



DURRA KIT HOUSE

MOBILE HOUSING SOLUTIONS IN LIGHTENING SPEED



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United Nations Peace Keeping Mission By SL Army in Africa

MOVE YOU'RE BUILDING WITH YOU TO THE NEW LOCATION WHEN YOU HAVE TO CHANGE YOUR LOCATION

DISMANTLE - FLAT PACK - REUSE

Durra Panel is the innovative alternative to expensive multilayered mass systems for noise control and fire tolerant wall systems. One layer of Durra Panel can reduce the breakout noise from buildings while reducing internal reverberation and heat at the same time have a two hour fire resistance.

Our manufacturing philosophy is to provide acoustic roof / ceiling and wall systems that can be configured to meet performance/specification, requirements for a diverse range of commercial, industrial and residential projects. Durra Panel can also be provided with a range of factory applied laminates that will alter the panel mass and stiffness as required for more specialized building applications.

Durra Building Systems, manufactures a wide range of Zinc alum steel roof truss and wall girts that are combined with Durra Panel to form high performance modular building systems for roof, ceiling and wall for single and multi storied buildings.

The additional benefit of Durra Building Systems being fully demountable, and reusable for more than four times, and conforms to the Green Building Council of Australia (GBCA) for Green Star ratings.

Durra Building Systems have a long and proven track record for being used in landmark projects throughout Sri Lanka and around the world. Some of these include accommodation for universities, express way's, office buildings, ware houses, factory buildings, site offices, boutique hotels etc.

DURRA modular buildings are fire rated for two hours, lightweight one sixth of the weight of the conventional system specializing in low frequency noise control combined with a fast and efficient installation method.

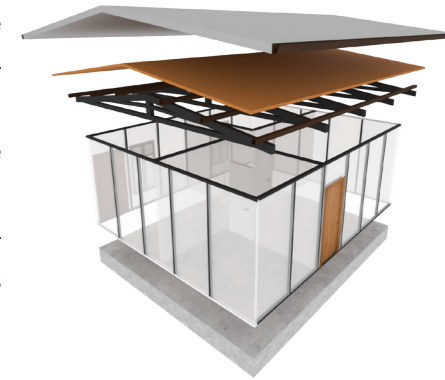
DURRA KIT HOUSE 10 ADVANCE FEATURES AND BENEFITS

1. Fast to assemble and compress construction lead times.
2. Cost effective and affordable price.
3. Wall panels/ ceiling panels are Fire rated according to BS 476 Part 22 1987,
4. Wall panels/ ceiling panels are thermally insulated and less heat conductive.
5. Wall Mass has a high sound rating of STC 32 and reduce rain noise.
6. Non carcinogenic natural materials good for health and promotes mental well-being.
7. Modular assembly, could be dismantled and relocated.
8. Light weight structure and flat packed on delivery, erected to position with ease.
9. 100% Sustainable materials, 6 credits for LEED's Conforms to international standards.
10. Strong 10.36 Mpa impact resistance, 10 times the strength of a plaster board.

DURRA KIT HOUSE 6 EASY MODULAR BUILDING STEPS.

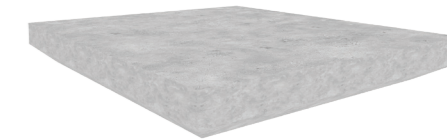
STEP 1

DURRA KIT House super structure is light weight (one sixth of the weight of the Block wall) modular system as indicated in the image. This makes the requirement for the substructure also light weight. The substructure is to be constructed in a trench of 200mm x 200mm with three layers of solid block 100mm thick, one layer below ground 150mm, and two layers roughly 300mm above ground a total of 450mm with solid DPC on top for the bottom runner, a 50mm thick screed concrete at the base of the trench of the wall line, plastered to finish from both sides (for both the Perimeter and Internal walls) see image on right.



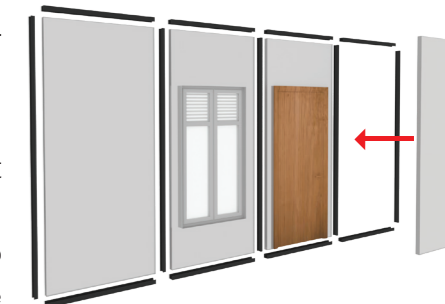
STEP 2

50 mm thick Grade 20 Mass concrete on imported and compact earth to float to finish with appropriate expansion joints to form the concrete ground floor slab a 2" x 2" welded mesh as an reinforcement within the boundary of three layers of block plinth see image on right.



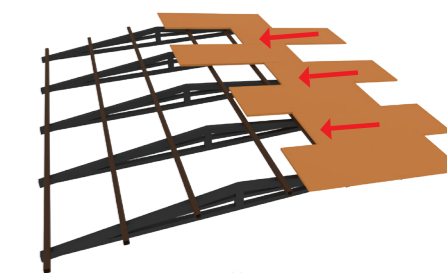
STEP 3

To set up the super structure, erect the 62mm single side cement laminated DURRA external wall after placing the 63mm wide 0.75mm thick Zink Alum floor runner on the DPC layer on top of the cement block plinth screwed to position after checking for the correct alignment and plumpness. Place wall boards along the floor runner maintaining the plumpness for vertical placement and alignment for straight line. 58mm wide Zink alum wall stud is clipped as wall columns in 1187mm intervals to cassette the wall board from both sides vertically upright to Progress the wall. The 63mm Zink Alum top plate is then capped on top tying the wall boards from top to receive the roof structure see image on the right.



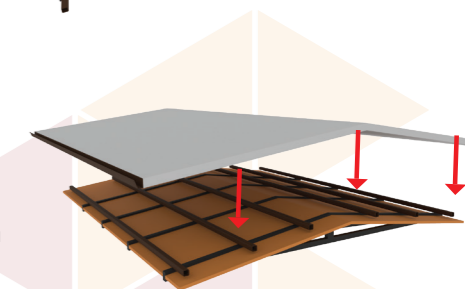
STEP 4

Lift in to place the Zink alum 75mm wide 1mm thick 12° Angle double pitch roof truss in 1187mm intervals on to wall brackets in correct alignment and plumpness then insert the 50mm DURRA ceiling boards between each truss covering the entire roof area. This will create one composite action by tying walls and ceilings to form the single built up area. See image on right.



STEP 5

Fix the 0.47mm thick top hats 20mm girth Zink Alum in 600mm intervals bracing the roof truss to form rafters and lay the Zink alum 0.47mm Roof sheets covering the entire roof leaving a 20mm air gap between the roof sheet and the 50mm DURRA ceiling boards for thermal and sound insulation. See image on right.



STEP 6

DURRA Wall panels will be cut and end seal the cut edge to finish and fix with sub frames to receive the aluminum windows and plywood doors these sub frames. Fix the water tight edges on the corner, insert and fix the windows to this openings provided on the DURRA board maximum opening 900mm.

