WHAT IS ECOTECSYNEGZ PLASWALL

Ecotech Synergz Plaswall ™ is a unique fibrocement lost in place or permant concrete formwork

It replaces costly steel aluminum and plywood formworks

It produces a complete Load Bearing wall with a complete rendered finish

Increases site production by as much as 300%

Requires significantly lower skilled labor to build high quality concrete homes and buildings

WHAT IS ECOTECSYNEGZ PLASWALL

- Is Not a precast system
- Is Not different engineering wise to regular RC walls and structures and meets ALL world building codes
- Is Not a system but a building technique for RC construction (one of the most common types of construction in the world today)
- Is Not limiting in anyway architecturally
- Is Not a higher cost that conventional systems in fact is cheaper than even the lowest cost alternatives in most cases and locations
- Is Not expensive to setup factory and facility's globally
- It is Not difficult for regular builders to adopt and be trained in its use

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RECYCLE REDUCE REUSE

WHAT IS ECOTECSYNEGZ PLASWALL

Plywood formworks are expensive , time intensive requires highly skilled carpenters and large amounts of materials to produce a structure , even after removal of forms there is full repair and rendering works to do, many of materials are not reusable

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WHAT IS ECOTECSYNEGZ PLASWALL

Steel formworks require a very large capital outlay , are heavy to install requiring cranes and large amounts of scaffold and manpower to install , it is difficult to install rebars and services , even when removed (by crane) still requires rendering and finishing of concrete prior to painting , it limiting in architectural design flexibility .

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WHAT IS ECOTECSYNEGZ PLASWALL

Our Forms are prefabricated fibrocement formwork , light simple and easy to install wall braces and clamps needed for support for concreting , after concreting walls are ready to accept jointing and final paint , the spacers hold rebars in correct position ensuring correct positioning , electrical and plumbing is completed prior to pouring concrete .

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WHAT ARE THE BENEFITS FROM OF FORMS

- **Fast clean method of building (min. twice as fast as traditional)**
- **Wastages minimized as prefabricated to order**
- **Concrete and other materials volume usage exact and predictable**
- **Predictable build times and build costs**
- **Easy for conventional builders to use and learn**
- **Utilizes existing tools and equipment's of conventional builders**
- **High quality of finish virtually guaranteed**
- **Durable finish minimizing reworks and repairs**
- **Higher Earthquake and Typhoon resistance than conventional structures**

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BUILDER BENEFITS OF THE FORMS

- Predictable deliver time of home to buyers
- Higher Assessed value by Banks & Agency's
- Equivalent or lower in cost to conventional building
- Higher quality buildings producing higher customer satisfaction resulting in higher sales .
- Higher quality without higher cost . Lower manpower skills required
- Shorter build times reduces project management and finance costs .
- Uniform quality of building regardless of number of contractors used
- Complies with Phil. Nat. Building Code , British , American and Australian Building Codes and can be used in any country Globally

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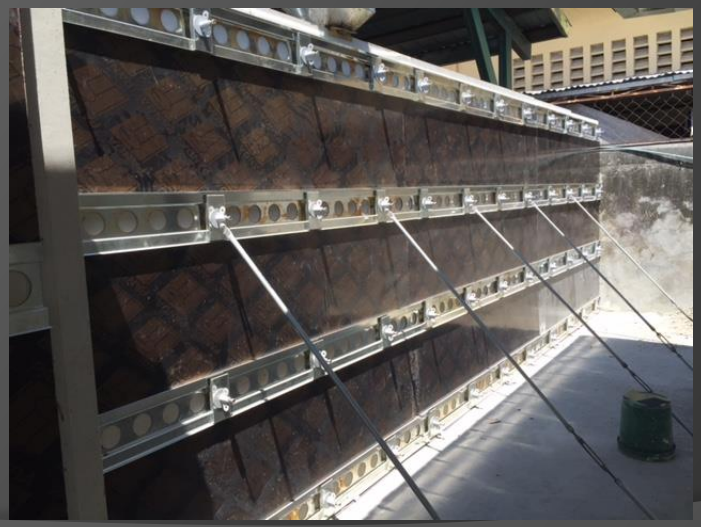
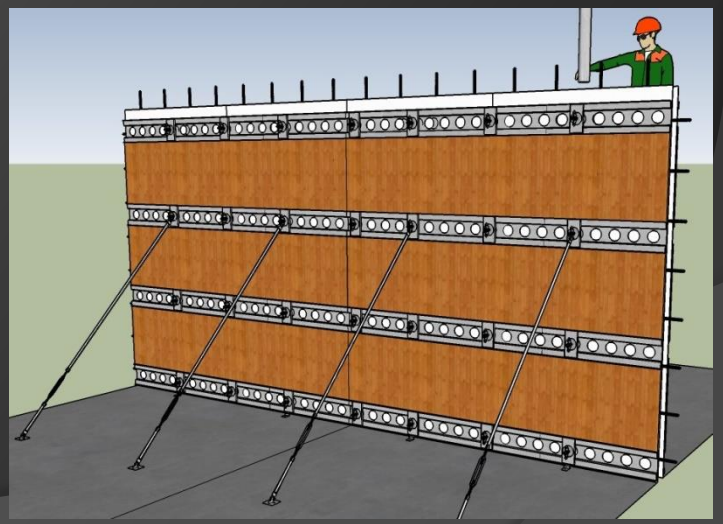
COMPLIMENTARY PRODUCTS TO USE WITH FORMS

Ecotechsynergz Form-locks : A light weigh prefabricated clamping system enabling securing of forms to receive ready mixed concrete by pump pouring , the clamps and rails ensure no movement in the wall , additionally the system can accommodate a scaffold brace to provide easy access using the wall itself to support the scaffold platform .





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COMPLIMENTARY PRODUCTS TO USE WITH FORMS

Windows : Window modules compromising of a steel light weight sub frame supplied prefabricated to size , the sub frame integrates with the form panel and is secured by glue and screws , once the wall form is concreted the window is complete and ready to accept the custom made UPVC windows , the system combines the strength of a cast in place steel sub frame with light weight UPVC window shutters resulting in a fast cost effective window solution .

COMPLIMENTARY PRODUCTS TO USE WITH FORMS

Ecotechsynergz Doors : Our door modules comprised of a galvanized epoxy painted sub frame that integrates in to the forms and is secured by screws and glue prior to concrete pouring of formed walls , upon concreting the door shutter is installed on the already installed and integrated hinges , the door is manufactured by us from fibrocement to produce a hard wearing durable product

Picture to follow

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COMPLIMENTARY PRODUCTS TO USE WITH FORMS

Ecotechsynergz Woodgrain products made from special wood embossed fibrocement boards have the look and feel of timber with non of the downsides , termite and rot proof , now designers can have wood without the issues , even the items can be structural load bearing elements , simple fast alternative to wood .

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COMPLIMENTARY PRODUCTS TO USE WITH FORMS

Ecotechsynergz Fencing Products : Using the same formwork techiques cost effective and durable solutions for boundary wall , retaining walls and decorative fences can be built far faster and cleaner than convention methods , by using post footings and the panels as beams the foundation works are greatly reduced .

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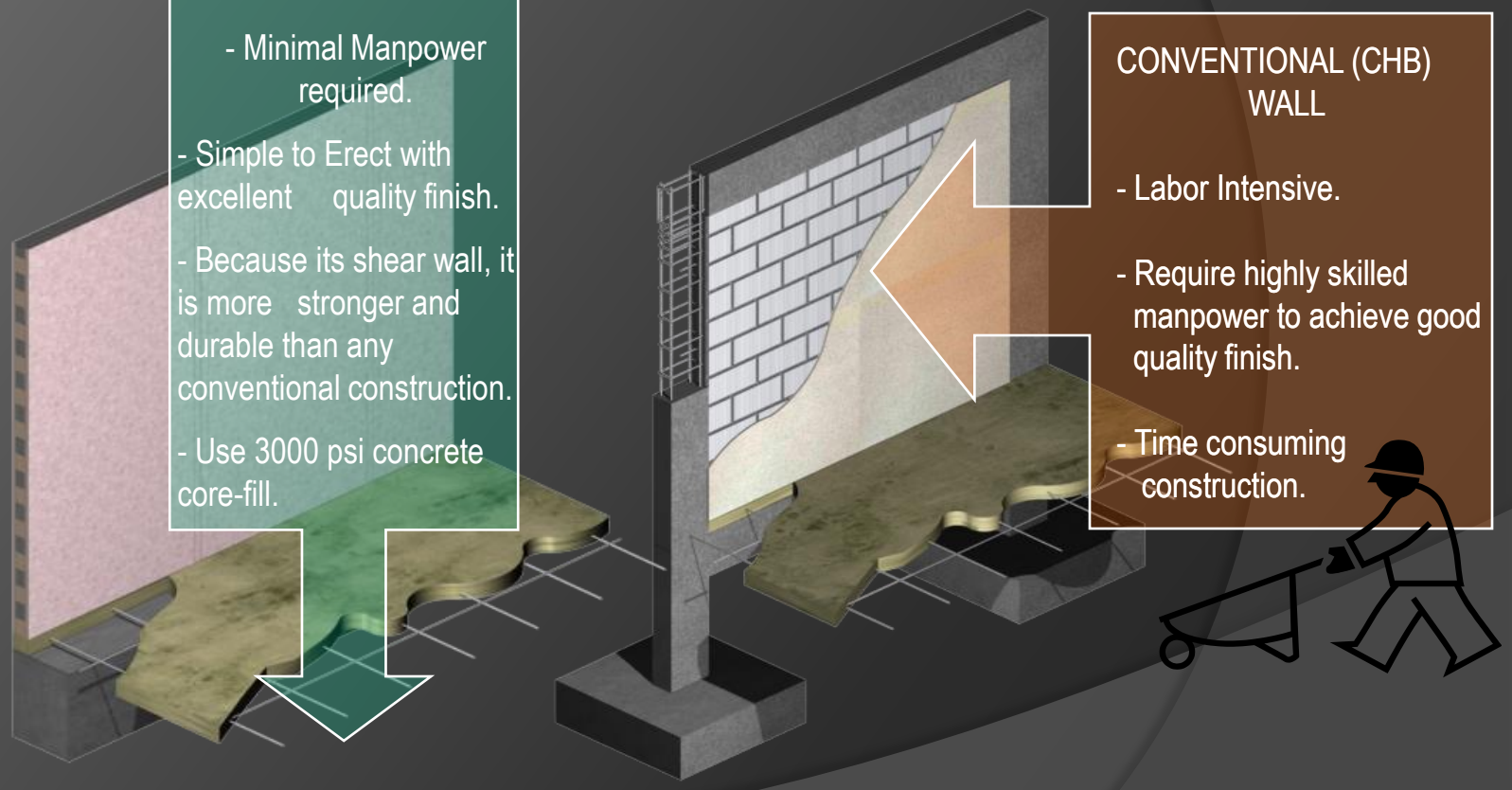
SYSTEM DIFFERENCES TO CONVENTIONAL



PLASWALL ™

- Minimal Manpower required.
- Simple to Erect with excellent quality finish.
- Because its shear wall, it is more stronger and durable than any conventional construction.
- Use 3000 psi concrete core-fill.

CONVENTIONAL (CHB) WALL

- Labor Intensive.
- Require highly skilled manpower to achieve good quality finish.
- Time consuming construction.

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FROM CONCEPT TO COMPLETION EXACT DESIGN AND LOOK ACHIEVED


Actual Unit Completed


Architect's Concept


During Construction

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CONTRACTOR FRIENDLY USES EXISTING SKILLS AND EQUIPMENT

Required Equipment for Installation
1. One-Bagger Cement Mixer.
2. Two Electric Drills
3. 4" Angle Grinders
4. Tape and level bar

- Minimize use of scaffoldings.

- Requires only temporary bracing to keep panel plumb.

- No specialized equipment needed for erections.

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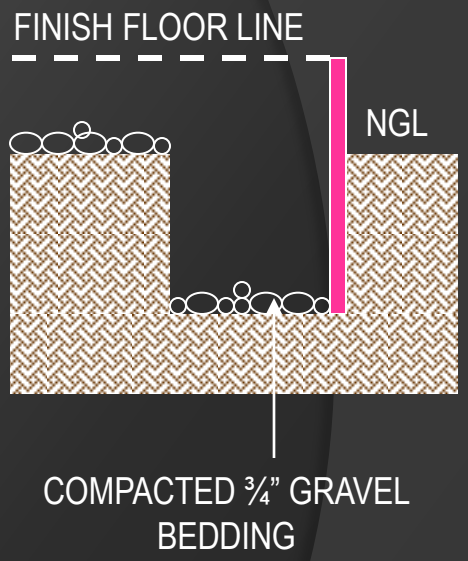
BUILDING TECHNIQUE FOR LOAD BEARING WALLS

EXCAVATING FOR MAT FOOTING



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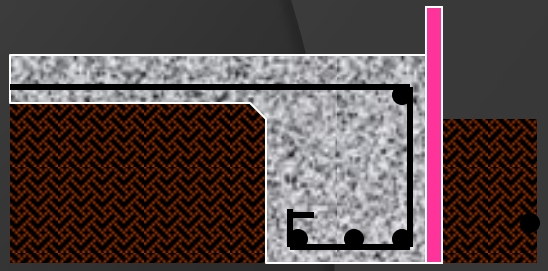
BUILDING TECHNIQUE FOR LOAD BEARING WALLS

EXCAVATING AND FORMING FOR MAT FOOTING

Typical Slab Section



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CONTRACTOR FRIENDLY USES EXISTING SKILLS AND EQUIPMENT

AFTER SLAB POUR BEGIN PANEL ERECTION

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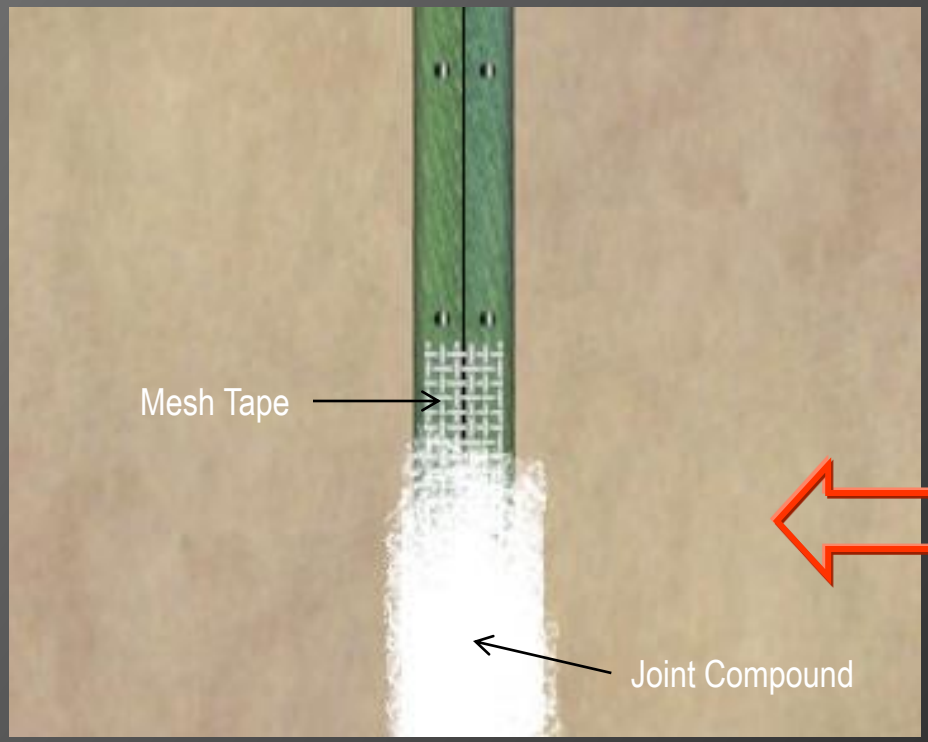
FLOOR SLAB USING STEEL DECKING METHOD

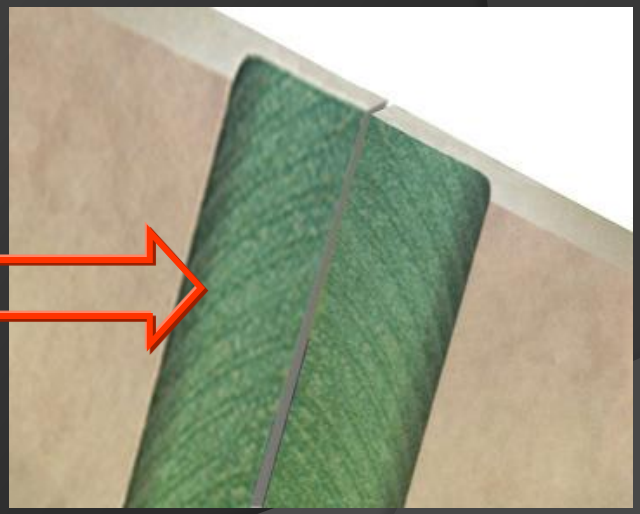
TYPICAL SETUP FOR STEEL DECK SLAB

System can accommodate different flooring systems from steel deck , precast hollowcore , T beam , Speedfloor or conventional formed slabs

PANEL JOINTING METHODOLOGY



- Recessed panel edges assures seamless finish.



TYPICAL PANEL JOINTING DETAIL

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BUILDING READY FOR FINAL FINISHING

JOINTED AND READY FOR FINAL FINISH PAINTING