

b) I would not consider Foams, woods, Polymers or Elastomers as these materials do not have the required strength to be able to hold the car together or with stand the forces or load the car will experience.

c) Carbon Fiber for the chassis as its ~~is~~ stronger ~~as~~ ^{than} common steel but will be highly expensive compared to steel. But steel dose impact the environment more.

d) welding and Brazing affect the mechanical properties in the weld area. The two parent metals are blasted with high temperature causing the material to heat up and cool down. This makes the material more ductile as the crystals have reformed bigger in the Heat affected Zone (HAZ). It also causes stress in the weld joint make the fatigue strength decrease.

e) I would suggest using TIG (Tungsten Inert Gas) welding as it because if its done correctly, the seam will be cleaner stronger with better performance. Resistance spot welding as they are commonly reliable welding methods of performance.