

TIE DOWN ENGINEERING, Inc.

Ground Anchor Independent Testing Results

Model No.	Description of Test	Ultimate Strength	Working Load	Soil Class	Test Date
MI2H P/N 59080 P/N 59085	Vertical pullout in moist silty clay. Test probe torque value between 200-349 inch pounds.	6,133# (AVG.)	4,109#	2,3, & 4	9/15/92
MI22 P/N 59090 P/N 59095	Vertical pullout in silty sand and gravel test probe torque value 500 inch pounds and more.	5,733# (AVG.)	3,841#	2	9/15/92
MRA P/N 59110	Vertical pullout in laboratory fixtures for simulation, unconfirmed rock was not available.	5,567#	3,733#	1	3/2/93
MICS2 P/N 59125	Vertical pullout in 2400 PSI cured concrete. Test stopped at 5,200 pounds.	5,200#	3,484#	NA	3/24/94
MIJ2 P/N 59120	Vertical pullout in 2400 PSI cured concrete. Test stopped at 5,200 pounds.	5,200#	3,484#	NA	3/30/94
MIT2 P/N 59115	Vertical pullout in 2,500 PSI cured concrete. Test stopped at 5,200 pounds.	5,200#	3,484#	NA	3/30/94
MI2H64 P/N 59250	Vertical pullout in silty clay. Test probe torque value between 200-340 inch pounds.	5,200#	3,484#	3, 4	10/6/93
ML P/N 59292	45 degree pull on stabilizer plate in silty clay. Test probe torque value between 200-349 inch pounds.	6,067# (AVG)	3,484#	NA	8/5/92
H607 P/N 59099	Vertical pullout in silty sand. Test probe torque between 175-275 inch pounds.	6633# (AVG)	4,444#	2,3,4	5/22/95

NOTE: Minimum Factored Load (Ultimate Strength) is 4,725 lbs.
Minimum Nominal Load (Working Load) is 3,200 lbs.

Nominal Load: load specified by code or standard; usually defined with reference to some possibility of being exceeded.

Factored Load: the product of the nominal load and a load factor.

Load Factor: A factor that accounts for unavoidable deviations of the actual load from the nominal value and the uncertainties in the analysis that transforms the load into a load effect.

NOTE: All above test were conducted at Atec Associates, Product Testing, Inc. and Gallet & Associates.
The individual test results will be made available upon request. Please forward your request for this information to: TIE DOWN ENGINEERING. 5901 Wheaton Drive, Atlanta, GA 30336.

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