

# MINIMUM EMBEDMENT GUIDE

24" (610 mm) DIAMETER **ROUND POLE BASE™** UNITS <sup>(1)</sup>

6" (150 mm) DIAMETER **ROUND LIGHT POLE**

	POLE HEIGHT	SIGN OR FIXTURE AREA			
		2 ft <sup>2</sup> (0,186 m <sup>2</sup> )	4 ft <sup>2</sup> (0,372 m <sup>2</sup> )	6 ft <sup>2</sup> (0,557 m <sup>2</sup> )	8 ft <sup>2</sup> (0,743 m <sup>2</sup> )
<b>MINIMUM EMBEDMENT</b>	<b>BASES IN GRAVEL SOILS (GW, GP) <sup>(2)(7)</sup></b>				
	15' (4.6 m)	3'-0" (0,9 m)	3'-6" (1,1 m)	3'-6" (1,1 m)	4'-0" (1,2 m)
	20' (6.1 m)	3'-6" (1,1 m)	4'-0" (1,2 m)	4'-0" (1,2 m)	4'-6" (1,4 m)
	25' (7.6 m)	4'-0" (1,2 m)	4'-6" (1,4 m)	4'-6" (1,4 m)	5'-0" (1,5 m)
	30' (9.1 m)	4'-6" (1,4 m)	4'-6" (1,4 m)	5'-0" (1,5 m)	5'-6" (1,7 m)
	35' (10.7 m)	5'-0" (1,5 m)	5'-6" (1,7 m)	5'-6" (1,7 m)	5'-6" (1,7 m)
	<b>BASES IN SANDY SOILS (SW, SP, SM, SC, GM, GC) <sup>(3)(7)</sup></b>				
	15' (4.6 m)	3'-6" (1,1 m)	4'-0" (1,2 m)	4'-0" (1,2 m)	4'-6" (1,4 m)
	20' (6.1 m)	4'-0" (1,2 m)	4'-6" (1,4 m)	4'-6" (1,4 m)	5'-0" (1,5 m)
	25' (7.6 m)	4'-6" (1,4 m)	4'-6" (1,4 m)	5'-0" (1,5 m)	5'-6" (1,7 m)
	30' (9.1 m)	5'-0" (1,5 m)	5'-0" (1,5 m)	5'-6" (1,7 m)	5'-6" (1,7 m)
	35' (10.7 m)	5'-6" (1,7 m)	5'-6" (1,7 m)	6'-0" (1,8 m)	6'-0" (1,8 m)
	<b>BASES IN CLAYEY SOILS (CL, ML, CH, MH) <sup>(4)(7)</sup></b>				
	15' (4.6 m)	6'-6" (2,0 m)	7'-0" (2,1 m)	7'-6" (2,3 m)	8'-0" (2,4 m)
	20' (6.1 m)	7'-6" (2,3 m)	8'-0" (2,4 m)	8'-6" (2,6 m)	9'-0" (2,7 m)
	25' (7.6 m)	8'-0" (2,4 m)	9'-0" (2,7 m)	9'-6" (2,9 m)	10'-0" (3,0 m)
	30' (9.1 m)	9'-0" (2,7 m)	9'-6" (2,9 m)	10'-0" (3,0 m)	10'-6" (3,2 m)
	35' (10.7 m)	10'-0" (3,0 m)	10'-6" (3,2 m)	11'-0" (3,4 m)	11'-6" (3,5 m)
	<b>DESIGN FORCES</b>	<b>UNFACTORED SHEAR FORCE / OVERTURNING MOMENT <sup>(5)(6)</sup></b>			
15' (4.6 m)		255 lb (1,14 kN)	305 lb (1,37 kN)	355 lb (1,59 kN)	406 lb (1,82 kN)
		2,579 lb * ft (3,50 kN * m)	3,500 lb * ft (4,75 kN * m)	4,421 lb * ft (5,99 kN * m)	5,342 lb * ft (7,24 kN * m)
20' (6.1 m)		315 lb (1,41 kN)	368 lb (1,65 kN)	421 lb (1,89 kN)	474 lb (2,12 kN)
		4,022 lb * ft (5,45 kN * m)	5,255 lb * ft (7,12 kN * m)	6,466 lb * ft (8,80 kN * m)	7,722 lb * ft (10,47 kN * m)
25' (7.6 m)		379 lb (1,70 kN)	434 lb (1,94 kN)	489 lb (2,19 kN)	544 lb (2,44 kN)
	5,816 lb * ft (7,89 kN * m)	7,376 lb * ft (10,00 kN * m)	8,936 lb * ft (12,12 kN * m)	10,497 lb * ft (14,23 kN * m)	
30' (9.1 m)	444 lb (1,99 kN)	501 lb (2,24 kN)	558 lb (2,50 kN)	615 lb (2,76 kN)	
	7,975 lb * ft (10,81 kN * m)	9,874 lb * ft (13,39 kN * m)	11,773 lb * ft (15,96 kN * m)	13,672 lb * ft (18,54 kN * m)	
35' (10.7 m)	511 lb (2,29 kN)	570 lb (2,55 kN)	629 lb (2,82 kN)	687 lb (3,08 kN)	
	10,507 lb * ft (14,25 kN * m)	12,757 lb * ft (17,30 kN * m)	15,006 lb * ft (20,34 kN * m)	17,255 lb * ft (23,40 kN * m)	