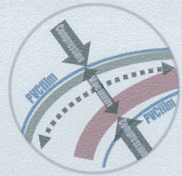


In this method, we can easily construct a suitable form for use and environment from various materials (e.g. sand, textile and straw) in each regions. All the things we need for construction are outer membrane, inner materials and air compressor. Besides we can build and disintegrate easily again and again. The feature of this structure is utilizing a vacuum technology. It can get remarkably good performance of thermal insulator. And pressed discrete materials inthe membrane give stiffness to the structure. Using this method, we can realize various forms or masonry structure, shell structure, folded plate structure, and pneumatic structure from the materials we have never used.



Common Materials : Multiple layer + Separator + Aircompressor

Sand

Textile(Silk)

Soil

Straw

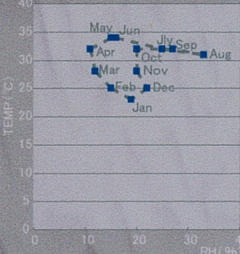
Recycled Polyester fiber「fleece」

It makes good use of local materials and it is good for the environment.

inner materials

Khartoum,
Sudan

Elevation: 379 meters
Latitude: 15 36N
Longitude: 032 33E



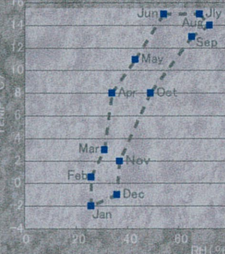
Delhi
India

Elevation: 215 meters
Latitude: 28 35N
Longitude: 077 12E



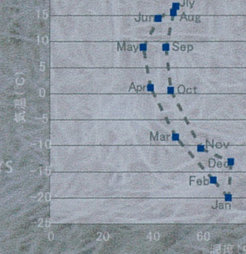
Lhasa,(Tibet)
China

Elevation: 3595 meters
Latitude: 29 43N
Longitude: 091 02E



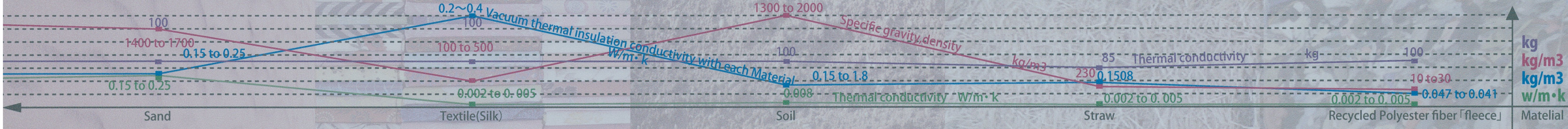
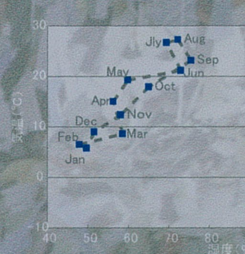
Ulaanbaatar,
Mongolia

Elevation: 1315 meters
Latitude: 47 56N
Longitude: 106 59E



Tokyo,
Japan

Elevation: 379 meters
Latitude: 15 36N
Longitude: 032 33E



Vacuum insulation keeps a living space in comfort condition in any natural condition.

specific gravity / thermal conductivity graph

Elementary school

Made by students using the material in the region.

Floating restaurant

Fluffy light fabric stands on boat and pontoon.

Lodge

It is appropriate for geographical features, and easier to build than rammed earth.

Ger

Without framework, we can obtain more comfortable space while nomadism.

Showroom

Commercial space in park, using the scrap of the clothes of the enterprise.

Combination of membrane and natural materials attain firm and various form.

images

Material

Setting

Insert

Vacuum

frictional force

How to make various forms

