



# City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universalengineering.com](http://www.universalengineering.com)

## PERMIT CARD - PLEASE POST AT JOB SITE

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

Per FBC 105.3.3: An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies." The issuance of this permit does not grant permission to violate any applicable City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, Plumbing and Mechanical services. This permit becomes VOID if the work authorized is not commenced within 6 months, or is suspended or abandoned for a period of 6 months after commencement. WORK SHALL BE CONSIDERED SUSPENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD. PERMISSION IS GRANTED TO DO THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO COMPLIANCE WITH THE ORDINANCES OF THE CITY OF BELLE ISLE, FLORIDA.

<b>Scope of Work:</b> MECHANICAL: one 3-ton unit change out  <b>Comments:</b> None  <b>Project Information</b> Address: 3006 Trentwood Blvd, FL 32812 Parcel ID: 29-23-30-1876-02-130 Property Owner: Coiglio, Roberta Phone Number: 407 851 2105 ***** Company Name: Del-Air Heating, A/C & Refrigeration Inc Contractor Name: Del Russo, Robert License Number: CAC032448 Address: 531 Codisco Way, Sanford, FL 32771 Phone Number: 407-585-3004	<b>Permit Number: 2015-04-024</b> Date of Application: <u>04/10/2015</u> Date Permit Issued: <u>04/10/2015</u>  <b>WARNING TO OWNER:</b> "YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT." ON THE JOB INSPECTION(S) MUST BE MADE BEFORE PROCEEDING WITH SUBSEQUENT WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL INSPECTIONS HAVE BEEN APPROVED.
--	---

### BUILDING FEATURES

<b>IMPACT FEES</b> School \$ Traffic \$  <b>ZONING FEES</b> Zoning Fee \$  <b>UNIVERSAL ENG - BUILDING FEES</b> Cert of Occ \$ Demo \$ \$ Building \$ \$ Fence \$ \$ Driveway \$ \$ Shed \$ \$ Window(s) \$ \$ Door(s) \$ \$ PrePower \$ \$ Electrical \$ \$ Temp Pole \$ \$ Plumbing \$ \$ Mechanical \$109.50 Gas \$ \$ Roofing \$ \$ Boat Dock \$ \$ Screen Encl \$ \$ Swimming Pool \$ \$ Sign \$ \$  <b>SURCHARGE FEES</b> Surcharge Fee \$2.00 Surcharge Fee \$2.00  <b>TOTAL FEES \$113.50</b>  Date Paid <u>4-13-15</u> CC or Check # <u>VISA 5294</u> Amount Paid <u>113.50</u>  The person accepting this permit shall conform to the terms of the application on file and construction shall conform to the requirements of the Florida Building Code (FS 553).	<b>BUILDING INSPECTOR USE ONLY</b>  IF APPLICABLE: Have Zoning Approval Conditions Been Met? YES NO    Have Stormwater Approval Conditions Been Met? YES NO    Silt fencing in place? YES NO    Turbidity Barrier in place? YES NO  <b>BUILDING</b> 1 <sup>st</sup> _____ (Footing/Foundation) Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? ____ 2 <sup>nd</sup> _____ (Slab) 3 <sup>rd</sup> _____ (Lintel)(Wall Reinforcing on Masonry Building) 4 <sup>th</sup> _____ (Exterior Framing)(Roof/Wall Sheathing) 5 <sup>th</sup> _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed) 6 <sup>th</sup> _____ (Insulation to be Made After Roof Installed) 7 <sup>th</sup> _____ (Drywall) 8 <sup>th</sup> _____ (Sidewalk/Driveway) 9 <sup>th</sup> _____ (Other) 10 <sup>th</sup> _____ (Final - After MEP and Other Applicable Finals)  <b>ROOFING</b> 1 <sup>ST</sup> ROOFING Deck Nailing/Dry-in/Flashing _____ 2 <sup>nd</sup> ROOFING Covering In-Progress _____ 3 <sup>rd</sup> ROOFING Covering Final _____  <b>PLUMBING</b> (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...) 1 <sup>ST</sup> _____ (Underground)    2 <sup>nd</sup> _____ (Sewer) 3 <sup>rd</sup> _____ (Rough-In/Tub Set)    4 <sup>th</sup> _____ (Final)  <b>CHECK APPROPRIATE BOX</b> <input type="checkbox"/> GAS <input type="checkbox"/> Natural <input type="checkbox"/> LP <input type="checkbox"/> MECHANICAL <input type="checkbox"/> ELECTRICAL <input type="checkbox"/> LOW VOLTAGE 1 <sup>st</sup> _____ (Rough-In)    2 <sup>nd</sup> _____ (Final)
--	--

Inspection requests are to be emailed to [BDscheduling@UniversalEngineering.com](mailto:BDscheduling@UniversalEngineering.com); a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 1pm. Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed.

CITY OF BELLE ISLE  
Permit Application Review Sheet

Permit Number	2015-04-024	
Property Owner	Coriglio, Roberta	
Address	3006 Trentwood Blvd	
Nature of Improvement	Mechanical - one 3 ton changeout	
Received Application	4-10-15	
Sent for Stormwater Review		
Stormwater Approved	/	
Sent for Zoning Review		
Zoning Approved	/	
Applied for Variance		
Variance Approved		
Sent to BO for Review	4-10-15	
Building Official Approved	4-10-15 RJ	
<b>Comments</b>		
1.	Susan 4-10-15	review wo # 42439
2.		
3.		
4.		73.00
5.		36.50
6.		<u>109.50</u>
7.		4.00
8.		<u>113.50</u>
9.		
10.		
11.		
12.		



# City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universalengineering.com](http://www.universalengineering.com)

RECEIVED  
4-10-15

## APPLICATION FOR MECHANICAL PERMIT

**WARNING TO OWNER:** YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DATE OF APPLICATION: 4/10/15

PERMIT NUMBER 2015-04-024

PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address: 3006 Trentwood Blvd, Belle Isle FL 32809  32812  
Property Owner: Roberta L. Coaglio, Phone: 407-851-2105  
Property Owner's Mailing Address: 6310 Cornell St, City: Amarillo  
State: TX Zip Code: 79109 Parcel Id Number: 29-23-30-876-02-130

To obtain this information, please visit <http://www.ocpafl.org/Searches/ParcelSearch.aspx>

Class of Building: Old  New  Type of Building: Residential  Commercial  Other   
Type of Work: New  Alteration  Addition  Repair

- REQUIRED certified Tie Down Engineering documentation (can be found at [www.floridabuilding.org](http://www.floridabuilding.org))
- REQUIRED: if adding A/C to new space, provide Energy Calculations & Equipment Sizing Calculations
- REQUIRED: if replacing unit with no duct work, Duct Certification as per FB 101.4.7.1, must be posted on unit

Please indicate the nature of work by completing the information below:

Air Conditioning: # of Units 1 Tons Per Unit 3.0 Total Tons 3.0 ✓  
Type of System: Water to Air  Chiller  Split System  Package  Heat Pump  Estimated Cost \$ \_\_\_\_\_

Heating: # of Units 1 KWS Per Unit 4KW Total KWS 4KW BTU's 27400 Estimated Cost \$ \_\_\_\_\_  
Oil  Electric  Boiler  Gas

(A) Estimated Cost Fee \$6509.00

Fees for items below are based on valuation of all units, equipment, materials and labor supplied by owner or contractor.

Ventilation: (Number of) Grease \_\_\_\_\_ Heat \_\_\_\_\_ Hoods, Air Intakes \_\_\_\_\_ Exhaust Fans \_\_\_\_\_ Dryer Vents \_\_\_\_\_ Estimated Cost \$ \_\_\_\_\_

Refrigeration: Number of units \_\_\_\_\_ Estimated Cost \$ \_\_\_\_\_

Piping: Air \_\_\_\_\_ Vacuum \_\_\_\_\_ Steam \_\_\_\_\_ Chill Water \_\_\_\_\_ Estimated Cost \$ \_\_\_\_\_

Others: (Specify) Hvac Change out no ductwork Estimated Cost \$ \_\_\_\_\_

Was the space previously Air Conditioned? Yes  No  (B) Estimated Cost Fee \$ \_\_\_\_\_

I hereby certify that the above is true and correct to the best of my knowledge and make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances.

LICENSE HOLDER SIGNATURE \_\_\_\_\_ LICENSE # CAC032488  
LICENSE HOLDER NAME Robert Co. DeLuise COMPANY NAME Del Air Heating & AC  
Street Address 531 Codisco way  
City Sanford State FL Zip Code 32771 Phone Number 407-935-9901  
Email Address Salesjobsc@delair.com

Building Official: \_\_\_\_\_ Date 4-10-15  
Verified Contractor's Licenses & Insurance are on file SW Date 4-10-15

Permit Fee	\$ <u>73.00</u>
Review Fee	\$ <u>36.50</u>
3% Florida Surcharge	\$ <u>4.00</u>
Total Permit Fee	\$ <u>113.50</u>

NOTE: The Building Permit Number is required if the Mechanical Installation is associated with any construction or alteration where a Building Permit has been issued. Building Permit Number \_\_\_\_\_

Searches

Sales Search

Results

**Property Record Card**

My Favorites

### 3006 Trentwood Blvd < 29-23-30-1876-02-130 >

Name(s)	Physical Street Address
Giglio Roberta L	3006 Trentwood Blvd
Mailing Address On File	Postal City and Zipcode
6310 Cornell St	Orlando, FL 32812
Amarillo, TX 79109-6704	Property Use
Incorrect Mailing Address?	0103 - Single Fam Class III
	Municipality
	Belle Isle

**Values, Exemptions and Taxes**

Property Features

Sales Analysis

Location Info

M

#### Property Description

DAETWYLER SHORES U/106 LOT 13 BLK B

**Total Land Area** 13,258 sqft (+/-) | 0.30 acres (+/-) GIS Calculated Notice

#### Land (includes working values)

Land Use Code	Zoning	Land Units	Unit Price	Land Value
0100 - Single Family	R-1-AA	1 LOT(S)	\$45,000.00	\$45,000

Page 1 of 1 (1 total records)

#### Buildings (includes working values)

Important Information		Structure	
	<b>Model Code:</b>	01 - Single Fam Residence	<b>Actual Year Built:</b> 1958
	<b>Type Code:</b>	0103 - Single Fam Class III	<b>Beds:</b> 3
	<b>Building Value:</b>	\$104,295	<b>Baths:</b> 1.5
	<b>Estimated New Cost:</b>	\$159,961	<b>Floors:</b> 1

Page 1 of 1 (1 total records)

#### Extra Features (includes working values)

Description	Date Built	Units
PT1 - Patio 1	01/01/1958	1 Unit(s)
CVAL - Aluminum Cover	02/17/1994	204 Square Feet
SHED - Shed	01/01/1997	1 Unit(s)

# Certificate of Product Ratings

AHRI Certified Reference Number: 5187377

Date: 4/10/2015

Product: Split System: Heat Pump with Remote Outdoor Unit-Air-Source

Outdoor Unit Model Number: 14HPX-042-230-18

Indoor Unit Model Number: CBX27UH-042-230\*+TDR

Manufacturer: LENNOX INDUSTRIES, INC.

Trade/Brand name: MERIT

Series name: 14HPX SERIES



Manufacturer responsible for the rating of this system combination is LENNOX INDUSTRIES, INC.

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	43500
EER Rating (Cooling):	13.00
SEER Rating (Cooling):	15.50
Heating Capacity(Btuh) @ 47 F:	43500
Region IV HSPF Rating (Heating):	9.00
Heating Capacity(Btuh) @ 17 F:	27400

FootNote 11 - The AHRI 210/240 certified EER ratings are calculated under the same methodology as the EER ratings at T1 conditions of ISO 5151:2010 and ISO 13253:2011.



\* Ratings followed by an asterisk (\*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

#### DISCLAIMER

AHRI does not endorse the product(s) listed on this Certificate and makes no representations, warranties or guarantees as to, and assumes no responsibility for, the product(s) listed on this Certificate. AHRI expressly disclaims all liability for damages of any kind arising out of the use or performance of the product(s), or the unauthorized alteration of data listed on this Certificate. Certified ratings are valid only for models and configurations listed in the directory at [www.ahridirectory.org](http://www.ahridirectory.org).

#### TERMS AND CONDITIONS

This Certificate and its contents are proprietary products of AHRI. This Certificate shall only be used for individual, personal and confidential reference purposes. The contents of this Certificate may not, in whole or in part, be reproduced; copied; disseminated; entered into a computer database; or otherwise utilized, in any form or manner or by any means, except for the user's individual, personal and confidential reference.

#### CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at [www.ahridirectory.org](http://www.ahridirectory.org), click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.

©2014 Air-Conditioning, Heating, and Refrigeration Institute



AIR-CONDITIONING, HEATING,  
& REFRIGERATION INSTITUTE

we make life better™

CERTIFICATE NO.: 130731347415780089

# BMP International

## 2010 Florida Building Code State Approved, FL 14239-R1 EQUIPMENT TIE DOWNS

TD04	1" x 4" Tie Down Clip, Galv/Powder Coat, 4/Bag
TD06	1" x 6" Tie Down Clip, Galv/Powder Coat, 4/Bag
TD08	1" x 8" Tie Down Clip, Galv/Powder Coat, 4/Bag
TD04SS	1" x 4" Tie Down Clip, Stainless Steel, 4/Bag
TD06SS	1" x 6" Tie Down Clip, Stainless Steel, 4/Bag
TD042L	2" x 4" Tie Down Clip, Galv/Powder Coat, 4/Bag
TD062L	2" x 6" Tie Down Clip, Galv/Powder Coat, 4/Bag
TD062	2" x 6" Fat Cat Clip, Galvanized, 4/Bag

BMP International, Inc., 4710 28th St N, St. Petersburg, FL 33714 - 727-458-0544

**Note:** This file contains approval information from [www.floridabuilding.org](http://www.floridabuilding.org) for BMP tie down clips. Information required by building departments will vary, from listing the approval number, FL14239-R1, on your permit application to submitting copies of the drawings. Consult with the individual building departments for their requirements. This file can be downloaded in PDF format for use. Drawings 1-4 contain the installation instructions.

# Business & Professional Regulation



[Home](#) | [Log In](#) | [User Registration](#) | [Hot Topics](#) | [Submit Search](#) | [About A.F.C.](#) | [Publications](#) | [FAC Chat](#) | [ACIS Site Map](#) | [Links](#) | [Search](#)

**Product Approval**  
 User: Public User

[Product Approval Menu](#) > [Product Approval Search](#) > [Quick Links](#) > Application Detail

FL #	FL14239-R1						
Application Type	Revision						
Code Version	2010						
Application Status	Approved						
Comments							
Archived	<input type="checkbox"/>						
<b>Product Manufacturer</b>	<b>BMP International Inc.</b>						
Address/Phone/Email	4710 28th Street N St. Petersburg, FL 33714 (727) 458-0544 benmeng@yahoo.com						
Authorized Signature	Xianbin Meng benmeng@yahoo.com						
Technical Representative Address/Phone/Email							
Quality Assurance Representative Address/Phone/Email							
<b>Category</b>	<b>Structural Components</b>						
<b>Subcategory</b>	Anchors						
Compliance Method	Evaluation Report from a Florida Registered Architect or Licensed Florida Professional Engineer <input checked="" type="checkbox"/> Evaluation Report - Hardcopy Received						
Florida Engineer or Architect Name who developed the	Frank L. Bernardo, P.E.						
Evaluation Report							
Florida License	PE-0046549						
Quality Assurance Entity	National Accreditation & Management Institute						
Quality Assurance License Expiration Date	12/31/2013						
Validated By	Ryan J. King, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received						
Certificate of Independence	<a href="#">FL14239-R1_COI_COI.pdf</a>						
Referenced Standard and Year: (of Standard)	<table border="0"> <tr> <td><b>Standard</b></td> <td><b>Year</b></td> </tr> <tr> <td>ASTM D1761-06</td> <td>2006</td> </tr> <tr> <td>ASTM D1761-88</td> <td>2010</td> </tr> </table>	<b>Standard</b>	<b>Year</b>	ASTM D1761-06	2006	ASTM D1761-88	2010
<b>Standard</b>	<b>Year</b>						
ASTM D1761-06	2006						
ASTM D1761-88	2010						
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect <a href="#">FL14239-R1_Equival_Equival.pdf</a>						
Sections from the Code							
Product Approval Method	Method L Option D						
Date Submitted	09/29/2011						
Date Validated	12/12/2011						
Date Pending PBC Approval	12/18/2011						
Date Approved	01/31/2012						

Summary of Products		
FL #	Model, Number or Name	Description
FL14239-R1	Slotted Steel Tie Down Clips, 1" and 2" Models	Steel Tie Down File System (For Use with Mechanical Units at Roof or Grate)
<b>Limits of Use</b> Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistance: N/A Design Pressure: N/A Other: This design provides allowable capacities for the system. The required site-specific design pressure (demand) shall be calculated by others for use with this design.		<b>Installation Instructions</b> <a href="#">FL14239-R1_II_Inst.pdf</a> Verified By: Frank L. Bernardo, P.E. (0046549) Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL14239-R1_EE_Eval.pdf</a> Created by Independent Third Party: Yes



## Product Evaluation Report

November 4, 2011

Application Number: **FL #14239**  
FLB Project Number: **11-BMP-0001-01**

Product Manufacturer: **BMP International**

Manufacturer Address: **4710 28th Street North  
St. Petersburg, FL 33714**

Product Name: **Slotted Steel Tie-Down Clips, 1" and 2" Models**  
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 9N-3.006, F.A.C., for statewide acceptance per Method 1(d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with the 2010 Florida Building Code 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**

FLB drawing #11-BMP-0001-01 titled "Mechanical Unit Steel Tie-Down Clip Capacities: At-Grade and Roof-Top Mounted Applications", sheets 1-4, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

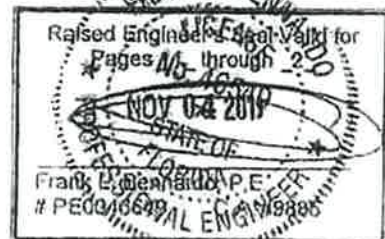
- **TEST REPORTS**

Ultimate test loading structural performance has been tested in accordance with ASTM D1761-88 test standards per test report(s) #TEL 01970387A and #TEL 01970387B by Testing, Evaluation, Laboratories, 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. Maximum Allowable Unit Wind Pressures
2. Minimum Allowable Unit Width
3. Maximum Allowable Unit Height
4. Minimum Unit Weight
5. Maximum Allowable Unit Surface Area
6. Clip Configuration and Anchor Spacing
7. Anchor Capacity for Various Substrates





8. Maximum Allowable Additional Uplift per Clip In Combination with Lateral Forces (For Use with Rooftop Applications)

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

**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 the High Velocity Hurricane Zone (HVHZ).

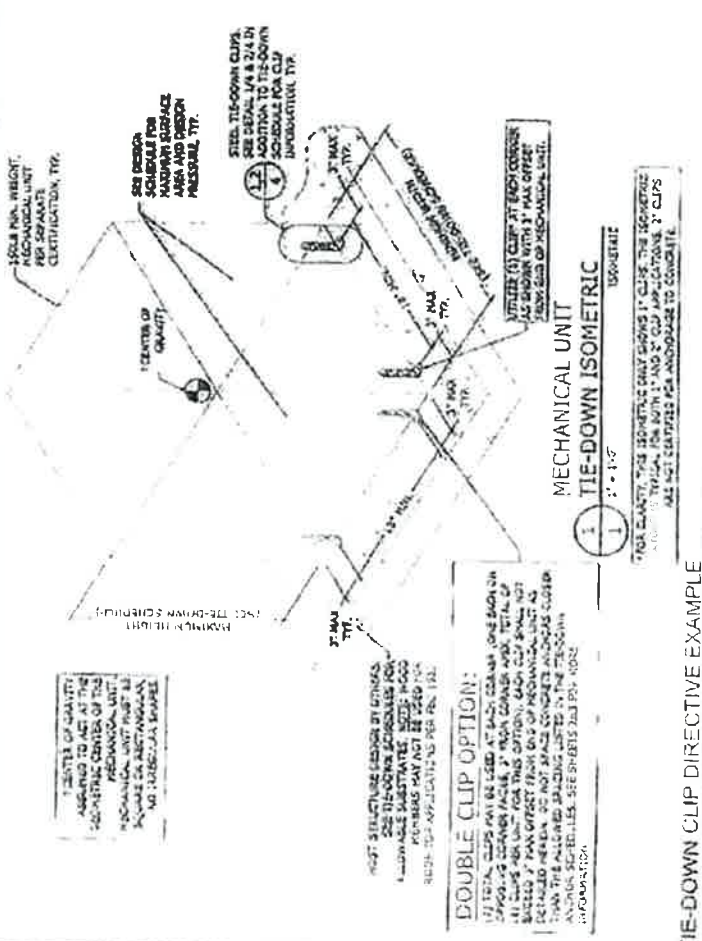
# BMP INTERNATIONAL, INC. MECHANICAL UNIT STEEL TIE-DOWN CLIP CAPACITIES: AT GRADE & ROOF-TOP MOUNTED APPLICATIONS



**BMP INTERNATIONAL, INC.**  
4210 20TH STREET NORTH  
ST. PETERSBURG, FL 34711  
PH: (888) 372-7613  
MECHANICAL UNIT STEEL TIE-DOWN CLIPS  
FLORIDA STATEWIDE APPROVAL

DATE	DESCRIPTION
10/11/10	ISSUE FOR PERMIT
10/11/10	ISSUE FOR PERMIT
10/11/10	ISSUE FOR PERMIT
10/11/10	ISSUE FOR PERMIT
10/11/10	ISSUE FOR PERMIT

- GENERAL NOTES:**
1. THIS PRODUCT HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE, PER CHAPTER 6 AND OUTSIDE THE WIND VELOCITY HURRICANE ZONE, NO 33-101A, EXCEPT IN ALTERNATE STATES HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
  2. DESIGN IS BASED ON CLIENT PROVIDED PRODUCT AND TEST REPORT FROM TEST LABORATORIES, INC., NO ALTERATIONS WITHOUT WRITTEN APPROVAL BY LAPOINTE DESIGN REQUIRES TO QUANTIFY CAPACITY OF CLIPS AS LISTED HEREIN. CONDUCTED THROUGH TESTING REPORT DATA AND MATHEMATICAL MODELING FOR CORROSION PROTECTION TO PREVENT ELECTRICAL CONTACT FOR CONSTRUCTION OF THIS PRODUCT.
  3. REQUIRED LATERAL ANCHOR UP/LIT TEST REPORTS ARE REQUIRED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A SITE-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
  4. MAXIMUM & MINIMUM DIMENSIONS AND NOMINAL WEIGHT OF MECHANICAL UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN. ALL MECHANICAL SPECIFICATIONS (CLIMA SPACE, TUNNAGE, ETC.) SHALL BE AS PER THE CONTRACT DOCUMENTS AND ARE THE BUYERS RESPONSIBILITY OF THIS CONTRACT.
  5. FASTENERS TO BE #12 1/4" GRADE 50 CARBON STEEL UNLESS NOTED OTHERWISE. FASTENERS ADAPTED TO HEREIN SHALL BE 110 AND 100 LBS CARBON STEEL ONLY. INSTALLED TO 1/2" MIN CONCRETE. SEE ANCHOR SCHEDULE FOR ANCHOR REQUIREMENTS. ALL FASTENERS SHALL HAVE AN APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTRICAL CONTACT.
  6. FASTENERS SHALL BE ASPH. ARMED STEEL (GRADE 60) WITH  $f_y = 33$  KSI OR EQUIVALENT. ALL FASTENERS SHALL BE INSTALLED AS SHOWN WITH AN APPROVED COAT OF PAINT SHALL BE APPLIED ABOUT CONNECTION WITH AN APPROVED COAT OF PAINT SHALL BE APPLIED ABOUT CONNECTION IN ACCORDANCE WITH THE 2010 IRC SECTIONS 2013.2 AND 2013.3. UNLESS NOTED OTHERWISE.
  7. ALL CONCRETE SPECIFIED HEREIN IS NOT PART OF THIS CERTIFICATION, AS A MINIMUM, ALL CONCRETE SHALL BE STRUCTURAL CONCRETE 4" MIN. THICK AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI, UNLESS NOTED OTHERWISE.
  8. FASTENERS SHALL BE FABRICATED RELATED SECTION FOLLOW THE TRADE & WITH SPECIFIC GRADE 50 CARBON STEEL UNLESS NOTED OTHERWISE.
  9. CONNECTION TO WOOD MEMBERS SHALL BE NOT PERMITTED FOR ROOF-TOP APPLICATIONS PER IRC SECTION 1512.
  10. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE ALL PRESTRESS FROM ELECTRICAL MATERIALS TO PREVENT ELECTRICAL, I.E. ALUMINUM PER F.B.C. OTHERS.
  11. ELECTRICAL GROUNDING, WHEN REQUIRED, TO BE OBSERVED & INSTALLED BY OTHERS.
  12. THE ADEQUACY OF ANY EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS SHALL BE VERIFIED BY THE ON-SITE DESIGN PROFESSIONAL, AND AS NOT INCLUDED IN THIS CERTIFICATION EXCEPT AS EXPLICITLY PROVIDED HEREIN. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
  13. THIS CERTIFICATION IS A DESIGN DOCUMENT AND DOES NOT PROVIDE INFORMATION ON THE FIELD OF INSTALLATION OR THE QUALITY OF WORKMANSHIP. THE CONTRACTOR SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR ALL IN ACCORDANCE WITH THIS DOCUMENT.
  14. WATER-TIGHTNESS OF EXISTING HOST SUBSTRATE SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL VERIFY THE ADEQUACY OF ALL WATERPROOFING MEASURES IN PLACE. THIS DOCUMENT SHALL NOT BE RESPONSIBLE FOR ANY WATERPROOFING OR DAMAGE ISSUES WHICH MAY OCCUR AS A RESULT OF THIS CERTIFICATION. CONTRACTOR SHALL BE FULLY RESPONSIBLE OF THE INSTALLING CONTRACTOR.



**TIE-DOWN CLIP DIRECTIVE EXAMPLE**

THE FOLLOWING EXAMPLE ILLUSTRATES THE PROCEDURE USED TO DETERMINE THE MAXIMUM ALLOWABLE WIND PRESSURE FOR AN AT-GRADE MECHANICAL UNIT THAT COMPLIES WITH THE DESIGN CRITERIA FOR WIND SPEEDS UP TO 140 MPH.

**MECHANICAL UNIT CRITERIA**

CONSIDER THE INSTALLATION OF 12 MECHANICAL UNITS WITH THE FOLLOWING CRITERIA:

- 1. UNIT HEIGHT 30" TO 36" WITH 1" MIN. FREEBOARD
- 2. UNIT WEIGHT 300 LBS PER UNIT
- 3. UNIT AREA 6' X 6' PER UNIT
- 4. UNIT PERIMETER 42' PER UNIT
- 5. UNIT PERIMETER AREA 252' PER UNIT
- 6. UNIT PERIMETER VOLUME 2142' PER UNIT
- 7. UNIT PERIMETER SURFACE AREA 252' PER UNIT
- 8. UNIT PERIMETER SURFACE VOLUME 2142' PER UNIT
- 9. UNIT PERIMETER SURFACE AREA PER UNIT 252'
- 10. UNIT PERIMETER SURFACE VOLUME PER UNIT 2142'
- 11. UNIT PERIMETER SURFACE AREA PER UNIT 252'
- 12. UNIT PERIMETER SURFACE VOLUME PER UNIT 2142'
- 13. UNIT PERIMETER SURFACE AREA PER UNIT 252'
- 14. UNIT PERIMETER SURFACE VOLUME PER UNIT 2142'
- 15. UNIT PERIMETER SURFACE AREA PER UNIT 252'
- 16. UNIT PERIMETER SURFACE VOLUME PER UNIT 2142'

**PROCEDURE:**

CLIP TYPE	CLIP CAPACITY	CLIP TYPE	CLIP CAPACITY
1	1000 LBS	4	1000 LBS
2	1000 LBS	5	1000 LBS
3	1000 LBS	6	1000 LBS
4	1000 LBS	7	1000 LBS
5	1000 LBS	8	1000 LBS
6	1000 LBS	9	1000 LBS
7	1000 LBS	10	1000 LBS
8	1000 LBS	11	1000 LBS
9	1000 LBS	12	1000 LBS
10	1000 LBS	13	1000 LBS
11	1000 LBS	14	1000 LBS
12	1000 LBS	15	1000 LBS
13	1000 LBS	16	1000 LBS
14	1000 LBS	17	1000 LBS
15	1000 LBS	18	1000 LBS
16	1000 LBS	19	1000 LBS
17	1000 LBS	20	1000 LBS



**1' STEEL CLIP TIE-DOWN SCHEDULE: AT GRADE INSTALLATIONS:**

CLIP SIZE	WOOD TO ALUMINUM		WOOD TO STEEL		WOOD TO WOOD		WOOD TO CONCRETE		WOOD TO SHEET METAL	
	CLIP TO WOOD	CLIP TO ALUMINUM	CLIP TO STEEL	CLIP TO WOOD	CLIP TO WOOD	CLIP TO WOOD	CLIP TO CONCRETE	CLIP TO SHEET METAL	CLIP TO SHEET METAL	CLIP TO WOOD
1/2"	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75
3/4"	13.25	13.25	13.25	13.25	13.25	13.25	13.25	13.25	13.25	13.25
1"	14.75	14.75	14.75	14.75	14.75	14.75	14.75	14.75	14.75	14.75
1 1/4"	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75
1 1/2"	19.25	19.25	19.25	19.25	19.25	19.25	19.25	19.25	19.25	19.25
1 3/4"	20.75	20.75	20.75	20.75	20.75	20.75	20.75	20.75	20.75	20.75
2"	22.25	22.25	22.25	22.25	22.25	22.25	22.25	22.25	22.25	22.25
2 1/4"	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75
2 1/2"	25.25	25.25	25.25	25.25	25.25	25.25	25.25	25.25	25.25	25.25
2 3/4"	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75
3"	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25

1' STEEL CLIP TIE-DOWN SCHEDULE: AT GRADE INSTALLATIONS: (1) 1" MIN. THICKNESS (2) 1/2" MIN. THICKNESS (3) 3/4" MIN. THICKNESS (4) 1" MIN. THICKNESS (5) 1 1/4" MIN. THICKNESS (6) 1 1/2" MIN. THICKNESS (7) 1 3/4" MIN. THICKNESS (8) 2" MIN. THICKNESS (9) 2 1/4" MIN. THICKNESS (10) 2 1/2" MIN. THICKNESS (11) 2 3/4" MIN. THICKNESS (12) 3" MIN. THICKNESS

**ANCHOR SCHEDULE:**

ANCHOR TYPE	ANCHOR SIZE	ANCHOR LENGTH	ANCHOR WEIGHT
1"	1/2"	11.75	0.15
1 1/4"	1/2"	13.25	0.15
1 1/2"	1/2"	14.75	0.15
1 3/4"	1/2"	17.75	0.15
2"	1/2"	19.25	0.15
2 1/4"	1/2"	20.75	0.15
2 1/2"	1/2"	22.25	0.15
2 3/4"	1/2"	23.75	0.15
3"	1/2"	25.25	0.15

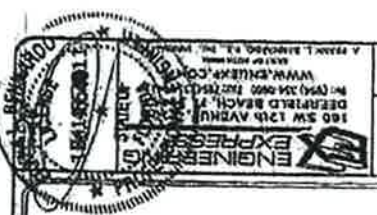
**2' STEEL CLIP TIE-DOWN SCHEDULE: AT GRADE INSTALLATIONS:**

CLIP SIZE	WOOD TO ALUMINUM		WOOD TO STEEL		WOOD TO WOOD		WOOD TO CONCRETE		WOOD TO SHEET METAL	
	CLIP TO WOOD	CLIP TO ALUMINUM	CLIP TO STEEL	CLIP TO WOOD	CLIP TO WOOD	CLIP TO WOOD	CLIP TO CONCRETE	CLIP TO SHEET METAL	CLIP TO WOOD	
1/2"	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75
3/4"	13.25	13.25	13.25	13.25	13.25	13.25	13.25	13.25	13.25	13.25
1"	14.75	14.75	14.75	14.75	14.75	14.75	14.75	14.75	14.75	14.75
1 1/4"	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75
1 1/2"	19.25	19.25	19.25	19.25	19.25	19.25	19.25	19.25	19.25	19.25
1 3/4"	20.75	20.75	20.75	20.75	20.75	20.75	20.75	20.75	20.75	20.75
2"	22.25	22.25	22.25	22.25	22.25	22.25	22.25	22.25	22.25	22.25
2 1/4"	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75
2 1/2"	25.25	25.25	25.25	25.25	25.25	25.25	25.25	25.25	25.25	25.25
2 3/4"	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75
3"	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25

2' STEEL CLIP TIE-DOWN SCHEDULE: AT GRADE INSTALLATIONS: (1) 1" MIN. THICKNESS (2) 1 1/4" MIN. THICKNESS (3) 1 1/2" MIN. THICKNESS (4) 1 3/4" MIN. THICKNESS (5) 2" MIN. THICKNESS (6) 2 1/4" MIN. THICKNESS (7) 2 1/2" MIN. THICKNESS (8) 2 3/4" MIN. THICKNESS (9) 3" MIN. THICKNESS

**ANCHOR SCHEDULE:**

ANCHOR TYPE	ANCHOR SIZE	ANCHOR LENGTH	ANCHOR WEIGHT
1"	1/2"	11.75	0.15
1 1/4"	1/2"	13.25	0.15
1 1/2"	1/2"	14.75	0.15
1 3/4"	1/2"	17.75	0.15
2"	1/2"	19.25	0.15
2 1/4"	1/2"	20.75	0.15
2 1/2"	1/2"	22.25	0.15
2 3/4"	1/2"	23.75	0.15
3"	1/2"	25.25	0.15

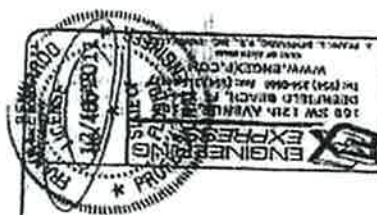


**BMP INTERNATIONAL, INC.**  
 4210 28TH STREET NORTH  
 ST. PETERSBURG, FL 34421  
 PH: (727) 577-1610  
 MECHANICAL UNIT STEEL TIE-DOWN CLIPS  
 FLORIDA STATEWIDE APPROVAL

PROJECT NO.	11-BMP-0001
DATE	01/11/11
DESCRIPTION	MECHANICAL UNIT STEEL TIE-DOWN CLIPS



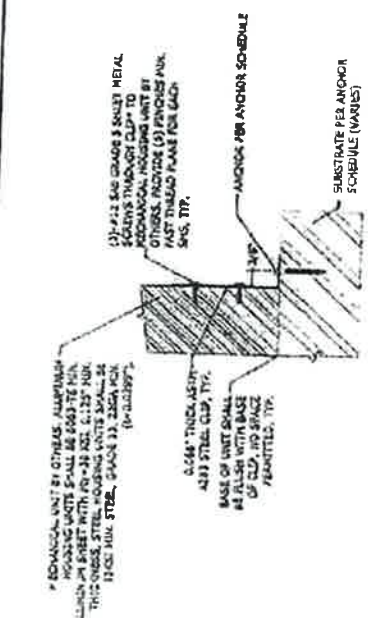




**BMP INTERNATIONAL, INC.**  
 4210 20TH STREET NORTH  
 ST. PETERSBURG, FL 33721  
 MI: (877) 577-1613  
 100 SW 12TH AVENUE  
 SUITE 200 MIAMI, FL 33130  
 WWW.BMP-INTL.COM  
 10/16/2010

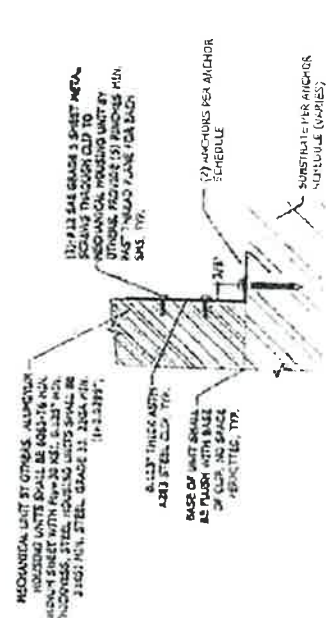
NO.	DATE	DESCRIPTION
1	10/16/2010	ISSUED FOR PERMITS
2	10/16/2010	REVISED PER COMMENTS
3	10/16/2010	REVISED PER COMMENTS
4	10/16/2010	REVISED PER COMMENTS

11-BMP-0001  
 4



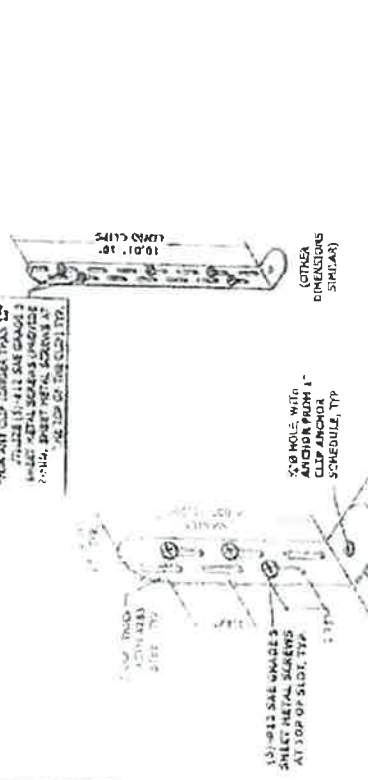
**1" TIE-DOWN CLIP ANCHOR DETAIL**  
 1 2" x 1/2"

CLIP IS DESIGNED FOR FULL CONTACT WITH THE BASE OF EACH MECHANICAL UNIT, TYP.



**2" TIE-DOWN CLIP ANCHOR DETAIL**  
 1 2" x 1/2"

CLIP IS DESIGNED FOR FULL CONTACT WITH THE BASE OF EACH MECHANICAL UNIT, TYP.



**1" CLIP ISOMETRIC DETAIL**  
 1 2" x 1/2"

CLIP IS DESIGNED FOR FULL CONTACT WITH THE BASE OF EACH MECHANICAL UNIT, TYP.



**2" CLIP ISOMETRIC DETAIL**  
 1 2" x 1/2"

CLIP IS DESIGNED FOR FULL CONTACT WITH THE BASE OF EACH MECHANICAL UNIT, TYP.



**BMP INTERNATIONAL, INC**  
4710 28<sup>th</sup> St N, St Petersburg, FL 33714  
Phone: 727-458- 0544

**State Approved Equipment Tie Down - FL14239**

On March 23<sup>rd</sup> 2012 the governor signed HB 704 amending SECTION 16 of the 2010 FBC to the 2007 FBC. See the copy below.

**HB 704 – Relating to the Florida Building Commission and the Florida Building Code**

**Chapter Law Number: Chapter No. 2012-1  
Approved by the Governor 3/23/2012**

**Section 16**

4) Notwithstanding the provisions of this section, exposed mechanical equipment or appliances fastened to a roof or installed on the ground in compliance with the code using rated stands, platforms, curbs, slabs, or other means are deemed to comply with the wind resistance requirements of the 2007 Florida Building Code, as amended. Further support or enclosure of such mechanical equipment or appliances is not required by a state or local official having authority to enforce the Florida Building Code. This subsection expires on the effective date of the 2013 ~~2010~~ Florida Building Code.

The following files from [www.floridabuilding.org](http://www.floridabuilding.org) Code Version 2007, number FL 14239, contain the necessary compliance information for tie down clip approval. The specific information required by building departments may vary. Consult with the individual building department for what portion of the following information is needed for permit approval.

Reviewed for Code  
Compliance  
Universal Engineering

FLORIDA DEPARTMENT OF  
**Business & Professional Regulation**



Florida Department of  
**Business & Professional Regulation**

[BCIS Home](#) | [Log In](#) | [User Registration](#) | [Hot Topics](#) | [Submit Surcharge](#) | [Stats & Facts](#) | [Publications](#) | [FDC Staff](#) | [BCIS Site Map](#) | [Links](#) | [Search](#)



**Product Approval**  
USER: Public User

REGULATORY  
MANAGEMENT  
OFFICE OF THE  
SECRETARY

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > [Application Detail](#)

**FL #** FL14239-RD  
**Application Type** New  
**Code Version** 2007  
**Application Status** Approved  
**Comments**  
 Archived

**Product Manufacturer Address/Phone/Email**  
 BMP International Inc.  
 4710 28th Street N  
 St. Petersburg, FL 33714  
 (727) 458-8544  
 benmeng8@yahoo.com

**Authorized Signature**  
 Xianbin Meng  
 benmeng8@yahoo.com

**Technical Representative Address/Phone/Email**

**Quality Assurance Representative Address/Phone/Email**

**Category** Structural Components  
**Subcategory** Anchors

**Compliance Method**  
 Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer  
 Evaluation Report - Hardcopy Received

**Florida Engineer or Architect Name who developed the Evaluation Report** Kristina S. Daugherty, P.E.  
**Florida License** PE-69455  
**Quality Assurance Entity** National Accreditation & Management Institute,  
**Quality Assurance Contract Expiration Date** 12/31/2013  
**Validated By** Steven M. Ulrich, PE  
 Validation Checklist - Hardcopy Received

**Certificate of Independence** [FL14239 RD COI COI BMP.pdf](#)

**Referenced Standard and Year (of Standard)**

**Equivalence of Product Standards Certified By**

**Sections from the Code** Chapter 23

Product Approval Method Method 2 Option B

Date Submitted 11/05/2010

Date Validated 11/05/2010

Date Pending FBC Approval 11/15/2010

Date Approved 12/07/2010

Date Revised 09/29/2011

**Summary of Products**

FL #	Model, Number or Name	Description
14239.1	A/C Hold Down Clip	A/C Hold Down Clip
<b>Limits of Use</b> Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other:		<b>Installation Instructions</b> <a href="#">FL14239_RO_II_BMP003.pdf</a> Verified By: Kristina S. Daugherty, P.E. 68455 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL14239_RO_AE_PER_1196.pdf</a> Created by Independent Third Party: Yes



Contact Us :: 1940 North Monroe Street, Tallahassee, FL 32399 Phone: 850-497-1414

The State of Florida is an AA/EEO employer. Copyright 2007-2010 State of Florida. :: Privacy Statement :: Accessibility Statement :: Buy/Sold Statement

Under Florida law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions regarding DDPR's ADA web accessibility, please contact our Web Master at [webmaster@ddpr.state.fl.us](mailto:webmaster@ddpr.state.fl.us).

Product Approval Accepts:





# BMP INTERNATIONAL, INC.

## A/C HOLD DOWN CLIP

BMP INTERNATIONAL, INC.

2145 W. FAIRBANKS AVE.  
WINTER PARK, FL 32789  
TEL (407) 944-2816 FAX (407) 944-2818

TITLE: A/C HOLD DOWN CLIP  
INSTALLATION & GENERAL NOTES

PREPARED BY:  
CERTWORKS, LLC  
127 W. FAIRBANKS AVE. STE 438  
WINTER PARK, FL 32789  
TEL: (407) 944-4937 FAX: (407) 944-2818

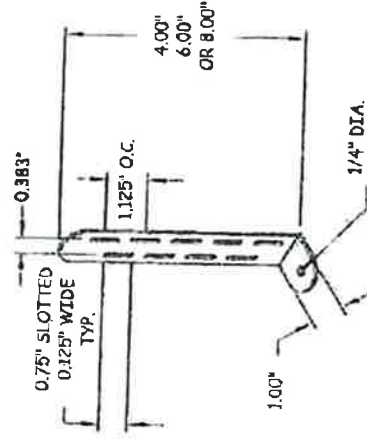
NO.	DESCRIPTION	BY	DATE

REVISIONS

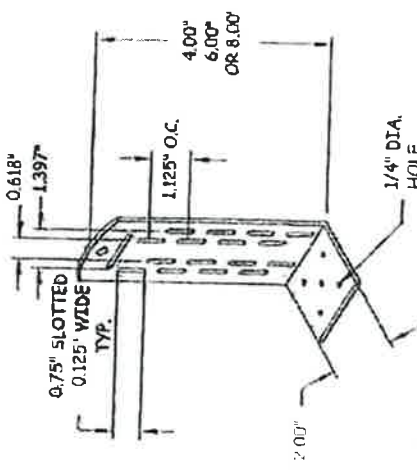


DATE: 09.30.10  
DRAWN BY: [Signature]  
CHK'D BY: KSO  
NTS: SCALE: 1/4" = 1"

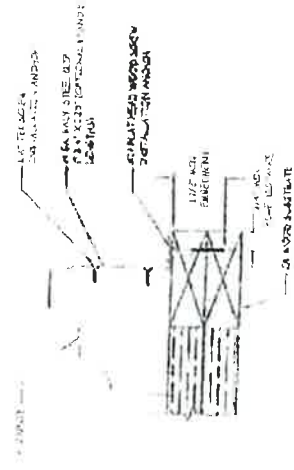
DWG #: **BMPO03**  
SHEET: **1** OF **2**



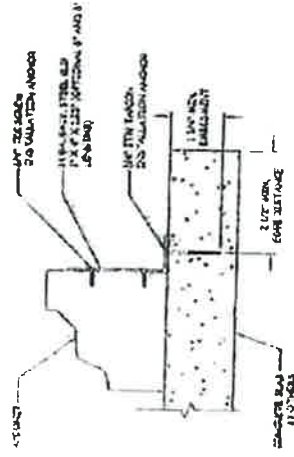
1" CLIP



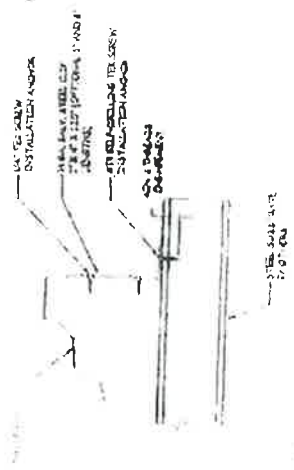
2" CLIP



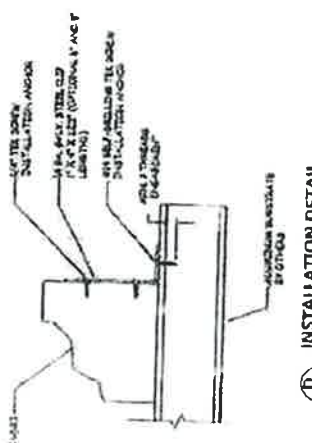
A INSTALLATION DETAIL  
WOOD SUBSTRATE



B INSTALLATION DETAIL  
CONCRETE SUBSTRATE



C INSTALLATION DETAIL  
INSULATION



D INSTALLATION DETAIL  
ALUMINUM SUBSTRATE

BWV INTERNAL, INC.

127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PH: (407) 644-9527  
FAX: (407) 644-2314

PREPARED BY: CERTWORKS, LLC  
DATE: \_\_\_\_\_

REVISIONS

NO. \_\_\_\_\_  
DESCRIPTION \_\_\_\_\_  
DATE \_\_\_\_\_

DATE: \_\_\_\_\_  
DRAWN BY: JLA  
CHECKED BY: KSB  
SCALE: NTS

DWG #:  
SHEET: 2 OF 2

GENERAL NOTES:

1. DESIGN CALCULATIONS WERE BASED ON THE FLORIDA BUILDING CODE 2007 WITH 2009 AMENDMENTS AND ACE 758 OR 12 FOR WIND LOADS AND YIELDING OF 44 MPH AND 135 MPH. AN IMPORTANCE FACTOR OF 1.4 AND EXPOSURE C IS CRITICAL WERE USED IN THE DESIGN.
2. ALL SCREWS USED IN ATTACH CUPS SHALL BE CALUMBIER 4567, SELF DRILLING WITH A MINIMUM HEAD DIAMETER OF 0.135" IN SIZE. ALL SCREWS SHALL BE DRILLED TIGHT AND GAPPED 1/16" MINIMUM.
3. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.
4. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.
5. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.
6. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.
7. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.
8. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.
9. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.
10. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.
11. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.
12. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.

TABLE 1 - CUPS ATTACHED TO SUPPORTING STRUCTURE ON A/C UNIT (145 AMP) - 4 CUPS PER UNIT					
NO.	DESCRIPTION	AMOUNT	UNIT	PER UNIT	TOTAL
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...
11	...	...	...	...	...
12	...	...	...	...	...

NOTE: ALL UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.

NOTE: UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.

NOTE: UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL. UNITS SHALL BE MANUFACTURED OUT OF MINIMUM 33% STEEL THAT IS US GALVALUME 27 OR STAINLESS STEEL.

