

WINGERTER LABORATORIES, INC.

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

7/14/17 jen

No. 1

REPORT: **MATERIALS PROPERTIES TEST**
CLIENT: Perfect Pavers of South Florida, LLC
PROJECT: Tremron Pavers Uplift Test
LOCATION: 1251 NE 48th St., Pompano Beach, FL 33069
REPORTED TO: Perfect Pavers of South Florida, LLC
Attn: Luke T. Grant
528 N.W. 1st Avenue, Ft. Lauderdale, FL 33301

Type of Test: Uplift Test on Deck Pavers
Laboratory Control No: S-660
Date of Inspection: July 11th, 2017
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 March 2017.

ITEMS TESTED: 1) 24" x 24" x 3/4" Tremron Porcelain Paver set with polymeric sand joints, Alliance Gator 1/4" spacers & Alliance Gator XP Adhesive applied on the spacers and directly to the concrete.
2) 18" X36" x 3/4" Tremron Porcelain Paver sand set on screenings with Polymeric Sand joints, Alliance Gator 1/4" spacers & Alliance Gator XP adhesive only applied on the spacers.

AREA OF TEST: Tremron @ 1251 NE 48th St., Pompano Beach, FL

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 glued to spacer disks directly over concrete.

Test was performed by gluing wood plates 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. See attached sketch for illustration.

Test was conducted and the load from the hydraulic jack was applied continuously until an approximate 2138 pound load was reached at which the 24" x 24" Tremron Porcelain paver sample separated from the adhesive applied Alliance spacers. This test load is equivalent to a total pullout resistance of at least 534 PSF pounds per square foot (psf) for the 24" x 24" paver sample glued down to Alliance spacer directly over concrete.

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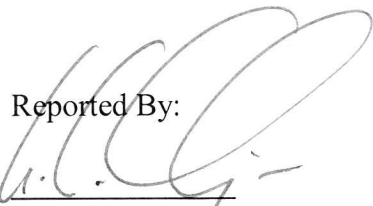
REPORT: MATERIALS ENGINEERING SITE INSPECTION

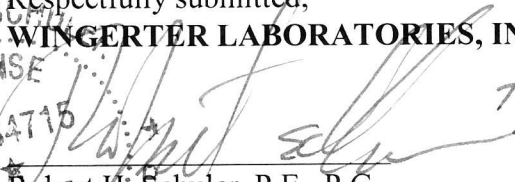
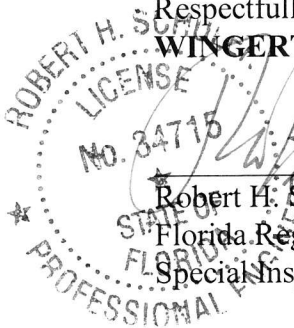
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RESULTS OF INSPECTION:

Test was conducted and the load from the hydraulic jack was applied continuously until an approximate 1979 pound load was reached at which the 18" x 36" Tremron Porcelain Paver sample separated from the adhesive applied Alliance spacer set over sand bed. This test load is equivalent to a total pullout resistance of at least 439 PSF pounds per square foot (psf) for the 18" x 36" paver sample set to adhesive applied Alliance spacers over sand setting bed.

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.

7-24-17
Robert H. Schuler, P.E., P.G.
Florida Registration No. 34715
Special Inspector No. 0400


Inspector: LR
Charges: 2 Tests

Order No.: 17-1262

The original of this report was signed and sealed by the above referenced Florida Registered Professional Engineer in accordance with Rule 61G15-18.011 of the Florida Administrative Code.