



# GREEN HORIZON INNOVATIONS

*Innovative Solutions for a Sustainable Future*



MODERN. DURABLE. SUSTAINABLE.



ECO-FRIENDLY LIVING SOLUTIONS



DESIGNED FOR COMFORT & EFFICIENCY



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SALES & SUPPORT



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GREEN HORIZON  
INNOVATIONS

BUILDING A GREENER HORIZON FOR GENERATIONS TO COME



GREEN HORIZON  
ARCHITECTURE

# A HOME SHAPED BY **NATURE**

Baja Beach House





## BAJA CALIFORNIA, A LAND OF STRIKING CONTRASTS, OFFERS A PARADISE FOR ADVENTURERS.

Imagine desert landscapes meeting the turquoise waters of the Pacific and the Sea of Cortez. Quiet bays and rugged coastlines create the perfect setting for sea kayaking, snorkelling in crystal-clear waters, and even rock climbing or surfing along remote stretches of shore.

Our design brief was to create a home build that's practical for development while harmonising with the landscape and ecology. Baja California's lower cost of living and proximity to the U.S. border makes it an ideal location for a relaxed, scenic lifestyle. This appeals to retirees, expatriates and tourists alike.

The climate was also a key consideration. We know your homeowners would need ample storage for outdoor activities like surfing, hiking and paddle boarding. Plus, they'd want to feel proud walking home after a night at the gold club. Our goal was to design a home that looked great from the street and made them smile.





## WE METICULOUSLY LISTED ALL THE ADVANTAGES OF BAJA CALIFORNIA AND DESIGNED A HOUSE AROUND THEM:

- **Proximity to the U.S. and accessibility:**  
Easy travel from the U.S., especially for Californians. Many areas are accessible by road with U.S.-plated vehicles.
- **Lower cost of living:**  
Housing, dining and healthcare are generally more affordable than in the U.S.
- **Diverse lifestyle and activities:**  
From the wine region of Valle de Guadalupe to world-class surfing, diving and fishing along the coast.
- **Breathtaking nature and wildlife:**  
Renowned for its arid, stunning scenery and diverse marine life, including whale watching and whale sharks.
- **Quality of life:**  
Many find a more relaxed pace of life with fewer crowds compared to other tourist destinations in Mexico.
- **Medical care and opportunities:**  
High-quality dental and medical care is available at a fraction of U.S. costs, along with investment opportunities.

## DESIGN INSPIRATION

Baja California, renowned for its beaches and tranquil atmosphere, inspired our design. We aimed for a quintessential beach shack aesthetic as the focal point. Large verandahs and glass, but with sturdy steel frames and security.



## MATERIALS & BUILD

The materials and finishes we chose reflect the client's lifestyle and preferences. The stainless-steel frame will withstand the sea's salt and the air's humidity. We incorporated a carport and researched your ideas to create a residence that meets your desires without exceeding your budget. This includes upscale finishes, materials, and cutting-edge home security and protection systems.

## WHY THE FOUNDATION FOR YOUR BAJA HOME IS ONE OF THE MOST IMPORTANT DECISIONS

A properly designed home foundation is about far more than simply setting the steel frame, prefabricated box on the ground. It is the structural handshake between your home and the earth.

### A SMART FOUNDATION STRATEGY HELPS:

- Distribute concentrated corner loads into the soil safely
- Prevent twisting or racking of the steel frame
- Reduce the chance of settlement and costly structural integrity corrections
- Manage groundwater and storm runoff
- Support insulation strategies that improve comfort
- Ensure compliance with engineering and permitting requirements

Because doors, windows, and interior finishes depend on the home staying square, even minor movement can create headaches later. Investing in the right system at the beginning usually saves significant money down the road.



# 1. CONCRETE PIER FOUNDATION

Pier foundations are often the entry point for shipping container construction. They're efficient, adaptable, and minimize disruption to the land.



For cabins, ADUs, and rural builds, piers can be a perfect blend of simplicity and performance.

## HOW PIER FOUNDATION SYSTEMS SUPPORT OUR STEEL FRAME HOMES

Concrete columns are placed strategically under the container's structural load points, usually at the corners and sometimes mid-span for longer configurations. Steel plates or brackets connect the prefabricated home securely to the piers.

### WHY MANY BUILDERS CHOOSE PIERS

- Typically, the most budget-friendly route
- Faster installation compared with continuous concrete
- Excellent for uneven or sloped terrain
- Elevation improves airflow and reduces moisture build up
- Easier to run plumbing and electrical beneath the home

### WHERE EXTRA PLANNING IS NEEDED

- Measurements must be extremely precise
- Additional insulation is required under the floor
- Skirting is often added for aesthetics and pest control



## 2. CONCRETE SLAB FOUNDATION

Concrete slabs provide a familiar, traditional approach that many municipalities and lenders appreciate.



### HOW SLAB FOUNDATIONS WORK WITH OUR STEEL FRAME PREFABRICATED HOMES

A reinforced pad is poured across the footprint. Anchor points are embedded so the steel frame can be welded or bolted into position once delivered.

### STRENGTHS OF A CONCRETE SLAB APPROACH

- Straightforward engineering
- Excellent load distribution
- Clean, low-profile appearance
- Durable and long-lasting
- Often easier for inspectors to approve

### TRADE-OFFS TO CONSIDER

- Plumbing must be finalized before the pour
- Future repairs under the slab are harder
- Requires good site grading and drainage

If you want your project to feel closer to a conventional home, a slab is often the path of least resistance.



### 3. STEM WALL FOUNDATION

Stem wall systems, similar to strip foundations, are a favourite among builders who want durability, elevation, and access without committing to a full basement.



#### HOW STEM WALLS ARE BUILT

Concrete footings are installed below the frost line, then short perimeter walls rise to create a raised platform. The area inside can remain a crawl space or be partially filled.

#### WHY THEY WORK SO WELL FOR STEEL FRAME HOMES

- Lifts steel above pooling water and snow
- Provides ventilation to combat condensation
- Allows maintenance access for plumbing and wiring
- Offers stronger continuous support than isolated piers
- Creates a polished, permanent appearance

#### WHAT TO BUDGET FOR

- More excavation and concrete
- Slightly longer construction schedule
- Engineering for venting and insulation

In many regions, stem walls hit the sweet spot between affordability and longevity.



## 4. PILE FOUNDATIONS (HELICAL OR STEEL)



Where soils are weak or flooding is a concern, piles provide deep, reliable support.

### HOW PILES STABILIZE THE STRUCTURE

Long steel screws (helical piles) or pillars are driven deep into the earth until they hit stable soil or bedrock capable of carrying the load of the steel frame homes.

### ADVANTAGES

- Installation is quick with specialized machinery
- Exceptional stability
- Ideal for coastal areas, wetlands, waterfront properties, or sites with poor soil test results
- Minimal excavation with very low environmental impact
- Keeps the living space safely elevated

### LIMITATIONS

- Higher equipment and labour costs
- Requires specialized engineering



## 5. CONCRETE BLOCK FOUNDATION

Concrete masonry units (CMUs), often called cinder blocks, are sometimes used as a simplified or temporary foundations for steel frame homes. In the right scenario, they can serve as a practical stepping stone toward a more permanent build.



For full-time homes, many jurisdictions require upgrading to a more engineered system, but blocks can still play a role in early project phases.

### HOW BLOCK FOUNDATIONS ARE USED

Blocks are stacked or mortared at key bearing points, typically beneath corners and along major load paths. They may sit on compacted gravel pads or small footings.

### WHY SOME BUILDERS CONSIDER THIS OPTION

- Lower upfront material cost
- Quick installation
- Minimal excavation
- Can work for sheds, workshops, or short-term placements

### IMPORTANT LIMITATIONS

- Less stable than poured concrete
- Vulnerable to shifting or settlement if not engineered
- Often not approved for permanent residences
- Requires careful leveling and anchoring



## 6. STRIP FOUNDATION

Strip foundations, sometimes called trench or continuous footings, run beneath load-bearing lines instead of supporting only isolated points.



### HOW THEY WORK

Concrete is poured into trenches below frost depth, forming long structural bands that carry weight along the steel frame or perimeter.

### WHY THEY'RE EFFECTIVE

- Provides more continuous support
- Reduces differential settlement
- Works well for multi-pre fab layouts
- Often simpler than a full slab

### CONSIDERATIONS

- Requires accurate excavation
- May still need piers or pads at high-load corners
- Slightly higher cost than isolated footings










This approach is common in regions where traditional masonry homes are built on continuous footings.



## TECHNICAL PARAMETER TABLE

BASIC CHARACTERISTICS	External dimension(mm)	6520*9000*H2500 30FT	
	Foldedstate (mm)	2200*9000*H2500 20FT	
	Internal height dimension	2200*9000*H2500 20FT	
	Gross mass (kg)	5200KGS 30FT	
FRAME STRUCTURE	Main supporting beam	t5mmQ235B	
	Main side beam	t5mmQ235B	
	Main lower beam	t5mmQ235B 2040-FT	
	Main lateral low beam	t5mmQ235B 2040-FT	
	Side roof frame	t3mmQ235B	
	Overall frame protection paint	Electrostatic spray/ Plain plastic powder	
	Side cabinet top and bottom	40*60*1.8mm	Square tube
ROOF	External top plate	50mmEPS+0.6MM+18kgs,The roof is twice waterproof	
	Secondary roof waterproofing	Corrugated iron tile 0.6mm	
	Middle roof trim panel	High-end anti-collision carbon crystal board	











WALLBOARD	Middle top insulation	t50mm Glass Wool Side top50mm EPS)*18kgs		
	Side wall, front and rear wall panels	50mmEPS/18KGS+0.4MM		
	Internal partition	40*60 frame, + double PVC trim board		
	Two-sided floor	Bamboo floorings 18MM		
	Floor gap connector	PVC		
FLOOR DECORATION	SPC floor 4mm(High-end SPC flooring)			
INTERIOR TRIM	High-grade bamboo and wood fiber board			
YIN ANGLE AND YANG ANGLE DECORATION STRIP	High-grade stainless steel decorative plate.			
ELECTRICAL SYSTEM	All electrical products must comply with CE certification. Connect the circuit according to the circuit engineering specification, indoor :LED lights, sockets, air conditioning sockets, switches.1 20A leakage protector 110220-v,50HZ Voltage is110- 220V,50HZ. Custom European standard. American standard. German standard			
ENTRANCE DOORS	Broken bridge aluminum door + tempered radiation glass .High-end smart fingerprint password lock			

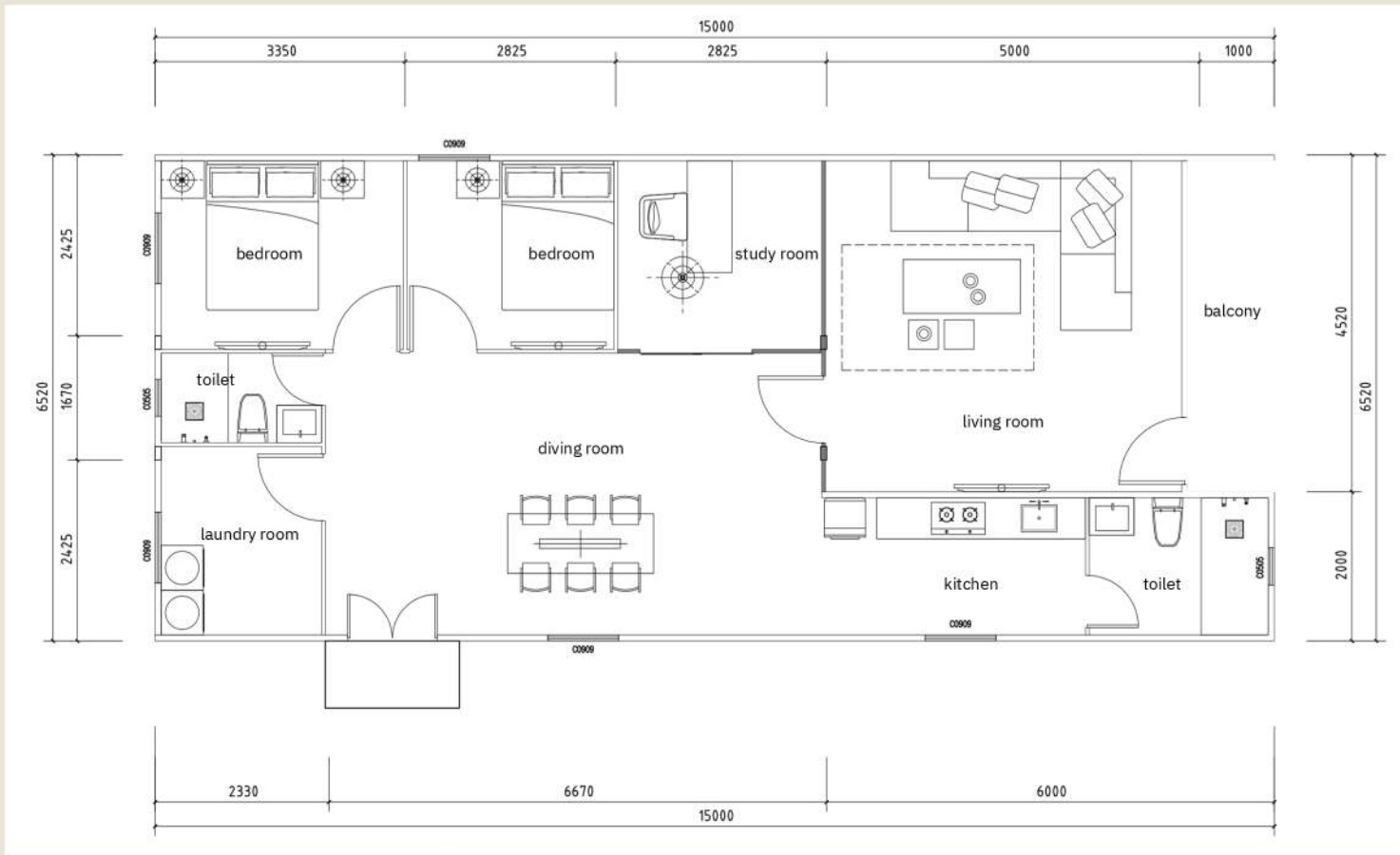
BEDROOM DOOR	Wooden door 820mm*1970mm
WINDOW	Broken bridge aluminum tempered double glass930*2090*4
METAL CARVING BOARD	18MM Extra calculation +Back wall preservative wood
TOILET	Ceramic round bathroom toilet. Sink. Shower unit. Mirror. Drain pipe + high-quality arched glass door + premium bathroom door
KITCHEN CABINET	L-kitchen cabinet+High-grade sink



## HOUSEHOLD GOODS

1	2+1+1+ seater sofa with coffee table		5	Refrigerator 1510*440*440mm	
2	1.6m Desk with chair		6	Washing machine dryer combo 595*595*850mm	
3	Dining table with 4 chairs		7	1800MM (Bed+Mattress)	
4	Wardrobe 1045 X 600 X 2100MM *2		8	Bedside table *2	

# INTERNAL LAYOUT



## BAJA BEACH HOUSE DESIGN

ITEM	DESCRIPTION	UNIT	UNIT PRICE (USD)	TOTAL (USD)
Baja Beach House	(30FT) 9000×6320×2480	1	\$22,670.00	\$22,670.00
Car shelter	-	1	\$1,180.00	\$1,180.00
Optional items	-	1	\$6,986.00	\$6,986.00
<b>TOTAL:</b>				<b>\$30,836.00</b>





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