

ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT

October 4, 2023

Application Number: FL 29068.1
EX Project Number: 23-62843

Product Manufacturer: DEWALT
Manufacturer Address: 701 East Joppa Road
Townson, Maryland 21286

Product Name & Description: 1/4" CRETE-FLEX SS4, 1/4" ULTRACON SS4 & 1/4" AGGRE-GATOR

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 2 (b). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

EX Performance Evaluation document # 23-62843 titled "1/4" CRETE-FLEX SS4, 1/4" ULTRACON SS4 & 1/4" AGGRE-GATOR", prepared by Engineering Express, Inc., signed & sealed by Richard Neet, P.E. is an integral part of this Evaluation Report, pages 1 through 3.

- **TEST REPORTS**

Fastener tension and shear resistance has been tested in accordance with ASTM E488-90, ASTM E488-96, ASTM E488-11 & ACI 355.2 per test report(s) HETI-08-A262, HETI-08-A264, HETI-08-A279, HETI-08-A281, HETI-08-A242, HETI-08-A248, HETI-08-A236, HETI-08-A230, HETI-08-A260, HETI-08-A275, HETI-08-A277, HETI-08-A222, HETI-08-A226 (signed and sealed by Candido F. Font, PE) by Hurricane Engineering and Testing, Inc. and test report(s) HETI-11-A650, HETI-11-A666, HETI-11-A674 (signed and sealed by Rafael E. Droz-Seda, PE) by Hurricane Engineering and Testing, Inc.

Compressive strength of cylindrical concrete test specimens has been tested in accordance with ASTM C39-86 & 03 per test report(s) HETI-08-C101B, HETI-08-C102A, HETI-08-C101A, HETI-08-C100A (signed and sealed by Candido F. Font, PE) by Hurricane Engineering and Testing, Inc. and test report(s) HETI-11-C162, HETI-11-C163, HETI-11-C164 (signed and sealed by Rafael E. Droz-Seda, PE) by Hurricane Engineering and Testing, Inc.

Salt spray (prohesion) testing has been tested in accordance with ASTM G85 per test report(s) STTS-08001 and STTS-08003 (signed and sealed by Mark Mosbat, PE) by Sub-Tropical Testing Service and test report(s) HETI-11-S100 (signed and sealed by Rafael E. Droz-Seda, PE) by Hurricane Engineering and Testing, Inc.

DEWALT - 1/4" CRETE-FLEX SS4, 1/4" ULTRACON SS4 & 1/4" AGGRE-GATOR

Axial tension testing has been performed in accordance with ASTM E8-01 per test report(s) HETI-08-T147 (signed and sealed by Candido F. Font, PE) by Hurricane Engineering and Testing, Inc. and ASTM F606-11 per test report(s) HETI-12-T100, HETI-12-T101 (signed and sealed by Rafael E. Droz-Seda, PE) by Hurricane Engineering and Testing, Inc.

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Anchor shear capacities
2. Anchor tension capacities

Impact Resistance:

This product has not been tested or designed for impact resistance. Approval of anchor use in impact resistant products shall be per separate testing and engineering.

Load Resistance:

This product has been designed to resist the tension and shear loads as indicated on its respective Performance Evaluation document (i.e. engineering document).

Installation:

The product listed above shall be installed in strict compliance with the Performance Evaluation document (i.e. engineering document), along with all components noted therein.

The product components shall be of the material specified in the Performance Evaluation document (i.e. engineering document).

Limitations & Conditions of Use:

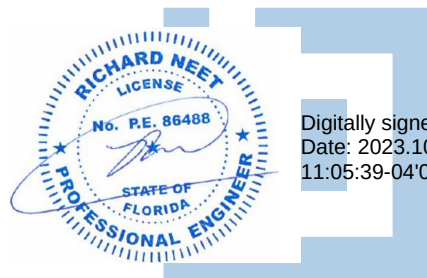
Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions which are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times. Any alteration to the respective Performance Evaluation document will invalidate it. This product has been designed for use inside and outside of the High Velocity Hurricane Zone (HVHZ & NON-HVHZ).

Respectfully,

Richard Neet, P.E.
ENGINEERING EXPRESS®
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Digitally signed by Richard Neet
Date: 2023.10.20
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