

## **ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT**

October 17, 2023

Application Number: FL 39170.1  
EX Project Number: 23-66021

Product Manufacturer: The Hillman Group, Inc.  
Manufacturer Address: 1590 NW 27<sup>th</sup> Ave.  
Pompano Beach, FL

Product Name & Description: Hillman Solid Set™ / All-Points Solid Set™ / Hillman Power Pro®  
Carbon Steel & Stainless Steel Screws

### ***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: (Page 1 of 3)***

- **PRODUCT EVALUATION DOCUMENTS**

EX Performance Evaluation document # 23-66021 titled "HILLMAN SOLID SET™ / ALL-POINTS SOLID SET™ / HILLMAN POWER PRO® CARBON STEEL & STAINLESS STEEL SCREWS", prepared by Engineering Express, Inc., signed & sealed by Richard Neet, P.E. is an integral part of this Evaluation Report, pages 1 through 8.

- **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

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### ***Substantiating Data: (Page 2 of 3)***

- **TEST REPORTS (Page 1 of 2):** The product has been tested per the following:

| Test Lab                                     | Test Report # | Test Standard             | Test Description                                                           | Signed & Sealed By:    |
|----------------------------------------------|---------------|---------------------------|----------------------------------------------------------------------------|------------------------|
| Hurricane Engineering & Testing, Inc. (HETI) | HETI-20-A5046 | ASTM E 488-18 & ACI 355.2 | Fastener Tension and Shear Performance Testing (5/16" Screw CS)            | Rafael Droz-Seda, P.E. |
|                                              | HETI-20-A5047 | ASTM E 488-18 & ACI 355.2 | Fastener Tension and Shear Performance Testing (3/16" Screw CS)            | Rafael Droz-Seda, P.E. |
|                                              | HETI-20-A5048 | ASTM E 488-18 & ACI 355.2 | Fastener Tension and Shear Performance Testing (1/4" Screw CS)             | Rafael Droz-Seda, P.E. |
|                                              | HETI-20-A5050 | ASTM E 488-18 & ACI 355.2 | Fastener Tension and Shear Performance Testing (1/4" Screw 410 SS)         | Rafael Droz-Seda, P.E. |
|                                              | HETI-20-A5052 | ASTM E 488-18 & ACI 355.2 | Fastener Tension and Shear Performance Testing (#14 Male Anchor CS)        | Rafael Droz-Seda, P.E. |
|                                              | HETI-20-A5055 | ASTM E 488-18 & ACI 355.2 | Fastener Tension and Shear Performance Testing (#14 Male Anchor 304 SS)    | Rafael Droz-Seda, P.E. |
|                                              | HETI-20-S421  | ASTM G 85-11, Annex A5    | Corrosion Reistance (Modified Salt Spray) Testing (3/16" Screw CS)         | Rafael Droz-Seda, P.E. |
|                                              | HETI-21-S800  | ASTM G 85-11, Annex A5    | Corrosion Reistance (Modified Salt Spray) Testing (#14 Male Anchor 304 SS) | Rafael Droz-Seda, P.E. |
|                                              | HETI-21-S801  | ASTM G 85-11, Annex A5    | Corrosion Reistance (Modified Salt Spray) Testing (#14 Male Anchor 304 SS) | Rafael Droz-Seda, P.E. |
|                                              | HETI-21-S802  | ASTM G 85-11, Annex A5    | Corrosion Reistance (Modified Salt Spray) Testing (5/16" Screw CS)         | Rafael Droz-Seda, P.E. |
|                                              | HETI-21-S805  | ASTM G 85-11, Annex A5    | Corrosion Reistance (Modified Salt Spray) Testing (1/4" Screw CS)          | Rafael Droz-Seda, P.E. |
|                                              | HETI-21-S806  | ASTM G 85-11, Annex A5    | Corrosion Reistance (Modified Salt Spray) Testing (1/4" Screw 410 SS)      | Rafael Droz-Seda, P.E. |
|                                              | HETI-20-C104  | ASTM C39-21               | Compressive Strength of Cylindrical Concrete Testing                       | Rafael Droz-Seda, P.E. |

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**Substantiating Data: (Page 3 of 3)**

- **TEST REPORTS (Page 2 of 2):** The product has been tested per the following:

| Test Entity                                           | Test Report  | Test Standard                | Test Description                                                                                                                                                                                                                                                             | Signed & Sealed By: |
|-------------------------------------------------------|--------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Hurricane<br>Engineering &<br>Testing, Inc.<br>(HETI) | HETI-22-T620 | ASTM E8-22 &<br>ASTM F606-21 | Standard Test Methods for<br>Tension Testing of Metallic<br>Materials & Standard Test<br>Methods for Determining the<br>Mechanical Properties of<br>Externally and Internally<br>Threaded Fasteners,<br>Washers, Direct Tension<br>Indicators, and Rivets<br>(1/4" CS Screw) | Ram N. Tewari, P.E. |
|                                                       | HETI-22-T621 | ASTM E8-22 &<br>ASTM F606-21 | [See Test Description Above]<br>(#14 Male Panel Mate Screw)                                                                                                                                                                                                                  | Ram N. Tewari, P.E. |
|                                                       | HETI-23-A729 | ASTM E488-22                 | Standard Test Methods for<br>Strength of Anchors in Concrete<br>Elements<br>(3/16" CS Screw,<br>1/4" CS Screw,<br>1/4" 410SS Screw,<br>5/16" CS Screw)                                                                                                                       | Ram N. Tewari, P.E. |
|                                                       | HETI-23-A762 | ASTM E488-22                 | [See Test Description Above]<br>3/16" CS Screw,<br>1/4" CS Screw                                                                                                                                                                                                             | Ram N. Tewari, P.E. |
|                                                       | HETI-23-C727 | ASTM C39-21                  | Compressive Strength of<br>Cylindrical Concrete Testing                                                                                                                                                                                                                      | Ram N. Tewari, P.E. |
|                                                       | HETI-23-C772 | ASTM C39-21                  | Compressive Strength of<br>Cylindrical Concrete Testing                                                                                                                                                                                                                      | Ram N. Tewari, P.E. |
|                                                       | HETI-23-T771 | ASTM E8-22 &<br>ASTM F606-21 | [See Test Description Above]<br>(5/16" CS Screw)                                                                                                                                                                                                                             | Ram N. Tewari, P.E. |
|                                                       | HETI-23-T573 | ASTM E8-22 &<br>ASTM F606-21 | [See Test Description Above]<br>(1/4" 410SS Screw)                                                                                                                                                                                                                           | Ram N. Tewari, P.E. |
|                                                       | HETI-23-T572 | ASTM E8-22 &<br>ASTM F606-21 | [See Test Description Above]<br>(3/16" CS Screw)                                                                                                                                                                                                                             | Ram N. Tewari, P.E. |

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***Impact Resistance:***

Impact Resistance has not been demonstrated through testing or design. Impact resistance of this product shall be certified through separate testing and/or engineering.

***Load Resistance:***

This product has been designed to resist shear and tension 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.

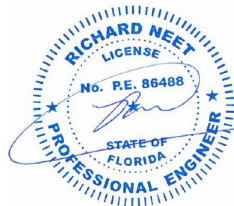
All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions that are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific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

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Richard Neet, P.E.  
**ENGINEERING EXPRESS®**  
#PE86488 | Cert. Auth. 9885



Digitally signed  
by Richard Neet  
Date:  
2023.10.17  
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