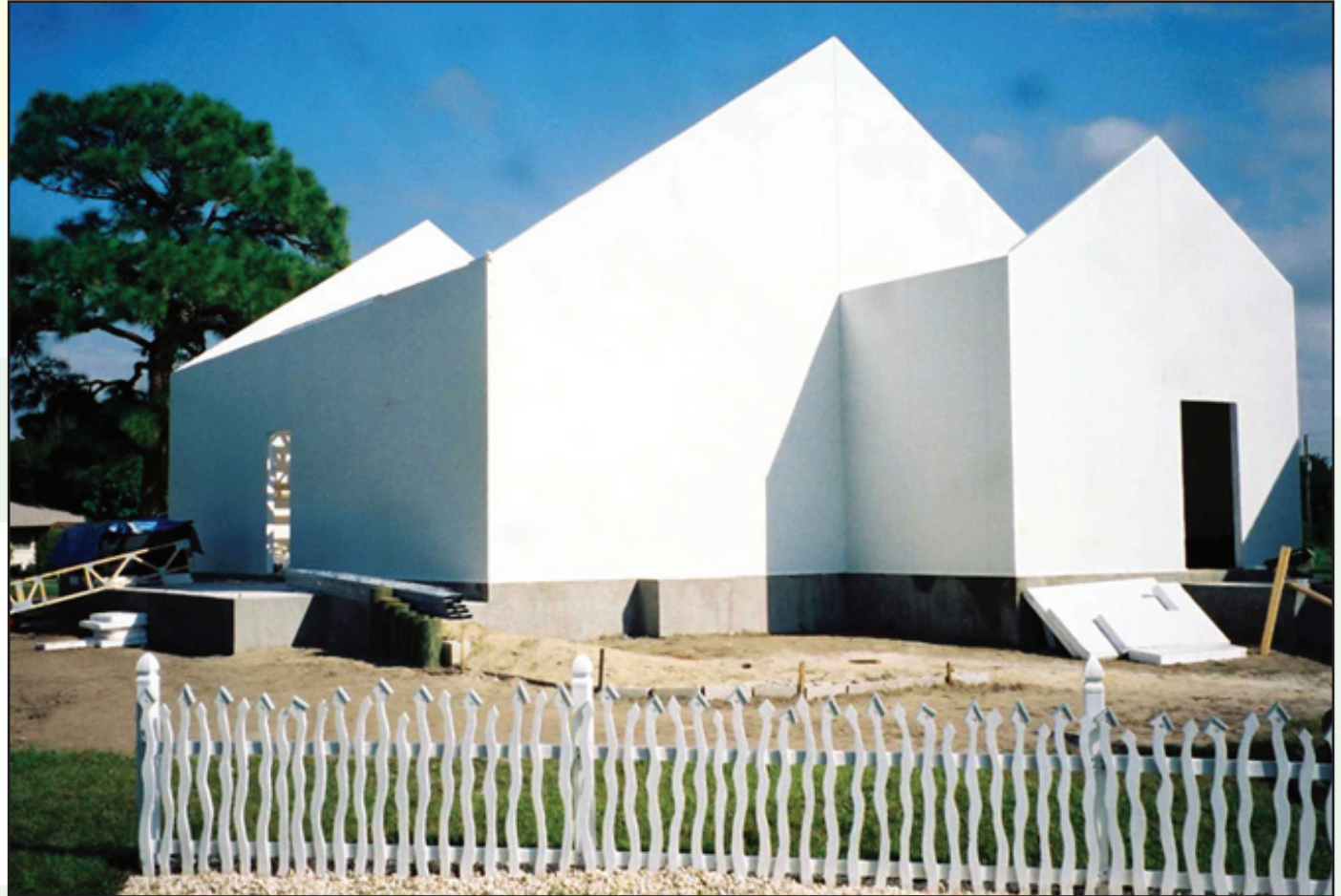
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Meadowbrook Construction Process

End walls are erected.



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Meadowbrook Construction Process

Interior support walls are erected.



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Meadowbrook Construction Process

Roof panels are placed.

Interesting roof features such as dormers can be easily installed.



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Meadowbrook Construction Process

Roof trim pieces are installed.

At this stage, the house is “dried-in” and ready for other trades to come in.



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Meadowbrook Construction Process

Windows and doors are then installed.

Simple roof features like shed dormer seen below are ideal elements for panel construction.



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Meadowbrook Construction Process

Notice the clean appearance even before the exterior is finished.



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Meadowbrook Construction Process

A whole roof section is light enough for a few workers to carry.



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Meadowbrook Construction Process

A wood floor truss system was chosen for this project for ease of installation of duct work and plumbing.

A metal floor system could be used as well.



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Meadowbrook Construction Process

Larger window and door openings require some extra reinforcement.

Here steel studs and track are used.



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Meadowbrook Construction Process

Dormer roofs are framed with a metal ridge due to the high wind load design of this house.



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Meadowbrook Construction Process

Here the ridge beam and one of the intermediate beams are connected to the inside face of the panel wall with a ledger and clips.



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Meadowbrook Construction Process

The ridge beam here is supported with steel framing, making a post.

Steel framing works well with our Snap-N-Lock™ Panel System.



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Meadowbrook Construction Process

The ridge is supported by a 16 gauge galvanized steel “box beam” and supported by 18 gauge steel stud posts.

Strong wind resisting connections can be easily made with steel framing such as this.



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Meadowbrook Construction Process

The interior is furred out to provide chases for electrical boxes and wiring.



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Meadowbrook Construction Process

Here we have a corner condition with vertical metal furring.



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Meadowbrook Construction Process

Metal framing and furring strips are used in the ceiling to provide a wire chase and to add character to the rooms shape.



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Meadowbrook Construction Process

Wood floor trusses give plenty of room for plumbing and electrical runs and provide a strong, stiff floor.



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Meadowbrook Construction Process

Siding is applied to the Snap-N-Lock™ Panels with screws.

Notice the crisp edges made of our aluminum channel.

No need for soffits because of the clean white underside of the metal panels.



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Meadowbrook Construction Process

Snap-N-Lock™ Panels can be covered with any readily available product in the construction industry today.



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Meadowbrook Construction Process

Decorative trim can be added.



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Meadowbrook Construction Process

The porch ceiling is being framed in.



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Meadowbrook Construction Process

Energy efficient double pane Low-E window and patio doors were used to compliment the very energy efficient Snap-N-Lock™ Panel home.



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Meadowbrook Construction Process

Siding is almost complete on this side of the house.



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Meadowbrook Construction Process

The right side of the house is complete.

The multiple roof lines add a lot of interest to the overall appearance of the home.



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Meadowbrook Construction Process

The rear of the house is now complete.

The 1-1/2 story design is a very economical way to increase square footage and keep costs down by decreasing wall area.



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Meadowbrook Construction Process

The front of the house is complete.

The porch and dormers create an inviting look from the street.



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Meadowbrook Construction Process

The left side of the house is complete.

The raised-up concrete floor gives the house a prominent look.



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Meadowbrook Construction Process

Here a decorative metal roofing is being applied to the already water-tight and weather-proof metal panel roof.



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Manufacturing Structural Insulated Panels Since 1987.

Meadowbrook Construction Process

This house is a complex design but is easily executed with the Snap-N-Lock™ Insulated Panel.

Energy efficiency, durability, low maintenance, and comfort are just a few of the features of Structall's Snap-N-Lock™ Panel Home Building System.



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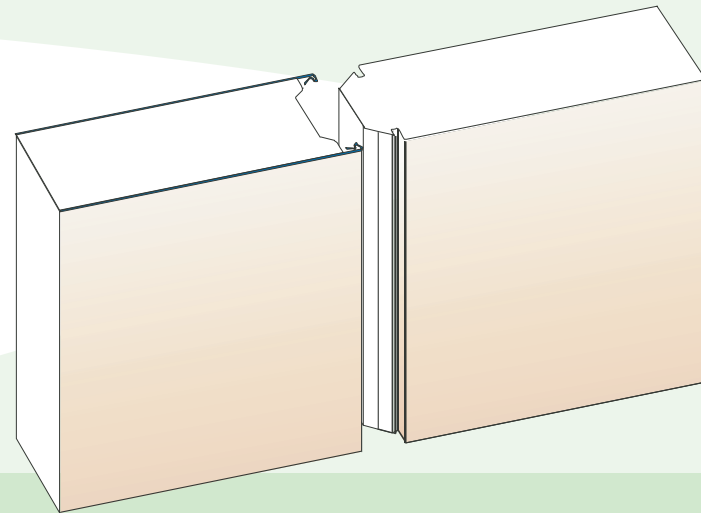
Structural Insulated Panels (SIPs)

Features & Benefits of Panels

The ease of installation and the ability to hire entry level tradesman translate into labor savings.

The panels adapt easily to a variety of floor plans and offer a wide range of design flexibility and uses including homes, in-plant offices, freestanding units, restaurants, industrial storage units, condominium carport facilities and loading zone canopies.

All panels pass through several quality control check points to assure that the highest degree of factory tolerances for alignment, lamination, and finish quality are maintained.



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Manufacturing Structural Insulated Panels Since 1987.

Structural Insulated Panels (SIPs)

Features & Benefits of Panels

Skins of the Snap-N-Lock™ panel are rolled to form a unique, patented locking system that snaps together.

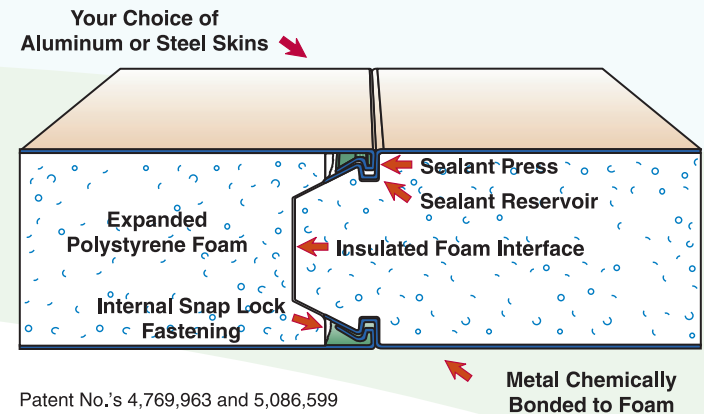
The continuous insulated foam interface makes the design of the panel extremely energy efficient.

Sealant applied on the inside of the panel protects it from ultraviolet destruction and forms a waterproof seal.

Use the existing finish or apply a wide variety of building materials including shingles and vinyl siding directly to the exterior of the panel.

Available 2" - 8" thick and up to 40' in length.

Roof pitches as little as 1/4" per 1'-0" can be achieved.



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Meadowbrook Construction Prints

Structall Building Systems has developed a unique numbering/lettering system that allows a “Build by Numbers” approach to erecting SIPs structures.

Detailed plans outline each panel layout for the walls and roof of the structure, contributing to the ease and speed in which workers can construct a building.

[View Meadowbrook's construction prints in PDF format by clicking the image below \(you can print from within Acrobat\).](#)

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