



**Q** 1. *How much weight can the Ledger Deck Foot Anchor™ support?*

**A** The Post Saddles can support a minimum of 15,000 lbs before destruction. However, the maximum weight each Ledger Deck Foot Anchor™ (3-¼" dia. blade) depends on the bearing capacity of your soil type. The range between clay or sandy soil is approximately 1,400 lbs to 6,300 lbs respectively. For helical blade compression loads see the *Compression Chart*.

**Q** 2. *What kind of structures can I build with the Ledger Deck Foot Anchor™?*

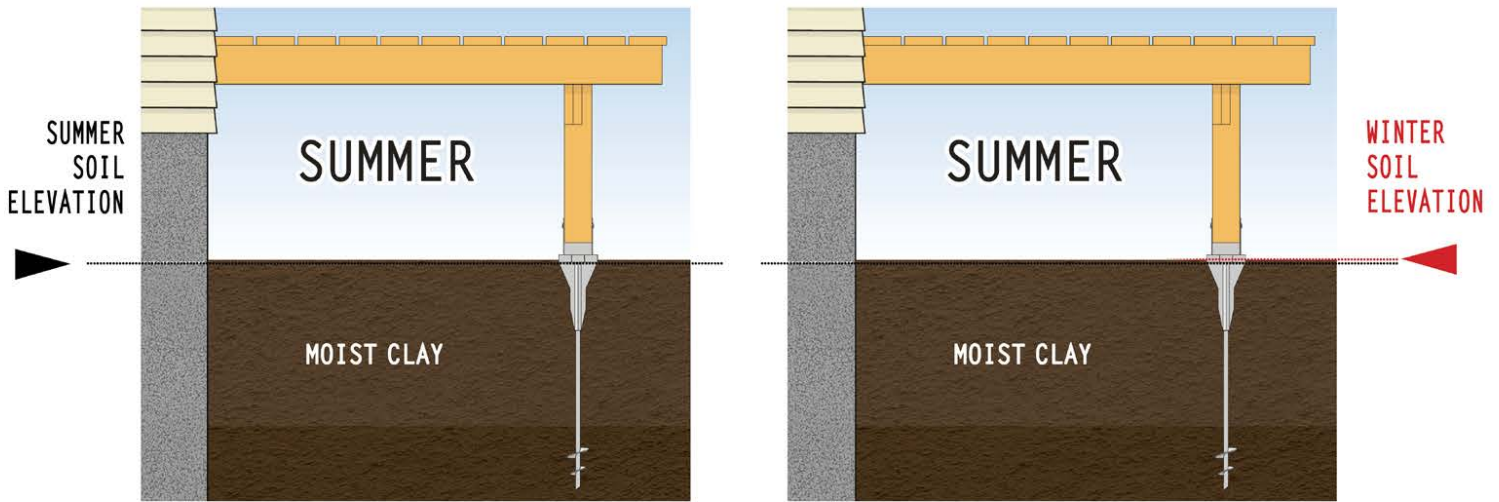
**A** The Ledger Deck Foot Anchor™ is designed for residential decks, walkways, shed platforms and similar structures – very much like the Floating Deck Foot Anchor™. Except this footing can withstand frost if that is what you need.

**Q** 3. *Can I use the Ledger Deck Foot Anchor™ in freezing soil conditions?*

**A** Yes, the Ledger Deck Foot Anchor™ was designed to withstand frost and if the blades are embedded deep enough below the frost zone the entire footing system will remain stationary relative to the soil below the frost line.

**Q** 4. *How does the Ledger Deck Foot Anchor™ perform in frost?*

**A** The auger blades are screwed deep into soil below the expected frost line. When the upper zone of moist soil freezes and expands, the soil is free to move vertically without obstruction alongside the auger tube and the lateral resistance panels of the Compression Load Fin. It stays stationary while the soil moves in its seasonal manner.



**Q** 5. *Can I use the Ledger Deck Foot if I connect the deck to a ledger?*

**A** Yes, the Ledger Deck Foot Anchor™ was designed to be used for ledger connected residential decks. The Post Saddle can slide laterally to align with an overhead beam giving the installer a margin of error when driving the augers into the ground.

**Q** 6. *Can I connect to an existing ledger connected deck?*

**A** Yes, the Ledger Deck Foot Anchor™ can be used with a deck extension that connects to another ledger connected deck because they should both be resistant to frost.

**Q** 7. *Are frost footings required for decks supported by a dwelling?*

**A** Yes, decks connected or supported by a dwelling must be protected from frost by foundations, walls, piers etc that extend below the frost line (Section 9.12.2.2 NBC)

**Q** 8. *Do I need a permit to build with the Ledger Deck Foot Anchor™?*

**A** Permit requirements are different for many cities. In most cases permits are required once a structure reaches a certain size. Part 9.12.2.2 of the NBC sets footing depths at 3'-11" but not less than the depth of frost. Consult your local building department for any local rules.



- Q** 9. *Do you have engineering reports and data to support a residential building permit?*
- A** We have compression and load data for augers in various soil types, uplift data, post saddle compression and uplift data which can be shared with a local inspector for them to consider with your permit application. ( see *Compression Chart* and *Uplift Chart* )  
Visit [www.titanbp.com/engineering-reports-new/](http://www.titanbp.com/engineering-reports-new/)
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- Q** 10. *What kind of tool do I need to install it?*
- A** Use a ½" drive impact wrench (corded or 18V) with a 12mm six-point hex socket. Use a common sledge hammer to drive the Load Fin into the upper 12" of soil.
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- Q** 11. *How many Ledger Deck Foot Anchors™ do I need to use to support a deck, shed or walkway?*
- A** A safe Rule of Thumb is to space footings at 4 to 5 feet apart under a beam on a ledger connected deck. This is based on decks designed to support up to 50 psf (10 psf dead load, 40 psf live load).
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- Q** 12. *Is there a general rule for the tributary area above each footing?*
- A** Yes, given the soil test data and the diameter of the auger blade, we recommend maximum tributary areas above each footing of 16 to 25 sqft. This is intended for the worst soil type and could increase or decrease depending on the bearing capacity of your soil.
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- Q** 13. *What length of auger should I use?*
- A** The blades of the auger must be below the frost line of function as a frost footing. Augers are available in 3' and 4' lengths plus 2' extensions to create 5' and 6' augers if necessary.
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- Q** 14. *What happens if I build on disturbed soil?*
- A** To function as a frost footing the auger blades should be deep enough to pass through a disturbed soil area and well into an undisturbed soil area.
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- Q** 15. *How do I retract an auger?*
- A** If an auger strikes an immovable obstruction it can be retracted by reversing an impact wrench or reversed by hand using a 24" breaker bar or a 2x4 and the Auger Hand Tool.
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- Q** 16. *Can I use the Ledger Deck Foot Anchor™ on a slope?*
- A** Building on any slope is risky. Gentle stable slopes do not pose a problem. However, any slope greater than 4:12 should be assessed for its stability before building any structure.

**COMPRESSION CHART**

HELICAL BLADES ONLY		
Auger Length	SOIL TYPES	
	Sand	Clay
36"	6285 lbs. max.	1391 lbs. max.
48"	>6285 lbs.	>1391 lbs.

**UPLIFT CHART**

Auger Length	SOIL TYPES	
	Sand	Clay
36"	4001 lbs. max.	1244 lbs. max.
48"	>4001 lbs.	>1244 lbs.