

### T3.15 Side Impact Structure

T3.15.1 The side impact structure must consist of at least three steel tubes, see T3.2, on each side of the cockpit, see figure 8.

- The upper member must connect the main hoop and the front hoop. It must be at a height between 240 mm and 320 mm above the lowest inside chassis point between the front and main hoop.
- The lower member must connect the bottom of the main hoop and the bottom of the front hoop.
- The diagonal member must triangulate the upper and lower member between the roll hoops node-to-node.

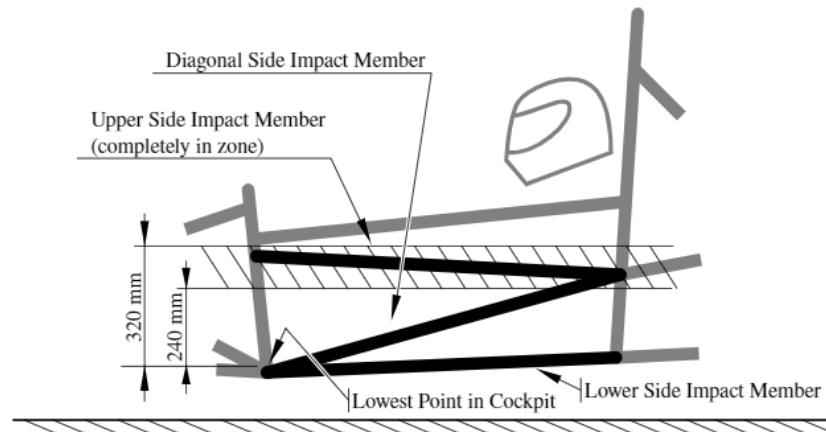


Figure 8: Side impact structure

T3.15.2 If the side impact structure is part of a composite structure, the following is required:

- The region that is longitudinally forward of the main hoop and aft of the front hoop and vertical from the bottom surface of the chassis to 320 mm above the lowest inside chassis point between the front and main hoop must have an EI equal to the three baseline steel tubes that it replaces, see figure 9.
- The vertical side impact structure must have an EI equivalent to two baseline steel tubes and half the horizontal floor must have an EI equivalent to one baseline steel tube.
- The vertical side impact structure must have an absorbed energy equivalent to two baseline steel tubes.
- The perimeter shear strength must be at least 7.5 kN.

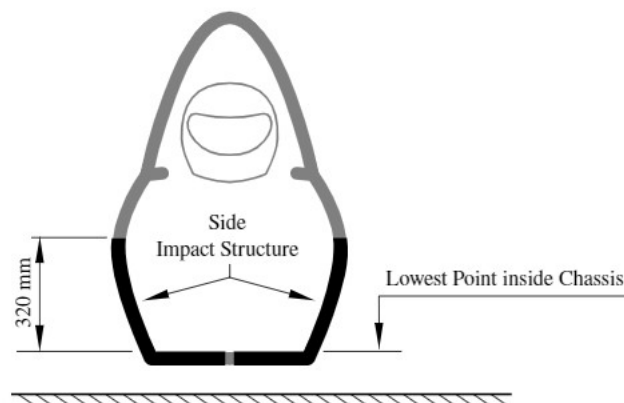


Figure 9: Side impact structure monocoque