Low Cost Housing
Just Fit it!

Roadpacker Group Ltd
Calgary, Alberta
Canada
Tel. +1 888-280-9044
Fax. +1 403-770-8375
Email. info@roadpacker-group.com
web. www.locosthousing.com
With The Low Cost Housing International Just Fit It Technology, houses of all sizes and styles can be built quickly and easily using the minimum of skilled labour and the minimum of off site materials. Even the plumbing and electrics can be fitted by an unskilled labourer. The door and window frames just slot in!

An example of Security Guard Lounge

The Just Fit Technology requires No Mortar, No reinforcement and No off-site materials to be transported to the construction site. It features an interlocking dry stacking stabilised earth brick design which provides high stability and sheer strength as well as very highly insulative properties. This means that in the summer months the LCH constructed homes stay cool and in the winter months, cost very little to heat!
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Stages of Construction

1. The soil is crushed in the LCH crusher to reduce the particle size and aid the absorption and reaction of the RoadPacker Clay Brick Stabiliser.

2. After treating with RoadPacker CBS. The soil is loaded into the brick making machine to begin the cycle of compacting and extruding the brick.
3. After compaction of the Stabilised Earth Brick, a cycle begins to extrude the brick from the machine giving a durable and waterproof brick for building.

4. The finished bricks are then stacked for curing for a short period of time then building may commence.
5. Foundations are made using the same bricks reinforced with mortar. Building then commences above the floor level by dry stacking the bricks one on top of the other.

A Rammed earth base is then made to act as the floor of the building which can then be covered with a thin screen of concrete if required, as shown here.

If the earth is unstable, then a viable solution for stabilising of the soil for the base of the house is the use of RoadPacker Plus Ionic Soil Stabiliser or RoadBond.

Once the base is completed the building may commenced upon this stable base. Upon completion this base may be tiled, carpeted or left bare.
6. Building now commences, mortar is only used to stick the first row of bricks to the concrete base, if a rammed earth base was used the bricks could be dry stacked on the foundation level.

From this point onwards the bricks are all laid one by one in rows with no need for mortar or reinforcing bars. However if the house is in a high risk area then reinforcing bars may be laid in the grooves along the bricks to add and increased stability in case of earthquakes, typhoons or hurricanes.

Special corners moulds are used to provide a smooth finish to the building, these interlock with the connecting bricks, and provide a continuation of the groove for reinforcing bars.
Interconnecting walls are made in a very simple manner. A pair of reinforcing bars are placed in the exterior wall and at right angles in the connecting wall. This makes for a stable join and mortar may be used in high risk areas.

At this point the electrical conduits and outlets may be installed. The Just Fit It Technology allows the conduits to flow deep inside the walls and provide flush fitted outlets inside the house.

Using this method, it is very easy to install electrics inside the walls, needing only a tradesman for finishing.
Once the next level of bricks have been laid the socket is completely flush to the wall, and the interior of the house begins to take shape. The house may be left like this or finished with a thin skim of plaster.

9. Once the shape of the house starts to form, the windows and doors may be fitted. In this example there is just one door and two windows. See how they slot easily into place and are secured to the frames placed in the opening. Again this may be done by completely unskilled labour.
Once the doors and windows have been fitted the construction can continue all the way up to the roof level. The house is now beginning to take shape.

10. The roof may be easily applied using conventional methods.

With the full walls in place the house now has high stability and the lower bricks could not be removed without pick-axe or heavy machinery. The walls are also totally Hydra phobic.
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The finished wall constructed with stabilised earth bricks is both pleasing to the eye as it is economical to produce. The walls are totally Hydrophobic in this state but may be painted or plastered to fit in with the local environment or the owner's personal taste.

These examples of finished houses show the many different ways that Low Cost Housing can look and are examples of our work all over the world.

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The Low Cost Housing Building System is available in many different varieties depending on the size of the development and the speed of construction required. Here are just some of the options available.

Hand-PressTrans  M7S2D & E Blockmaking Machine

RoadPacker Clay Brick Stabiliser

M7E-380  MI Machine

An Artist Impression of a two storey LCH Townhouse with 3 bedrooms, kitchen, lounge, dining room and 3 bathrooms.