



TL-342

CTL|THOMPSON, INC.
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PRODUCT TESTING REPORTS
TITAN DECK FOOT ANCHORS
TIGA600 AND TIGA900

Prepared For:

intertek

Total Quality. Assured.

130 Derry Court
York, PA 17406

Attention: Mr. Kendall Leaman

Project Number: FC09763.000-470

Report Number: 1605 (Rev. 2)

October 29, 2021



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Subject: Product Testing Report
Titan Deck Foot Anchors
TIGA600 and TIGA900

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CTL|Thompson, Inc. has performed product testing on the products listed below in accordance with the supplied evaluation plan provided by Intertek (Report No: 104057475-YRK-01, dated: 04.23.2020). This report presents the product descriptions, test methods, test data and test summaries of the testing program.

Anchor types for each test were specified by Intertek. Installation instructions were provided by Titan Building Products and are attached in Appendix A. Per client request, testing excluded the load plate (HDKP) as shown in the installation instructions and shop drawings. Testing was only performed fully installed anchors.

Products included in this testing program are as follows:

Manufacturer ID	Shaft Size	Shaft Length	Auger Configuration
TIGA600	19 mm (0.748 in)	600 mm (23.62 in)	60 mm (2.362 in) / 83 mm (3.268 in)
TIGA900		900 mm (35.43 in)	

This report provides the following testing results based on the following test methods:

Main Standard	Reference Standard / Section	Test
AC358	Section 3.11.3, 4.2.2	Torsion
AC336	ASTM D1143 Section 10.1.3	Compression Load Bearing
IBC	ASTM D3689 Section 8.1.2	Tension Load Test



Summary of Testing Results

Standard / Section	Test	Result Summary
AC358 / 4.2.2	Torsion	RTC ¹ = 128.3 ft-lbs
AC336 / 4.3.2 ASTM D1143 / 10.1.3	Compression Load Bearing	Clay (TIGA900) RLC ² = 1,391 lbs Clay (TIGA600) RLC = 1,146 lbs Sand RLC = 6,285 lbs
ASTM D3689 / 8.1.2	Tension Load Test TIGA600	Clay RMLC ³ = 638 lbs Sand RMLC = 3,762 lbs
ASTM D3689 / 8.1.2	Tension Load Test TIGA900	Clay RMLC ³ = 1,244 lbs Sand RMLC = 4,001 lbs

¹ RTC = Reported Torque Capacity

² RLC = Reported Load Capacity (at 0.5" Deflection)

³ RMLC = Reported Maximum Load Capacity

We appreciate the opportunity to work with you on this project. If you have any questions regarding the information provided in this report, please do not hesitate to contact us.

Sincerely,
CTL|THOMPSON, INC.

Ryan S. Beck, P.E.
Associate Engineer
Accredited Laboratory Manager

Reviewed by:

R.B. "Chip" Leadbetter, III, P.E.
Senior Geotechnical Engineer
Accredited Laboratory Director

Report Authorized for Release:

**DOCUMENT APPROVED FOR
RELEASE**

RSB

Oct 29 2021

Revision Log

Date	Revision No.	Explanation	By
09.24.2021	0	Initial Issue	R. Beck, Manager
09.27.2021	1	Include Extra Testing on TIGA600	R. Beck, Manager
10.29.2021	2	Additional Tension Testing on TIGA900	R. Beck, Manager