

World's Leading Manufacturer Of Fibreglass Whip Antennas



SPECIALISTS FOR MEDIUM FREQUENCY

75 Ft Coil-Loaded Whip Antenna V33070-CL2

THE VALCOM MODEL V33070-CL2 IS A HEAVY DUTY, FIELD PROVEN HIGH RELIABILITY, COIL-LOADED 75 FOOT WHIP ANTENNA FOR MARITIME AND AVIATION APPLICATIONS. THE SECOND SECTION IS INDUCTIVELY LOADED TO THE RESONANT FREQUENCY AS SPECIFIED BY THE CUSTOMER. ORIGINALLY DESIGNED TO THE STRINGENT REQUIREMENTS OF THE CANADIAN DEPT OF TRANSPORTATION FOR FIXED NON-DIRECTIONAL RADIO BEACON SERVICE. IT IS NOW EMPLOYED AROUND THE WORLD IN MANY APPLICATIONS. NOTABLE AMONG THESE ARE HIGH-EFFICIENCY COAST STATION REQUIREMENTS IN THE 100 KHz TO 1500 KHz BANDS FOR MARINE AND AERONAUTICAL RADIO BEACON AND COMMUNICATIONS SYSTEMS.

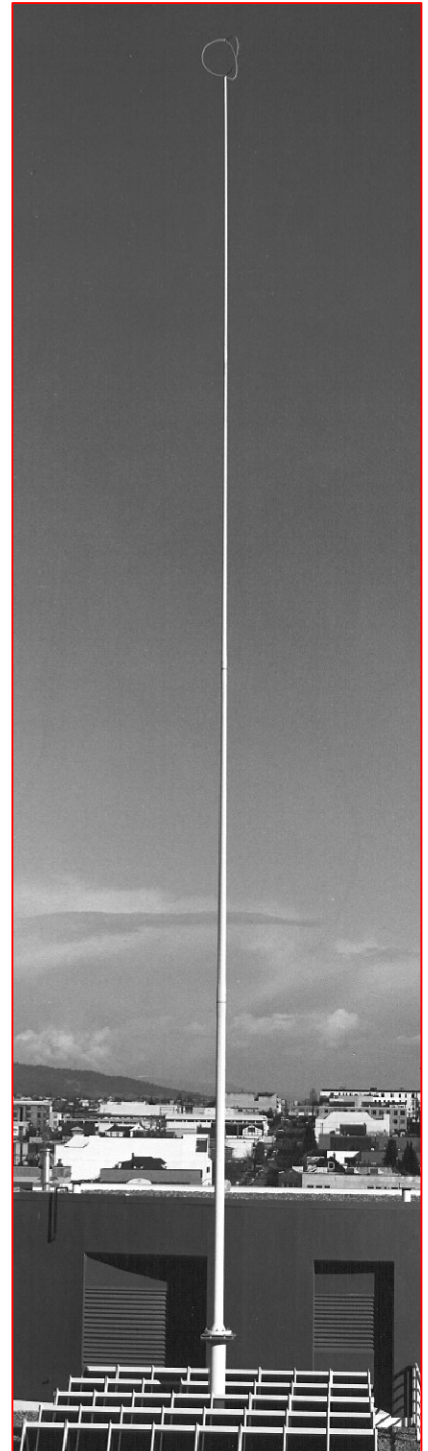
THE PEDESTAL BASE ENABLES THE ANTENNA TO BE MOUNTED TO ITS FOUNDATION. THE BASE IS MADE WITH A CONTINUATION OF THE SAME HIGH STRENGTH FILAMENT FIBREGLASS USED IN THE ANTENNA. THE RESULT IS AN INTEGRAL BASE INSULATOR WITH EXCEPTIONAL ELECTRICAL PROPERTIES. POWER HANDLING CAPABILITIES ARE IMPROVED WHILE ELIMINATING THE HEAVY CONVENTIONAL BRASS AND PORCELAIN INSULATOR. THE SHAPE TRANSMITS THE BENDING MOMENT EVENLY TO THE BASE MOUNTING BOLTS.

THE V33070-CL2 IS AVAILABLE IN TWO STANDARD CONFIGURATIONS TO MEET VARIOUS SYSTEM AND INSTALLATION REQUIREMENTS. THE STANDARD MODEL IS PROVIDED WITH AN ABOVE-THE-BASE FEED POINT AND THE OPTIONAL CONFIGURATION IS WITH A BASE FEED-THROUGH INSULATOR. THE INSULATOR IS THE SAME AS THAT EMPLOYED ON VALCOM'S NATO ANTENNAS. THE AVERAGE POWER RATING OF THIS ANTENNA IS 2 KW BELOW 1.5 MHz AND 5 KW ABOVE 1.5 MHz.

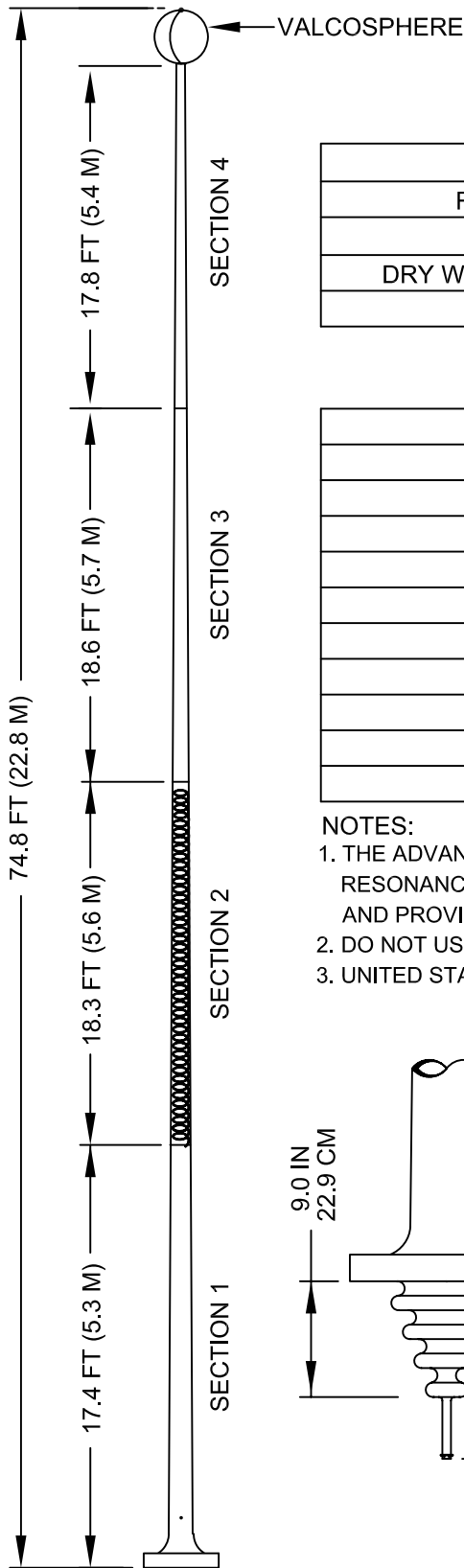
THE HEAVY DUTY STEEL GALVANIZED STEEL BASE PLATE (VHB-17) IS RECOMMENDED FOR ABOVE-THE-BASE FEED CONFIGURATIONS TO SIMPLIFY AND SPEED ANTENNA INSTALLATION AND INSPECTION. ALSO AVAILABLE IS A HEAVY DUTY GALVANIZED STEEL TOWER (VTGS-20) FOR RAISING THE ANTENNA ABOVE OBSTRUCTIONS. THE VALCOSPHERE IS A VALCOM DESIGNED "CAPACITY HAT" WHICH ADDS CAPACITY THUS GIVING THE ANTENNA A 2 KW POWER HANDLING CAPABILITY.

FEATURES:

- COIL LOADED
- HIGH EFFICIENCY
- LOW COST INSTALLATION AND MAINTENANCE
- SELF-SUPPORTING
- HIGH STRENGTH FILAMENT WOUND FIBREGLASS BASE



QUICK REFERENCE DATA V33070-CL2 SERIES



V33070-CL2	V33070-FT-CL2
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ELECTRICAL CHARACTERISTICS

FREQUENCY RANGE	100 KHz to 30 MHz-WITH TUNER
RESONANT FREQUENCY	100 KHz TO 2 MHz-SPECIFIED BY CUSTOMER
POWER RATING	2 KW BELOW 1.5 MHz, 5 KW ABOVE 1.5 MHz
DRY WITHSTANDING VOLTAGE	30 KV
ELECTRICAL LENGTH	VARIES WITH LOADING SECTION

MECHANICAL CHARACTERISTICS

MECHANICAL LENGTH	74.8 FT (22.8 M)	76.0 FT (23.2 M)
BASE INSULATOR	EPOXY/FIBREGLASS	
TOP TERMINATION	VALCOSPHERE	
JOINTS	BRONZE FERRULE C/W LOCKING PIN	
ICE LOADING TEST	TO 150 MPH (240 Km/Hr)	
WIND LOADING TEST	.75 INCH (1.87 CM) AT 100 MPH (160 Km/Hr)	
ABRASION RESISTANCE	GOOD	
CENTRE OF GRAVITY	25 FT (7.6 M)	24 FT (7.3 M)
TEMPERATURE	-60°F TO 150°F (-50°C TO 65°C)	
FINISH	EPOXY POLYAMIDE PAINT	
WEIGHT	350 LBS (158 KG)	360 LBS (162 KG)

NOTES:

1. THE ADVANTAGE OF THE CENTRE LOADING COIL IN SECTION TWO IS TO PROVIDE REDUCED RESONANCE OVER A STRAIGHT VERTICAL WHIP, THEREFORE REDUCING BASE FEED VOLTAGE AND PROVIDING A GREATER POWER HANDLING CAPABILITY.
2. DO NOT USE LEAD BASE PAINT TO TOUCH-UP OR REPAINT ANTENNA.
3. UNITED STATES PATENT NUMBERS 3,725,944 AND 4,500,888 APPLY.

