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PREFAB

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Prefabricated construction is the practice of assembling a variety of components of a structure at a manufacturing site and transporting those sub-assemblies to the location of the construction jobsite. Prefabricated construction is sometimes thought of as a low-end and mass produced mode of construction. In reality however, it is quite the opposite. Prefabricated construction is becoming more common, improving in quality and has become available in a variety of budgets. Despite the perception of prefabrication, there are numerous benefits to this type of construction. This article assesses the advantages that prefabricated construction presents for both businesses and customers.

Eco-Friendly

Modular construction is often commended for energy efficiency and sustainable construction. Traditional construction methods require extra materials that lead to increased waste. However, since prefabricated sub-assemblies are constructed in a factory, extra materials can be recycled in-house. This is a considerable improvement over sending waste directly to a landfill from a traditional construction site. Also, the controlled environment of a factory allows for more accurate construction, tighter joints and better air filtration, which in turn allows for better wall insulation and an increase in energy efficiency.

Financial Savings

One of the greatest advantages of prefabricated construction would be financial savings. Although the perception of custom-made pieces may seem expensive, with prefabricated or modular construction, this is not the case. Modular construction targets all budgets and price points, creating an affordable option. Prefabrication manufacturers often receive bulk discounts from material suppliers which then trickles down to the cost of a construction project. Modular construction also sidesteps the possibility of unreliable contractors and unproductive staff. Additionally, the reduction in construction time can significantly save on construction financing costs.

Flexibility

Modular construction can be easily be disassembled and relocated to different sites. This significantly reduces the demand for raw materials, minimizes expended energy and decreases time overall. Also, modular construction allows for flexibility in the design of the structure allowing for a limitless number of

opportunities. Since prefabricated construction units can be used in different spaces, its neutral aesthetics is able to blend in with almost any building type.

Shorter Construction Time

Portable construction takes significantly less time to build than on-site construction. In many instances, prefabrication takes less than half the time when compared to traditional construction. This is due to better upfront planning, elimination of on-site weather factors, subcontractor scheduling delays and quicker fabrication as multiple pieces can be constructed simultaneously. Shorter construction times allows construction companies to take on multiple projects at once, allowing businesses to grow rather than putting all their focus and resources on one or a few projects at a time.



TASHYEED prefab is leading company working on three different faces in prefabricated buildings.

A- Container House.

B- Foam Concrete House.

C- Sandwich Panel House.

A- CONTAINER HOUSE



CONTAINER HOMES BECOME A CREATIVE ARCHITECTURE SHIFT TO CONSTRUCT A MODULAR HOME.



CONTAINER HOUSE is one of the top expandable and popular items.

It is limited to dimensions of container, yet expandable to contain more than a container adjacent to each other.



This example is for 3 containers





Quick Details:

Container House

Use: House, Office, Shop, Toilet

Window: PVC Window

Door: Steel Security Door

Wall Panel: 75mm EPS sandwich panel

Roof Board: corrugated steel plate

Floor: 18mm MGO Board

Column: 3mm Galvanized

Color: Blue, Gray, Red, White

Performance: Seismic Resistance, Wind Resistance, Fire Resistance

Size: 5800 mm(L)*2438mm(W)*2570mm(H)

Life Time: 20-25 years

B- FOAM CEMENT HOUSE

LUXURIOUS AND FAST ASSEMBLING LUXURY PREFAB HOUSE



1. House main body information/Universal Prefabrication Solution:

1) House Material				
Roof panel	External wall	Internal wall	Flooring support panel	Trusses and purlines
94mm thickness	94mm thickness	94mm thickness	94mm thickness	Hot galvanized
Econel	Econel	Econel	Econel	steel structure

Econel(form cement board)

2. House decoration information:

Item	Roof	Ceiling	External wall	Internal wall	Flooring
Material	Asphalt waterproof roll	Gypsum board	Latex painting	Latex painting	Ceramic tiles

1) Roof: waterproof rolls above roof panel

2) Ceiling: gypsum board (600mm*600mm*9mm) with double PVC film for waterproof ness

3) External wall: latex painting with green color

4) Internal wall: latex painting with white color

5) Flooring: ceramic tiles (600mm*600mm*9mm) and anti-slip ceramic tiles (300mm*300mm*9mm) for bathroom

6) What the traditional building use for decoration can be used onto our prefabricated house

7) Much easier and faster decoration steps than traditional buildings to save much labor cost and decoration cost

3. House doors and windows:

Item	Entrance Door	Bedroom Door	Bathroom Door	Kitchen Door	Windows
Material	Steel Security	Wood	Aluminum Alloy	Wood	Aluminum Alloy
Style	Single open	Single open	Folding door	Folding door	Sliding with double glass





Quick Details:

Foam Cement House

Fire Proof: 2 hours

Thermal Conductivity: 0.1035 W/m.K

Thermal Resistance: 0.869 m² K/W

Earthquake Resistance: Up to Richter 8 or as required

Sound Insulation: 40 dB

Wind Load: Wind speed 180 Km/h

Built-in Wire Conduit: Electric wire conduit inside of the panels

Material: Foam Cement Panel

Packaging Details

Usually ship with 40'HQ containers,

1*20'GP container can load around 50sqm foamed cement house,

1*40'HQ container can load around 100sqm foamed cement house.

C- SANDWICH PANEL HOUSE





Quick Details:

Sandwich Panel House

Can be customized to any size

Roof panel: 75mm thickness EPS sandwich panel

External wall panel: 75mm thickness EPS sandwich panel

Internal wall panel: 75mm thickness EPS sandwich panel

Trusses and purlins: hot galvanized steel

Window: Aluminum Alloy Single Sliding // 1140mm*1300mm //540mm*600mm

Door: Steel Security Door // 960mm*2050mm. Wood door // 860mm*2050mm

House Size Information:

87M2 9.75M*8.9M*2.65M

Example of Sandwich panel house:

Quotation for Holiday House (44m²)-75mm, double 0.4mm steel and 12kg/m³ density			
SPEC: 10.95m(Length)*4.5m(Width)*2.65m(Height)			
PART	DESCRIPTION	QUANTITY	UNIT
Main body	Holiday House	44	M2
Doors & Windows			
PART	DESCRIPTION	QUANTITY	UNIT
Doors	Sliding Door for Left Rainshed Entrance (D1)	1	SET
	Wooden Door for Internal Room (D2)	3	SET
	Sliding Door for Front Entrance (D3)	1	SET
	Wood Door for Bathroom (D4)	1	SET
	Wooden Door for Internal Room (D5)	1	SET
Windows	Double Glass PVC Window (W1)	2	SET
	Double Glass PVC Window (W2)	1	SET
	Double Glass PVC Window (W3)	2	SET
	Double Glass PVC Window (W4)	1	SET
Decoration			
PART	DESCRIPTION	QUANTITY	UNIT
Roof Decoration	Hot Galvanized Glazed Steel Sheet	102	M
Ceiling Decoration	House inside and outside PVC ceiling	74	M2
Floor Decoration	House Inside Plastic Flooring	53	M2
	Anti-Skip Ceramic Tiles for Bathroom	52	PCS
Facility			
PART	DESCRIPTION	QUANTITY	UNIT
Kitchen Facility	Cabinet	1.7	M
	Vegetable Basin with Tap	1	SET
Bathroom Facility	Toilet Seat	1	SET
	Wash Hand Basin	1	SET
	Water-Tap for Basin	1	SET
	Shower Head	1	SET
	Shower Room	1	SET
Plumbing System			
DESCRIPTION		QUANTITY	UNIT
Plumbing System		1	SET
Electricity System			

DESCRIPTION	QUANTITY	UNIT
220V Electricity System	1	SET
Steel Chassis		
DESCRIPTION	QUANTITY	UNIT
Square Tube Steel Chassis with 15mm Plywood	1	SET
Inland Shipping and Port Charges Qingdao(1*40'HQ container can load 1 unit of this house		
DESCRIPTION	QUANTITY	UNIT
40'HQ Qingdao Port Inland Shipping and Port Charges	1	Container

JOBS DONE BY US FOR UNDP IN SUDAN



