

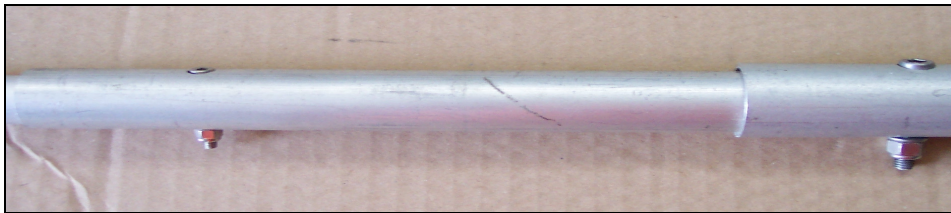
PRO.SIS.TEL.

Produzione Sistemi Telecomunicazioni

PST2-12170S

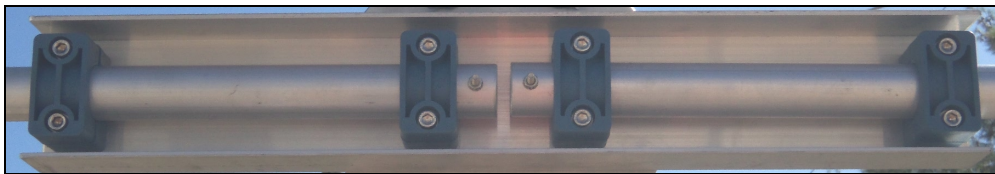
Taking out the elements from the packaging, you will find the elements tubes already pre-assembled, in a telescopic sequence. By tilting the package, make sure that all the heads of each diameter protrude from the main tube.

Place the element on a plane, and begin to slide out the smaller diameter, Match the hole in the inner tube to the outer tube. The fastening of the elements is done by inserting the bolt on the side of the larger hole so that the cylindrical bolt head is well recessed and rests on the inner tube fig.2.



Tighten the nut tightly. Make sure that all bolts heads are on the same side. With the same technique, extract and splice all sections.

When the two dipole half elements are ready, prepare the central U plate and assemble all the parts as shown in the photo.

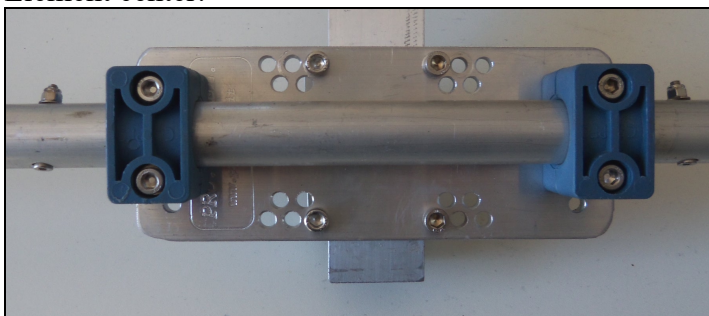


Being the radiator a dipole, it is strongly recommended to use a balun 1:1. If you don't use the balun, prepare the coaxial cable end, and after opening it as V, connects the ends, directly to the two input bolts. Make sure to seal the coax and the the V pigtails. Keep the connecting wires to the cable or balun less than 8cm long.

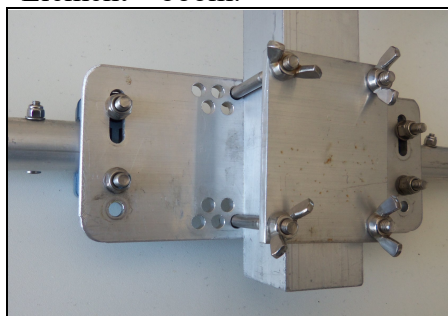
After assembling the radiator element, continue the assembly of the other elements with the help of the photos and the assembly diagram that follows:

The 12m radiator works in open slave way.

Element center:

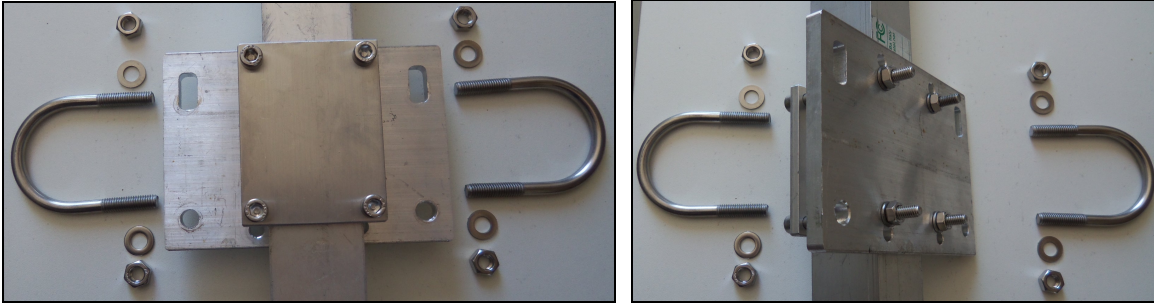


Element – boom:



Both could use square U bolts or flat counterplate, depends of the stock availability

Boom – Mast:



Could use square U bolts or flat counterplate, depends of the stock availability

When assembled, the antenna must look similar to the one in the picture below with the elements positioned on the lower boom side.



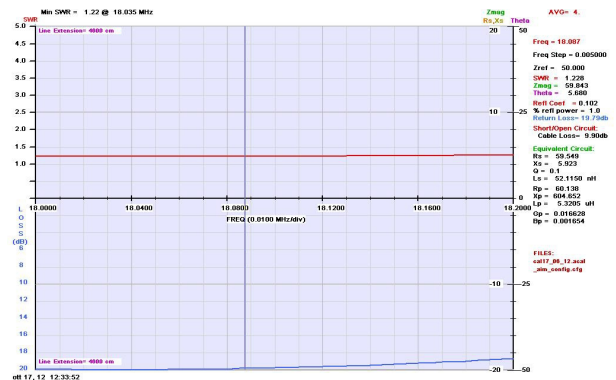
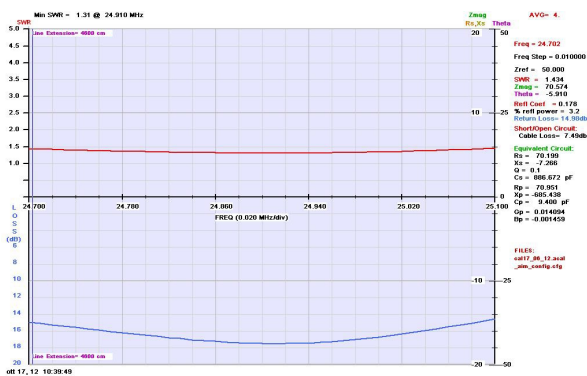
After completing the setup operations, check the tightening of all nuts.

If it is installed above another yagi antenna, HF, it is preferable to be at a vertical distance of at least 1.5m. Any tuning can be made by lengthening or shortening the 17m radiator and the 12m radiator, varying the spacing between the two radiators, can vary the impedance of 12m.

Stretch to go down frequency, shorten to rise frequency.

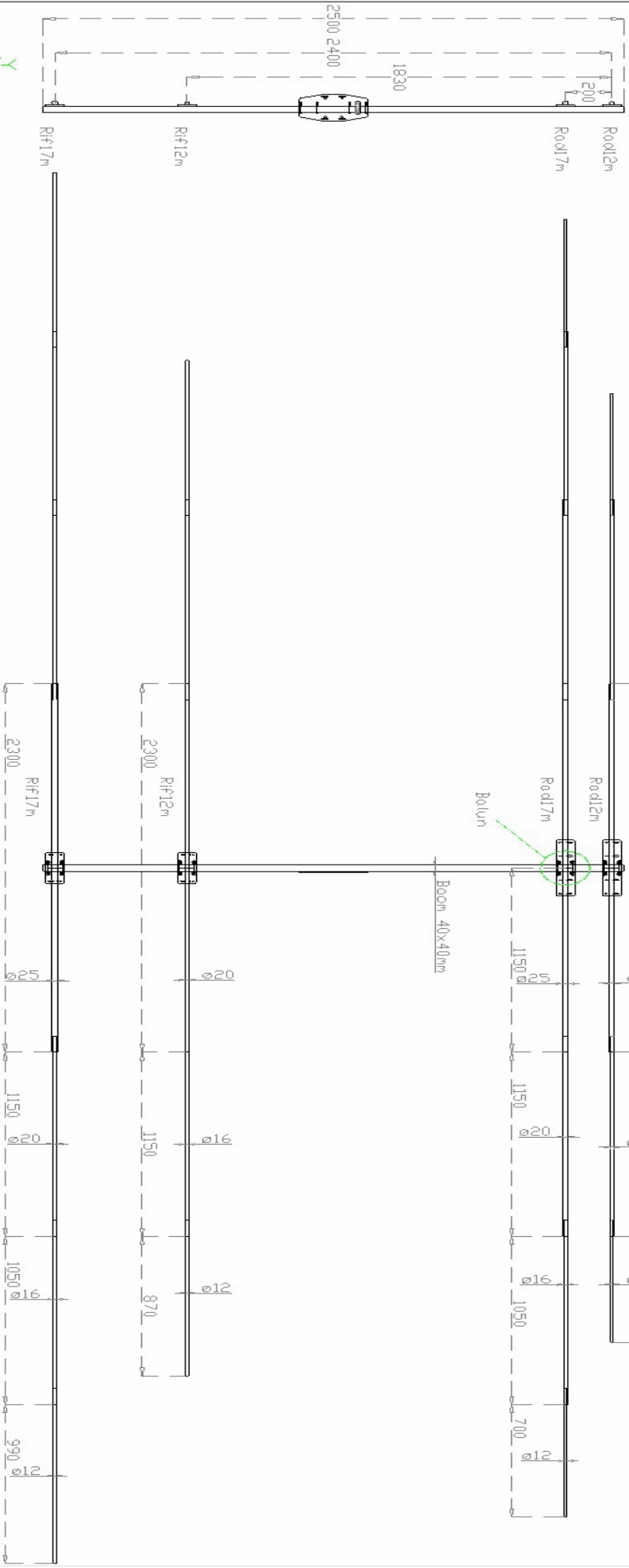
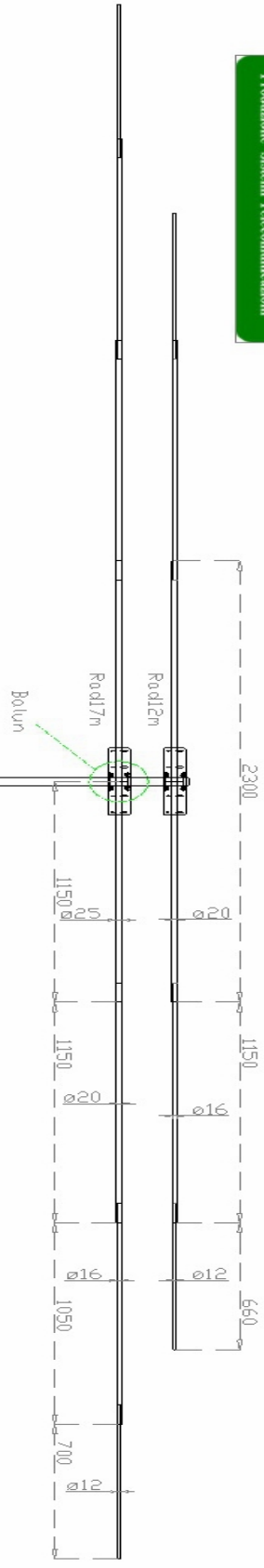
If necessary, you can change the impedance by varying the distance between the 12m radiator and the 17m radiator, up to about 270mm.

SWR diagram if intalled in the best conditions.



The diagrams were made at 7m from the ground, in urban environment with 1:1 balun and 33m of coaxial cable.

Front



Back

Performance:

Antenna cover the entire 17-12m range and the 6m band from 50 to 50,500 with good performance (6m band operation is a secondary resonance, not included in the original design).

Performance may vary depending on the local environmental conditions in which the antenna is installed. However, it is advisable not to install it at a height less than 5-6m from the roof-floor.

The images and drawing are indicative and may not represent exactly the single component
The measurements of the individual pieces can also be slightly different from the design, but the specifications and final operation remain unchanged.

Specifications:

Bands = 17m – 12m - 6m (50-50.500Mhz, if balun has enough bandwidth)

Impedence = ~50 ohm (if well installed and calibrated)

Max power: 2KW ssb, 1,2Kw cw-rtty

Suggested balun 50 ohm 1:1

SWR = within 1:1,5

Boom length = up ~2,6m

Rotating radius = up ~ 6,30m

Weight = ~10 kg

Alluminum 6060 T6 stailless steel bolts.

For improvement and technical - productive needs, specifications and construction details can undergo variations, without modifying the final purpose of the product.



Do not install the antenna near power lines or equipment that could result in electrical contacts. You could be seriously injured or killed.

The antenna must be installed in accordance with / local / national laws.

If necessary get a professional installer.

Prosistel can not be sued for damages due to non-compliance with safety rules.



Dear buyer,

thank you for purchasing a Pro.Sis.Tel antenna ..

Making it we have used the best materials available on the market, worked and finished with the best care possible allowed by the state of art.

Use it within the rating for which it was built and will serve you faithfully for many years.

In case of doubts or concerns, our technical department is always ready to provide all the necessary help.

If you are satisfied tell the others, otherwise tell to us.

Your opinion and your suggestions will help us to improve even more our products.

Best regards

Annamaria Fiume IK7MWR

MADE IN ITALY

WARNING! Defend the environment

Disposing components and materials

The antenna consists mainly of aluminum, in the event of disposal, confer the scrap to a specialized disposal center, in compliance with the requirements of local law.

