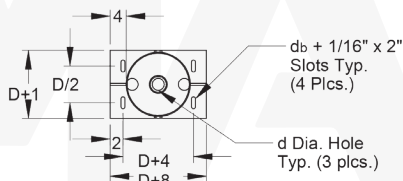


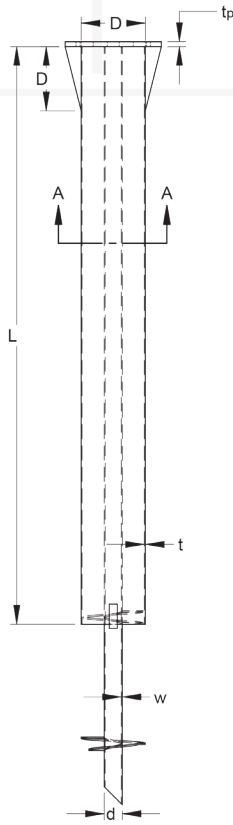
MAGNUM® MBSS#S Helical Post Base

Standard Capacity Sound Wall Foundation

8" to 16" Ø x 3 to 30 ft Long Steel Casing



SECTION A-A



Description: MAGNUM® MBSS#S Helical Post Base is a full displacement deep foundation for support of sound walls, light poles, signs, towers and other structures where the primary loading condition is overturning or lateral shear. The standard capacity offers greater economy for many applications. Helical Post Bases offer all the advantages of a helical foundation in that they do not produce drill spoil or cause vibrations during installation. They do not require concrete and the sign, light post, or other structure can be mounted to the foundation immediately after installation. They are ideal for rail corridors, rural areas, along highways, and near bridge/overpass approaches. Slotted top plate and four bolt moment connection allows adjustment in position and inclination. Patented design with novel geometry and side cutting teeth reduces installation torque and improves penetration into tough ground conditions. See accompanying sizing chart or contact a Magnum Technical Support representative for help with sizing and specification.

Note: All plate steel is ASTM A36, central steel shaft is ASTM A513, and outer steel casing is ASTM A252. Available hot-dip galvanized (G) or bare steel (NG). Capacities shown are based on 75 yr corrosion with galvanization

Specifications									Allowable Capacity				
Post Base Size	Steel Casing			Helix Gauge	Shaft		Top Plate	Bolt Dia.	Flexure		Shear		Allow Torque
	Length	O.D.	Gauge		Dia.	Gauge			Std.	w/slot	Std.	w/slot	
	L	D	t		d	w			kip-ft	kip-ft	kips	kips	
MBSS8S	3'-10'	8.625"	0.109"	3/8"	3.00"	0.13"	5/8"	5/8"	16	13	24	20	14,000
MBSS12S	6'-20'	12.75"	0.109"	3/8"	3.00"	0.25"	3/4"	3/4"	34	30	35	31	30,000
MBSS16S	10'-30'	16.00"	0.109"	5/8"	4.50"	0.25"	7/8"	1"	52	47	44	40	53,000



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