



## NanoNest 1 & 2 Bedroom – NanoX

Date: 2024-05-16

Specification	Size in folded state (Length*Width*Hight) 19.35ft * 7.21ft * 8.13ft Exterior size in unfold state (Length*Width*Hight) 19.35ft * 21.42 ft * 8.13ft ; Area: 414 sq/ft Internal size (Length*Width*Hight) 17.91ft * 21.03ft * 7.54ft (Side height 7.21ft)	
Design Parameter	Structure design service life of 15 years, the ground live load is 1.5KN/m <sup>2</sup> , the roof live load is 0.5KN/m <sup>2</sup> , the wind load is 0.6KN/m <sup>2</sup> , the seismic fortification intensity is 8 degrees.	
Packing	2 sets per 40HQ	
Structure	Corner Post	Specification: 8.26inch*5.90inch, Galvanized cold rolled section steel, t=2.0mm(0.07inch), 80 zinc coating.
	Roof beam	Main beam specification: 3.14inch*1.57inch*0.06inch Galvanized square tube. Secondary beam specification: 1.57inch*0.78inch*0.06inch Galvanized square tube
	Floor beam	Main beam specification: 2.36inch*1.57inch*0.06inch Galvanized square tube. Secondary beam specification: 1.57inch*1.57inch*0.06inch Galvanized square tube
	Reversible Bottom frame	Main beam specification: 2.36inch*1.57inch*0.05inch Galvanized square tube. Secondary beam specification: 1.57inch*1.57inch*0.06inch Galvanized square tube
	Reversible wall frame	Main beam specification: 2.36inch*1.57inch*0.06inch Galvanized square tube
	Reversible top frame	Main beam specification: 1.57inch*1.57inch*0.06inch Galvanized square tube
	Rotatable wall frame	Main beam specification: 2.36inch*1.57inch*0.06inch Galvanized square tube
	Powder coating	Powder electrostatic spray baking paint ≥ 80μm,
Roof (R=30)	Roof Tile	Aluminum plated zinc color steel plate: Thickness 0.426mm, Color: white grey
	Thermal insulation cotton	Glass silk cotton felt: Thickness 2 Inch, Single side with aluminum foil volume- weight ≥10kg/m <sup>3</sup> , the combustion performance is A1 non-combustible  Note: 2-inch thickness, aluminum foil facing, and high fire resistance rating (A1 non-combustible) is considered good for thermal insulation purposes. It should effectively reduce heat transfer and enhance fire safety in buildings.
	Ceiling Panel	7.59inch suspended ceiling, 0.4mm thick pressed aluminum plated zinc color steel plate, Hidden nail white, grey color
Floor	Architectural Surface	1.6mm (0.06inch) thick PVC floor contains UV resistant film layer PVC (light grey color)
	Basal Plate	High-density 18mm (0.70inch) thick building formwork, density ≥1.3g/cm
Electricity <small>(All will be in US Standard)</small>	Voltage & wire	220V, home main power cord, Air conditioner cable, Socket cable, Lighting switch wire
	Breaker	20A leakage protector, voltage 220V, 50HZ
	lighting & socket	5 integrated flat panel fluorescent lamps 5, 4 10A five-hole sockets 4, one 16A three-hole air conditioning socket, 2 10A single switches
Wall (R=13)	Thickness	1.96inch thick color steel EPS sandwich board 1.96inch; the inner and outer plates are made of double-sided 0.326mm thick color steel plate, double grey color
	Thermal insulation	2-inch EPS sandwich panel 2 inch, volume-weight ≥14kg/m <sup>3</sup>  Note: With a thickness of 2 inches and a volume-weight of ≥14 kg/m <sup>3</sup> , this EPS panel should provide effective thermal insulation. It offers decent thermal resistance and is suitable for both residential and commercial buildings where average insulation is required. If needed, higher insulation values we will increase/add layers or other insulation materials.
Entrance door	Kentucky door	High-grade steel door, Width x height=5.88ft*7.10ft
Window - Windows will be hurricane rated and upgraded	Specification Material	Front Window: Width X Hight=3.18ft*3.18ft. Back Window: Width X Hight=3.18ft*3.18ft; Plastic steel, hollow glass aluminum alloy window Window Rating: Category 4 Hurrican, 130-160 MPH 75mm in glass support 25newton on forsc ( 25N = 2.5KG on 75mm)
Others	Top and column members	0.5mm thick aluminum plated zinc color steel fold 0.5mm, white, grey color
	Skirting	Imitation wood grain PVC skirting line

