

## ***P45 Series 4-1/2” Helical Pipe Piles***

### **New MacLean-Dixie 4-1/2” “Strength Squared™” Helical Pipe Piles (Patent Pending)**

- Square engagement coupling system -- no bolts in shear during installation – no elongated or torn bolt holes and no bent bolts during installation as with round pipe couplings
- Bolt holes align for faster assembly – just insert next extension and add bolt. No alignment issues when in tight quarters – improved productivity
- 2-bolt cross connection for increased rigidity
- Flexible coupling system – use pipe or RCS leads for greater flexibility
- Lighter weight extensions – for easier handling
- Greater torque capacity for size – greater performance value
- Available standard black (not-coated) or hot dip galvanized ASTM A-153
- ICC AC358 Acceptance Criteria For Helical Foundation Systems and Devices

<b>P45 Series 4-1/2” (O.D.) Pipe Pile</b>	
Torque Capacity (ft-lbs)	18,000 ft-lbs
Tension/Compression Capacity (pounds-force)	100 KIPS (50 tons)
Pipe Pile O.D. (inches) *	4-1/2”
Pipe Pile Wall thickness (inches)	Schedule 40
Pipe Material	ASTM A500 Grade B
Helix Material	AISI Grade 1011/1018 HSLA 55
Coupling Material	AISI 8620 ASTM A-958 SC1045
RCS lead option	2” RCS
Note: Standard wall thickness. *Other sizes available on request.	

## P45 Series 4-1/2" Helical Pipe Piles



Conventional Pipe Piles -  
Elongated/torn holes with round pipe  
pile coupling & bolts in shear.

### MacLean-Dixie "Strength Squared™" coupling system (Patent pending)



2-bolt Cross Connection



Pipe pile and coupling system  
remains undamaged during  
installation

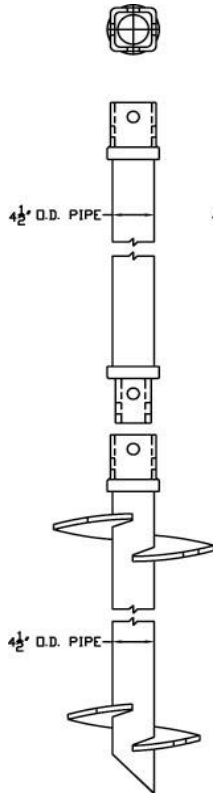


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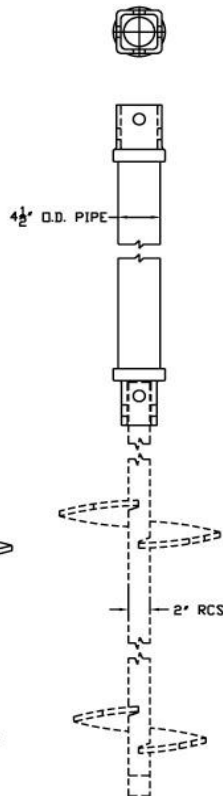
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## P45 Series 4-1/2" Helical Pipe Piles

**Standard Pipe Pile**  
Lead & Extension



**Pipe Pile with**  
RCS Lead Option



Use the **Pipe Pile with RCS Lead Option** when installing into tougher soils. This option uses less installing torque but offers the increased lateral capacity of the pipe extension.

Install with any combination of MacLean-Dixie 2" RCS lead.

Provides maximum compression capacity with least installing torque.

Use for new construction or foundation repair.



Lab & Field tested in accordance to  
 ICC AC358 by ICC accredited

## ***P45 Series 4-1/2" Helical Pipe Piles***

<b>Catalog Number*</b>	<b>Description</b>	<b>Weight lbs</b>	<b>Standard Pack</b>
P4584T1014U	4-1/2" x 84" helical pile with 12-14" (1/2") helix, black	111	15
P4584T1416U	4-1/2" x 84" helical pile with 14-16" (1/2") helix, black	122	15
P4584T101214	4-1/2" x 84" helical pile with 10-12-14" (1/2") helix, black	121	15
P45E64U	4-1/2" x 64" extension, black **	73	25
P45E84U	4-1/2" x 84" extension, black **	91	20
P45E124U	4-1/2" x 124" extension, black **	127	15
Note: Standard black (not galvanized). Remove "U" for galvanized, * Other available sizes on request			
** Add suffix "X" for extension with transition to connect with 2" RCS lead			



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