

# **ZOMEWORKS UNIVERSAL TRACK RACK™ POLE INSTALLATION**

**IMPORTANT NOTE: ZOMEWORKS CORP. ASSUMES NO LIABILITY FOR THE STRUCTURAL INTEGRITY OF THE POLE AND ITS INSTALLATION. SOIL AND WIND CONDITIONS VARY. IF THERE IS ANY DOUBT, CONSULT WITH A LOCAL STRUCTURAL ENGINEER.**

## **LOCATION CONSIDERATIONS:**

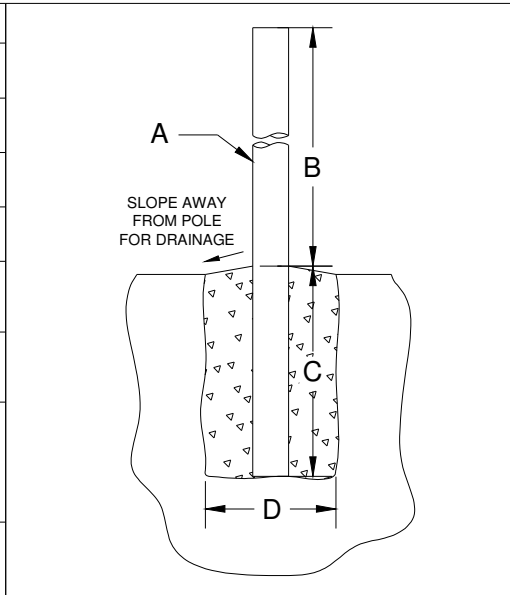
For installations in sandy or muddy areas, for tall mounting poles, or for any mounting different from the situations described in these instructions, you will need to consult a local structural engineer. Large TRACK RACKS™ can receive significant wind loads, so a strong mounting pole and foundation is very important also be aware of turbulence near buildings or sudden changes in terrain. The site should receive the maximum possible sunlight from AM to PM, in the winter and summer. Avoid shade from buildings and trees, including shade that may occur in other seasons. The height of the pole should result in adequate ground clearance for the mounted modules.

## **CAUTION – BE CAREFUL WORKING AROUND THE RACK AFTER INSTALLATION ON THE POLE. SOME OF THE STRUCTURAL MEMBERS MAY BE AT HEAD LEVEL.**

- Customer provided poles are recommended to be a 2-1/2” (nominal) schedule 40 steel pipe with a 2-7/8” OD (UTR-020 only). 3” (nominal) schedule 40 steel pipe with a 3-1/2” OD (UTRK-040 only). 6” (nominal) schedule 40 steel pipe with a 6-5/8” OD (UTRF-64, UTRF-90 & UTRF-120) or a 8” (nominal) schedule 40 steel pipe with a 8-5/8” OD (UTRF-168 only).
- **Note:** Heavier schedule steel pipe schedule 80, schedule 160 can be used as long as the OD is the same as the recommended schedule 40 pipe”.
- Pole can be black or galvanized steel pipe
- Using the chart below, find the **MINIMUM** acceptable pole height above your finished grade. It is strongly recommended that the pole height be to our minimum specifications.
- The minimum recommended hole depth is 1/3 the pole length, 1/3 in the ground, 2/3 above the ground. **Example:** 5’ below grade, 10’ above grade, total of a 15’ pole.
- Center the pipe in the hole, and using a level, make sure pole is vertical.
- Fill the hole with concrete (3000-psi minimum strength), and check level of the pole.
- The pole may be filled with concrete for added strength (only to approximate ground level).
- Allow concrete and pole to set for a **MINIMUM** of 36 hours **BEFORE** installing the Track Rack™.

## MOUNTING POLE RECOMMENDATIONS:

MOUNTING POLE RECOMMENDATIONS						
Model	UTR-020	UTRK-040	UTRF-072	UTRF-090	UTRF-120	UTRF-168
Sch 40 Steel Pipe (A)	2 ½" (3" OD)	3" (3 ½" OD)	6" (6 ⅝" OD)	6" (6 ⅝" OD)	6" (6 ⅝" OD)	8" (8 ⅝" OD)
Minimum Pole Height (B)	76"	84"	96"	108"	120"	144"
Minimum Pole Depth (C)	38"	42"	48"	54"	60"	72"
Ground Clearance at 45° Tilt	36"	23"	28"	21"	24"	26"
Minimum Hole Diameter (D)	18"Ø	18"Ø	24"Ø	24"Ø	24"Ø	30"Ø
Maximum Rack Dimensions (as viewed from above)	67" E-W 44" N-S	124" E-W 48" N-S	124" E-W 110" N-S	146" E-W 140" N-S	146" E-W 160" N-S	172" E-W 206" N-S
Capacity (Module Area)	20 ft²	40 ft²	72 ft²	90 ft²	120 ft²	168 ft²



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