

TIERRA

June 6, 2019

Commercial Concrete Products
2705 Sammonds Rd.
Plant City, FL 33567-4556

Attn: Mr. Terry Gillis tgillis@commercialconcreteproducts.com

Subject: **Stair Tread Load Test Results**
Tierra Project No: 6111-08-039

Dear Mr. Gillis:

On June 5, 2019, Tierra, Inc. performed load tests on precast concrete stair treads delivered to our office on this date. We understand all specimens were 30 days of age and field cured.

The tests were performed utilizing a four (4) square inch piston located in the center of the tread as per the 2018 **International Building Code**, Chapter 16 *Structural Design*, Section 1607 *Live Loads*, Subsection 1607.1 *General*, Table 1607.1 *Minimum Uniformly Distributed Live Loads, L_o, and Minimum Concentrated Live Loads*, Item 30 – Note f. The load was applied vertically to failure, with a calibrated compression test press.

Two stair treads were tested from each size tread and the average load is reported below.

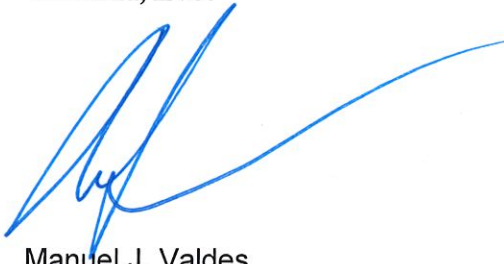
Precast Concrete Stair Treads	
Tread Size (WxLxT)*	Average Failure Load (pounds)
12" x 36" x 2-1/4"	3580
12" x 39-1/2" x 2-1/4"	3380
12" x 42" x 2-1/4"	2890
12" x 44" x 2-1/4"	2750
12" x 48" x 2-1/4"	3130

* Nominal dimensions as provided by client

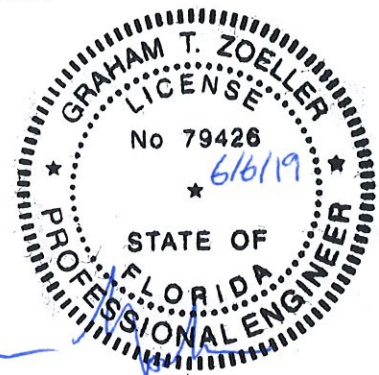
Tierra, Inc. appreciates the opportunity to provide professional services to Commercial Concrete Products. Please call us if you have any questions regarding this report.

Respectfully submitted,

TIERRA, INC.



Manuel J. Valdes
NICET Level IV
Construction Services Department



Graham T. Zoeller, P.E.
Construction Services Manager
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