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A Chassis for a race car is being designed. Below are some materials I would consider to construct the chassis.

Composites

Composites include Carbon fibre. Carbon fibre is used a lot in the automotive industry. This is due to its properties. Good resistance to creep, fatigue and corrosion. A hard wearing material and extremely light.

Metals.

I would consider metal for the chassis. Metal is cheap, easily available and comes with a range of properties. These include, strength and toughness, alloy formations, thermal and electricity conductivity.

Also metal is hard wearing and easy to repair. Ideal for a race car that will be seeing a lot of action during races.

metal is also extremely dense and will give good chassis stiffness if manufactured correctly.