

# WINGERTER LABORATORIES, INC.

Engineering Testing & Inspection Services  
1820 NE 144th Street, North Miami, FL 33181  
Phone: (305) 944-3401 Fax: (305) 949-8698

10/20/20 jwc

No. 1

**REPORT:** MATERIALS PROPERTIES TEST  
**CLIENT:** Tremron Group  
**PROJECT:** Quality Control 2020  
**LOCATION:** Tremron Miami: 11321 NW 112th Court, Medley, Florida  
**REPORTED TO:** Tremron Group  
1030 Airport Road  
Lakeland, Florida 33811 - Attn: Mahendra Palnati

---

**Type of Test:** Uplift Test on Deck Pavers

**Laboratory Control No:** S-281

**Date of Inspection:** October 20, 2020

**Testing/Equipment Used:** Twenty (20) Ton Enerpac Hydraulic Jack Model #RC-20 Enerpac Hydraulic Hand Pump Model #P-39, Serial No. 1580, Crystal 10,000 psi. Gauge calibrated 02/14/2020.

**ITEMS TESTED:** 1) 4" x 12" x 2.36" Tremron Plank 60 mm Paver set with polymeric sand.

**AREA OF TEST:** Tremron Miami: 11321 NW 112th Court, Medley, Florida

## RESULTS OF INSPECTION:

On this date, as requested and authorized by the client, WINGERTER LABORATORIES, INC. performed our uplift tests on two (2) paver samples at the above mentioned address. The purpose of these tests was to determine the maximum pullout force that could be obtained on each paver sample sand set in their Miami Facility mock-up area.

Test was performed by gluing a wood plate to each paver sample. A load test frame was set up over the plate. A hydraulic jack and steel plate was attached to the wood plate using a connecting rod and screws. The load was slowly applied until the paver either separated from the sand cement bed or the wood bond failed on the paver.

The Test was conducted on sample number 1 and the load from the hydraulic jack was applied continuously until an approximate 694 pound load was reached at which the 4" x 12" Tremron 60 mm plank paver sample separated from the sand bed. This test load is equivalent to a total pullout resistance of at least 2,103 PSF pounds per square foot (psf) for the 4" x 12" paver sample sand set directly over concrete.

Testing was conducted on sample number 2 and the load from the hydraulic jack was applied continuously until an approximate 277 pound load was reached at which the 4" x 12" Tremron 60 mm plank paver sample separated from the sand bed. This test load is equivalent to a total pullout resistance of at least 839 PSF pounds per square foot (psf) for the 4" x 12" paver sample sand set directly over concrete.

**WINGERTER LABORATORIES, INC.**

Engineering Testing & Inspection Services  
1820 NE 144th Street, North Miami, FL 33181  
Phone: (305) 944-3401 Fax: (305) 949-8698

No. 1

**REPORT: MATERIALS ENGINEERING SITE INSPECTION**

**CLIENT:** Tremron Group  
**PROJECT:** Quality Control 2020  
**LOCATION:** Miami Yard: 11321 NW 112th Court, Medley, Florida  
**REPORTED TO:** Tremron Group  
1030 Airport Road  
Lakeland, Florida 33811 - Attn: Mahendra Palnati

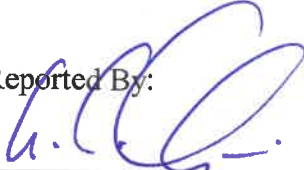
---

**RESULTS OF INSPECTION:**

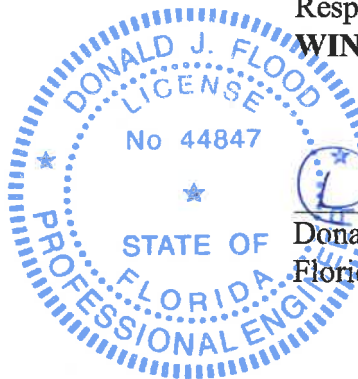
The client's representative was verbally notified of the above results at the time of testing.


We appreciate the opportunity to be service to you during this phase of the project. If you have any questions, please do not hesitate to contact us at: 305-944-3401.

Reported By:

  
Leon Chin-You  
Vice- President  
Building Inspector No. BN-0003292

Respectfully submitted,  
**WINGERTER LABORATORIES, INC.**



<sup>10/20/20</sup>  
  
Donald J. Flood, Jr., P.E.  
Florida Registration No. 44847

Inspector: LR  
Charges: 2 Tests

Order No.: 20-1177