

Planning Shomera

The idea of a DIY 🏠 [Shomera](#) was born from Pinterest inspired images and plans published to build it myself. It did not originate from a single plane, but rather from a collection of ideas I stumbled upon while browsing Pinterest. (Yes I am ashamed! 🙈)



So the basic ideas that came from the online research and the core ideas are:

- 1. You can build with and seal 🏠 [OSB](#) as long as the right grades(OSB3) are selected.
- 2. It can be plastered with cement with the right preparation.
- 3. The base needs to be secured on concrete pillars for stability and seasonal movement.
- 4. Proper insulation using 🏠 [Polyurethane](#) foam.
- 5. The right [tools](#) for the job.

Tools

That I need to get

Tool Description	Supplier	Pounds	Euro	Link	Pick
Frame Nailer	Amazon	£437	€515	DCN692P2	:XED:
Frame Nailer	Powertool World	-	€446	DCN692P2	:CHECKED:
Concrete Mixer	Amazon	£129.99	€153	120L	:CHECKED:
Earth Auger	Amazon	£149.99	€177	T-Mech	:CHECKED:
		€776			

That I already have

- Cordless drill/screwdriver
- Circular saw
- Jig saw
- Table saw
- Router
- Trowels
- Staple guns

BOM

Wood and Sheet Material



- Floor 16'x 10'

- Side panels
 - 2 x 12'x 8'
 - 2 x 10'x 8'
- Partitioning 10'x 8'
- Roof
- Door
- Windows

Frame and Cladding

Product Name	Unit Price	Qty	Subtotal
WHITEWOOD TANALITH 22 X 50 X 4.8M (2x1) 16'	€3.60	10	€36.04
WHITEWOOD TANALITH 22 X 225 X 4.8M (9x1) 16'	€9.50	10	€94.96
WHITEWOOD TANALITH 35 X 50 X 4.8M (2x1.5) 16'	€6.52	10	€65.19
WHITEWOOD TANALITH 44 X 50 X 4.8M (2x2) 16'	€7.49	10	€74.90
Rough White Deal 150 X 22 X 4.8 (6 X 1)-16'	€5.76	20	€115.13
18MM OSB 3 CONDITIONED SHEET CE2 8x4	€19.68	6	€118.08
11MM OSB 3 CONDITIONED SHEET CE2 8x4	€13.91	14	€194.76
1 TONNE BAG BUILDING / MORTAR SAND	€50.97	1	€50.97
CEMENT - 25KG	€4.99	10	€49.94
POST SQUARE TREATED 3" X 3" X 8FT	€8.24	10	€82.41
50mm Ballytherm Insulated Plasterboard 2400mm x 1200mm	€29.77	14	€416.72
Subtotal	€1,056.18		
VAT	€242.92		
Grand Total	€1,299.10		

Roofing

Material Description	Unit price	Quantity	£	€
Ondula classic red	£10.30	16	£168	€200

Other

Material Description	Quantity	Unit Cost	Total
Polyurethane Foam	50kg	£189	€223
Nails			€60
Total			€283

Note: In hindsight I discovered that this price excludes shipping and VAT and cannot ship to Ireland, so had to find another local supplier that can ship to Dublin.

Calculations

[My hand](#)

calculation references and notes
taken during “research” and design.

Roof Angle

The objective is to maintain a roof angle of more than 20 degrees for the roof tiles and weather proofing criteria.

The rafter design has a 2ft middle beam across the side areas of 8ft or 10th width. The final design will be 10ft wide.



Roof Area

Hover over the calculations for comments.

