## Magnum<sup>®</sup> MLOC##24 Shear Lock Allowable Lateral Capacity (lbs)\*



MLOC1224										
Head Fixity	Helical Pile Shaft Dia.,		Non-Cohesive Soils				Cohesive Soils			
		d (in)	V. Loose	Loose	Medium	Dense	V. Soft	Soft	Medium	Stiff
Free Plant Condition	MH325	3.00	600	1,350	1,900	2,650	550	1,450	3,150	4,000
1	MH425	4.50	1,100	2,200	3,050	4,200	900	2,100	4,250	7,900
LV	MH431	4.50	1,150	2,350	3,250	4,500	900	2,200	4,400	8,200
	Minimum Pile Depth, h =			28d	28d	34d	34d	34d	34d	34d
Final Final Common	MH325	3.00	2,100	3,700	4,000	4,000	1,350	3,300	4,000	4,000
į	MH425	4.50	3,600	6,400	7,850	8,400	2,050	4,650	8,400	8,400
	MH431	4.50	3,750	7,600	8,400	8,400	2,100	4,800	8,400	8,400
	Minimum Pile Depth, h =			40d	40d	40d	40d	40d	40d	40d

	MLOC1824										
Head Fixity	Helical Pile	Shaft Dia.,	Non-Cohesive Soils				Cohesive Soils				
		d (in)	V. Loose	Loose	Medium	Dense	V. Soft	Soft	Medium	Stiff	
Free Cand Cardena	MH325	3.00	650	1,650	2,400	3,350	650	1,650	3,650	6,000	
1.1/	MH425	4.50	1,150	2,600	3,600	5,050	1,000	2,350	4,800	9,050	
1.1	MH431	4.50	1,200	2,750	3,850	5,400	1,000	2,400	5,000	9,400	
	Minimum Pile Depth, h =		28d	28d	28d	34d	34d	34d	34d	34d	
Florid Hand Commission	MH325	3.00	2,600	4,700	6,000	6,000	1,550	3,900	6,000	6,000	
	MH425	4.50	4,250	7,700	9,500	11,700	2,350	5,400	10,100	12,400	
	MH431	4.50	4,450	9,750	11,000	12,400	2,400	5,600	11,200	12,400	
	Minimum Pile Depth, h =			40d	40d	40d	40d	40d	40d	40d	

	MLOC2424										
Head Fixity	Helical Pile	Shaft Dia., d (in)	Non-Cohesive Soils  V. Loose Loose Medium Dense				V. Soft	Cohesive Soils Soft Medium Stiff			
Fire that Comme	MH325	3.00	700	1,950	2,900	4,150	700	1,850	4,100	8,000	
1	MH425	4.50	1,200	3,000	4,300	6,050	1,050	2,500	5,300	10,100	
].	MH431	4.50	1,250	3,150	4,550	6,400	1,050	2,600	5,500	10,400	
	Minimum Pile Depth, h =		28d	28d	28d	34d	34d	34d	34d	34d	
Florid Stand Commission To Affic To Affice Stand	MH325	3.00	3,200	6,000	7,700	8,000	1,800	4,500	8,000	8,000	
	MH425	4.50	5,000	9,300	11,600	14,600	2,550	6,050	11,500	17,000	
11/	MH431	4.50	5,200	10,600	13,200	16,800	2,600	6,200	12,700	17,000	
	Minimum Pile Depth, h =			40d	40d	40d	40d	40d	40d	40d	

\*Limitations: IBC2015 states that the allowable lateral capacity of a pile shall be half the load causing 1-inch of deflection. Many professionals use the lateral capacity at a deflection of 0.5 inches as the allowable lateral capacity. The allowable lateral capacities shown in these tables are based on a predicted deflection of 0.5 inches at the ground surface. Refer to Magnum® Technical Reference Manual for theoretical load displacement curves and for allowable capacities at other deflection limits. These capacity tables are based on lateral load applied at ground surface and galvanized shafts with 50 years corrosion in non-severe corrosive conditions. Contact Magnum® technical support professionals for lateral capacity when loads are applied above ground, for other corrosion conditions, or for resistance to bending moments. Occasionally, annular space can develop around upper portions of the shaft when helical piles have multiple bolted couplings (all Magnum® helical piles larger than 3.5" diameter) or when installation methods cause excessive wobbling. It is recommended that any annular space be grouted from the surface using fast-setting, non-shrink, neat cement grout when lateral capacity is required.

## Magnum Piering, Inc.

6082 Schumacher Park Dr. West Chester, OH 45069 800-822-7437 www.magnumpiering.com