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## Structure concept with the addition carbon fiber layers and filling forms for crashworthiness increase.

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The contribution describes bus construction with the addition carbon fibre layers and filling foams, used as local reinforcement of the structure. Here the composite materials and manufacturing technologies reduce the weight of the bus vehicle. This paper is more focused in the crash field (especially rollover Ro.66). The main work is connected with simple beam model, but the general results will be applied in bus construction.

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