

Binary Array Installation Guide

“Single section Dipole array”

Applies to the following RFI model antennas.

BA Series (Omnidirectional) BA40-41, BA40-57, BA4040-57, BA40-67, BA4040-67, BA41-41, BA41-67, BA43-67, BA4343-67, BA80-57, BA80-67, BA81-67, BA83-67.

EA Series (Elliptical) EA40-41, EA40-67, EA4040-67, EA41-41, EA41-67, EA4141-67, EA80-57, EA80-67, EA81-67.

OA Series (Offset) OA20-41, OA20-57, OA20-67, OA2020-57, OA2020-67, OA21-41, OA21-67, OA2121-67. OA23-41, OA23-67, OA40-57, OA40-67, OA41-57, OA41-67.

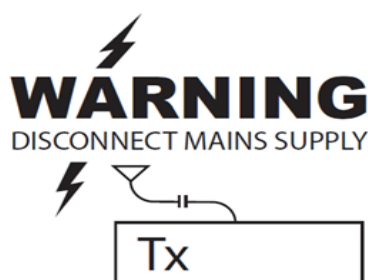
Ensure, SAFETY AT ALL TIMES



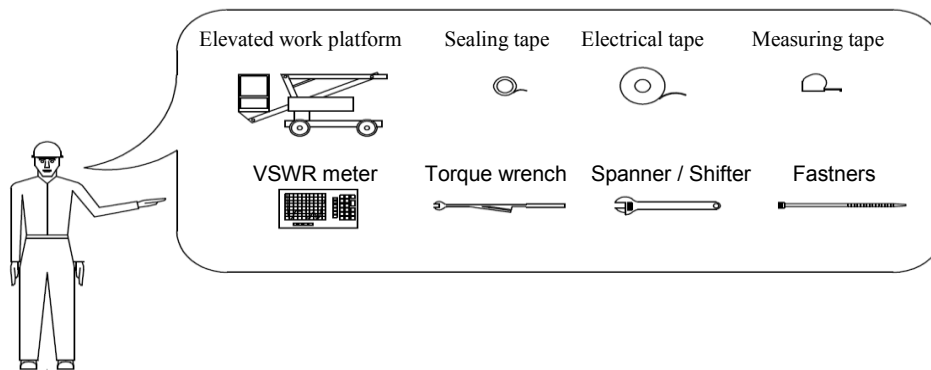
DO NOT INSTALL NEAR POWER LINES, TELEPHONE LINES AND GUY WIRES. THEY ALL LOOK THE SAME SO ASSUME ANY WIRE OR LINE CAN ELECTROCUTE YOU.



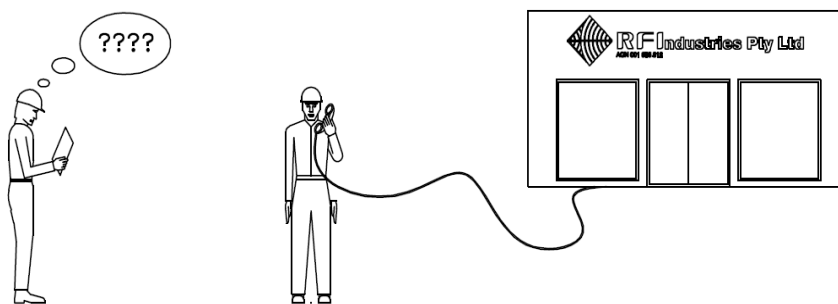
Disconnect all power to transmitters related to the installation.



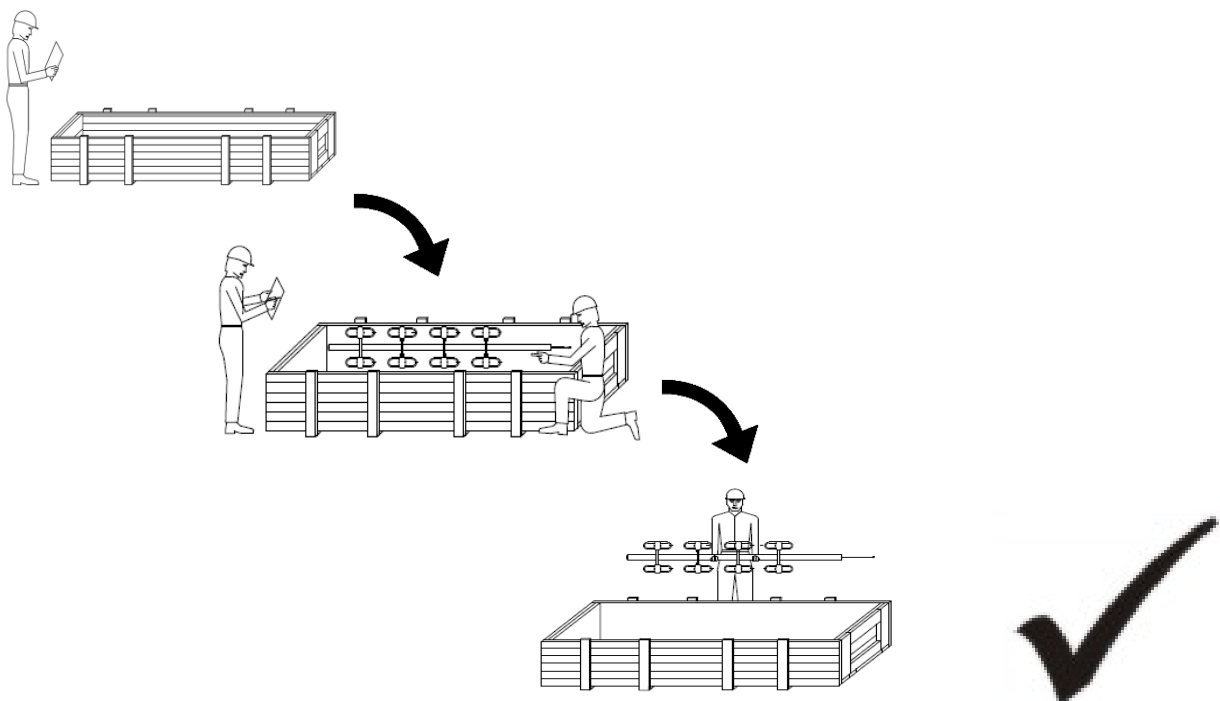
Tools and Equipment that may be required.



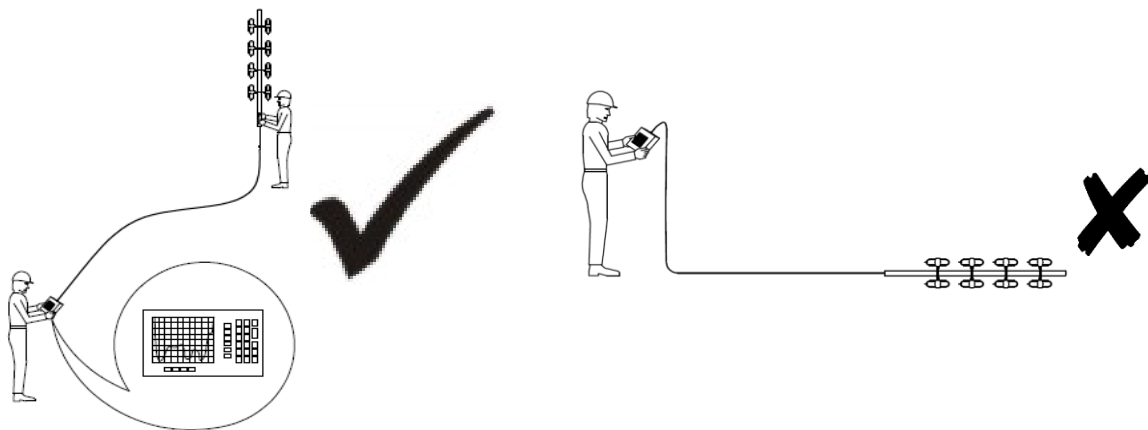
At any stage if UNSURE contact RFI www.rfi.com.au



1. Inspect antenna for damage then remove from crate.



2. VSWR Test antenna **Prior** to installation



3. **Mount** antenna **Vertically**, ensure cable tail **Exits** the **Bottom** of the boom.

Side Mounting



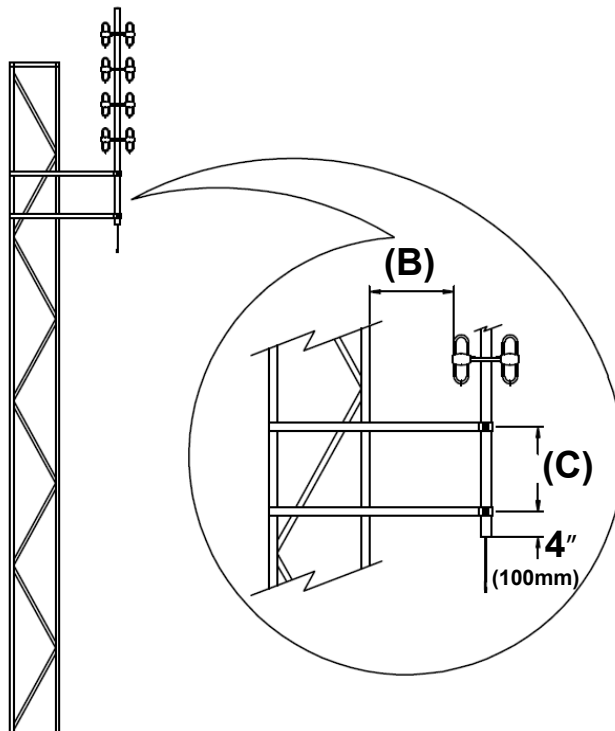
Top Mounting



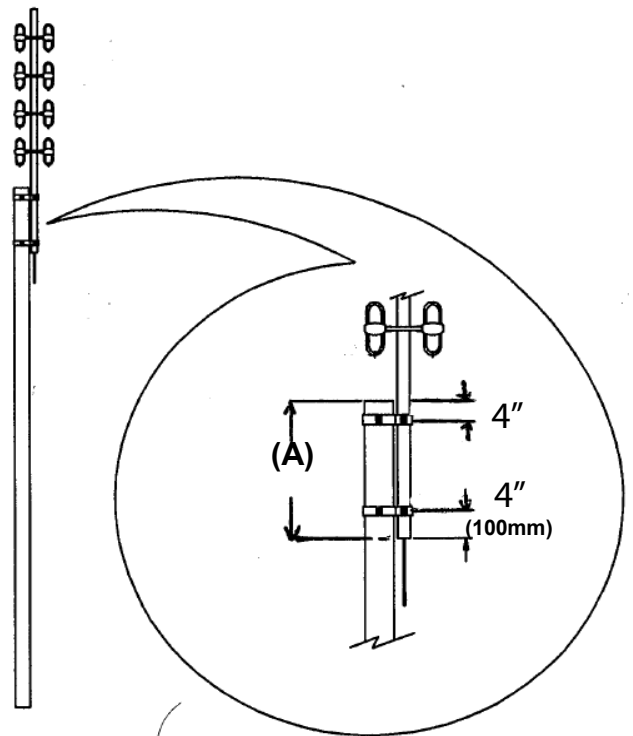
4. **SPACING.** Antenna to **Structure** and **Clamping** dimensions (refer to below table)

Minimum Antenna to Structure Spacing & Clamping dimensions BA, EA & OA Series							
Band	Frequency MHz	Minimum Antenna to Structure spacing (B)		Clamping dimensions (C)		Dimension (A)	
		Inches	mm	Inches	mm	Inches	mm
VHF	130	91	2311	22	559	30	762
	145	81	2057				
	160	74	1880				
	175	67	1702				
UHF	400	30	762	12	305	20	508
	415	28	712				
	430	27	686				
	445	27	686				
	460	26	660				
	475	25	635				
	490	24	609				
	505	23	584				
	520	23	584				

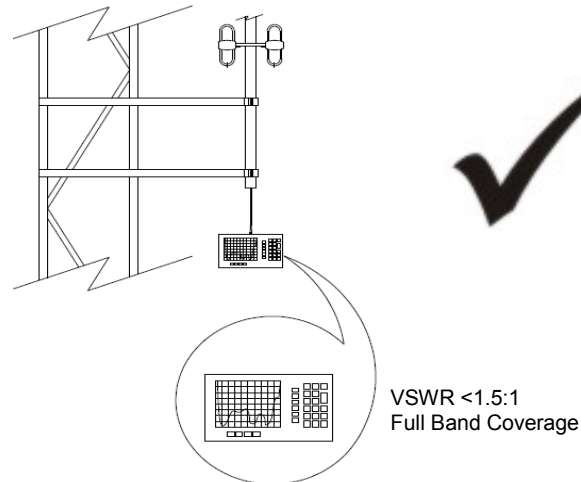
Side Mounting



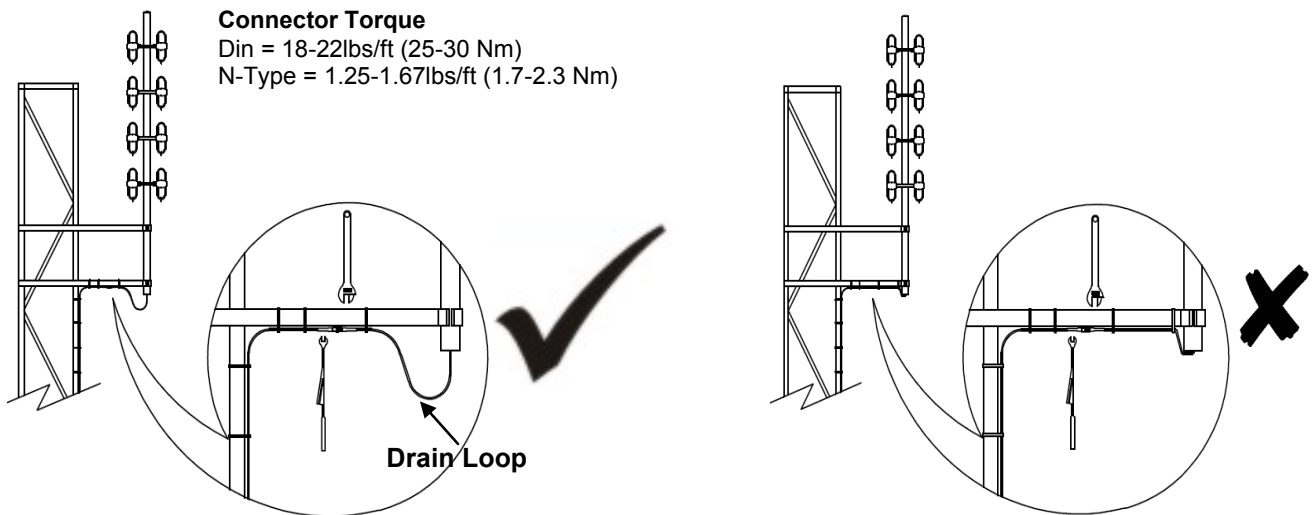
Top Mounting



5. VSWR test the antenna with applied **Spacing**.



6. **Torque** connector(s) and **Weatherproof**. **Drain loop** **Must** be applied.



7. Take installation **Photo's** and store **VSWR** results in a secure location.

