

# Direct-Bury Tower (9.8"OD)



## Product Summary:

EasyStreet Systems provides a game-changing solution to 5G/small cell infrastructure demands—at a fraction of current construction methods.

Imagine a tower that can be easily installed into a 12" dia. bored-hole, secured with a 2-part foam mixture, set with a light-duty boom-truck, and blend with the surrounding aesthetic. Our product is light-weight, customizable and impacts the environment much less than traditional solutions. A 20' EasyStreet direct-bury 9.8" Outer Diameter (OD) tower weighs ~200 lbs. as opposed to ~2,000 lbs for a steel tower, cutting installation costs significantly. The tower, foam-kit, and cover-plates for access-ports are all provided in an all-inclusive and easy to use kit.

## Specifications

<b>Applications:</b>	4G/5G Small-Cell as well as Internet of Things (IoT) sites
<b>Height Ranges:</b>	20'-32' typical (above grade; ~8' embedment) but can be lower
<b>Weight (Lbs.):</b>	20'H (~28' total): 200; 25'H (~33' total): 235; 30'H (~38' total): 270
<b>Outer Diameter:</b>	9.8" Standard OD (9.25" ID), ~12.4" with decorative wrap (fluting)
<b>Cable-Access:</b>	5"H x 2.5"W handhole with secure cover 24" above grade
<b>Conduit-Entry: (Below Grade)</b>	5"H x 2.5"W oval port for conduit-routing (factory-installed or easily field-configured with standard tools)
<b>Colors:</b>	Gray, Black, Brown & Dark Green standard (custom available)
<b>Construction:</b>	Patented composite structure with reinforced UV-resistant coating. Decorative foam-wrap features available with fluting, historic-designs, etc.
<b>Equipment:</b>	Accommodates all Small Cell, Microwave and IoT equipment
<b>Wind Speeds:</b>	Up to 180 mph (depending on loading)
<b>Structural:</b>	Analysis per TIA-222, AASHTO and local building codes
<b>Electrical:</b>	Hand-hole and conduit-port available for routing power, fiber & data cables.
<b>Hardware Mounting:</b>	Pullout (Lbs.): #8 Screw: 600; 1/4" Rivnut: 1230; 3/8" Rivnut: 1700 Shear (Lbs.): 5/16" Screw: 1750; 3/8" Rivnut: 4300

### Contact us at:

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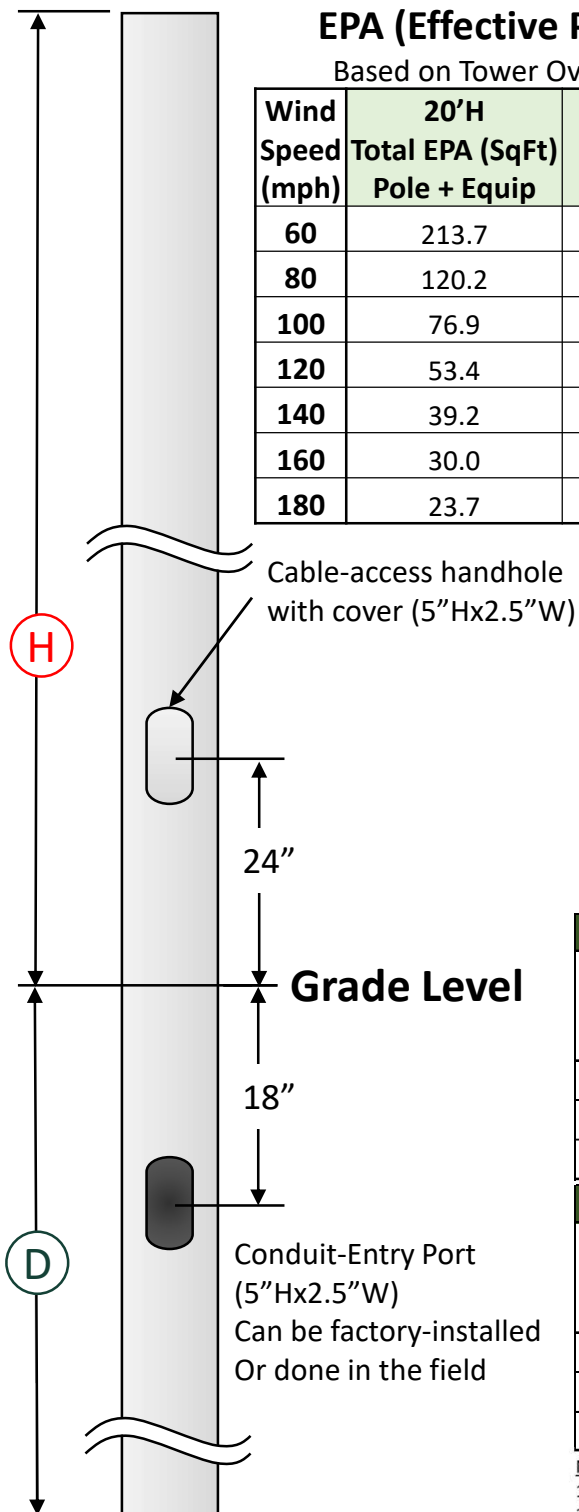
# Hurricane resistant composite-based direct-bury tower

Height (H)	Depth (D)	Diameter	Standard Colors	Customer Options
<b>20:</b> 20' above grade	<b>6:</b> 6' embedded	<b>098:</b> 9.8"	<b>G:</b> Gray	Cylinder or Fluted, etc.
<b>25:</b> 25' above grade	<b>7:</b> 7' embedded		<b>B:</b> Black	Various light-mounts,
<b>30:</b> 30' above grade	<b>8:</b> 8' embedded		<b>N:</b> Brown	luminaires, toppers,
Custom Heights up to 32 ft	<b>10:</b> 10' embedded		<b>R:</b> Green	IoT equipment, etc.

## EPA (Effective Projected Area) Capacities for 20', 25', 30'H Towers

Based on Tower Overturning-Moment (OM) Load Capacity of 20,000 Ft-Lbs (20 Kip-Ft)

Wind Speed (mph)	20'H	20'H	25'H	25'H	30'H	30'H
	Total EPA (SqFt) Pole + Equip	EPA (SqFt) Equip Only	Total EPA (SqFt) Pole + Equip	EPA (SqFt) Equip Only	Total EPA (SqFt) Pole + Equip	EPA (SqFt) Equip Only
60	213.7	202.5	170.9	157.0	142.5	126.1
80	120.2	109.0	96.2	82.2	80.1	63.8
100	76.9	65.8	61.5	47.6	51.3	35.0
120	53.4	42.3	42.7	28.8	35.6	19.3
140	39.2	28.1	31.4	17.4	26.2	9.8
160	30.0	18.9	24.0	10.1	20.0	3.7
180	23.7	12.6	19.0	5.0	Not Usable	Not Usable



## Direct-Bury Foundation Capacity\*

(Based on Soil Types and Overturning-Moment Capacity)

\*Engineering study and data provided by Paul J. Ford Professional Engineering



Non-Cohesive Soils						
	Soil Properties			Depths (Ft) for Listed Applied Moment		
	Unit Weight (pcf)	Friction Angle (degree)	Cohesion (psf)	15 kip*ft	20 kip*ft	25 kip*ft
Poor	90	26	0	8	8.75	9.25
Average	110	30	0	7.25	7.75	8.25
Good	130	34	0	6.5	7	7.25
Cohesive Soils						
	Soil Properties			Depths (Ft) for Listed Applied Moment		
	Unit Weight (pcf)	Friction Angle (degree)	Cohesion (psf)	15 kip*ft	20 kip*ft	25 kip*ft
Poor	90	0	250	9	10	11
Average	110	0	600	6	6.75	7.25
Good	130	0	1000	5	5.5	5.75

**Notes:**

1. Foundation depth calculated for 12" dia. hole with foam backfill
2. Water table is assumed to be below the depth of the foundation
3. Frost depth is not considered