XINHENG INTEGRATED HOUSING

INSTALLATION GUIDE

Double-Wing Expandable House

Assembly steps, tools and packing list



1. Product introduction

The double-wing expandable house is built around a simple idea: two side sections unfold from the main body, turning a shipping footprint into a wider, better-ventilated living space. The wings run on steel tracks and are opened on site without welding.

2. Before you start

Ground preparation

The unit must sit on level ground. The main body rests directly on the surface. For a 20ft unit, pack 40 mm under both sides; for a 40ft unit, 80 mm. At least three support points per side. On soft ground (sand, mud, freshly filled soil) a piled foundation is required.

Crew and tools

At least six people if no hand winch is available. Gloves, helmets, an electric drill, an impact wrench or spanner, a sealant gun.

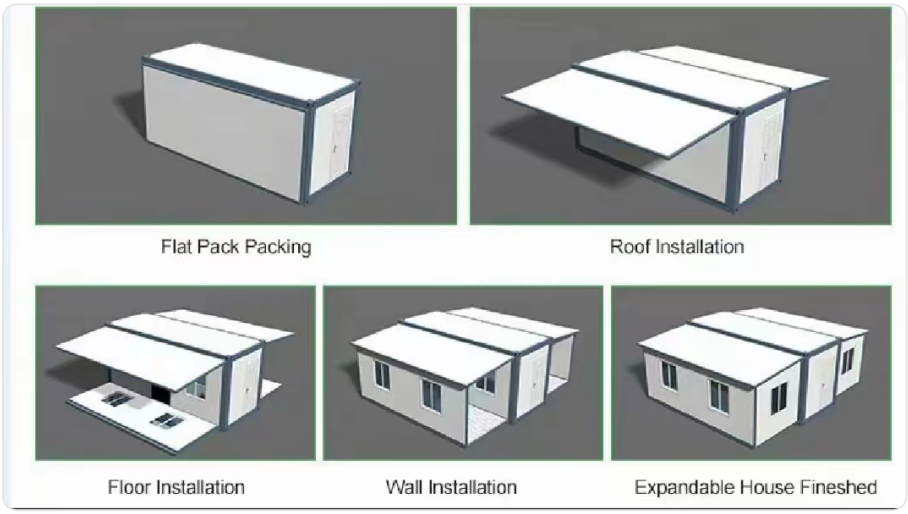
Safety when opening the roof

When the roof panel starts to open, keep at least two people holding the inner panels. Check that the latches are locked and undamaged before lifting further — a damaged latch can let the folded panel drop.

3. Assembly steps

1 Unfold the side wall panels

Open the packing and remove the transport bolts. Lift or prop the outer roof covers on both sides, release the latches on the inner floor, lower the floor slowly, open the side walls, then unfold the front and rear walls. See the photos and the unfolding video.



2 Fix the perimeter screws

Fix the screws around the outer wall panels. If the pre-drilled holes are misaligned, adjust the nearby packers until the screws pass through.



3 Seal the roof joint

Check the waterproof tape at the joint between the side roof and the main roof. If damaged, re-apply sealant and tape, and seal both ends of the gap.

4 Seal indoor gaps

Run a bead of sealant along the indoor joints with the sealant gun.

5 Fit door and window handles

Fit the handles to the main entrance door, the bedroom doors and the windows.

6 Fit the door frame cover

Fit the frame cover on the left side of the main entrance.

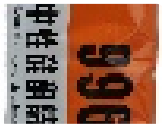
7 Fit the floor trims

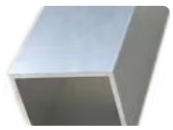
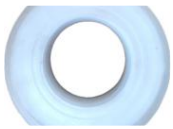
Fit the aluminium trims over the floor joints.

8 Connect sockets and switches

Fit the sockets and switches, then connect the main power inlet.

4. Packing list

ITEM	PURPOSE	PHOTO
Structural sealant, 2 boxes (white + grey)	Seals wall panels, roof covers, door and window joints against water and draughts.	
Sealant gun, 1	Applies the sealant.	
Grey rivets, 20	Joins wall panels.	
25# nails, 20	Fixes the outer wall sheets and the lights.	
6# nails, 20	Fixes the roof cover.	
Waterproof tape, 15 m	Waterproofing and sealing at the folding joints.	
Phillips bit, 1	Tightens and loosens cross-head screws.	
D-profile weather strip, 12 m	Outdoor gap sealing; reduces vibration, water, noise and dust.	
M10×30 bolts with washers, 20 sets	Fixes the four corners of the wall panels.	
Door stops, 3	Stops the door handle hitting the wall.	
Bedroom lock cylinders, 2	Lock mechanism.	
Bedroom door handles, 2	Opens and closes the bedroom doors.	

ITEM	PURPOSE	PHOTO
Main entrance keys	Unlocks the main door.	
Window handles, 8	Opens and closes the windows.	
Aluminium strips, 4	Covers the floor joints.	
40×60 packers, 6	Levels the unit under the four corners.	
End caps, 2	Seals the latch holes in the roof.	
PTFE tape, 1 roll	Seals the tap thread.	
Industrial outdoor plug, 1 male	Main power inlet.	

Important

The wall panels are heavy. Wear helmets and gloves during assembly, and keep the site clear of people who are not part of the crew.