

plan

MOBILE HEALTH UNIT FOR MPILONHLE (a good life)
designmark II > January 2008

east coast ARCHITECTS

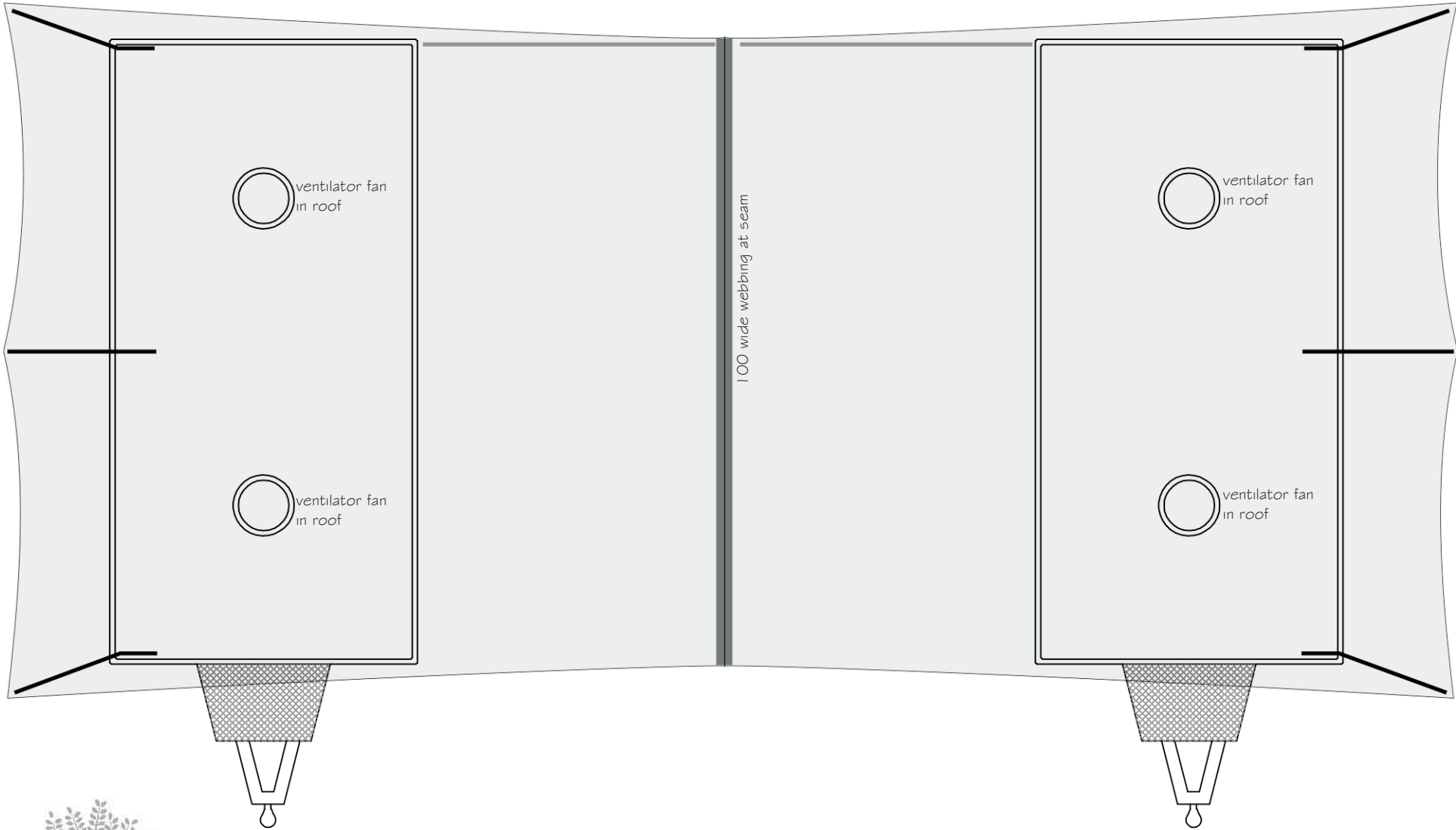


MPILONHLE
a good life



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roof plan

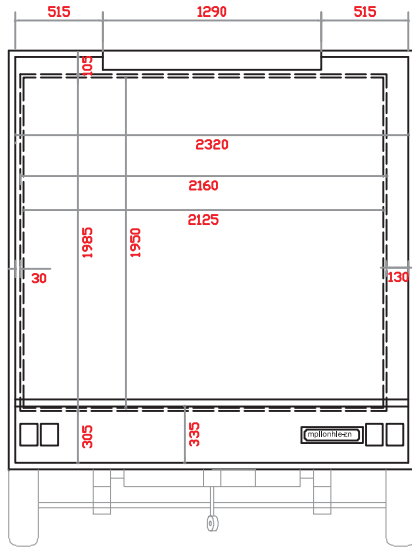
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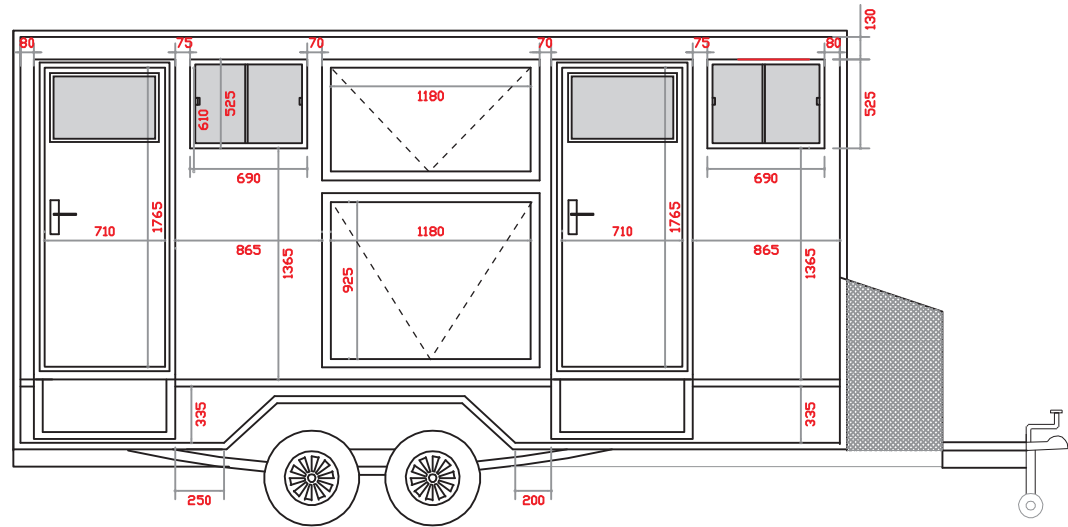


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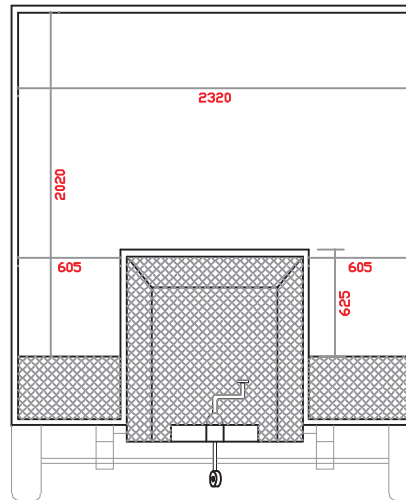
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back elevation



side elevation



front elevation

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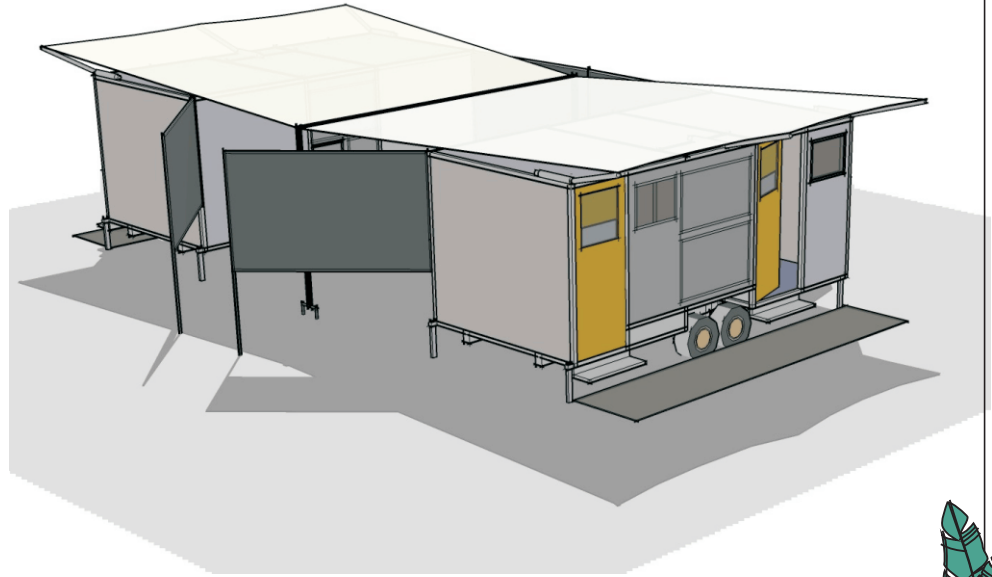
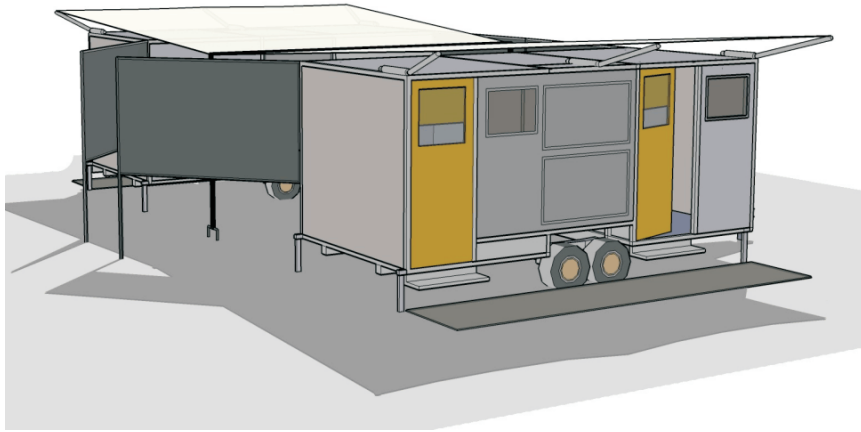
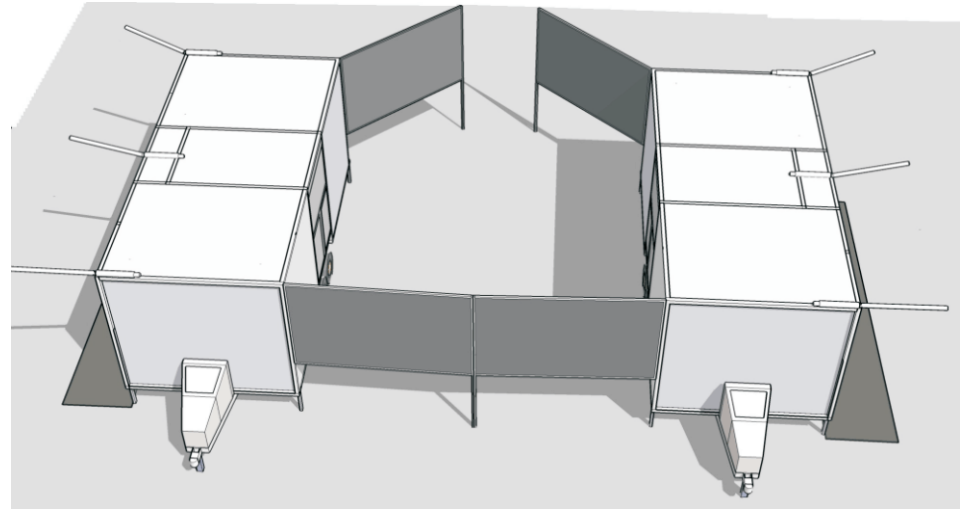
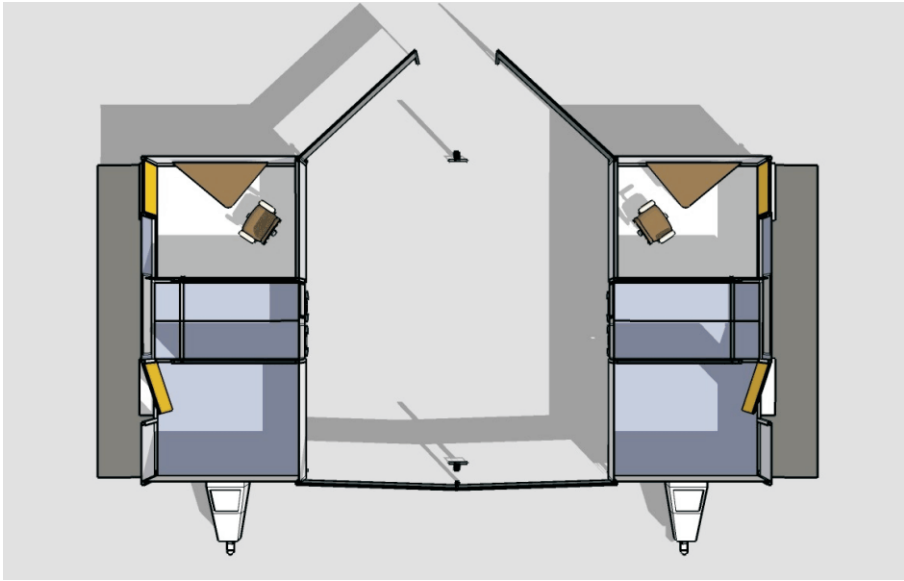
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GENERAL:

The health unit comprises a pair of identical but mirrored trailers with fold out screens and a covering tent/awning that forms a 'teaching space' between the parked trailers. Each trailer comprises 2 counselling rooms and 3 storage lockers for storage of tables, computers and various other items necessary for the operation of Mpilonhle.

The trailers must comply with all legislative requirements for use on public roads within the Republic of South Africa.

CHASSIS:

Aluminium construction using 5mm thick channel sections for the main members. Cross members are also aluminium of no less than 3mm wall thickness. The straight sides are 5mm thick aluminium angle. Half the angle width serves as a fixing point for the side frames.

The trailer 'A' frame is constructed using 5mm thick aluminium channel sections. A tandem 'Rubberide' axle of 1800kg each is fitted together with a braked coupler. A heavy duty jockey wheel is provided. 14" 7J rims with tyres are provided plus a full spare wheel i.e. 5 per trailer.

BODY:

All body panels are vacubonded and incorporate the following components:

- 25mm square aluminium tube frames
- 24DV polystyrene insulate
- 6mm plywood
- Interior & exterior cladding/skins are GRP (fibreglass)
- each skin is 2 layers of 450g chopped strand fibreglass

Treated timber rails are inserted into the frames prior to vacubond wherever fixing points will be required e.g. for hinges, locks etc.

The floor is out of 16mm phenol plywood overlaid with 2mm non slip vinyl. Aluminium steps fold out type is fitted at the entrance to each consulting room. An aluminium nose cone spans the chassis 'A' frame. The spare wheel is mounted within.

The unit offers space for two consulting rooms per trailer. Each room has an opening window together with a full height door. The window has a securing latch. The door is lockable.

Within the consulting room a folding table is provided although of a folding nature it is a permanent fixture and can accommodate 2 persons. The table is approximately 600mm x 1m x 32mm in size.

Opposite the table is a hand basin with a pillar tap. This basin is a moulded GRP design incorporating a storage cupboard below. The cupboard is lockable. Next to the folding table is a dustbin also a moulded GRP design item including a lockable cupboard.

Opposite the entrance, at the junction of the side wall and ceiling, is a roof locker

with clear acrylic sliding doors.

A suitably sized fluorescent light is provided in each consulting room.

An extract/blow fan is fitted in the roof panel.

External, heavy duty hinge mounted, side panels are provided. Two are on the side of the unit opposite the consulting room entrances and a third panel at the rear of the trailer.

STORAGE LOCKERS:

This compartment houses a water tank which provides water to each basin.

Below the water tank is a storage facility for 2 x computer consoles. A sliding rail system is fitted to facilitate loading of these consoles. The consoles are secured for transport.

Next to the consoles is an area reserved for the storage of standard metal tables. A laptop and portable generator are stored within the compartment.

ELECTRICS:

A weather proof 220v inlet is fitted to the primary trailer. A 220v outlet is also provided allowing the two trailers to be 'paired/coupled' using a suitably rated cable.

A 100m 220v extension lead is provided to allow connection to 220v mains or alternately the generator.

220v plug points are provided:

1 per consulting room

1 for the laptop

6 x 220v 'York' boxes are fitted on the side of the trailer.

A 63amp earth leakage together with the appropriately rated circuit breakers is fitted in an 8 way DB box.

A weatherproof fluorescent light per consulting room.

External fluorescent lighting is provided. 2 suitably rated generators are included.

AWNING/TENT COVER:

The cover as shown is from composite fabric similar to that used for fly sheets of tents - silver reflective material to the outside and white fabric to the inside.

The awning is carried by 6 25 diam galvanised mild steel 'poles' (3 per trailer as shown) that slide into a pipe bracket bolted to or welded to the trailer frame.

Tension is supplied to the awning with 75mm thick sewn into the seam between the 2 'wings' which is fitted with a ratchet type tensioner.

MISCELLANEOUS:

All doors except the main entrance doors are fitted with 'ASTRA' locks. The main entrance doors are fitted with 'UNION' locks.

All external aluminium trimmings are anodized.

A valid registration certificate is provided for each trailer.



specification

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