Direct-Bury Tower (6.0"OD)

EasyStreet
SYSTEMS

Product Summary:

EasyStreet Systems provides a game-changing solution to Lighting, Internet of Things (IoT), WiFi and 4G/5G small cell infrastructure demands—at a fraction of current construction methods.

Imagine a tower that can be easily installed into an 8" dia. 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 has less environmental impact than traditional solutions. A 20'H EasyStreet direct-bury 6.0" Outer Diameter (OD) tower weighs ~100 lbs. as opposed to ~1,000 lbs for a steel tower, cutting installation costs significantly. The tower and foam-kit are all provided in an all-inclusive and easy to use kit.

Specifications

Applications:	Lighting, IoT, WiFi, 4G/5G small cell sites
Height Ranges:	20' typical (above grade; up to 10' embedment) but can be lower
Weight (Lbs.):	20'H above ground level (~28' total): 100
Outer Diameter:	6.0" Standard OD (5.5" ID)
Cable-Access:	5"H x 2.5"W handhole with secure cover 24" above grade
Conduit-Entry: (Below Grade)	5"H x 2.5"W oval port for conduit-routing (factory-installed or easily field-configured with standard tools)
Colors:	Gray, Black, Brown & Dark Green standard (custom available)
Construction:	Patented composite structure with reinforced UV-resistant coating.
Equipment:	Accommodates all Small Cell, Microwave and IoT equipment
Wind Speeds:	Up to 180 mph (depending on loading)
Structural:	Analysis per TIA-222, AASHTO and local building codes
Electrical:	Hand-hole and conduit-port available for routing power, fiber & data cables.
Hardware Mounting:	Pullout (Lbs.): #8 Screw: 600; 1/4" Rivnut: 1230; 3/8" Rivnut: 1700 Shear (Lbs.): 5/16" Screw: 1750; 3/8" Rivnut: 4300

20' Base-Flange product shown to demonstrate how lightweight it is

Contact us at:

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Hurricane resistant composite-based direct-bury tower

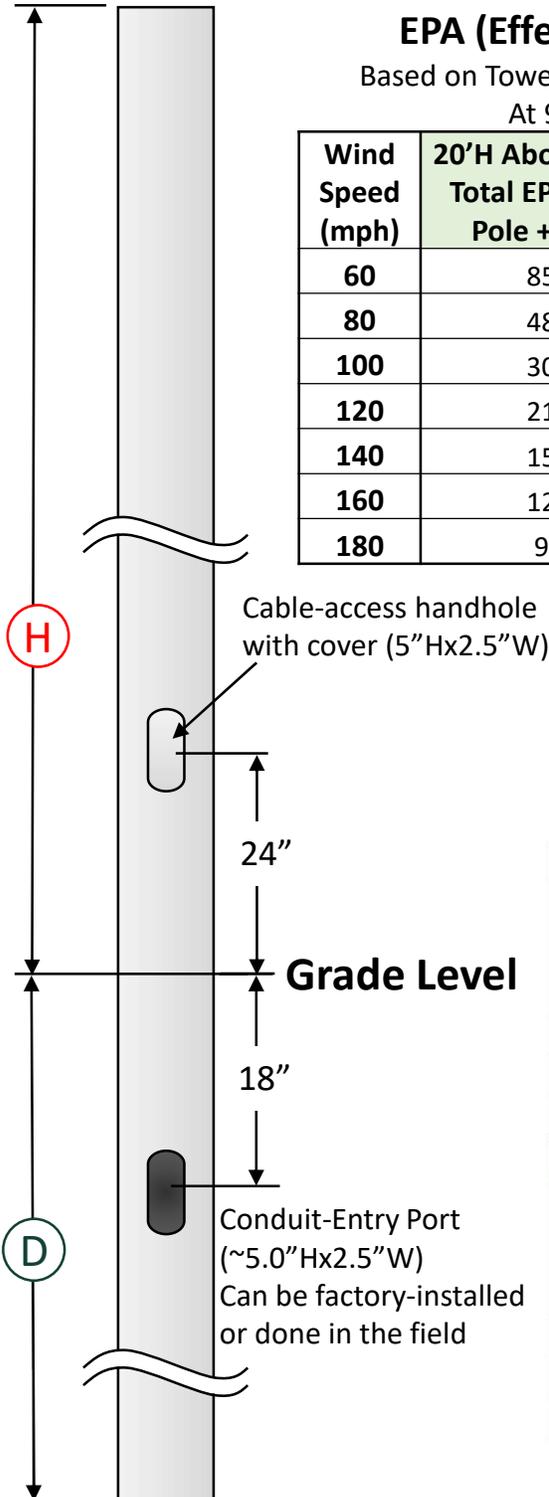| Height (H)	Depth (D)	Diameter	Standard Colors	Customer Options
20: 20' above grade	**4**: 4' embedded	**6**: 6.0" OD	**G**: Gray	Various light-mounts,
25: 25' above grade	**6**: 6' embedded		**B**: Black	luminaires, toppers,
30: 30' above grade	**8**: 8' embedded		**N**: Brown	IoT equipment, etc.
Custom Heights up to 25 Ft	Custom available		**R**: Green	

EPA (Effective Projected Area) Capacities for 20'H Towers

Based on Tower Overturning-Moment (OM) Load Capacity of 9,000 Ft-Lbs (9 Kip-Ft)

At 9,000 Ft-Lbs, there can be up to a 7% deflection at the tip

Wind Speed (mph)	20'H Above Grade Total EPA (SqFt) Pole + Equip	20'H Above Grade Total EPA (SqFt) Equip Only	30'H Above Grade Total EPA (SqFt) Pole + Equip	30'H Above Grade Total EPA (SqFt) Equip Only
60	85.5	78.8	57.0	46.9
80	48.1	41.4	32.1	22.0
100	30.8	24.1	20.5	10.5
120	21.4	14.7	14.2	4.2
140	15.7	9.0	10.5	0.4
160	12.0	5.3	Not Usable	Not Usable
180	9.5	2.8	Not Usable	Not Usable

Cable-access handhole with cover (5"Hx2.5"W)

H

24"

Grade Level

18"

D

Conduit-Entry Port (~5.0"Hx2.5"W) Can be factory-installed or done in the field

Direct-Bury Foundation Capacity*

(Based on Soil Types and Overturning-Moment Capacity)

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

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Non-Cohesive Soils							
	Soil Properties			Foundation Depths (Ft) for Listed Applied Moment			
	Unit Weight (pcf)	Friction Angle (degree)	Cohesion (psf)	2 kip*ft	4 kip*ft	6 kip*ft	8 kip*ft
Poor	90	26	0	5.75	6.50	7.00	7.50
Average	110	30	0	5.25	5.75	6.25	6.50
Good	130	34	0	4.50	5.00	5.50	6.00

Cohesive Soils							
	Soil Properties			Foundation Depths (Ft) for Listed Applied Moment			
	Unit Weight (pcf)	Friction Angle (degree)	Cohesion (psf)	2 kip*ft	4 kip*ft	6 kip*ft	8 kip*ft
Poor	90	0	250	5.75	6.75	7.50	8.00
Average	110	0	600	4.00	4.50	5.00	5.25
Good	130	0	1000	4.00	4.00	4.00	4.25

Notes:
1. Foundation depth calculated for 8" dia. hole with foam backfill
2. Water table is assumed to be below the depth of the foundation
3. Frost depth is not considered