

## 6" Outer Diameter Composite Pole



### Product summary:

EasyStreet Systems provides a game-changing solution to 4G/5G/small cell, lighting, and IoT 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 lightweight, customizable and impacts the environment much less than traditional solutions. A 20-foot EasyStreet direct-bury 6.0" Outer Diameter (OD) tower weighs ~80 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 (direct-bury):

<b>Applications:</b>	Lighting, IoT (Internet of Things), Wi-Fi, 4G/5G small cell sites
<b>Height ranges:</b>	Up to 30 feet above ground level (AGL)
<b>Weight:</b>	4lbs/foot
<b>Outer diameter:</b>	6.0" Standard OD (5.5" ID)
<b>Cable-access:</b>	5"H x 2.5"W handhole with secure cover 14" AGL
<b>Conduit-entry: (below ground level)</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.
<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>Base-flange option:</b>	10"W x 10"D x 3/4"H 4x corner-mounts (3/4" or 1" bolts, 8.7" to 10.3" mounting circle)



## EPA (effective projected area) capacities for 20 and 30-foot towers

Wind Speed (mph)	20'H Total EPA (SqFt) Pole + Equip	20'H EPA (SqFt) Equip Only	30'H Total EPA (SqFt) Pole + Equip	30'H EPA (SqFt) Equip Only
60	85.5	78.8	57	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

Based on tower overturning-moment (OM) load capacity of 9,000 foot-lbs (9 kip-foot) at 9,000 foot-lbs, there can be up to a 7% deflection at the tip

## 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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& COMPANY

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

