



## ENGINEERING EXPRESS® PRODUCT EVALUATION REPORT

September 15, 2020

Application Number: FL #31178.1-R1  
EX Project Number: 20-31532

Product Manufacturer: DiversiTech Corp

Manufacturer Address: 6650 Sugarloaf Pkwy, Suite 100  
Duluth, Ga

Product Name: Hurricane Tie0Down Clips (Steel)  
Product Description: Steel Tie-Down Clip System (For Use with Mechanical Units at Roof or Grade)

### ***Scope of Evaluation:***

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Community Affairs (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 the Florida Building Code Seventh Edition (2020) and is, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

### ***Substantiating Data:***

- **PRODUCT EVALUATION DOCUMENTS**

Drawing #20-31532 titled "Mechanical Unit Steel Tie-Down Clip: At Grade and Roof-Top Mounted Applications", sheets 1-3, prepared by Engineering Express, signed & sealed by Richard Neet, P.E. are an integral part of this Evaluation Report.

- **TEST REPORTS**

Ultimate test loading structural performance has been tested in accordance with Florida Building Code Seventh Edition (2020) - 104.11 and 1707.1 per test report(s) #12-0967 by SGS Testing, Engineering & Consulting Services, Inc. Signed and Sealed by Joshua R. Lloyd, P.E.

- **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. Minimum Allowable Unit Width
2. Maximum Allowable Unit Height
3. Maximum Allowable Unit Surface Area
4. Clip Configuration and Anchor Spacing
5. Anchor Capacity for Various Substrates
6. Maximum allowable roof-top heights for various installation wind speeds

No 33% increase in allowable stress has been used in the design of this product.

DiversiTech Corp.. – Hurricane Tie Down Clips (Steel)

### ***Impact Resistance:***

Not applicable to this product.

### ***Wind Load Resistance***

This product has been designed to resist wind loads as indicated in the design schedule(s) on the Product Evaluation Document (i.e. engineering drawing).

### ***Installation***

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

The product components shall be of the material specified in the Product Evaluation Document (i.e. engineering drawing).

### ***Limitations & Conditions of Use:***

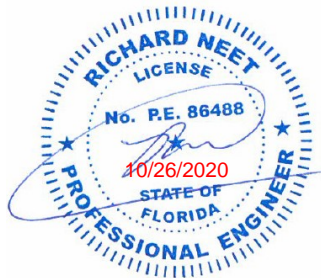
Use of this product shall be in strict accordance with the Product Evaluation Document (i.e. engineering drawing) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in this product's respective anchor schedule. Host structure conditions which are not accounted for in this 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.

This product has been designed for use within and outside of the High Velocity Hurricane Zone (HVHZ).

Respectfully,



Richard Neet, PE  
**ENGINEERING EXPRESS®**  
PE#86488 | Cert. Auth. 9885 (FL)