



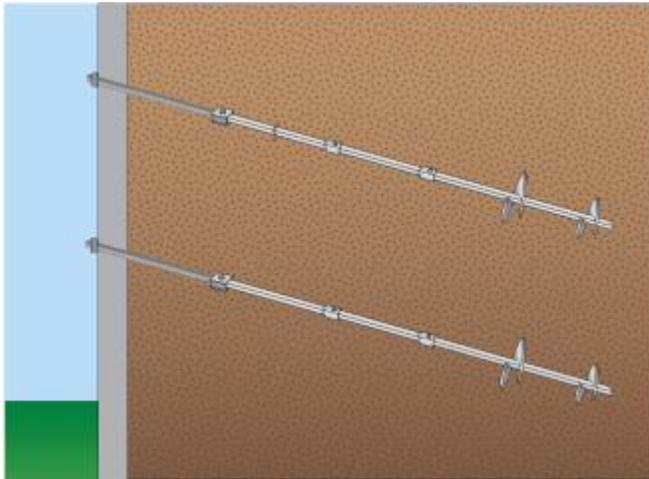
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Helical Tiebacks

Helical wall tiebacks are designed to straighten or strengthen basement and retaining walls. This method of shoring has become very popular with the engineering community due to their strength and ease of measuring capacity. Helical tiebacks has many of the same benefits as other helical anchors in the fact that they install with light weight, portable equipment, are not adversely effected by weather and can be load tested immediately upon installation.

Often helical tiebacks are the preferred method of shoring by engineers due to their capacity to torque relationship and predictability of ultimate capacity. Helical tiebacks are used for many applications including:

- Sea Walls
- Basement Walls
- Retaining Walls
- Shoring
- Temporary Wall Support
- Tilt Up Construction



Earth Contact Products offers preliminary design services for helical tieback systems to our national network of contractors and their engineers. This design assistance provides product recommendations and calculations based on information provided by the installing contractor or engineer of record. ECP will help you match the correct helical product to your application or load requirement whether it is for a soldier beam and lagging wall, whaler braced wall or a simple concrete retaining wall.



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ECP also offers several connection methods including wall plates, all thread adapters or specially designed rebar connection plates. With capacities ranging from 70kips to over 200kips Earth Contact Products has a helical tieback that will meet your individual requirements.

Table 2. Capacities of Helical Torque Anchors™					
Shaft Size	Installation Torque Factor (k)	Axial Compression Load Limit	Ultimate-Limit Tension Strength	Useable Torsional Strength	Practical Load Limit Based Torsional Strength
1-1/2" Square Bar	9 - 11	70,000 lb.	70,000 lb.	7,500 ft-lb	Load limited to the rated capacity of the attachments and the lateral soil strength against the shaft
1-3/4" Square Bar	9 - 11	100,000 lb.	100,000 lb.	11,000 ft-lb	
2-1/4" Square Bar	10 - 12	200,000 lb.	200,000 lb.	23,000 ft-lb	
2-7/8" Tubular – 0.203" Wall	8 - 9	60,000 lb.	60,000 lb.	5,500 ft-lb	44,000 lb
2-7/8" Tubular – 0.262" Wall	8 - 9	100,000 lb.	100,000 lb.	9,500 ft-lb	80,000 lb
3-1/2" Tubular – 0.300" Wall	7 - 8	115,000 lb.	120,000 lb.	13,000 ft-lb	97,000 lb
4-1/2" Tubular – 0.337" Wall	6 - 7	160,000 lb.	160,000 lb.	22,000 ft-lb	143,000 lb



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