

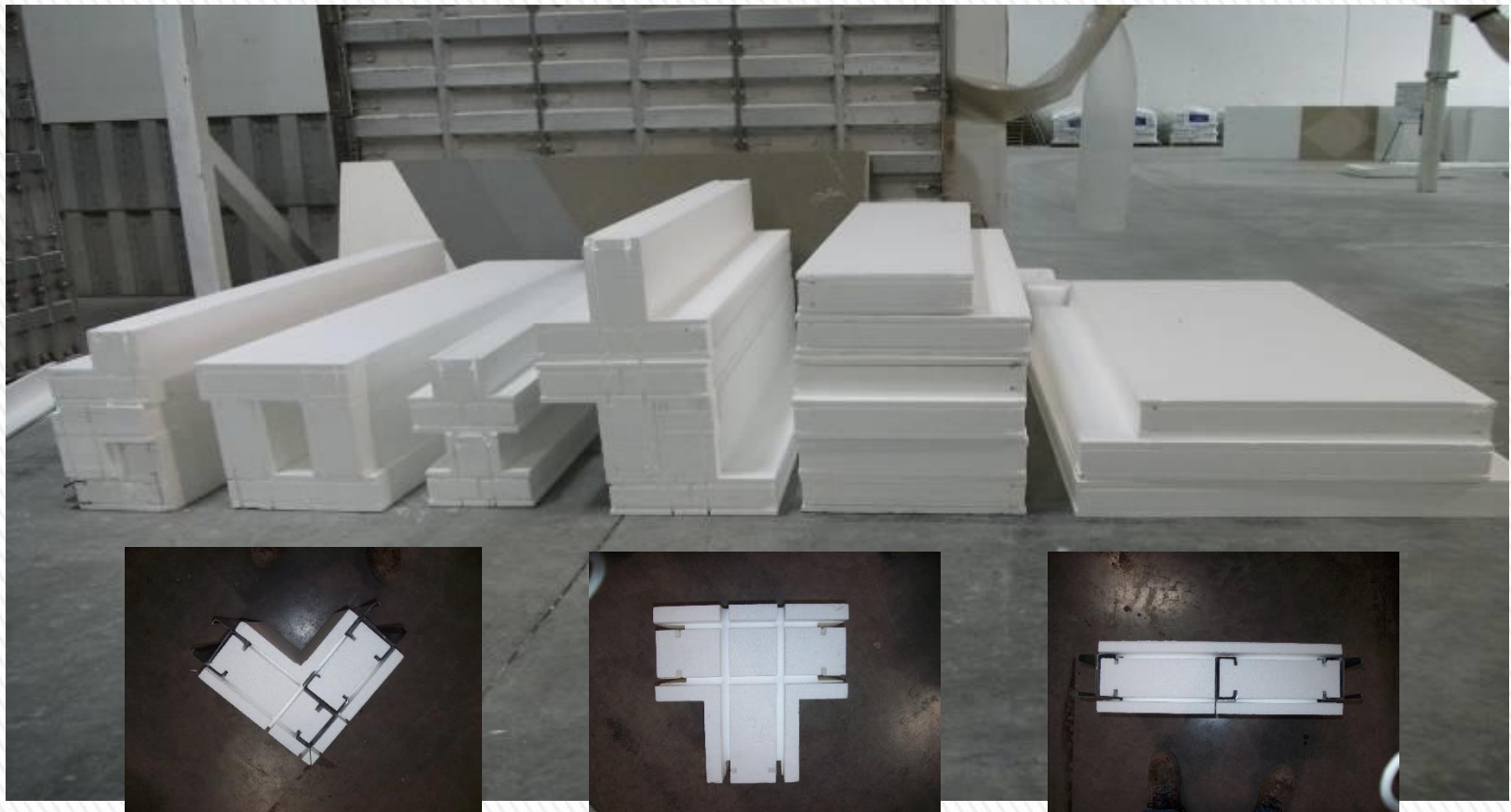


GigaCrete Housing in America

- Everyone deserves healthy housing
- No wood, Portland cement, gypsum board
- Zero off-gassing
- High insulation Values
- High abuse resistance
- Fire resistant
- Insect resistant
- Mold and mildew resistant
- Faster speed to build
- Waterproof

Foam

Precut ICC approved EPS foam to insure no onsite waste and correct measurements. There are only 3 shapes. Straight panels, a “C” for corners and a “T” for intersecting walls. Each come in 1 foot increments.



Steel

Pre engineered, ICC approved galvanized double steel studs make patented connectors precut for accuracy and no jobsite waste. Hurricane and seismic tie down anchors connect the roof into the foundation.





Exterior Waterproof Finish StuccoMax

StuccoMax is a high performance exterior crystalline finish that grows into EPS foam, cement block and other substrates used in both renovations and new construction. It has no Portland cement and no competition in performance.

Performance Benefits

- Provides a hard, durable single coat over EPS exterior walls
- 3,500 PSI compressive strength
- Used for waterfalls, water features, ponds, pools and below grade applications
- Noncombustible building material
- Zero flame spread, and zero smoke developed
- Resistant to mold and mildew growth
- Single day application
- Impact and abrasion resistant
- Highly water resistant
- Resistant to freeze-thaw damage
- Hand or machine applied
- Silica free
- No Portland cement
- No polymers typical to all other synthetic stuccos

***Comparison chart using StuccoMax
Versus synthetic or traditional Portland Cement stucco.***

	StuccoMax	EIFS	Stucco
Installation M2 Per Man/HR	10	1.7	1.4
Contains Portland Cement	NO	YES	YES
Contains Acrylics and Known Carcinogens	NO	YES	YES
Likelihood of Cracking	LOW	LOW	HIGH
Adhesion to Foam	HIGH	HIGH	LOW
Impact Resistance	HIGH	LOW	MED

Interior Finish PlasterMax

PlasterMax is a high performance interior finish that crystalline finish that grows into EPS foam, gypsum board, CMU and other substrates used in both retro-fitting and new construction.

Performance Benefits -

- PlasterMax is the only fire code approved finish that replaces wallboard on EPS
- Single coat applications
- Provides tough 9,000+ psi protective finish
- Impact resistance
- High abrasion resistance
- Zero flame spread and zero smoke developed
- Non combustible building material
- Smooth or textured finishes-readily accepts paint
- Applied by conventional spray pumps or hawk and trowel
- Exceeds EPA and CA indoor air quality & VOC standards
- Environmentally sustainable **contains NO** crystalline silica
- Mold and mildew resistant

Comparison chart using PlasterMax versus Drywall

	PlasterMax	½" Drywall
Impact Resistance	HIGH	LOW
Abrasion Resistance	HIGH	LOW
Made from Healthy Materials	YES	NO
Carbon Footprint	490	730
Zero VOC's	YES	NO
Mold & Mildew Resistant	YES	NO

HOW TO BUILD A GIGAHOUSE



Section through a typical panel shows pre-cut vertical holes “chase” next to every stud for electrical wiring and our hurricane tie downs.



Section through a typical panel shows plumbing cut into foam and hurricane tie-downs next to studs.

Step 1:

Layout the bottom tracks according to plans incorporating the water resistant gaskets between the bottom track and the slab.



Step 2:

Attach bottom track to the slab with ramset pins for interior walls and expansion/epoxy anchors for exterior walls to meet local codes.



Step 3:

Locate panels where specified on the installation plans



Step 4:

Insert pre-cut foam panel into steel stud bottom track.

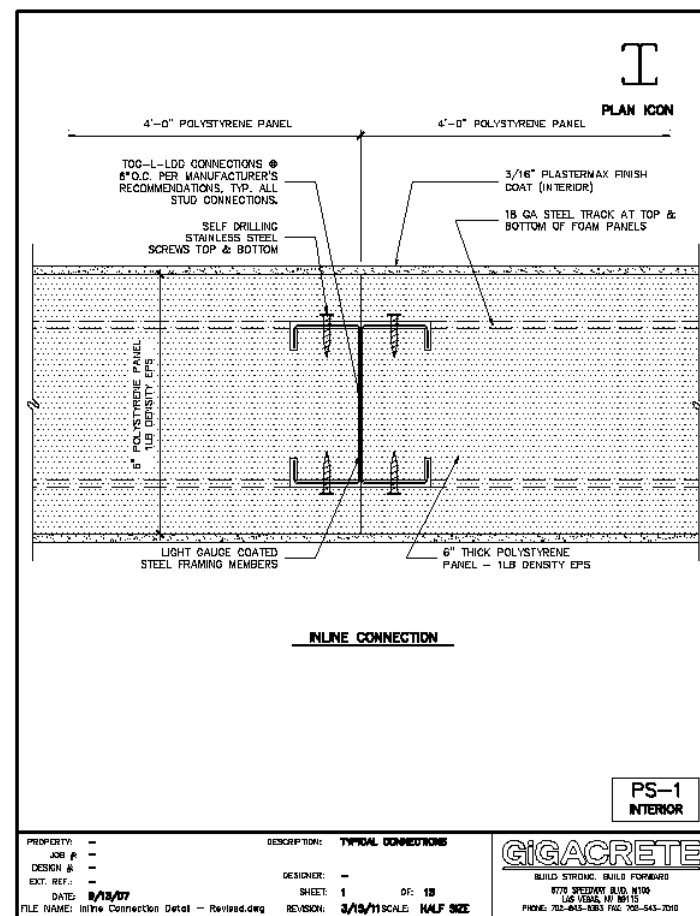


Step 5:

Insert studs and screw through foam to connect studs to tracks using hex head #10 tapcon screws provided in house kit.



Patented connectors “steel framing” methods drop into grooves pre-cut into panels, connecting one panel to the next.



Note: the GigaPanel designs determine where the structural studs and connectors are placed

**Step 6:
Level and brace walls before adding roof trusses.**



Step 8:

Install door and window headers and screw into steel studs.





Section through a typical header panel, shows how we manufacture at the factory the headers, jack studs and box beams.



Pre-manufactured sill panels below windows.

Step 7:

Add roof brackets and trusses to walls. All hardware is included, screws, bolts, washers and brackets.



Extreme engineering in brackets, designed for 200 mph hurricane forces

Step 9:

Connect roof trusses to foundation with hurricane/seismic anchors. The all-thread drops down through the vertical chase cut into the foam next to every stud and ties into the epoxy/expansion anchors in the slab.



Step 10:

Roof studs/purlins are connected to trusses with steel brackets.



GigaCrete offers several types of roof panels depending on final roof finish

Step 11.

Install electrical conduits and wires for outlets and switches



Conduits are pre cut into panels on both sides of each stud location ready to pull down wiring from above.

Step 12.

Install plumbing lines into wall panels and fill all gaps and any repairs needed with expanding foam. Plumbing is now locked in place and insulated from heat or freezing.



Step13:



Window and Door trims cut from EPS foam are applied to exterior walls

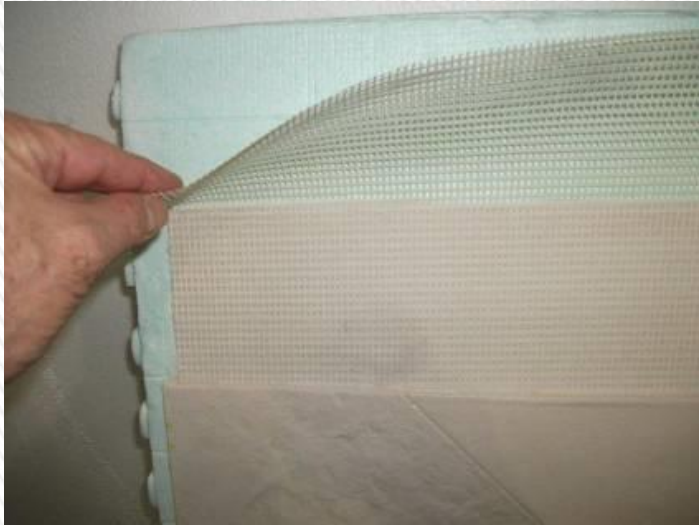
Step14:

StuccoMax is direct applied over the exterior foam insulation panels.



Step 15.

PlasterMax is applied over all interior EPS



GigaCrete coatings are added directly to the EPS foam, note the imbedded mesh





PlasterMax applied directly over EPS foam panels.
All panel seam lines are covered over to create a
seamless and durable ceramic finish.

Ceiling inside the house showing decorative beams which cover the structural roof trusses



Fire rated PlasterMax applied over the EPS foam

Step16:

Window trims are added, glued/screwed into steel studs, patched and ready for paint.



Step17:

Any conventional roofing can be applied over a selection of roof panel types.

StuccoMax is washed to remove dust particles, primed and painted.





Energy efficient vinyl windows (no wood) come in all standard sizes



End result is a very energy efficient and virtually maintenance free living environment

GigaCrete Features and Benefits

- **Unlimited styles from modern to traditional**
- **Hurricane and earthquake engineered**
- **State of the art Green building technologies**
- **Higher insulation values means lower operating costs**
- **Higher performance homes without higher cost**
- **Houses built utilizing local unskilled labor**
- **Job creation and training by GigaCrete**
- **Higher abuse resistance**
- **No mold or mildew**
- **Eco friendly, No cutting down trees**
- **No Portland cement, a huge greenhouse gas producer**



Providing GREEN technology solutions around the World.

www.gigacrete.com

