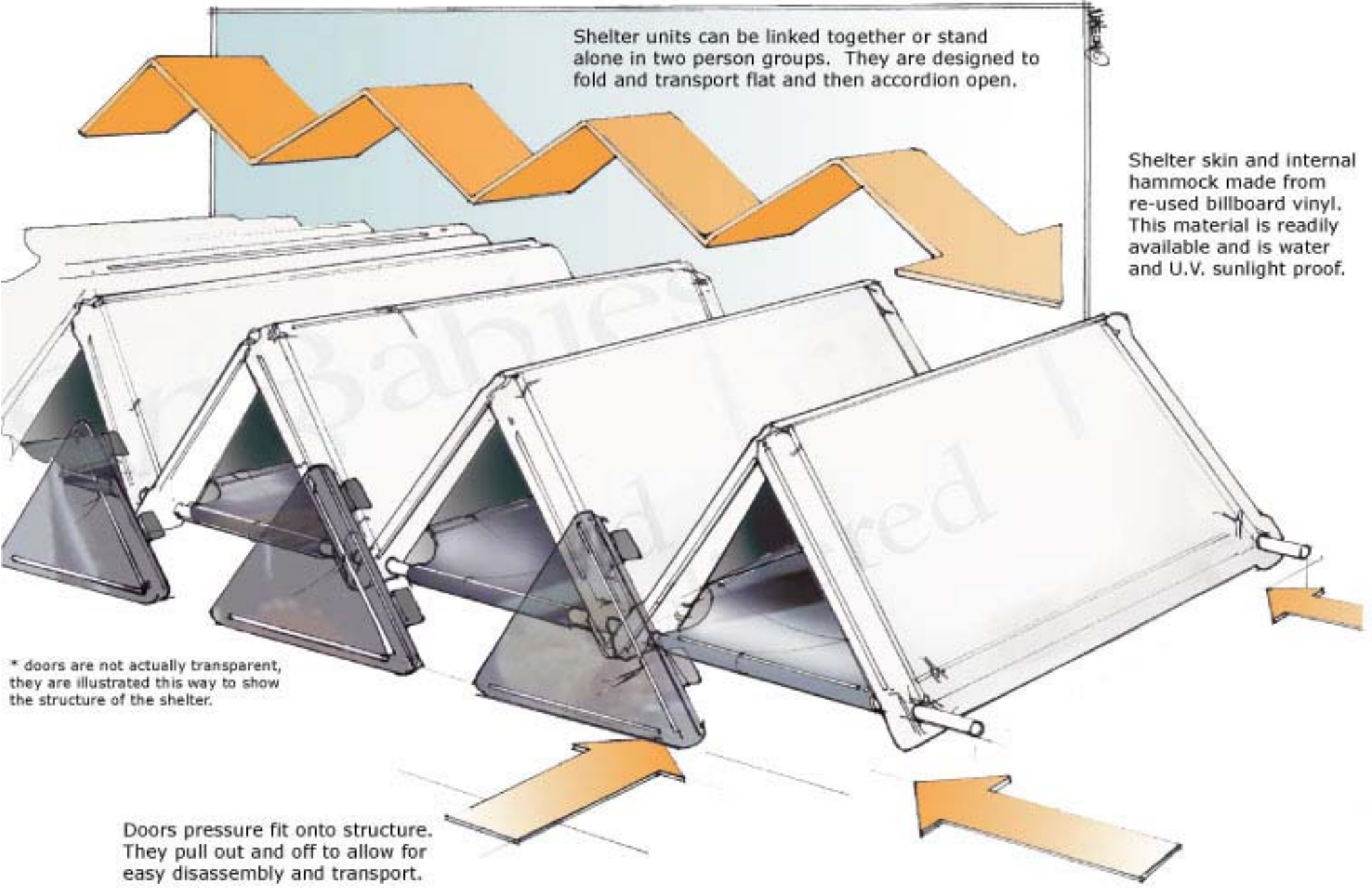


Elevation shows multiple shelters in linked fashion, drawings are for design intent, as actual product result may vary.



Shelter units can be linked together or stand alone in two person groups. They are designed to fold and transport flat and then accordion open.

Shelter skin and internal hammock made from re-used billboard vinyl. This material is readily available and is water and U.V. sunlight proof.

* doors are not actually transparent, they are illustrated this way to show the structure of the shelter.

Doors pressure fit onto structure. They pull out and off to allow for easy disassembly and transport.

Conduit or pipe slides through internal hammocks and holes in wood frame. This provides structural support for hammocks and shelter structure.

MATERIALS LIST

- Wooden boards (donated, found, recovered, bought etc)
- Re-used Billboard Vinyl (easily obtainable)
- Re-used cardboard or similarly available planer material
- Steel conduit or pipe
- Construction screws or nails
- Industrial staples and adhesive (liquid nails or super 77 spray)

CONSTRUCTION OF PARTS

- Frames are laid out and assembled using boards and screws/nails
- Planer material such as cardboard attached to frames to provide rigidity and prevent flapping of vinyl skin
- Completed frames are wrapped in vinyl which provides and water proofing and U.V. resistance as well as the hinge which holds the units together. Use adhesive to ensure that skin is as tight to the frame as possible. This will prolong the life of the interior planer material
- **DON'T FORGET THE HAMMOCKS.** on the short sides fold vinyl hammock into loop for the conduit or pipe to slide into. Staple or use adhesive to create loops.

ASSEMBLY INSTRUCTION - SEE PICTURES -

- Unfold main tent structure
- Run conduit through holes in shelter structure and the ends of the vinyl hammock in each unit.

BENEFITS OF SHELTER

- This shelter fosters a sense of community and privacy. They can be linked or seperated or grouped. Each occupant has his or her own resting place to sleep and sit.
- This shelter uses Re-used billboard vinyl which is plentiful and easily obtainable in developed nations. Under normal conditions this material does not break down under U.V. sunlight and weather related stress
- Depending on the materials used, this shelter is easy to transport. It folds flat for mass transport and distribution and all the materials for its assembly are flat allowing for mass airlifts of raw materials to be constructed on sight.
- This shelter makes use of on sight disaster rubble and the normal waste of developed nations. It is ideal for the rapid shelter needs of disaster relief and recovery.

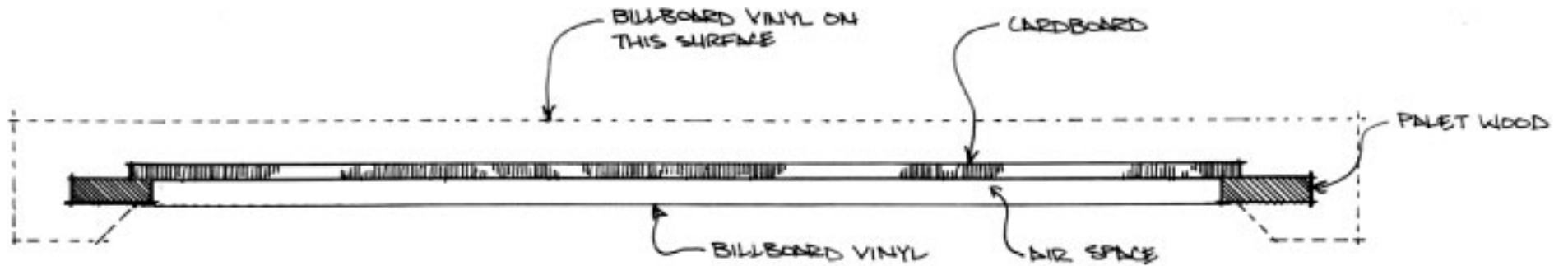
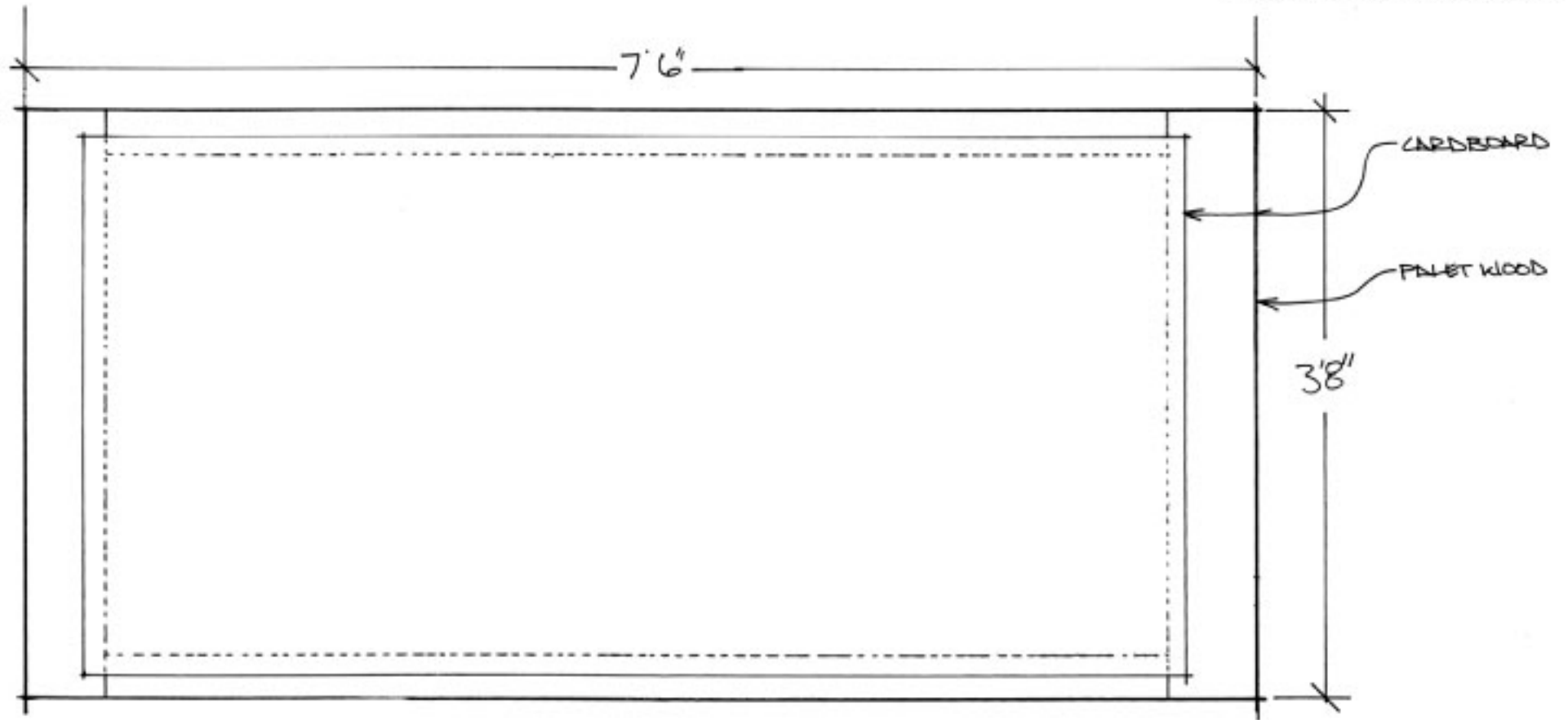
HOW IT WORKS

- Protects from SUN- Re-used billboard vinyl blocks the sun's rays and the doors can detach for air circulation
- Protects from RAIN- Billboard vinyl is waterproof. All four sides of the hammock are raised from the ground which keeps the occupant serated from moisture on the ground.
- Protects from WIND- The doors on both sides of the structure can be closed protecting the occupant from wind on all four sides

POSSIBLE LOGISTICAL STRUCTURE FOR IMPLEMENTATION

- Raw materials obtained via purchase or donation from the United States, E.U., or any other developed and interested nation.
- Materials are airlifted in and cached in a dedicated hanger. Since the raw materials on their own have very little value, looting issues can be avoided.
- Using volunteers and relief workers who lack skills that can be used better elsewhere, templates of the shelters are handed out and assembly lines are created for the immediate production of the shelters.
- Completed shelters are moved by flat-bed transport truck to relief sights where they can be distributed and set up at the discretion of the relief camp coordinator.
- It is my hope that by using local peoples in addition to relief workers a positive, proactive, community response to this tragedy will be created and give otherwise homeless, unemployed peoples an opportunity to contribute positively to the housing crisis.

By Lucas Nene and Richard Glenny



Section view of shelter frame structure

SECTION A-A

Drawings are for design intent, as actual product result may vary.



step 1: pieces:
four door pieces
two pod linked shelter
two conduit pipes



step 2: transport:
man portable shelter unit
materials are common and air/ground
transportable



step 3: set up:
seperate materials, up end primary
structure



step 4: set up:
unfold shelter pull hammocks out
from inner folds



step 5: set up:
insert conduit pipe into hammock
sling and through holes in shelter
frame



step 6: finish:
lay fully assembled shelter down and
begin use. Shelters work on two
person buddy system but could be
linked for family use. Inside vinyl
can be hosed out if occupant is sick
or injured



interior view of hammock; because all four sides are elevated, user remains dry during inclement weather.



putting the doors on. doors pressure fit into the frame of structure.



sitting view. hammock can accommodate a normal sized seated or reclining human comfortably.



side view: note how hammocks are elevated by conduit and how water proof vinyl wraps around the entire form keeping the structure dry and reasonably weather tight.



the creators: Lucas Nene (in white) Industrial Designer
Richard Glennly (in orange) Interior Designer