

### **T7 AERODYNAMIC DEVICES**

#### **T7.1 Definition Aerodynamic Device**

T7.1.1 A specifically designed structure mounted on the vehicle to guide the airflow around the vehicle, increasing the downforce on vehicle and/or lowering its drag. The mounting of this structure is not regarded as an aerodynamic device, unless it is intentionally designed to be one.

#### **T7.2 Ground Effect Devices**

T7.2.1 Power ground effects are prohibited. No power device may be used to move or remove air from under the vehicle except fans designed exclusively for cooling.

#### **T7.3 Restrictions for Aerodynamic Devices**

T7.3.1 Height restrictions:

- All aerodynamic devices forward of a vertical plane through the rearmost portion of the front face of the driver head restraint support, excluding any padding, set to its most rearward position, must be lower than 500 mm from the ground.
- All aerodynamic devices in front of the front axle and extending further outboard than the most inboard point of the front wheel/tire must be lower than 250 mm from the ground.
- All aerodynamic devices rearward of a vertical plane through the rearmost portion of the front face of the driver head restraint support, excluding any padding, set to its most rearward position must be lower than 1.2 m from the ground.

T7.3.2 Width restrictions:

- All aerodynamic devices lower than 500 mm from the ground and further rearward than the front axle, must not be wider than a vertical plane touching the outboard face of the front and rear wheel/tire.
- All aerodynamic devices higher than 500 mm from the ground, must not extend outboard of the most inboard point of the rear wheel/tire.

T7.3.3 Length restrictions:

- All aerodynamic devices must not extent further rearward than 250 mm from the rearmost part of the rear tires.

T7.3.4 All restrictions must be fulfilled with the wheels pointing straight and with any suspension setup with or without driver seated in the vehicle.

#### **T7.4 Minimum Edge Radii of Aerodynamic Devices**

T7.4.1 All forward facing edges of aerodynamic devices that could contact a pedestrian must have a minimum radius of 5 mm for all horizontal edges and 3 mm for vertical edges.

## T7 Aerodynamic Devices

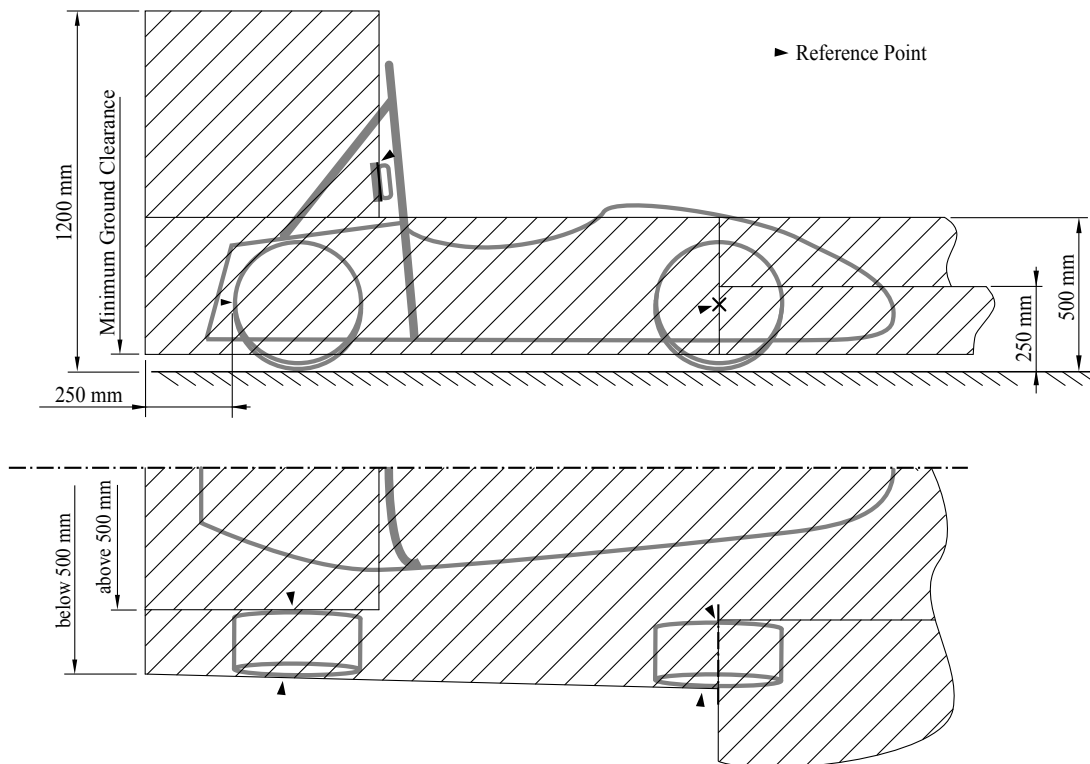


Figure 13: Maximum dimensions and positioning of aerodynamic devices. The positioning space is further restricted (see ??).

### T7.5 Aerodynamic Devices Stability and Strength

- T7.5.1 Any aerodynamic device must be able to withstand a force of 200 N distributed over a minimum surface of 225 cm<sup>2</sup> and not deflect more than 10 mm in the load carrying direction.
- T7.5.2 Any aerodynamic device must be able to withstand a force of 50 N applied in any direction at a point and not deflect more than 25 mm.