

# BOOMERANG series CB & 10m

## DESCRIPTION

1/4 Wave Ground plane Boomerang antennas working on 27MHz and 10m HAM band. Particularly suitable for balcony installation where reduced dimensions are required. They are made of high quality materials and supplied with a very strong die-cast zamac mount. Available in 2 versions: **Boomerang 27A** whose main whip is completely made of anti-corodal aluminium tubes and **Boomerang 27W** whose whip is made of tapered glass fibre rod with inside helical winding to reduce the length and guaranteeing a good performance. Both models have a loaded glass fibre radial.

## TECHNICAL DATA

### Electrical Data

Type: : 1/4  $\lambda$  Ground Plane Boomerang  
Frequency range : 27-28.5 MHz  
Impedance : 50  $\Omega$   
Radiation (H-plane) : 360° omnidirectional  
Polarization : Vertical  
Gain : 0 dBd, 2.15 dBi

Bandwidth at S.W.R. 2:1

BOOMERANG 27 A : 920 KHz

BOOMERANG 27 W : 700 KHz

S.W.R. at res. freq. :  $\leq 1.2:1$

Max Power

BOOMERANG 27 A : 200 Watts (CW) continuous  
600 Watts (CW) short time

BOOMERANG 27 W : 150 Watts (CW) continuous  
450 Watts (CW) short time

Feed system / position: Direct / Centre

Connector : UHF-female

### Mechanical Data

Materials

BOOMERANG 27 A : Aluminium, Glass fibre, Steel, Copper, Nylon

BOOMERANG 27 W : Glass fibre, Steel, Copper, Nylon

Wind resistance : 140 Km/h

Radiator / Radial Length

BOOMERANG 27 A : 2750 mm / 1130 mm

BOOMERANG 27 W : 1720 mm / 1130 mm

Weight (approx.)

BOOMERANG 27 A : 880 gr

BOOMERANG 27 W : 800 gr

Mounting : With Bracket supplied

### ISTRUZIONI DI TARATURA

1. Montare l'antenna:

Boomerang 27A: stilo L=2750 mm, radiale a 150° circa

Boomerang 27W: radiale a 115° circa.

2. Verificare la taratura dell'antenna utilizzando un ROSmetro. Se non tarata per il canale di utilizzo tagliare il radiale 5 mm alla volta fino a centratura avvenuta.

3. Per la regolazione fine dell'SWR modificare l'angolo di inclinazione del radiale fino a ottenere il miglior adattamento. Eventualmente modificare la lunghezza dello stilo verticale e ripetere la procedura dal punto 2.

### TUNING INSTRUCTION

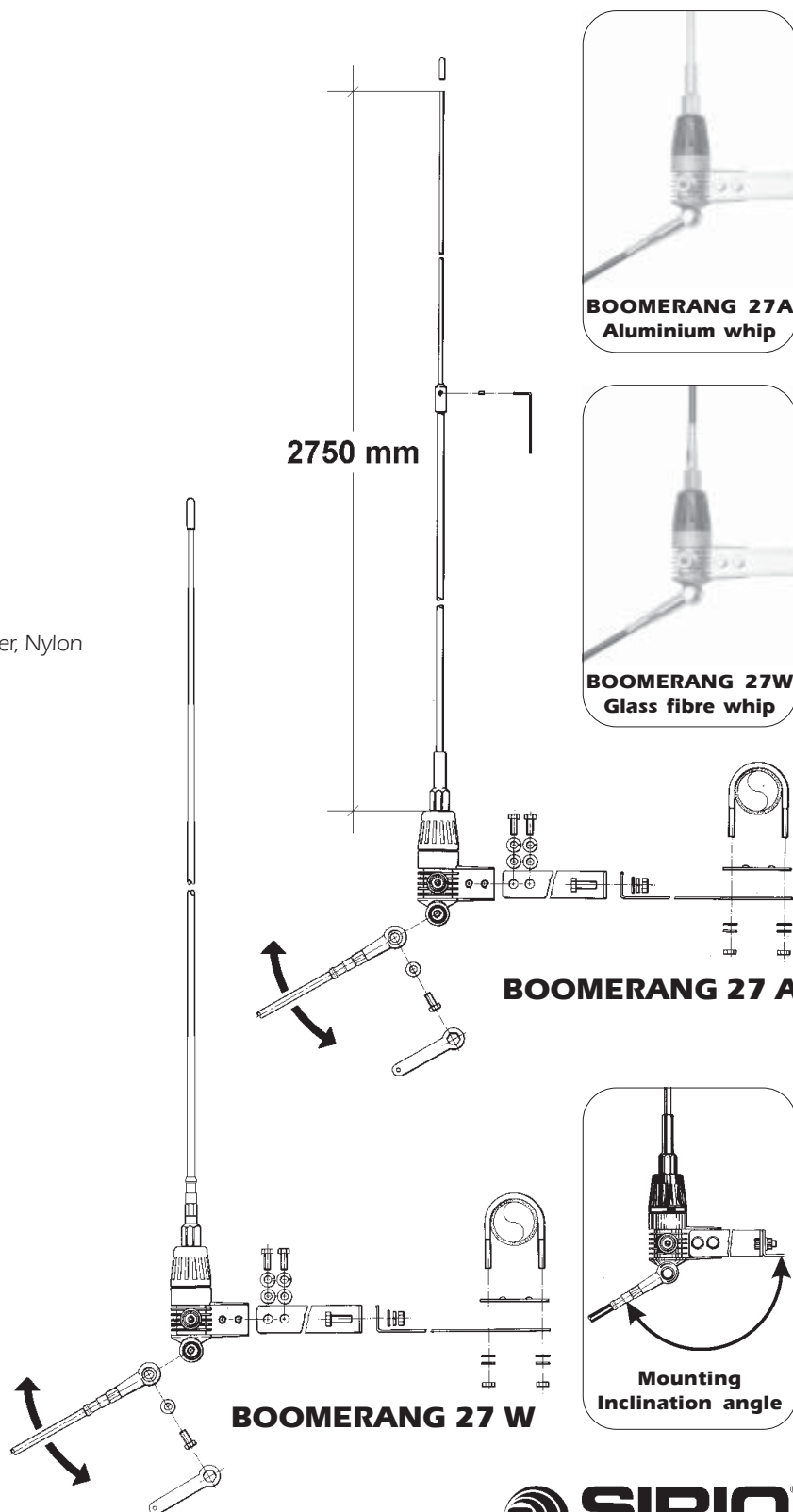
1. Install your antenna by following the standard instruction:

Boomerang 27A: Whip L=2750mm, Radial at approx 150°

Boomerang 27W: Radial at approx 115°

2. Check the antenna tuning by using a SWR-meter. If it's not tuned on the right channel, you can slightly cut the radial (not more than 5mm per cut) until you get the center band tuning.

3. For the fine tuning of the SWR you can act on the base radial by modifying the inclination angle up to get the best resonance. If it's not enough you have to act on the main whip following the procedure of point 2.



BOOMERANG 27A  
Aluminium whip

BOOMERANG 27W  
Glass fibre whip

BOOMERANG 27 A

BOOMERANG 27 W

Mounting  
Inclination angle

**SIRIO**  
antenne

HI-QUALITY ANTENNAS MADE IN ITALY