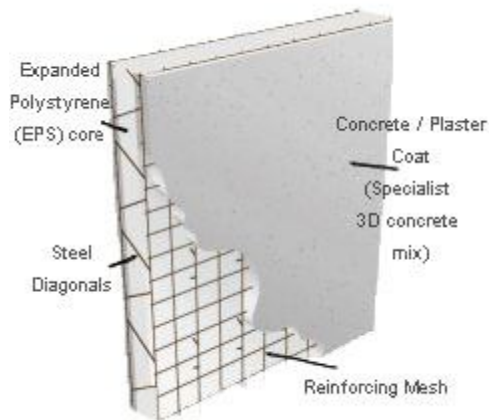


## Construction Method & Systems

### 3D CONSTRUCTION SYSTEM



#### **Introductions:**

The 3D Construction Panel offers a new building method

A unique system used for construction – MODULAR PANELS

High strength and load bearing

Light weight (less than 20 kg per panel)

Fast and simple to erect

Flexible to architectural designs

Provides excellent sound and thermal insulation

Affordable and cost efficient method

3D Construction Panels used exclusively or to complement traditional construction methods

#### **Compositions:**

A three dimensional welded wire space frame

With an expanded Polystyrene insulation core

#### **Characteristics:**

No buckling and bending of panels

Simple bracing to hold panels in the required position

Easy fixing of rough frames for doors and windows

Simple and quick installation of utilities, etc

Unique strength and rigidity

Due to the three dimensional truss configuration

Diagonal truss wires welded to the wire mesh (cover mesh) layers on each side of the panel

That ensures the effective transfer of shear forces for full composite behavior

### **Construction:**

The construction method is simple

Easy to understand

Is quick to erect

Light weight (less than 20kg per panel)

Cut quickly to any size or shape to suit architectural designs

Easily cut to form door and window openings (it takes only minutes)

3D Construction Panel vs. Pre-fabricated Construction:

Concrete is applied once a building's structure has been erected.

Widths of concrete are applied to both sides forming two layers of concrete

With a polystyrene core (one single solid piece, not shift able) serving as shuttering

### **Application of Concrete:**

The concrete is applied to each side of the panel assembly:

either manually or by shot Crete (gunniting)

### **Uses:**

The 3D Construction Panel may be used for:

any kind of residential buildings

ranging from small, affordable houses

to upmarket homes, villas and condominiums

industrial buildings

boundary walls

use as curtain walls

or as 'filler' panels for metal or concrete frame structures.

### **Advantages:**

Fast, simple erection

Erection within only a matter of weeks [instead of months]

High strength load bearing for walls and roofs

Elimination of additional beams and columns

Excellent thermal and sound insulation due to the locked-in-core body

Monolithic structure of the total building for high strength, with continuous reinforcement. Ideal for earthquake prone areas.

Economical use of materials

Minimizing concrete consumption, with uniform concrete thickness throughout

Long life of buildings of high quality

Complete design flexibility

For Viewing Appointments and more information's,

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