



**REFERENCE SHEET AND ASSEMBLY INFORMATION**  
**#45 BRACKETED TOWERS, NON-GUYED**  
**(See Rohn Catalog for Guyed Tower Information)**

**INSTALLATION:** Select a tower location sufficiently clear and out of falling distance of power lines since every electrical and telephone wire should be considered dangerous. The only safe distance from power lines is at least twice the height of tower, mast and antenna combined. Tower should be installed and dismantled by experienced and trained personnel. All antenna installations must be grounded per local or national codes.

**BASE:** See Drawing No. A880445 for the size of the hole for concrete placement. (Note: For cases of loose soil, etc., the hole must be larger.) Spread about 2" to 6" of gravel in bottom of hole prior to setting short base or tower section. After setting short base or tower section on gravel, fill another 3" with gravel around the tower legs. This allows the tower legs to extend the required amount below the bottom of the concrete, thus allowing for drainage of moisture into the gravel. The first 10' section should be leveled, plumbed, and temporarily guyed or braced while pouring the concrete. This will insure a plumb tower after installation. Check tower to assure it is plumb and level after pouring concrete. Do not pull tower up into the concrete to level it and do not drive it hard into ground as this plugs leg holes and prevents moisture drainage. Crown the top of the concrete slightly to prevent water accumulation. Do not use drive rods as a base for tower when set in concrete.

**HEIGHT OF TOWER & BRACKET USES:** See Drawing No. A880496 for specific information on tower heights and placement of house brackets on #45 bracketed towers. (Note: Tighten the house bracket U-bolts only enough to prevent looseness. Do not dent or flatten the tower upright members by excessively tightening U-bolts.)

**BOLTS:** Installers are urged to use a 10" lining-up punch that tapers about 1/2" to 5/32" diameter over a 6-1/2" length. If bolts cannot be pushed through the holes with the heel of the hand while rocking the tower, do not hammer them through. Carefully drive the punch into the hole just enough to slightly enlarge it. The leg bolt hole should be just large enough to admit the bolt. Never drill out the holes. Be sure to tighten all leg bolts until they partially flatten the sleeves, causing the sleeves to actually grip the legs inside. Always replace stripped bolts. Upon completing an installation, there should be no vertical movement between tower sections at the joints when the tower is deliberately swayed from side to side.

**MISCELLANEOUS:** Installation is greatly hastened and simplified by the use of an erection fixture. Do not use it to lift more than the weight of one tower section or any part of a section at one time. Erection fixtures are not intended to be used for lifting individuals. Anti-climb sections are recommended on all towers to prevent unauthorized persons from climbing tower.

**CAUTION . . .** Be sure hinge bolts on hinged type accessories are loosened before attempting to hinge tower up or down. Hinge no more than 40' of #45 tower only. All hinged type bases are recommended to be used to raise tower only without antenna. When raising and lowering tower on any type of hinge base or hinge section, the loads applied for hinging the tower must be applied equally on both sides of tower in order to reduce the possibility of twist on tower and hinges at the base. Special care must be taken to avoid the use of raising and lowering methods which may cause damage to tower or hinges. Hinged bases should only be installed and dismantled by professional and experienced installers.

See Drawing No. A871266 for more information on non-guyed towers.

Our catalog information excludes roof installations. Local engineers must be consulted to determine adequate base and anchor details and windload criteria for all roof type installations.

**Note:** All types of antenna installations should be thoroughly inspected by qualified personnel at least twice a year and remarked with hazard and warning labels to insure safety and proper performance. A safety package (part number ACWS) is available which includes one anti-climb warning sign and two Danger - Watch for Wires labels along with other printed safety information.

Dismantling of any tower should be done by professional and experienced installers a section at a time with the use of an erection fixture. Temporary steel guys may be necessary at the 10' level.

<u>Part Number</u>	
45BRKT040	40' Complete Bracketed Tower
45BRKT050	50' Complete Bracketed Tower
45BRKT060	60' Complete Bracketed Tower
45BRKT070	70' Complete Bracketed Tower
45BRKT080	80' Complete Bracketed Tower
45BRKT090	90' Complete Bracketed Tower
45BRKT100	100' Complete Bracketed Tower

Refer to alphabetical/numerical price list for Prices on Complete #45 Bracketed Towers.