



City of Belle Isle
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel. 407-581-8161 * Fax 407-581-0313 * 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.**

Scope of Work: MECHANICAL: c/o 5ton HVAC with no ductwork

Comments: None

Project Information

Address: 1605 Conway Isle Circle, Belle Isle, FL 32809
Parcel ID: 24-23-29-34-9000-140
Property Owner: Smith, Thomas & Jim
Phone Number: 407-852-7016

Company Name: Del-Air Heating, A/C & Refrigeration, Inc.
Contractor Name: Dello Russo, Robert
License Number: CAC032448
Address: 531 Codisco Way, Sanford, FL 32771
Phone Number: 407-333-2665

Permit Number: 2014-07-022

Date of Application: 07/09/2014

Date Permit Issued: 07/11/2014

WARNING TO OWNER: "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

IMPACT FEES

Traffic \$
 School \$

ZONING FEES

Zoning Fee \$

UNIVERSAL ENG - BUILDING FEES

Boat Dock \$
 Boat House \$
 Building \$
 Demo \$
 Door(s) \$
 Driveway \$
 Electrical \$
 Fence \$
 Gas \$
 Irrigation \$
 Low Voltage \$
 Mechanical \$111.00
 Plumbing \$
 Pool \$
 Roofing \$
 Screen Encl \$
 Shed \$
 Temp Pole \$
 Window(s) \$

SURCHARGE FEES

Surcharge Fee \$2.00
 Surcharge Fee \$2.00

TOTAL FEES \$115.00

Date Paid 7-14-14

CC or Check # Visa 5294

Amount Paid 115.00

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).

BUILDING INSPECTOR USE ONLY

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

BUILDING

1st Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? _____ (Footing/Foundation)

2nd _____ (Slab)

3rd _____ (Lintel) Wall Reinforcing on Masonry Building

4th _____ (Exterior Framing) (Roof/Wall Sheathing)

5th _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)

6th _____ (Insulation to be Made After Roof Installed)

7th _____ (Drywall)

8th _____ (Sidewalk/Driveway)

9th _____ (Other)

10th _____ (Final - After MEP and Other Applicable Finals)

ROOFING OSHA APPROVED ACCESS MUST BE MADE AVAILABLE TO INSPECTOR

1ST ROOFING Deck Nailing/Dry-in/Flashing _____

2nd ROOFING Covering In-Progress _____

3rd ROOFING Covering Final _____

PLUMBING (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...)

1ST _____ (Underground) 2nd _____ (Sewer)

3rd _____ (Rough-In/Tub Set) 4th _____ (Final)

CHECK APPROPRIATE BOX

GAS ___ Natural ___ LP ___ MECHANICAL ___ ELECTRICAL ___ LOW VOLTAGE

1st _____ (Rough-In) 2nd _____ (Final)

Inspection requests are to be emailed to 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

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Received
7-9-14

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: 7/8/14 PERMIT NUMBER: 2014-07-022
PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 1605 Conway Isle Cir Belle Isle FL 32809 32812
Property Owner Tomas & JH Smith Phone 407-852-7010
Property Owner's Mailing Address 1605 Conway Isle Cir Belle Isle
State FL Zip Code 32804 Parcel Id Number: 217329340010
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)
- 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 Total Tons 5 Estimated Cost \$ 5000
Type of System: Water to Air Chiller Split System Heat Pump
Heating: # of Units KWS Per Unit 1 Total KWS 4 BTU's 50000 Estimated Cost \$ 5000
Oil Electric Boiler Gas

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) None do no duct work Estimated Cost \$

Was the space previously Air Conditioned? Yes No
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 [Signature] LICENSE # CACB2018
LICENSE HOLDER NAME R. DAVID RUSSO COMPANY NAME del air
Street Address 521 Coarbo way
City Sefted State FL Zip Code 32717 Phone Number 407 333 2405
Email Address rdavrusso@delair.com

Building Official: Angela Preez Date 7-11-2014
Verified Contractor's Licenses & Insurance are on file sq Date 7-9-14

Permit Fee \$ 98.00 74.00
Review Fee \$ 49.00 37.00
3% Florida Surcharge \$ 4.41 4.00
Total Permit Fee \$ 115.00 115.00

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.

CITY OF BELLE ISLE
Permit Application Review Sheet

Permit Number	2014-07-022
Property Owner	Smith
Address	1605 Conway Isle Cir
Nature of Improvement	Mechanical
Received Application	7-9-14
Sent for Stormwater Review	
Stormwater Approved	
Sent for Zoning Review	
Zoning Approved	
Applied for Variance	
Variance Approved	
Sent to BO for Review	7-9-14 0039095
Building Official Approved	7-11-2014
Comments	
1.	7-11-14 sq emailed Lindsey it's ready
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	



COBI Permit Fee Calculation Form

Reviewer Signature: AP. Date: 7-11-2014

Permit Type:	<u>Mechanical</u>	Job Cost:	\$ <u>5,424-</u>
Permit Fee:	\$ <u>98.00</u>		
Plans Review Fee:	\$ <u>49.00</u>	(50% of permit fee – excluding ReRoofs)	
1.5% State Fee:	\$ <u>2.205</u>		
1.5% State Fee:	\$ <u>2.205</u>		
TOTAL BUILDING FEE:	\$ <u>151.41</u>	(does not include Zoning fees or Deposits)	

Note: Total gets doubled for SWO/AFT permits

$\$37 + (\$6 \times 2) = 37 + 12 = \49
 $\$49 \times 2 \text{ (A/c Condenser + Air hand/la)} = \$98 -$
 $\$98 \times 50\% = \$49 + \$98 = \147

**DEL-AIR
HEATING - AIR CONDITIONING
REFRIGERATION, INC.**

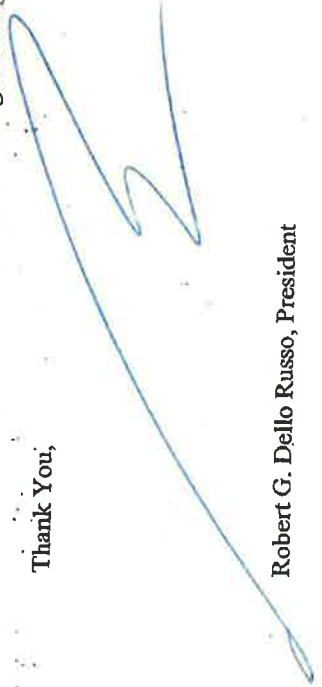
Date 7/8/14

City Of Belle Isle
Building Division

Dear Sir:

This letter is written to give authorization for R. Delo Russo to pull the mechanical permit for Del-Air Heating, Air Conditioning & Refrigeration, Inc for HOUS GRAY WELLS

Thank You,



Robert G. Dello Russo, President

**DEL-AIR HEATING, AIR CONDITIONING &
REFRIGERATION, INC.**

RGDR/jd

Sworn to before me by Robert G. Dello Russo
on this 8th day of July, 2014

Mirinda C. Turner
NOTARY PUBLIC
MY COMMISSION EXPIRES 6/14/15



P. O. Box 520522
Longwood, FL 32752-0522
Phone (407)333-COOL (2665)
(407)831-COOL (2665)

**SALES
SERVICE
INSTALLATION**



This combination qualifies for a Federal Energy Efficiency Tax Credit when placed in service between Feb 17, 2009 and Dec 31, 2013.

Certificate of Product Ratings

AHRI Certified Reference Number: 5187659

Date: 5/9/2014

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

Outdoor Unit Model Number: 14HPX-060-230-18

Indoor Unit Model Number: CBX27UH-060-230*+TDR

Manufacturer: LENNOX INDUSTRIES, INC.

Trade/Brand name: 14HPX SERIES

Series name:

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:



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.

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CERTIFICATE VERIFICATION

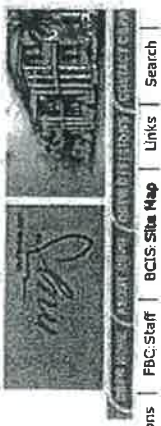
The information for the model cited on this certificate can be verified at www.ahridirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom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

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we make the better®

CERTIFICATE NO.: 130441215141527310



Product Approval
USER: Public User

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

FL # FL14239-R0
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) 458-0544
benmeng8@yahoo.com

Authorized Signature

Xianbin Meng
benmeng8@yahoo.com

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Category Subcategory



Structural Components
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-68455
Quality Assurance Entity National Accreditation & Management Institute,
 12/31/2013
Quality Assurance Contract Expiration Date
Validated By Steven M. Ulrich, PE

Validation Checklist - Hardcopy Received

Certificate of Independence

[FL14239_R0_COI_BMP.pdf](#)

Referenced Standard and Year (of Standard)

Sections from the Code

Chapter 22

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
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other:		
Installation Instructions FL14239_R0_II_BMP003.pdf Verified By: Kristina S. Daugherty, P.E. 68455 Created by Independent Third Party: Yes Evaluation Reports FL14239_R0_AE_PER.1196.pdf Created by Independent Third Party: Yes		



Contacts Us: 1940 North Monroe Street, Tallahassee, FL 32399 Phone: 850-487-1824

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Product Approval Accepts:

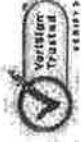


TABLE OF CLIP ATTACHMENT TO SUPPORTING STRUCTURE OR A/C UNIT (155 MPH) - 4 CLIPS PER UNIT		TABLE OF CLIP ATTACHMENT TO SUPPORTING STRUCTURE OR A/C UNIT (155 MPH) - 4 CLIPS PER UNIT		TABLE OF CLIP ATTACHMENT TO SUPPORTING STRUCTURE OR A/C UNIT (155 MPH) - 4 CLIPS PER UNIT	
HEIGHT ABOVE GROUND (FT.)	NUMBER OF SCREWS PER CLIP TO HOUSING OR A/C UNIT (1/4" DIA)	CONCRETE (MIN. 2" THICK)	NUMBER OF SCREWS PER CLIP INTO CONCRETE (MIN. 2" THICK)	HEIGHT ABOVE GROUND (FT.)	NUMBER OF SCREWS PER CLIP TO HOUSING OR A/C UNIT (1/4" DIA)
0-15	2	2	2	0-15	2
20	2	2	2	20	2
25	2	2	2	25	2
30	2	2	2	30	2
35	2	2	2	35	2
40	2	2	2	40	2
45	2	2	2	45	2
50	2	2	2	50	2
55	2	2	2	55	2
60	2	2	2	60	2
65	2	2	2	65	2
70	2	2	2	70	2
75	2	2	2	75	2
80	2	2	2	80	2
85	2	2	2	85	2
90	2	2	2	90	2
95	2	2	2	95	2
100	2	2	2	100	2
105	2	2	2	105	2
110	2	2	2	110	2
115	2	2	2	115	2
120	2	2	2	120	2
125	2	2	2	125	2
130	2	2	2	130	2
135	2	2	2	135	2
140	2	2	2	140	2
145	2	2	2	145	2
150	2	2	2	150	2

NOTES:

1. ABOVE CHART DENOTES NUMBER OF SCREWS PER CLIP, ASSUMING 4 CLIPS PER UNIT, EXCEPT WHERE INDICATED ABOVE. THERE ARE MORE THAN 2 ANCHORS PER CLIP OR MOUNTING INTO THE SUBSTRATE USE ADDITIONAL CLIPS OR USE THE 4 CLIP.
2. FOR STEEL SUPPORTING STRUCTURES, USE SELF-DRILLING GALV. 1/4" X 1 3/4" SCREWS AND QUANTITIES REQUIRED ABOVE NOTED FOR ALUMINUM BACK SCREWS.
3. SPACING OF SCREWS IN A/C HOUSING SHALL BE A MINIMUM OF 1 IN.
5. STAINLESS STEEL SCREWS MAY BE USED WHERE REQUIRED BY GOVERNING AGENCY.

GENERAL NOTES:

1. DESIGN CALCULATIONS WERE BASED ON THE FLORIDA BUILDING CODE 2007 WITH 2009 AMENDMENTS AND WIND LOADS AND VELOCITIES OF 148 MPH AND 155 MPH. AN IMPORTANCE FACTOR OF 1.1 AND EXPOSURE C AS CRITICAL WERE USED IN THE DESIGN.
2. A/C UNIT MAXIMUM SIZE: 4 FT X 4 FT. MINIMUM WEIGHT OF 150 LBS.
3. ALL SCREWS USED TO ATTACH CLIP SHALL BE GALVANIZED A307, SELF-DRILLING WITH A MINIMUM HEAD DIAMETER OF 0.125 IN. SCREWS SHALL BE DRILLED TIGHT, NOT OVER TIGHTENED.
4. TAPCOMS USED TO ATTACH CLIP TO CONCRETE SHALL BE APPROVED WITH A RATED TENSILE STRENGTH OF 460 LBS WITH A MINIMUM EMBEDMENT OF 1 3/4 IN, MINIMUM EDGE DISTANCE OF 2.5", AND MINIMUM CENTER TO CENTER DISTANCE OF 3".
5. WHEN UNIT IS SUPPORTED BY WOOD USE #10 WOOD SCREWS WITH A MINIMUM 1 1/2 IN EMBEDMENT.
6. SCREWS AT THE BOTTOM OF CLIP ATTACHMENT TO SUPPORTING STRUCTURE REQUIRE WASHERS OF 14 GAL. STEEL MINIMUM WITH A YIELD STRENGTH OF 33 KSI.
7. CLIPS SHALL BE MANUFACTURED OUT OF MINIMUM 33 KSI STEEL THAT IS 90° GALVANIZED OR STAINLESS STEEL.
8. UNIT SIZES MAY INCREASE TO 6 FT X 6 FT AND REQUIRE TWO (2) CLIPS AT CORNERS AND MAY NOT BE HIGHER THAN 15 FT FROM GRADE.
9. #12 GALV. SELF-DRILLING SCREWS MAY BE USED ON UNITS WHICH ARE INSTALLED NO HIGHER THAN 40 FT FROM GRADE FOR WIND VELOCITY ZONES ARE 148 MPH OR LESS.
10. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
11. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
 - C. ALUMINUM - MINIMUM 6061-T5 ALLOY (MINIMUM WALL THICKNESS OF 0.125")
 - D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI, MINIMUM WALL THICKNESS OF 33 MILS.
12. CLIPS CAN ALSO BE SUPPLIED IN A POWDER-COATED FINISH.
13. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. DISSIMILAR MATERIALS MUST BE SEPARATED OR COATED IN ACCORDANCE WITH FAC SECTION 2003.8.4.

10/23/2008 10:29 AM
 10/23/2008 10:29 AM
 10/23/2008 10:29 AM

DATE: 06.30.10
DWG BY: JLA
CHK BY: KSD
SCALE: NTS

DWG # BMP003
Sheet 2 of 2

REVISIONS

NO.	DESCRIPTION	BY	DATE

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

PREPARED BY: CERTWORKS, LLC
 127 W. FABRANKS AVE., STE. 438
 WINTER PARK, FL 32789
 PH: (407) 944-9397 FX: (407) 644-2366

BMP INTERNATIONAL, INC.
 6100 24TH STREET, N.
 ST. PETERSBURG, FL 33716
 PH: 772-363-0344

Business & Professional Regulation



FLORIDA DEPARTMENT OF
Business & Professional Regulation
REGULATORY AFFAIRS

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Product Approval
User: Public User

Product Approval Details > Evaluation List > Application Detail

FL # **FL14239-RL**
Application Type **Revision**
Code Version **2010**
Application Status **Approved**
Comments Archived

Product Manufacturer
Address/Phone/Email
BMP International, Inc.
4710 28th Street N
St. Petersburg, FL 33714
(727) 458-0944
benmeng@yahoo.com

Authorized Signature
Xianbin Meng
benmeng@yahoo.com

Technical Representative
Address/Phone/Email

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Structural Components
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 Frank L. Bernardo, P.E.

Evaluation Report
Florida License **PE-0046549**
Quality Assurance Entity **National Accreditation & Management Institute, 12312013**
Quality Assurance Contract Expiration Date
Validated By **Ryan J. King, P.E.**
Validation Checklist - Hardcopy Received

Certificate of Independence

EL14239-RL-COL-001.pdf

Referenced Standard and Year (of Standard)

Standard
ASTM-D1761-06
ASTM-D1761-88
Year
2006
2000

Equivalence of Product Standards
Certified By

Florida Licensed Professional Engineer or Architect
EL14239-RL-Equy-001.pdf

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

09/29/2011

Date Validated

12/13/2011

Date Pending FBC Approval

12/18/2011

Date Approved

01/31/2012

Summary of Products:

FL #	Model, Number or Name	Description
14239-1	Slotted Steel Tie-Down Clips, 1" and 2" Models	Steel Tie-Down Clip System (For Use with Mechanical Units at Roof or Grade)
Limits of Use	Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: 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.	Installation Instructions EL14239-RL-IL-001.pdf Certified By: Frank L. Bernardo, P.E. 0046549 Created by Independent Third Party: Yes Evaluation Reports EL14239-RL-EL-001.pdf 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-3.005, 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.

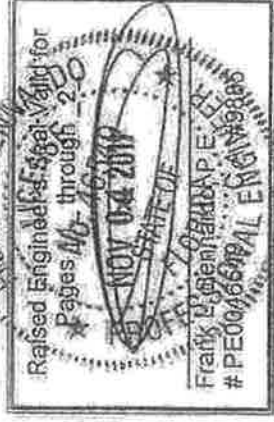
- **TEST REPORTS**

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



160 SW 12TH AVENUE #106 DEERFIELD BEACH, FL 33442
PHONE: 954-354-0660 FAX: 954-354-0443
WWW.ENGEXP.COM

BMP INTERNATIONAL – SLOTTED STEEL TIEDOWN CLIPS 1”/2”

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).

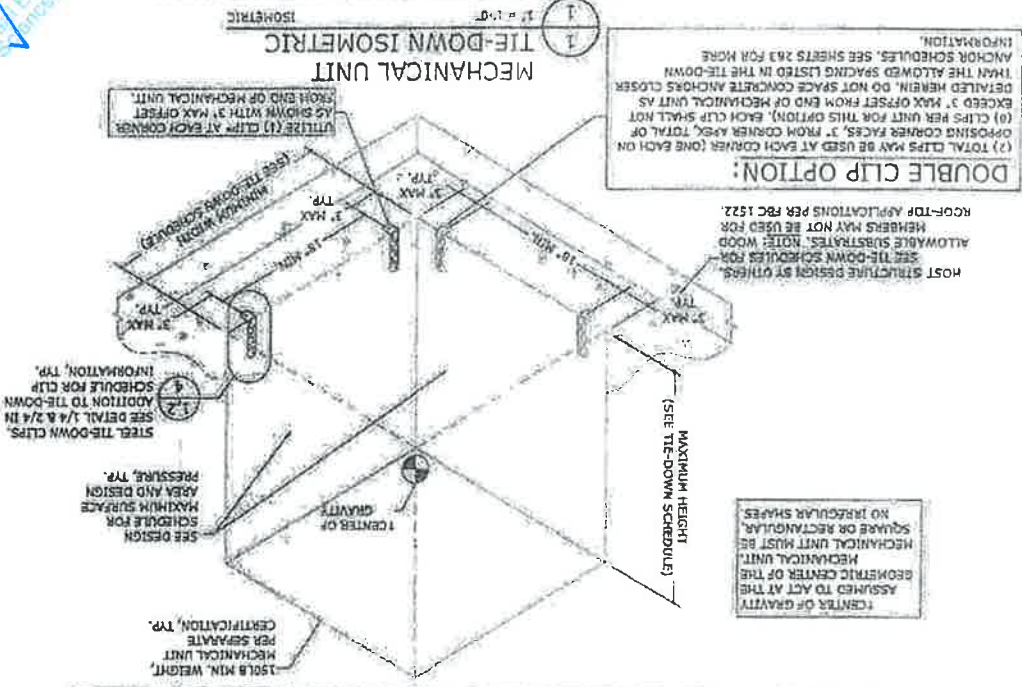
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BMP INTERNATIONAL, INC.

MECHANICAL UNIT STEEL TIE-DOWN CLIP CAPACITIES, AT GRADE & ROOF-TOP MOUNTED APPLICATIONS



TIE-DOWN CLIP DIRECTIVE EXAMPLE

THE FOLLOWING EXAMPLE ILLUSTRATES THE PROCEDURE USED TO DETERMINE THE MAXIMUM ALLOWABLE WIND PRESSURE FOR ANY GIVEN MECHANICAL UNIT THAT CONFORMS TO THE MECHANICAL UNIT CRITERIA.

MECHANICAL UNIT CRITERIA

36" TALL X 36" DEEP X 24" WIDE, 150 LB WEIGHT AS VARYED BY OTHERS, INSTALLED TO 31/2 KSI MIN. CONCRETE AT GRADE AS VARYED BY OTHERS.

PROCEDURE:

PROCEDURE STEP	RESULT
1. LOCATE THE AT GRADE TIE-DOWN SCHEDULE ON SHEET 2 AND SELECT CLIP TYPE	CONSIDER 1" STEEL CLIP
2. DETERMINE LARGEST FACE AREA OF MECHANICAL UNIT TO BE INSTALLED	24" X 36"
3. CHECK PROVISIONS WITH NEAREST MECHANICAL UNIT	UNIT HEIGHT IS 36" WHICH IS LESS THAN THE MAXIMUM ALLOWABLE HEIGHT OF 48"
4. CHECK MINIMUM UNIT WEIGHT REQUIREMENTS	UNIT WEIGHT IS 150 LB WHICH IS GREATER THAN THE MAXIMUM ALLOWABLE WEIGHT OF 120 LB
5. DETERMINE THE NUMBER OF CLIPS TO BE USED AT EACH CORNER OF THE MECHANICAL UNIT	CONSIDER (1) CLIP AT EACH CORNER AND ALLOWED TO CONFORM TO CRITERIA

CONCLUSION: MAXIMUM ALLOWABLE LATERAL DESIGN PRESSURE = **0.027** (COMPARE THIS VALUE TO THE SEPMATE SITE SPECIFIC REQUIRED DESIGN WIND PRESSURE PROVIDED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, NOT INCLUDED IN THIS (CARTOON))

- GENERAL NOTES:**
1. THIS PRODUCT HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. NO 1-1/2% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
 2. DESIGN IS BASED ON CLIENT PROVIDED PRODUCT AND DIE SHEETS FROM TEST REPORTS ATB 0192387A, #TEL 0192387B BY TESTING EVALUATION LABORATORIES, INC. NO SUBSTITUTIONS WITHOUT WRITTEN APPROVAL BY THIS ENGINEER SHALL BE PERMITTED.
 3. ALLOWABLE DESIGN PRESSURES TO QUALIFY CAPACITY OF CLIPS AS LISTED HEREIN ARE DETERMINED THROUGH TESTING REPORT DATA AND RATIONALLY CHECKED FOR CONSISTENCY WITH EACH TEST PERFORMED.
 4. REQUIRED LATERAL AND UPLIFT DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A SITE-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
 5. MAXIMUM DIMENSIONS AND MINIMUM WEIGHT OF MECHANICAL UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TONNAGE, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
 6. FASTENERS TO BE #12 X 3/4" OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. TAPCONNS REFERRED TO HEREIN SHALL BE 1/16" BUILD BRAND, CARBON STEEL ONLY, INSTALLED TO 3192 KSI MIN CONCRETE. SEE ANCHOR SCHEDULE FOR ANCHOR REQUIREMENTS. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS.
 7. ALL STEEL CLIPS SHALL BE ASTM A563 STEEL (GRADE D) WITH Fy = 33 KSI OR BETTER. ALL STEEL MEMBERS SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL OR OTHER APPROVED PROTECTION IN ACCORDANCE WITH THE 2010 FBC SECTIONS 2203.2 AND 2220. G90-RATED COATING REQUIRED FOR ALL COASTAL INSTALLATIONS.
 8. ALL CONCRETE SPECIFIED HEREIN IS NOT PART OF THIS CERTIFICATION. AS A MINIMUM, THE CONCRETE SHALL BE STRUCTURAL CONCRETE 4" MIN. THICK AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3192 PSI, UNLESS NOTED OTHERWISE.
 9. ALL WOOD MEMBERS SHALL BE PRESSURE TREATED SOUTHWEST YELLOW PINE GRADE 2 WITH SPECIFIC GRAVITY G = 0.55 OR GREATER. DIRECT CONNECTION TO WOOD MEMBERS/SLEEPERS IS NOT PERMITTED FOR ROOF-TOP APPLICATIONS PER FBC SECTION 1522.
 10. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISHILLAR MATERIALS TO PREVENT ELECTROLYSIS, I.E. ALUMINUM PER F.B.C. 1003.6.4.
 11. ELECTRICAL GROUNDING, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
 12. THE ADEQUACY OF ANY EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS SHALL BE VERIFIED BY THE ON-SITE DESIGN PROFESSIONAL AND IS NOT INCLUDED IN THIS CERTIFICATION, EXCEPT AS EXPRESSLY PROVIDED HEREIN. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
 13. THE SYSTEM DETAIL HEREIN IS GENERAL AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONNECTION WITH THIS DOCUMENT.
 14. WATER-TIGHTNESS OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ALTERED WATERPROOFING MEMBRANE IS RESTORED AFTER FABRICATION AND INSTALLATION OF STRUCTURE PROPOSED HEREIN. THIS ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY WATERPROOFING OR LEAKAGE ISSUES WHICH MAY OCCUR AS CONTRACTOR.
 15. WATER-TIGHTNESS OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ALTERED WATERPROOFING MEMBRANE IS RESTORED AFTER FABRICATION AND INSTALLATION OF STRUCTURE PROPOSED HEREIN. THIS ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY WATER-TIGHTNESS OF THE INSTALLING CONTRACTOR.

BMP INTERNATIONAL, INC.
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PH: (823) 57-1633

MECHANICAL UNIT STEEL TIE-DOWN CLIPS
FLORIDA STATEBOARD APPROVAL

REGISTERED PROFESSIONAL ENGINEER
No. 40019
12/11/2011

ENGINEERING
180 SW 33RD AVENUE, SUITE 200
DEERFIELD BEACH, FL 33442
PH: (561) 334-6666
WWW.ENGINEER.COM

2" STEEL CLIP TIE-DOWN SCHEDULE: ROOF-TOP MOUNTED INSTALLATIONS

1. THE DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (1)-#12 S&B GRADE 5 SHEET METAL SCREWS.
 2. ALUMINUM HOUSING UNITS SHALL BE 6061-T6 MIN. ALUMINUM SHEET WITH MIN. THICKNESS.
 3. MECHANICAL HOUSING UNIT SHALL COMPLY TO THE FOLLOWING:
 4. MAXIMUM ALLOWABLE WIND PRESSURES FOR EACH INDIVIDUAL SUBSTRATE MAY BE EQUIVALENT DUE TO THE LIMITING CAPACITY OF THE 1" CLIP.
 5. ENGINEERING AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
 6. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ANCHOR		SHEET METAL SCREW TO STEEL	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO CONCRETE
			(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(2) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)			
4 FT	48" MAX	24" MIN	42 PSF	42 PSF	100 PSF	100 PSF	100 PSF
8 FT			41 PSF	41 PSF	100 PSF	100 PSF	100 PSF
9 FT	48" MAX	24" MIN	42 PSF	42 PSF	100 PSF	100 PSF	100 PSF
18 FT			42 PSF	42 PSF	100 PSF	100 PSF	100 PSF
15 FT	60" MAX	48" MIN	42 PSF	42 PSF	100 PSF	100 PSF	100 PSF
30 FT			42 PSF	42 PSF	100 PSF	100 PSF	100 PSF
36 FT	60" MAX	48" MIN	42 PSF	42 PSF	100 PSF	100 PSF	100 PSF
48 FT			42 PSF	42 PSF	100 PSF	100 PSF	100 PSF

(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)
 (2) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)

MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (APPLICABLE TO ROOF MOUNTING)

ANCHOR
 (1)-#12 S&B GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) PINCHES MIN. PAST THREAD FLANGE FOR SHEET METAL SCREW.
 (1)-#14 S&B GRADE 5 SHEET METAL SCREW TO ALUMINUM, PROVIDE (5) PINCHES MIN. PAST THREAD FLANGE FOR SHEET METAL SCREW.

SUBSTRATE
 ALUMINUM (1/4" THICK MIN. 3162 MIN.)
 STEEL (0.125" MIN. THICK, 33 KSI MIN. STEEL)

1" STEEL CLIP TIE-DOWN SCHEDULE: ROOF-TOP MOUNTED INSTALLATIONS

1. THE DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (2)-#12 S&B GRADE 5 SHEET METAL SCREWS. (2)-SHEET METAL SCREWS REQUIRED FOR LONG CLIPS. SEE DETAIL (L-4).
 2. ALUMINUM HOUSING UNITS SHALL BE 6061-T6 MIN. ALUMINUM SHEET WITH MIN. THICKNESS.
 3. MECHANICAL HOUSING UNIT SHALL COMPLY TO THE FOLLOWING:
 4. MAXIMUM ALLOWABLE WIND PRESSURES FOR EACH INDIVIDUAL SUBSTRATE MAY BE EQUIVALENT DUE TO THE LIMITING CAPACITY OF THE 1" CLIP.
 5. ENGINEERING AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
 6. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ANCHOR		SHEET METAL SCREW TO STEEL	SHEET METAL SCREW TO ALUMINUM	TAPCON TO CONCRETE
			(2) CLIPS AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(2) CLIPS AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)			
4 FT	48" MAX	24" MIN	42 PSF	42 PSF	100 PSF	100 PSF	
8 FT			41 PSF	41 PSF	100 PSF	100 PSF	
9 FT	48" MAX	24" MIN	42 PSF	42 PSF	100 PSF	100 PSF	
12 FT			42 PSF	42 PSF	100 PSF	100 PSF	
15 FT	60" MAX	48" MIN	42 PSF	42 PSF	100 PSF	100 PSF	
30 FT			42 PSF	42 PSF	100 PSF	100 PSF	
36 FT	60" MAX	48" MIN	42 PSF	42 PSF	100 PSF	100 PSF	
48 FT			42 PSF	42 PSF	100 PSF	100 PSF	

(2) CLIPS AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)

MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (APPLICABLE TO ROOF MOUNTING)

ANCHOR
 (1)-#14 S&B GRADE 5 SHEET METAL SCREW TO ALUMINUM, PROVIDE (5) PINCHES MIN. PAST THREAD FLANGE FOR SHEET METAL SCREW.
 (1)-#12 S&B GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) PINCHES MIN. PAST THREAD FLANGE FOR SHEET METAL SCREW.

SUBSTRATE
 CONCRETE (1/2" MIN. FULL BORED TO CONCRETE, 3/4" MIN. EDGE DISTANCE, 3/4" MIN. SPACING TO ANY ADJACENT ANCHOR)

ADDITIONAL ALLOWABLE UPLIFT: 90 LBS/CLIP
 (DESIGN TABLE ACCOMMODATES MAX 90 LBS/CLIP AS ADDITIONAL UPLIFT IN COMBINATION WITH UPLIFT CAUSED BY OVERTURNING FROM LATERAL FORCES. SEE ASCE 7-10 SECTION 29.5 FOR MORE INFORMATION.)

ALLOWABLE UPLIFT PER UNIT IS BASED ON THE NUMBER OF CLIPS UTILIZED X 90 LBS/CLIP
 EXAMPLE: 4 CLIPS X 90 LBS/CLIP = 360 LB

TABLE LEGEND:
 (CERTIFICATION)
 (REQUIRED UPLIFT DEMAND SHALL BE DETERMINED ON A SITE SPECIFIC BASIS BY LICENSED ENGINEER OR REGISTERED ARCHITECT, NOT INCLUDED IN THIS SCHEDULE)

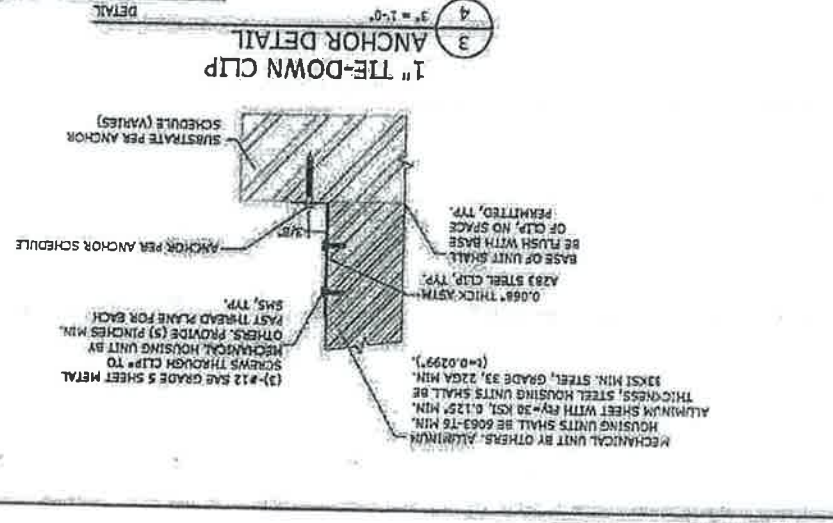
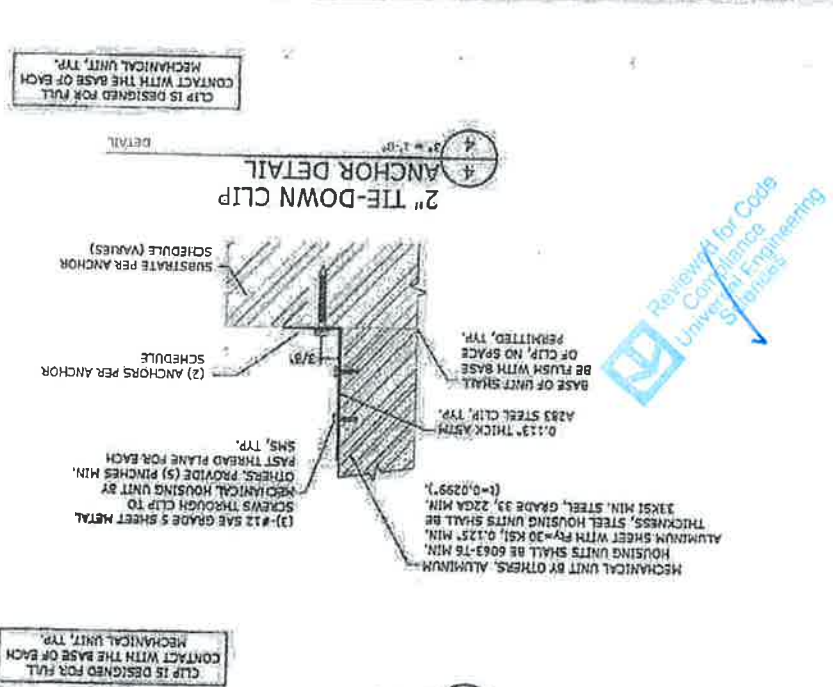
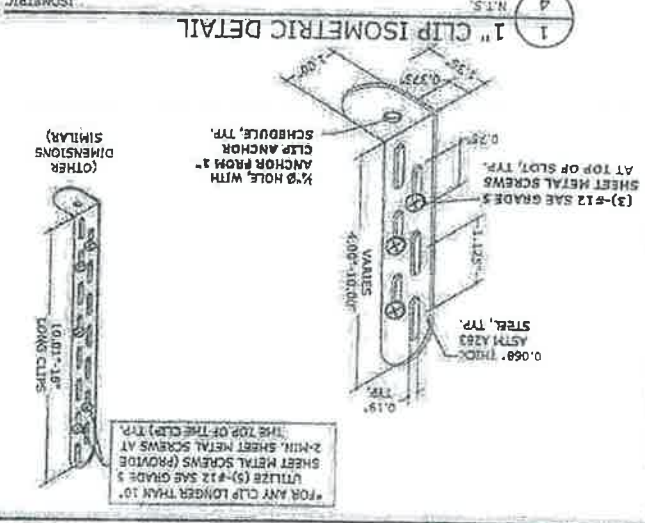
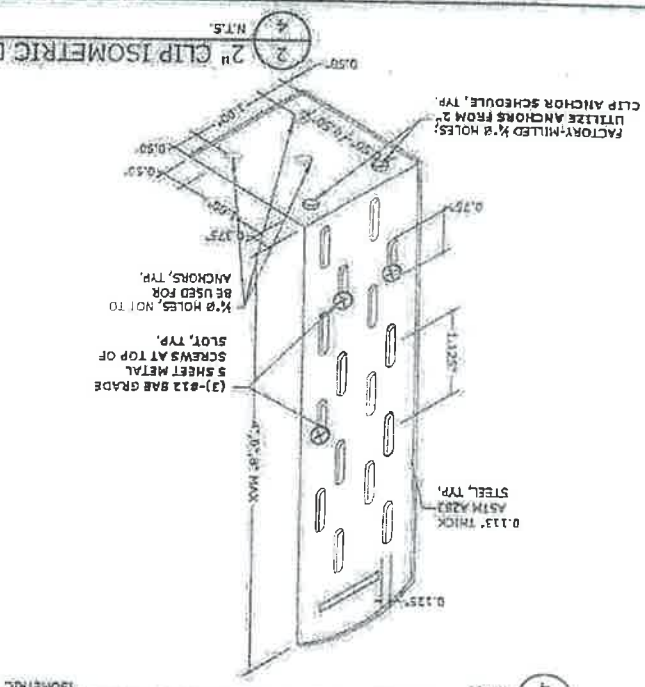
-DENOTES VALUES NOT APPROVED FOR USE

ENGINEERING
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 WWW.ENGINEEREXPRESS.COM

NO. 40649
 10/15/01

FLORIDA STATEWIDE APPROVAL
 MECHANICAL UNIT STEEL TIE-DOWN CLIPS
BMP INTERNATIONAL, INC.
 4210 28TH STREET NORTH
 ST. PETERSBURG, FL 33471
 PH: (727) 577-4613

1.1-BMP-001
 2258-PASS-12/10/01



Reviewed for Code Compliance
University of Engineering
Singapore

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

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

*FOR ANY CLIP LONGER THAN 10" UTILIZE (3) #12 SAE GRADE 5 SHEET METAL SCREWS (PROVIDE 2 MIN. SHEET METAL SCREWS AT THE TOP OF THE CLIP) TYP.

<p>11-BMP-0001</p> <p>MECHANICAL UNIT STEEL TIE-DOWN CLIPS</p> <p>FLORIDA STATEWIDE APPROVAL</p>	<p>BMP INTERNATIONAL, INC.</p> <p>4710 28TH STREET NORTH ST. PETERSBURG, FL 33771 PH: (727) 577-1613</p>	<p>ENGINEERING</p> <p>100 SW 13TH AVENUE, SUITE 200 DORSETFIELD BEACH, FL 33428 PH: (561) 34-9688 INC. (351) 431-1014 WWW.ENRGRNG.COM</p>
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BMP INTERNATIONAL, INC
4710 28th St N, St Petersburg, FL 33714
Phone: 727-458-0544

State Approved Equipment Tie Down - FL14239

On March 23rd 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 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.



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 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.