

Rooftop installation of a TRIO310 on a STRAMA support with 7m overall height

This note provides a mechanical description of the non-penetrating STRAMA support used to install a trisector TRIO® antenna type 5231703 on a flat rooftop with an overall height of 7 meters.

The antenna comes in cylindrical shape with an outside diameter of 310mm and a length of 2464mm.

The supporting mast has also a cylindrical shape with same 310mm diameter.

Picture below is a general view of the antenna installed on its STRAMA® support.



Support description:

The support is a cross type assembly of standard parts, all made from galvanized steel. The mast is at the centre of the cross. Four UPN 140 are connected to the centre and are terminated by ballast housing parts pictured below.

Ballast is added to compensate the torque due to the wind load.

The ballast is made of additional concrete bloc of standard size (20cm x 50cm x 10cm) weighting 20kg each.

Once installed in the ballast housings, all concrete blocs have to be secured together by the usual metal strip wrapping method.

For this installation there will be 4 concrete blocs in each ballast housing.

