

Installation instruction for train antennas (indoor antennas)



**OmPlecs®-
TOP 200 AMR
Indoor**

**OmPlecs®-
TOP 90 RAIL
Indoor**

**DiPlecs®-
TOP 90 RAIL
Indoor**

1. Place for installation

Choose the place for installation that

- is stable enough for the mechanical installation of the antenna,
- is horizontally aligned (resp. vertically for DiPlecs antennas)
- permit to connect the high frequency cable to the antenna without any problems,
- is free from reflective parts/modules around the antenna.

Note:

If the antenna is to be installed below an additional cover (for example, trim / hood), it must not consist of carbon / carbon fiber material. Plastics and glass fiber materials are permitted. No metal may be incorporated in the materials, for example as a mesh braid.

To avoid frequency shifts, we recommend a minimum distance of 200mm from the antenna outer edge to the material of the cover.

Metallic support structures below the cover should also be observed with regard to the radiation behavior.

Attention!

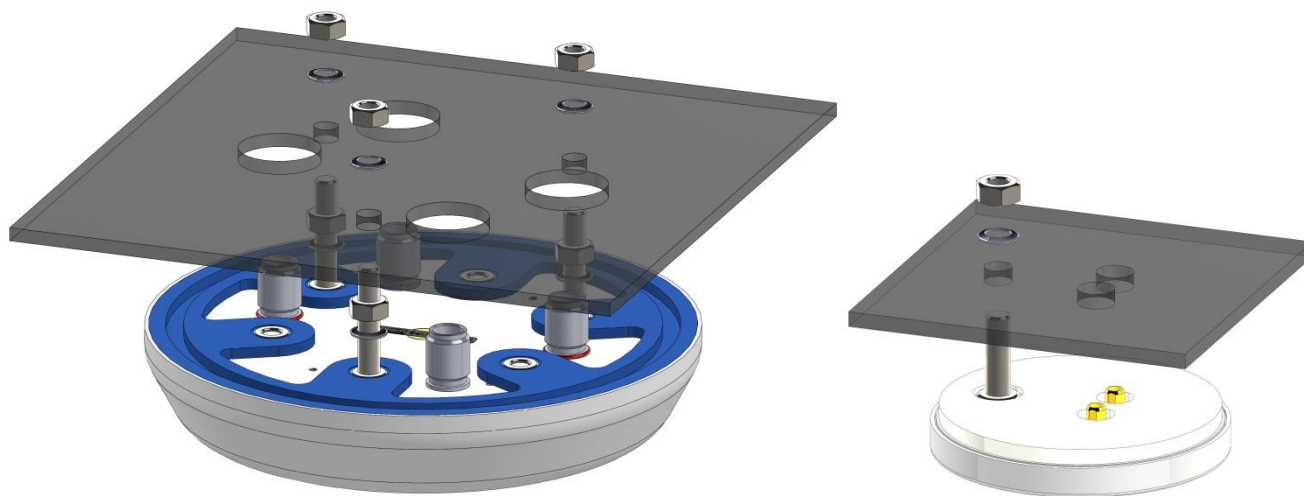
To avoid deterioration of the signal due to reflections from an open connection, we strongly recommend to lock the unused connections with a 50 Ω terminator.

2. Antenna installation

Use our drill template to mark the drill holes or order an optional mounting support at our service (drilling template with hardened drilling sleeves). It is recommended to pre-drill all holes using a small drill with the help of the drilling template and then expand with a step drill or similar tool in the second step. The size of the drill holes is included in the particular drill pattern.

The specified size of the holes (Ø30 for connectors type N(f) (TOP 200), Ø12 for connectors type SMA(f) (TOP 90), Ø9 for screw) should necessarily be neither undershot nor exceeded, otherwise there is a danger, that bolts cannot be carried out without damage or the antenna does not lie evenly by tightening the nuts.

The antenna must be installed into the roof without mechanical damage of the bolts. By a mechanical damage to the thread, the nut may seize on the bolt and while trying to resolve the nut or continue to lathe, tear it.



Basic representation of the installation of TOP 200 and TOP 90

Please note the particular manufacturer's notification for the proper handling with tools.

The antenna has to be mounted to the mounting bolts with detent-edged washer (SK-washer) and M8 nut.

The tightening torque for these screw connections is **12Nm** for antennas type TOP 200 and **8Nm** for antennas type TOP 90. This applies exclusively to assembly tools without impact.

Please do not use self-locking nuts.

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