



Secure-Lock Structural Insulated Panel System And Accessory Dwelling Unit (ADU) Overview

Presented by:

Eco-\$mart, Inc.



An EPA ENERGY STAR Partner

Eco-\$mart, Inc. is a Service Disabled Veteran Owned Business



About Eco-\$mart, Inc.

- In Business Since 1993
- One-Stop Green Construction Supply
- An EPA ENERGY STAR Partner
- Operated with Guidance from the Nonprofit Florida House Institute for Sustainable Development (FHI):
- Free Eco-\$mart Materials Consultation
- Distributes / Installs Approved Systems
- Educational Seminars for Public and Trades







The Florida House Learning Center

Created by the Nonprofit Florida House Institute for Sustainable Development and Sarasota County Cooperative Extension



The Florida House was opened to the public on Earth Day, 1994 – The first green demonstration home in the U.S. – Inspired creation of Eco-\$mart





Our Priorities for Selecting Green Building Materials

1. Enhances efficiency, health, disaster resistance.

2. Reduces maintenance, construction time, construction costs, operating costs.

3. If not capital cost saving, then at least creates positive cash flow for building owners.

4. Locally available, supportable.



Answer: A Fire, Seismic, Hurricane, Mold and Pest-Resistant, Energy Efficient Steel-Skinned Structural System, Approved for Walls and Roofs





What Are the Benefits of the Secure-Lock Structural Insulated Panels?

1. **Faster construction** (50% faster shell dry-in), fewer trades and inspections, cost competitive.

2. Hurricane / Cyclone Wind and Seismic Resistant construction.

3. Class A fire rating - Metal skinned SIP panels provide a wood-free structure.

4. Energy savings between SIPS and conventionally built structures produce 30% to 50% monthly utility savings as well as a 30% to 50% smaller HVAC system requirement.

5. Termites / ants / **pests** / mold have **no food** source as wood provides.

6. Conventional exterior finishes such as brick, stucco and siding can be used, and interior finishing is the same as conventional structural systems.

7. A Fresh Air / Energy Recovery Ventilator is included.

8. Standard plans are available, or we can **produce to your plans**.

9. Construction up to 3 stories can be done with no additional structural support.

10. We always recommend **FGBC certification** – which is easy with Secure-Lock.





Approvals for Secure-Lock Structural Insulated Panel

- Florida Product Approved
- Miami-Dade County Approved
- California FBH Approved
- Texas Department of Insurance Approved
- ENERGY STAR Certified



What Types of Structures Can You Build with Secure-Lock Structural Insulated Panels?

Single Family Homes / Multi-Family Structures / Commercial Buildings







What Types of Structures Can You Build with Secure-Lock Structural Insulated Panels?





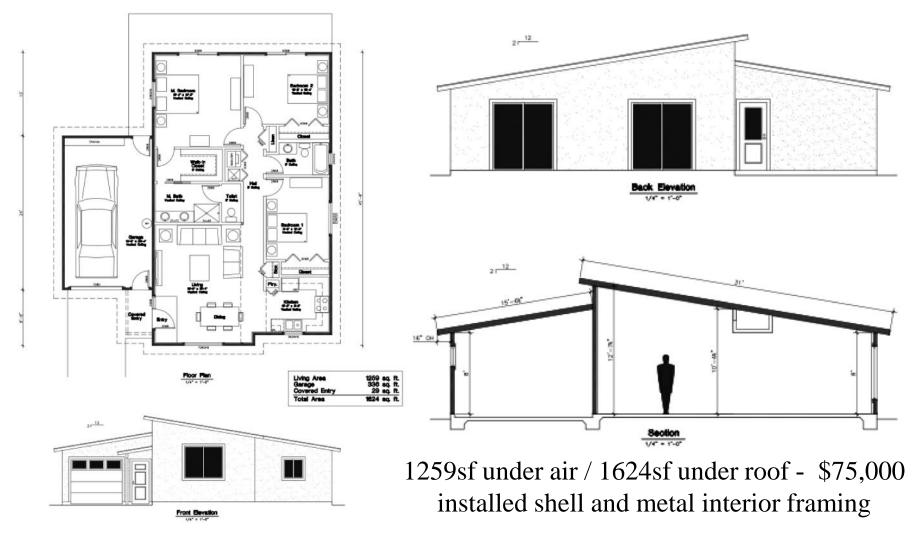


Panel application - Torreon Mountain House / Show Low, Arizona





An Example Home Design for Secure-Lock SIPs– North Port, Florida







How Does the Contractor Build with Secure-Lock Structural Insulated Panels?

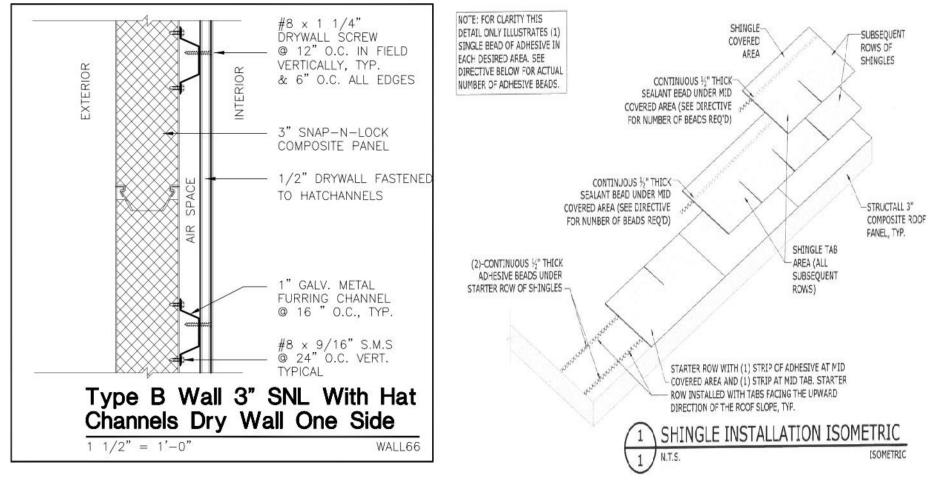


Secure-Lock Panels can be 2-Stories Tall. Gable Roof Designs Save Costs





How Does the Contractor Build with Secure-Lock Structural Insulated Panels?



Electrical Wiring, Plumbing and Exterior Finishes are Completed Conventionally



How Does the Contractor Build with Secure-Lock Structural Insulated Panels?



Faster, with Fewer Trades and Inspections – Finished the Same Way on the Interior and Exterior as Conventional Construction

Time-Lapse Video of PowerSmart Garage Construction: <u>https://www.youtube.com/watch?v=ra7Rq6iZEeQ</u>







What Types of Structures Can You Build with Secure-Lock Structural Insulated Panels?



Accessory Dwelling Units (ADU) – 576sf Alternative Elevations





576 SF ADU Floor Plan









576 SF "Seaside" Floor Plan

Seaside 576 ADU



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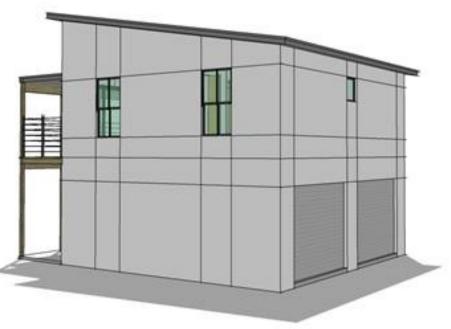




576 SF Carriage House Option (over Garage)









512 SF ADU Elevation and Floor Plan







384 SF ADU Elevation and Floor Plan







384 SF Carriage House ADU Elevation and Floor Plan















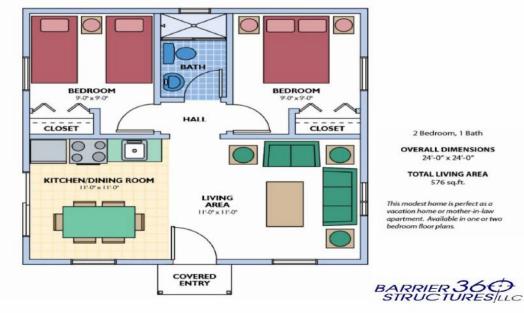
How Much Do ADUs Cost?

Sale Prices:			Insulated Impact	Shell Labor	Shell Materials	Installed Shell and	Slab and	Shipping (FL)		Real Estate		
Model	Square Feet	Secure-Lock	Windows	Incl. Windows	<u>\$/sf</u>	Windows \$/sf	Completion	and BS360 Fee	Subtotal	Commission	Total	Total \$/sf
384 16x24	384	\$23,360.45	\$8,296.25	\$5,760.00	\$60.83	\$97.44	\$61,440.00	\$4,050.00	\$102,906.70	\$3,087.20	\$105,993.90	\$276.03
512 Seaside	512	\$28,723.09	\$7,681.74	\$7,680.00	\$56.10	\$86.10	\$81,920.00	\$4,050.00	\$130,054.83	\$3,901.64	\$133,956.47	\$261.63
576	576	\$30,856.71	\$10,087.94	\$8,640.00	\$53.57	\$86.08	\$92,160.00	\$4,050.00	\$145,794.65	\$4,373.84	\$150,168.49	\$260.71
384 Carriage	768	\$33,183.70	\$8,296.25	\$11,520.00	\$43.21	\$69.01	\$122,880.00	\$4,050.00	\$179,929.95	\$5,397.90	\$185,327.85	\$241.31

Recent pricing for construction in Florida (2023)

eco-(mart







12-hour 576 sf house build from materials delivery to full shell "dry in" ready for owner finishes and appointments.







Hour 1 - House kit is delivered and unloaded at the project site







Hour 2 - Pre-cut panels, extrusions and misc. hardware are sorted.







Hour 3 - Metal receiving track is attached to concrete foundation slab.







Hour 3.5 - First wall panels are erected (note placement by two workers).









Hour 5 - 50% of Exterior wall panel are installed.







Hour 6 - Final exterior wall panel is installed along with interior bearing wall.





Hour 6 - View of completed exterior wall panels ready for roof panel installation.







Hour 7 - Interior roof bearing wall is installed.









Hour 8 - Initial roof panels are installed (no special equipment required).







Hour 9 - Front roof panel installation is complete.





Hour 10 - Roof is complete while windows are placed and secured in pre-cut openings.







Hour 12 - Trim completed as house is ready for owner finishes and appointments.



Included with Secure-Lock Homes: ERV(Energy Recovery Ventilator)

eco-Comart





•Brings in Fresh Air, but Dried and Cooled by Crossing Air Stream with Cooler, Drier Exhausted Indoor Air

- •Keeps Building under Positive Pressure
- •No Condensation Moisture Exchange Occurs at Vapor State
- •Custom Sizes Available for Any Application
- •A Key Element of a Healthy Home





Take Your ADU Off the Grid

Passive Solar Water Heater

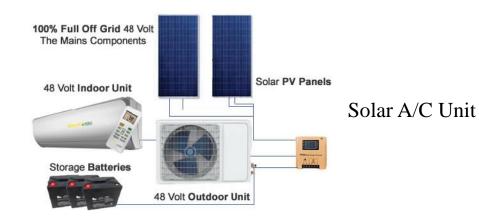
HARRAN BARRANA

Solar Electric System / Batteries



Dual Axis Tracker









A Summary of the Benefits of Secure-Lock Structural Insulated Panel Construction

- Disaster Resistant (Fire, Seismic, Wind, Mold, Pests)
- Higher Efficiency / Lower Utility Bills
- Faster Construction
- Higher Resale Value
- Lower Maintenance and Insurance Costs
- Healthier, Quieter Indoor Environment
- Positive Media Attention for Builder / Owner
- Reduced Environmental Impact / Easy FGBC Green





What to Do Now?

- Contact Eco-\$mart for a free consultation at 941-376-8484 / <u>info@eco-smart.com</u>
- Have Eco-\$mart quote from building plans, or work with us and your Architect to design your project.
- Keep in mind that it saves home and building owners money to build with Eco-\$mart systems first month, every month.

Thank you for your time and interest