

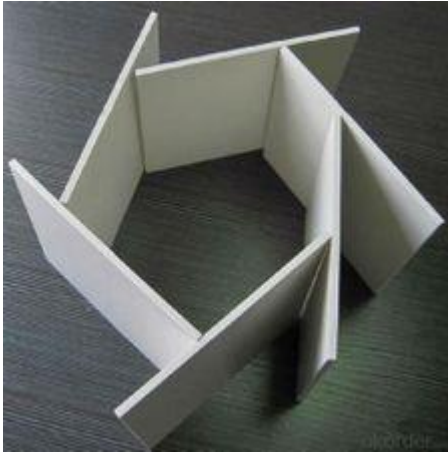
Materials Proposal for the Vehicle Body.

The following materials have been proposed by the design team for the vehicle body and frame.

1. Ribs:

For the ribs, 3 mm Forex board was proposed. The board offers excellent strength while also offering an easy shaping process as they can easily be cut by a pair of scissors.

To produce the 11 ribs, 2 ailerons, and 2 wing tips, two pieces of 60 cm by 60 cm Forex foam boards would suffice. The total cost would be KES. 500.



2. Cross Links:

The cross links are a major part of the frame as they bare a majority of the loads. They connect the ribs and all other structures together.

As an efficient way of cutting on costs, Umbrella wires were suggested as they are made of light aluminum. They also have turning joints in them which will ease the work of getting the different angles in the vehicle body. 11 of these wires have already been collected and are available at no cost.

3. Longitudinal links:

To improve the refinement of the final shape, it is necessary to have other links running longitudinally over the vehicle. They would offer added structural support but their main job would be to define the airfoil shape across the vehicle.

Broomsticks, a light and cheap option were suggested. One broomstick would be enough at a cost of KES. 50

4. Wing Cover:

To conceal the insides of the vehicle and to offer a smooth finish, it is necessary to have a surface cover. Several materials have been suggested including:

- A plain carpet
- Tape
- Nylon.

The team is yet to decide on the exact material.