


MODULAR HOME	
Reference:	09
Name:	Modular Home
Climates:	<a href="#">Dry Climates</a> <a href="#">Humid Middle Latitude Climates</a> <a href="#">Moist Tropical Climates</a> <a href="#">Rainforest Climates</a>
Occupants:	 modularly expandable
Living area:	449.00 ft <sup>2</sup> 41.71 m <sup>2</sup> modularly expandable



#### Description:

In 1959 a group of Japanese architects and city planners joined forces under the name 'the Metabolists'. Their vision of a city of the future inhabited by a mass society was characterised by large scale, flexible and extendable structures that enable an organic growth process. They were influenced by the ideas and drawings of Archigram.

This EcoHouse is largely influenced by the Metabolist architectural thought. Developed in collaboration with Omnia Tech s.r.l. Via V. Monti, 1120124 MILANO, this home is based on a highly resilient and flexible concept. Taking the example of 'Lego Housing' dating all the way back to our childhood, the Modular Home allows you to plan your life savings and finances by being able both to expand or reduce the living area of the housing unit itself, by a mere addition or reduction of its wall and roof modules, as well as combine other units together, thus treating the whole EcoHouse as a 'module'. In this sense, there are few examples of a more flexible building response to the environment and our increasing need to respond to the rapidly frequent changes of modern lifestyle.

Made of S.M.C. (Sheet Moulding Compound) modules, the walls and roof of the Modular Home are very durable and have an extremely high thermal and mechanical resistance. They are fully resistant to corrosive actions of chemical and atmospheric agents, can accommodate all water supply, drainage, electrical, gas, telecommunication services, as well as easily serve for wall and floor heating and cooling, providing occupants' comfort in all climates. If combined with Solar Collectors and/or Photovoltaic Cells to form a pitched roof, Modular Home can be built even in the coldest climates. In dry climates, on the other hand, the walls and roof of this EcoHouse can be utilised for storing domestic water.

Thanks to the notable versatility of the system, you can set up your EcoHome in a matter of days using Omnia Tech's modular city™ products and expertise, to enjoy living in a permanent, lasting structure, one whose size and shape you will modify as you see fit, or even one which you will simply recycle innumerable times.

The applied technology is founded on the principle of modularity - word that contains all the strength and the versatility of the final product, based on three building elements alone: the panel, the angular panel and the corner panel.

Some of the characteristics of the S.M.C. material used to manufacture the internal and the external panels, can be summarised as follows:

- Suitable for storing domestic water, and even drinking water;
- Resistant to corrosive acid and hydrocarbons;
- Thermal insulator;
- Electrical insulator;
- Retains shape in-between the temperature of -100 °C to +180°C;
- Resistant to strong impacts (hurricanes, landslides, etc.);
- Suitable for various kind of internal and external finishing (e.g. all architectural paints, eco-paints, etc.);
- Suitable for further modification (e.g. cutting, milling, drilling, etc.).

And if you ever need to move home, all you would need is a helping hand to dismount the modules that make your walls, floor and roof, stack them on a pallet and ship them by truck or plane to your next postal address!

#### Areas:

Floor Plan	ft <sup>2</sup>	m <sup>2</sup>
Living	120.25	11.17158575
Kitchen & Dining	75.54475	7.01833909
Hall	17.60428	1.63548996
Bathroom	46.04195	4.277435281
Master Bedroom	101.3511	9.415822172
Children's Bedroom	88.21075	8.195043307
<b>Total:</b>	<b>449.0028</b>	<b>41.71371038</b>

#### FURNITURE AND EQUIPMENT

##### FROM FLOOR PLAN OF BASIC UNIT

ID	ITEM	DESCRIPTION	QTY.
C1	UDR2484	util cabinet	1
C2	CUD3684	cnrr util cabinet	2
C3	UDR2484x27	util cabinet	1
C4	CUD3684	cnrr util cabinet	1
C5	BDR2436	base cabinet	1
C6	BS3036	base cabinet	1
FX1	32W19D	Oval Free Standing Washbasin	1
FX2	36W36D	Square 36x36" Shower	1
FX3	17W26D	Bidet	1
FX4	30W30D	Handicap Toilet	1
FX5	23W21D	24" Single Kit. Sink	1
A1	30W30D	30"L Refrigerator	1
A2	25W25D	24" Gas Range	1
A3	27W28D	Washer	1
FU1	64W84D	Queen Bed Contemp.	1
FU2	18W17D	Left Opening Dresser	1
FU3	18W17D	Left Opening Dresser	1
FU4	43W84D	Bunk Bed 35x81	1
FU5	48W17D	Ent. Center 15" TV	1
FU6	48W24D	48x24 Contemporary	1

FU7	32W36D	Standard Armchair	1	
FU8	26W26D	Swivel Chair	1	
FU9	7W3D	Wall Phone	1	
FU10	14W14D	Coat Tree	1	
FU11	54W54D	36x36 Seat 4	1	
FU12	54W36D	54 Loveseat	1	
FU13	24W10D	Wall Shelf	1	
FU15	48W20D	20x48 Contemporary	1	
FU16	17W17D	17" Floor Lamp	1	

**Working Drawings Contents:**

Type of Drawing:				Number of Sheets per Drawing:	
Site Plan				1	
Foundation Plan				1	
Floor Plan				1	
Roof Plan				1	
Section				1	
Exterior Elevations				4	
Joinery details				3	
Rainwater treatment details				1	
Specifications of Eco-building materials and products				Complete set	
Materials List				Complete set	
Wall details				1	
Internal finishes details				1	
				<b>Download Price (USD): \$</b>	<b>340.00</b>
				<b>Complete set of printed plans + CAD files on business-card CD (USD):\$</b>	<b>385.70</b>



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