

PRODUCT CATALOG

Email Orders To:
orders@griptite.com

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PRODUCT PROPERTIES TECHNICAL KEY

Grip-Tite has been manufacturing high-quality, earth anchoring and foundation repair products in Winterset, IA continuously since 1921. We can proudly state that all of our products are “Made in the USA”. Certified welders, constant quality improvement programs and exacting quality control procedures ensures the highest quality products with proven performance for over 90 years.

A network of certified installers/dealers, effectively cover all 50 states, Canada and Mexico. These installers undergo an extensive, in-house training and certification in order to provide safe and effective product installations. Those products are tested in-house, at third party, independent, certified laboratories and in the field before they are put into production. You can be assured of a pre-engineered, reliable solution to your earth anchoring and foundation repair needs with Grip-Tite.

Grip-Tite has obtained, and maintained, ICC Legacy Evaluation Service Reports and IAPMO Evaluation reports for both Helical & Push Pier Systems. We have also tested both products in accordance with ICC Test Criteria AC308 through an ICC certified laboratory.

Our support staff provides engineering, product and customer support to the dealer network and the engineering and building communities. Our field support includes job site and installation oversight, load tests and product development. We look forward to the opportunity to serve your earth anchoring and foundation repair needs.

Grip-Tite performance.....over 90 years and counting!

Grip-Tite® Foundation Push Pier Properties

Standard and Heavy Duty Series

For existing homes, Grip-Tite® Foundation Systems manufactures foundation repair products for fixing problems like foundation settlement, bowed basement walls, sagging floors and cracked concrete floor slabs. Current foundation problems can be repaired with these foundation repair methods.

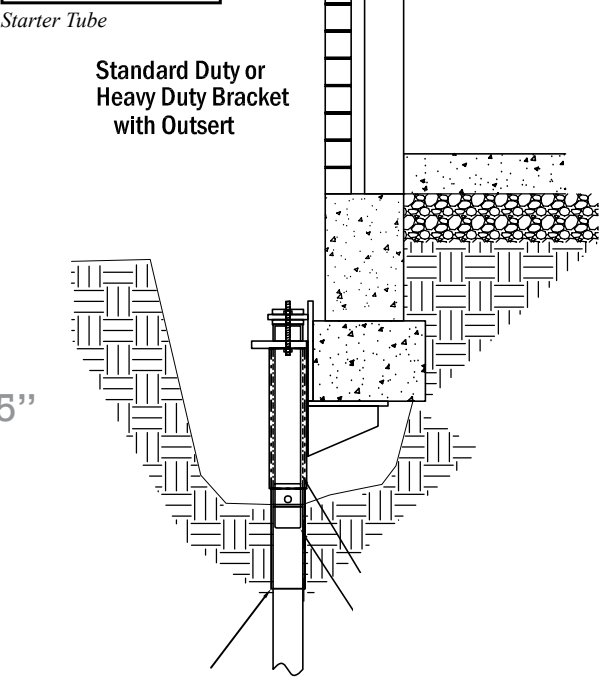
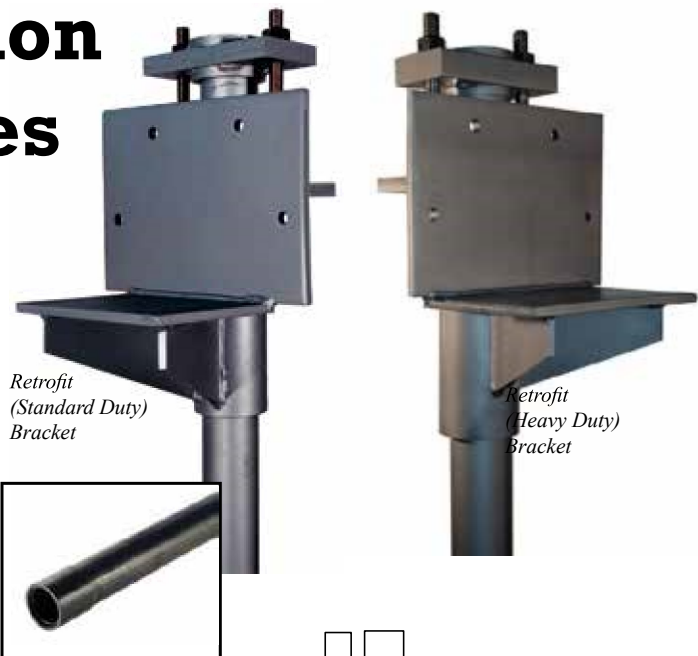
Product	Ultimate Compression System Capacity P_{ult}^2
Standard Duty or Heavy Duty Foundation Piers with:	
Standary Duty Retrofit Bracket FP3BA	45 kips
Heavy Duty Retrofit Bracket FP3BAH	60 kips

Standard Duty Push Pier: 3.00" OD x 0.165" Wall x 36" Long (GTFP300120 SD Series)

ERW Structural Steel Tubing per ASTM A500; Grade 1010 High Strength Low Alloy, HR, BLK; Minimum Yield Strength 46 ksi and Minimum Tensile Strength 62 ksi.

Heavy Duty Push Pier: 3.00" OD x 0.188" Wall x 36" Long (GTFP300188 HD Series)

ERW Structural Steel Tubing per ASTM A500; Grade 1010 High Strength Low Alloy, HR, BLK 60 ksi Minimum Yield Strength and 46 ksi Minimum Tensile Strength 62 ksi.



OUTSERT REINFORCING TUBE (Heavy Duty Bracket Only)
 $F_y = 70 \text{ ksi}$, $F_u = 80 \text{ ksi}$

1) L_u , unbraced length = 0. Concentric Loading, $P_{ult} = A_g F_y$.
 2) Systems capacities were determined by physical testing utilizing an unsupported length, L_u , of 5 feet in general accordance with AC-308 (4.1.1). The allowable capacity should include an adequate Factor of Safety. Capacities should be verified in the field.

Pier Product	Nominal Shaft Size, OD (in)	Nominal Wall Thickness t (in)	Ultimate Mechanical Capacity P_{ult} (kips) ¹	Gross Cross Sectional Area A_g (in ²)	Circumference C (in)	Moment of Inertia, I (in ⁴)	Section Modulus, S (in ³) S_{x-x}, S_{y-y}	Section Modulus, S (in ³) S_{x-y}	Radius of Gyration, r (in)
Standard Duty GTFP300120	3.00	0.165	67	1.47	9.43	1.48	0.99	0.99	1.00
Heavy Duty GTFP300188	3.00	0.188	83	1.657	9.43	1.65	1.10	1.10	1.00

Specifications

Standard Duty Pier Tube

3-in OD x 0.165-in wall mechanical steel tubing conforming to ASTM A500, Grade 1010 HSLA.
Min. Yield Strength 46 ksi, Min. Tensile Strength 52 ksi.

STANDARD DUTY BRACKETS

Standard Duty Bracket Capacities The allowable capacities of the Standard Duty Bracket have been estimated by an ICC Certified testing laboratory and calculated in accordance to AISC, AC-358 and ACI.

Allowable Compression Capacity: 30 kips

Allowable Uplift Capacity: 20 kips

Allowable Lateral Capacity: 10 kips

Bracket Tube

3.875-in OD x 0.375-in wall x 12-in DOM mechanical steel tubing conforming to ASTM A513, Type 5/Grade 1026 HSLA. Min. Yield Strength 70 ksi, Min. Tensile Strength 58 ksi.

Seating Angle Bracket

The 90° seating angle bracket consists of a 10 x 14 x 0.5-in flat plate welded to an 8 x 10 x 0.5-in flat plate conforming to ASTM A36 hot rolled steel. Min. Yield Strength 36 ksi, Min. Tensile Strength 58 ksi.

Angle Bracket Gusset Plates

Two 2 x 5 x 8-in wedges manufactured from 0.375-in thick ASTM A36 hot rolled steel. Min. Yield Strength 36 ksi, Min. Tensile Strength 58 ksi.

Top Plate

5 x 9.5 x 0.75-in thick flat hot rolled steel plate conforming to ASTM A36. Min. Yield Strength 36 ksi, Min. Tensile Strength 58 ksi.

Cap Plate

4 x 8 x 1-in thick flat hot rolled steel plate conforming to ASTM A36. Min. Yield Strength 36 ksi, Min. Tensile Strength 58 ksi.

Threaded Rods

All-threaded rods are 3/4 in Φ x 12-in conforming to ASTM A311, Class B/ Grade 8 and are zinc plated conforming to ASTM B633, Min. Yield Strength 130 ksi, Min. Tensile Strength 150 ksi.

Concrete Anchors

Four 1/2 in Φ x 5.5-in Titen HD anchors, or equivalent.

Weld

ER70S-3, Min. Tensile Strength 72 ksi. All welds are performed by an AWS certified welder.

Heavy Duty Pier Tube

3-in OD x 0.188-in wall mechanical steel tubing conforming to ASTM A513, Grade 1026 HSLA. Min. Yield Strength 50 ksi, Min. Tensile Strength 60 ksi.

Bracket Tube Reinforcing Outsert

3.5-in OD x 0.188-in wall x 42 in mechanical steel tubing conforming to ASTM A513, Grade 1026 HSLA. Min. Yield Strength 70 ksi, Min. Tensile Strength 80 ksi.

HEAVY DUTY BRACKET

Heavy Duty Bracket Capacities

The allowable capacities of the Heavy Duty Bracket have been estimated by an ICC Certified testing laboratory and calculated in accordance to AISC, AC-358 and ACI.

Allowable Compression Capacity: 45 kips

Allowable Uplift Capacity: 20 kips

Allowable Lateral Capacity: 10 kips

Bracket Tube

4.5-in OD x 0.375-in wall x 14-in DOM mechanical steel tubing conforming to ASTM A513, Type 5/ Grade 1026 HSLA. Min. Yield Strength 70 ksi, Min. Tensile Strength 80 ksi.

Seating Angle Bracket

The 90° seating angle bracket consists of a 10 x 14 x 0.5-in flat plate welded to an 8 x 12 x 0.5-in flat plate conforming to ASTM A36 hot rolled steel. Min. Yield Strength 36 ksi, Min. Tensile Strength 58 ksi.

Angle Bracket Gusset Plates

Two 2 x 5 x 8-in wedges manufactured from 0.375-in thick ASTM A36 hot rolled steel. Min. Yield Strength 36 ksi, Tensile Yield Strength 58 ksi.

Top Plate

5 x 9.5 x 0.75-in thick flat hot rolled steel plate conforming to ASTM A36. Min. Yield Strength 36 ksi, Min. Tensile Strength 58 ksi.

Top Plate

4 x 8 x 1.5-in thick flat hot rolled steel plate conforming to ASTM A36. Min. Yield Strength 36 ksi, Min. Tensile Strength 58 ksi.

Threaded Rods

All-threaded rods are 7/8 in Φ x 12-in conforming to ASTM A311, Class B/ Grade 8 and are zinc plated conforming to ASTM B633, Min. Yield Strength 130 ksi, Min. Tensile Strength 150 ksi.

Concrete Anchors

Four 1/2 in Φ x 5.5-in Titen HD anchors, or equivalent.

Weld

ER70S-3, Min. Tensile Strength 72 ksi. All welds are performed by an AWS certified welder.

Grip-Tite®
Foundation Pier System

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