



# 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 105.33: 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.

<p><b>Scope of Work:</b> MECHANICAL: one 5-ton unit change out</p> <p><b>Comments:</b> None</p> <p><b>Project Information</b>        Address: 6526 St. Partin Place, Belle Isle, FL 32809        Parcel ID: 20-23-30-1678-00-190        Property Owner: Kachmarik, George        Phone Number: 407 438 1639        *****        Company Name: Westbrook Service Corp        Contractor Name: Roberts, James        License Number: CMC1249312        Address: 1411 S. Orange Blossom Trail, Orlando, FL 32805        Phone Number: 407 841 3310</p>	<p style="text-align: right;"><b>Permit Number: 2015-04-037</b></p> <p style="text-align: right;"><b>Date of Application: 04/17/2015</b>  <b>Date Permit Issued: 04/21/2015</b></p> <p><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.</p>
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### BUILDING FEATURES

<p><b>IMPACT FEES</b></p> <p>School \$        Traffic \$</p> <p><b>ZONING FEES</b></p> <p>Zoning Fee \$</p> <p><b>UNIVERSAL ENG - BUILDING FEES</b></p> <p>Cert of Occ \$        Demo \$        Building \$        Fence \$        Driveway \$        Shed \$        Window(s) \$        Door(s) \$        PrePower \$        Electrical \$        Temp Pole \$        Plumbing \$        Mechanical \$145.50        Gas \$        Roofing \$        Boat Dock \$        Screen Encl \$        Swimming Pool \$        Sign \$</p> <p><b>SURCHARGE FEES</b></p> <p>Surcharge Fee \$2.18        Surcharge Fee \$2.18</p> <p style="text-align: center;"><b>TOTAL FEES \$149.86</b></p> <p><b>Date Paid</b> <u>4/21/15</u></p> <p><b>CC or Check #</b> <u>VISA 9994</u></p> <p><b>Amount Paid</b> <u>149.86</u></p> <p>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).</p>	<p style="text-align: center;"><b>BUILDING INSPECTOR USE ONLY</b></p> <p>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</p> <p><b>BUILDING</b></p> <p>1<sup>st</sup> _____ (Footing/Foundation)        Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? _____</p> <p>2<sup>nd</sup> _____ (Slab)</p> <p>3<sup>rd</sup> _____ (Lintel)(Wall Reinforcing on Masonry Building)</p> <p>4<sup>th</sup> _____ (Exterior Framing)(Roof/Wall Sheathing)</p> <p>5<sup>th</sup> _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins &amp; Windows/Doors Installed)</p> <p>6<sup>th</sup> _____ (Insulation to be Made After Roof Installed)</p> <p>7<sup>th</sup> _____ (Drywall)</p> <p>8<sup>th</sup> _____ (Sidewalk/Driveway)</p> <p>9<sup>th</sup> _____ (Other)</p> <p>10<sup>th</sup> _____ (Final – After MEP and Other Applicable Finals)</p> <p><b>ROOFING</b></p> <p>1<sup>ST</sup> ROOFING Deck Nailing/Dry-in/Flashing _____</p> <p>2<sup>nd</sup> ROOFING Covering In-Progress _____</p> <p>3<sup>rd</sup> ROOFING Covering Final _____</p> <p><b>PLUMBING</b> (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...)</p> <p>1<sup>ST</sup> _____ (Underground)    2<sup>nd</sup> _____ (Sewer)</p> <p>3<sup>rd</sup> _____ (Rough-In/Tub Set)    4<sup>th</sup> _____ (Final)</p> <p><b>CHECK APPROPRIATE BOX</b></p> <p><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</p> <p>1<sup>st</sup> _____ (Rough-In)    2<sup>nd</sup> _____ (Final)</p>
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Inspection requests are to be emailed to [BI scheduling@UniversalEngineering.com](mailto:BI scheduling@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	2015-04-037
Property Owner	6526 St. Martin Place
Address	KACHMARIK, George
Nature of Improvement	Mechanical - one 5-ton changeout
Received Application	4-17-15
Sent for Stormwater Review	
Stormwater Approved	
Sent for Zoning Review	
Zoning Approved	
Applied for Variance	
Variance Approved	
Sent to BO for Review	4-17-15
Building Official Approved	Richard Okes via email 4-17-15
Comments	
1.	Susan 4-17-15 emailed we need all credentials ✓
2.	review wo # 49894
3.	NOC ✓
4.	Susan 4-20-15 all cred rec'd ✓
5.	Susan 4-21-15 emailed it's ready ✓
6.	
7.	
8.	
9.	
10.	
11.	
12.	



# City of Belle Isle

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

RECEIVED  
4-17-15

## 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: 04/16/15

PERMIT NUMBER 2015-04-037

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

Project Address 6526 St. Partin Place, Belle Isle FL  32809  32812  
Property Owner George Kachmarik Phone 407-438-1639  
Property Owner's Mailing Address 6526 St. Partin Place City Belle Isle  
State Florida Zip Code 34812 Parcel Id Number: 20-23-30-1678-00-190

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

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

- REQUIRED Tie Down Engineering and Equipment Sizing Calculation
- REQUIRED, adding A/C to new space - provide Energy 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 5.0 Total Tons 5.0  
Type of System: Water to Air  Chiller  Split System  Package  Heat Pump  Estimated Cost \$ 12,395

Heating: # of Units KWS Per Unit 1 Total KWS 9 BTU's \_\_\_\_\_ Estimated Cost \$ \_\_\_\_\_  
Oil \_\_\_\_\_ Electric 1 Boiler \_\_\_\_\_ Gas \_\_\_\_\_

(A) Estimated Cost Fee \$ \_\_\_\_\_

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) A/C Change Out (Straight Cool), 19.5 SEER. No Duct Work 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 [Signature] LICENSE # CMC1249312

LICENSE HOLDER NAME James Roberts COMPANY NAME Westbrook Service Corp

Street Address 1411 S. Orange Blossom Trail

City Orlando State Florida Zip Code 32805 Phone Number (407) 841-3310

Email Address sWilliams@westbrookfl.com

Building Official: Richardolds Date 4-17-15  
*via email*

Review & Permit Fee \$ 145.50  
3% Florida Surcharge \$ 4.36  
Total Permit Fee \$ 149.86

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 \_\_\_\_\_

2015-04-037



# COBI Permit Fee Calculation Form



Reviewer Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Permit Type: \_\_\_\_\_ Job Cost: \$ 12,395  
5 TONS

Permit Fee: \$ 97.-

Plans Review Fee: \$ 48.50 (50% of permit fee – excluding ReRoofs)

1.5% State Fee: \$ 2.18

1.5% State Fee: \$ 2.18

**TOTAL BUILDING FEE:** \$ 149.86 (does not include Zoning fees or Deposits)  
 Note: Total gets doubled for SWO/AFT permits

3 tons  
+ 2 tons @ 12.-

$$\begin{array}{r}
 73.- \\
 24.- \\
 \hline
 97.- \\
 48.50 \\
 \hline
 145.50
 \end{array}
 \div 2 =
 \begin{array}{r}
 2.18 \\
 2.18 \\
 \hline
 4.36
 \end{array}$$

THIS INSTRUMENT PREPARED BY:  
Name: Stephen Williams  
Address: 1411 S. Orange Blossom Trail Orlando, FL 32805  
(407) 841-3310

DOCN 20150188671 B: 10904 P: 9070  
04/16/2015 01:03:12 PM Page 1 of 1  
Rec Fee: \$10.00  
Martha O. Haynie, Comptroller  
Orange County, FL  
MB - Ret To: WESTBROOK SERVICE CORPORA

# NOTICE OF COMMENCEMENT



Permit Number: \_\_\_\_\_  
Parcel ID Number: 20-23-30-1678-00-190

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

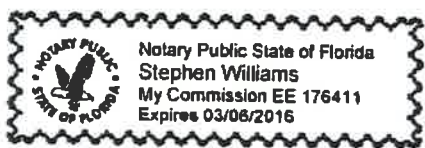
- DESCRIPTION OF PROPERTY:** (Legal description of the property and street address if available)  
Residential - 6526 St. Partin Place - Conway Lakes 8/3 Lot 19 & PT of Lot 27 in Landings at Lake Conway 9/125-126  
Desc As From SE Cor of Lot 27 Run N 175.41 Ft for POB Cont N 87.60 Ft W 36.51 Ft S 16 Deg W 12.70 Ft S 36 Deg  
W 34.73 Ft 51 Deg E 76.84 Ft to POB
- GENERAL DESCRIPTION OF IMPROVEMENT:**  
A/C Change Out
- OWNER INFORMATION OR LESSEE INFORMATION IF THE LESSEE CONTRACTED FOR THE IMPROVEMENT:**  
Name and address: George Kachmarik - 6526 St. Partin Place Belle Isle Fl. 32812  
Interest in property: Owner  
Fee Simple Title Holder (if other than owner listed above) Name: \_\_\_\_\_  
Address: \_\_\_\_\_
- CONTRACTOR:** Name: James Roberts/Westbrook Services Phone Number: (407) 841-3310  
Address: 1411 S. Orange Blossom Trail Orlando, FL 32805
- SURETY (If applicable, a copy of the payment bond is attached):** Name: \_\_\_\_\_  
Address: \_\_\_\_\_ Amount of Bond: \_\_\_\_\_
- LENDER:** Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Address: \_\_\_\_\_
- Persons within the State of Florida Designated by Owner upon whom notice or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes.**  
Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Address: \_\_\_\_\_
- In addition, Owner designates \_\_\_\_\_ of \_\_\_\_\_  
to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes. Phone number: \_\_\_\_\_
- Expiration Date of Notice of Commencement (The expiration is 1 year from date of recording unless a different date is specified) \_\_\_\_\_

**WARNING TO OWNER:** ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN 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 COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

[Signature] \_\_\_\_\_  
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager  
George Kachmarik  
(Print Name and Provide Signatory's Title/Office)

State of Florida County of Orange  
The foregoing instrument was acknowledged before me this 16<sup>th</sup> day of APR 2, 2015  
by George Kachmarik Name of person making statement Who is personally known to me  OR  
who has produced identification  type of identification produced: FD 2



[Signature]  
Notary Signature 376506

State of FLORIDA, County of ORANGE  
I hereby certify that this is a true copy of the document as reflected in the Official Records.  
MARTHA O. HAYNIE, COUNTY COMPTROLLER  
By [Signature] Deputy Comptroller  
APR 16 2015



### LIMITED POWER OF ATTORNEY

Date: 04/16/15

I hereby name and appoint: Stephen Williams

an agent of: Westbrook Service Corp  
(Name of Company)

to be my lawful attorney-in-fact to act for me to apply for, receipt for, sign for and do all things necessary to this appointment for (check only one option):

All permits and applications submitted by this contractor.

Or

The specific permit and application for work located at:

6526 St. Partin Place

(Street Address)

20-23-30-1678-00-190

(Parcel ID)

Expiration Date for This Limited Power of Attorney: 12-31-15

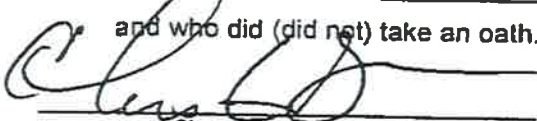
License Holder Name: James Roberts

State License Number: CMC1249312

Signature of License Holder: 

STATE OF FLORIDA  
COUNTY OF Orange

The foregoing instrument was acknowledged before me this 16 day of April, 2015, by James Roberts/Westbrook Service Corp who is  personally known to me or  who has produced \_\_\_\_\_ as identification and who did (did not) take an oath.

  
Signature of Notary

Christina Glover  
Print or type Notary name

Notary Public - State of \_\_\_\_\_

Commission No. \_\_\_\_\_

My Commission Expires: \_\_\_\_\_



# Certificate of Product Ratings

AHRI Certified Reference Number: 5947488

Date: 4/15/2015

Product: Split System: Air-Cooled Condensing Unit, Coil with Blower

Outdoor Unit Model Number: XC25-060-230-\*\*

Indoor Unit Model Number: CBX40UHV-060\*+TDR

Manufacturer: LENNOX INDUSTRIES, INC.

Trade/Brand name: DAVE LENNOX SIGNATURE

Series name: XC25 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): 58000  
EER Rating (Cooling): 12.50  
SEER Rating (Cooling): 19.50  
IEER Rating (Cooling):

**AHRI CERTIFIED**<sup>®</sup>  
www.ahridirectory.org

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

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#### 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.

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& REFRIGERATION INSTITUTE

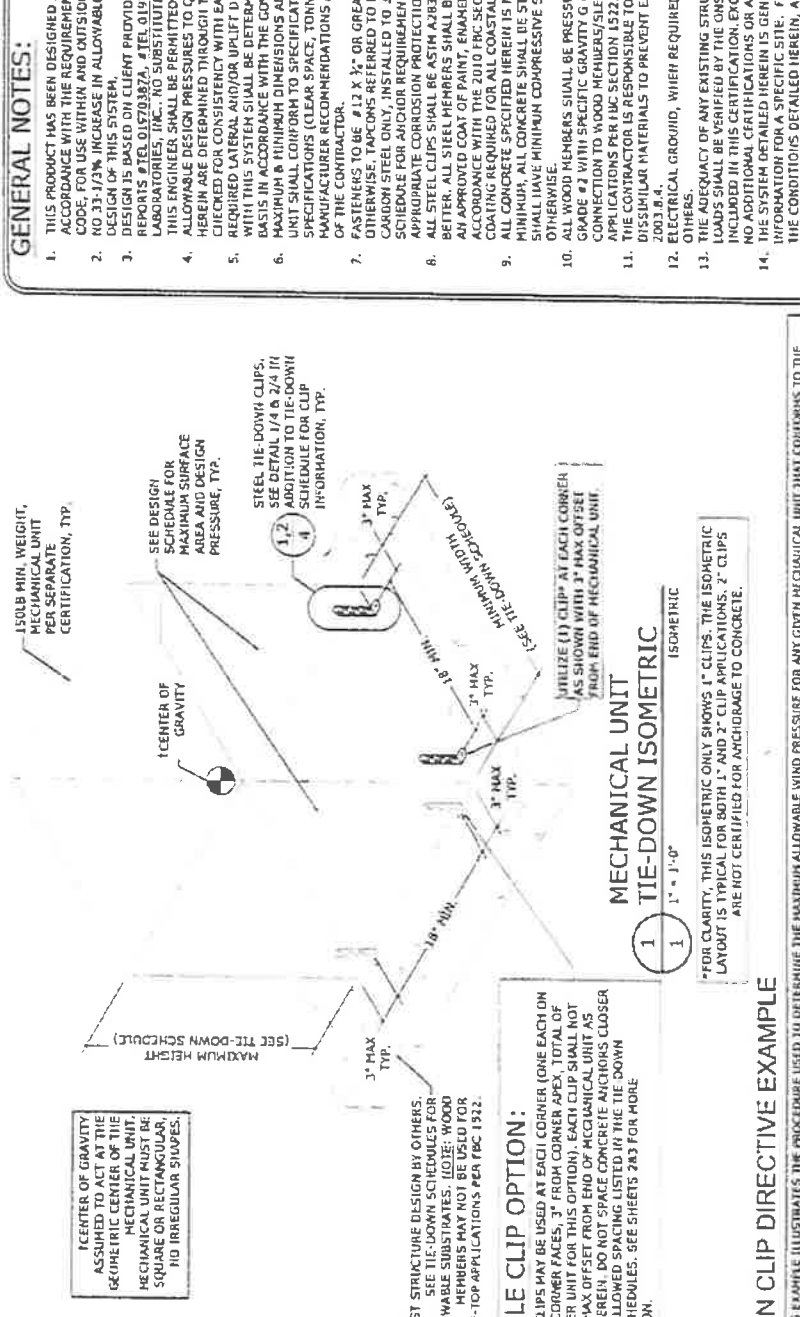
we make life better™

CERTIFICATE NO.:

130735928597331987

# BMP INTERNATIONAL, INC.

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



**DOUBLE CLIP OPTION:**  
 (2) TOTAL CLIPS MAY BE USED AT EACH CORNER (ONE EACH ON OPPOSING CORNER FACES), 3" FROM CORNER APEX. TOTAL OF EXCEEDS 5" MAX OFFSET FROM END OF MECHANICAL UNIT AS DETAILED HEREIN. DO NOT SPACING BETWEEN CLIPS CLOSER THAN THE ALLOWED SPACING LISTED WITH THE TIE-DOWN ANCHOR SCHEDULES. SEE SHEETS 703 FOR MORE INFORMATION.

**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 DIMENSION RESTRICTIONS LISTED HEREIN. SEE SHEETS 703 FOR THE TIE-DOWN SCHEDULES.

**MECHANICAL UNIT CRITERIA:**  
 CONSIDER THE INSTALLATION OF (1) MECHANICAL UNIT WITH THE FOLLOWING CRITERIA:  
 36" TALL x 30" DEEP x 24" WIDE, 350 LB WEIGHT AS VERIFIED BY OTHERS, INSTALLED TO 1192 KSI MIN. CONCRETE AT GRADE AS VERIFIED BY OTHERS.

**PROCEDURE:**

PHASE	STEP	RESULT
1	LOCATE THE AT GRADE TIE-DOWN TO DETERMINE ON SHEET 3 AND SELECT CLIP TYPE	
2	DETERMINE LARGEST FACE AREA OF MECHANICAL UNIT TO BE INSTALLED	36" x 36" = 9FT <sup>2</sup>
3	CHECK MAXIMUM UNIT HEIGHT RESTRICTION	UNIT HEIGHT IS 36" WHICH IS LESS THAN THE MAXIMUM ALLOWABLE HEIGHT OF 48"
4	CHECK MINIMUM UNIT WIDTH RESTRICTION	UNIT WIDTH IS 24" WHICH IS EQUIVALENT TO THE MINIMUM ALLOWABLE WIDTH OF 24"
5	DETERMINE THE NUMBER OF CLIPS TO BE USED AT EACH CORNER OF THE MECHANICAL UNIT	CONSIDER (1) CLIP AT EACH CORNER, INSTALLED TO CONCRETE SUBSTRATE

CONCLUSION: MAXIMUM ALLOWABLE LATERAL DESIGN PRESSURE = (40PSF)  
 (COMPARE THIS VALUE TO THE SEPARATE SITE SPECIFIC REQUIRED DESIGN WIND PRESSURE PROVIDED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT; NOT INCLUDED IN THIS CERTIFICATION)

- GENERAL NOTES:**
- 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 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
  - DESIGN IS BASED ON CLIENT PROVIDED PRODUCT AND DIE SHEETS FROM TEST REPORTS #TEL 01703827, #TEL 0170701878 BY TESTING EVALUATION LABORATORIES, INC.. NO SUBSTITUTIONS WITHOUT WRITTEN APPROVAL BY THIS ENGINEER SHALL BE PERMITTED.
  - ALLOWABLE DESIGN PRESSURES TO QUALIFY CAPACITY OF CLIPS AS LISTED HEREIN DETERMINED THROUGH TESTING REPORT DATA AND RATIONALLY CHECKED LATERAL AND/OR UP/LIFT DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A SITE-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
  - MAXIMUM & MINIMUM DIMENSIONS AND MINIMUM WEIGHT OF MECHANICAL UNIT SHALL CONFORM TO SPECIFICATIONS STATED HEREIN, ALL MECHANICAL MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
  - FASTENERS TO BE #12 X 1/2" OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. TAPCONS REFERRED TO HEREIN SHALL BE T/W BUILDX BRAND, CARBON STEEL ONLY, INSTALLED TO 1192 KSI MIN CONCRETE. SEE ANCHOR SCHEDULE FOR ANCHOR REQUIREMENTS. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS.
  - ALL STEEL MEMBERS SHALL BE ASTM A283 STEEL (GRADE D) WITH F<sub>y</sub> = 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 IRC SECTIONS 2103.2 AND 2220. 6500-RATED CLADDING REQUIRED FOR ALL CORNER INSTALLATIONS.
  - MINIMUM WALL CORNER STRENGTH OF STRUCTURAL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3192 PSI, UNLESS NOTED OTHERWISE.
  - ALL WOOD MEMBERS SHALL BE PRESSURE TREATED SOUTHERN 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 IBC SECTION 1522.
  - THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS, I.E. ALUMINIUM PER F.B.C. 2003 8.4.
  - ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
  - THE ADEQUACY OF ANY EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS SHALL BE VERIFIED BY THE ONSITE DESIGN PROFESSIONAL, AND IS NOT INCLUDED IN THIS CERTIFICATION, EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
  - THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE THE CONDITIONS OR SPECIFICATIONS FOR SITE CONDITIONS DIFFERENT FROM ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
  - WATER-TIGHTNESS OF EXISTING MOST SUBSTRATE SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL ENSURE THAT ANY REMOVED OR 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 WATER-TIGHTNESS SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

11-BMP-0001  
 SCALE: AS SHOWN  
 DATE: 12-11-11

**BMP INTERNATIONAL, INC.**  
 4710 28TH STREET NORTH  
 ST. PETERSBURG, FL 34711  
 PH: (727) 577-1213  
 WWW.BMPINC.COM  
 160 SW 12TH AVENUE  
 DEERFIELD BEACH, FL 33442  
 PH: (561) 556-6666

REVISION	DATE	DESCRIPTION



FLORIDA STATEWIDE APPROVAL



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

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (ANCHOR TO HOST STRUCTURE)			
			(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(2) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)	(3) CLIPS AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(4) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)
4 FT <sup>2</sup>	48" MAX	24" MIN	TAPCON TO CONCRETE	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD
6 FT <sup>2</sup>	48" MAX	24" MIN	81 PSF	81 PSF	81 PSF	81 PSF
9 FT <sup>2</sup>	48" MAX	24" MIN	61 PSF	61 PSF	61 PSF	61 PSF
12 FT <sup>2</sup>	48" MAX	24" MIN	40 PSF	40 PSF	40 PSF	40 PSF
16 FT <sup>2</sup>	48" MAX	24" MIN	30 PSF	30 PSF	30 PSF	30 PSF
20 FT <sup>2</sup>	48" MAX	24" MIN	22 PSF	22 PSF	22 PSF	22 PSF
25 FT <sup>2</sup>	48" MAX	24" MIN	20 PSF	20 PSF	20 PSF	20 PSF
30 FT <sup>2</sup>	48" MAX	24" MIN	20 PSF	20 PSF	20 PSF	20 PSF
36 FT <sup>2</sup>	48" MAX	24" MIN	20 PSF	20 PSF	20 PSF	20 PSF

- TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (1) #12 SAE GRADE 5 SHEET METAL SCREWS, (1) 5/8" SHEET METAL SCREWS REQUIRED FOR LONG CLIPS, SEE DETAIL 1/4.)
- MECHANICAL HOUSING UNIT SHALL CONFORM TO THE FOLLOWING:
    - ALUMINUM HOUSING UNITS SHALL BE 6063-T6 MIN. ALUMINUM SHEET WITH (1)  $\phi$  3/8 IN., 0.125" MIN. THICKNESS.
    - STEEL HOUSING UNITS SHALL BE 304/316 STAINLESS STEEL SHEET WITH (1)  $\phi$  3/8 IN., 0.125" MIN. THICKNESS.
  - MAXIMUM ALLOWABLE WIND PRESSURES FOR EACH INDIVIDUAL SUBSTRATE MAY BE DERIVED FROM THE LIMITING CAPACITY OF THE 1" CLIP.
  - A MAXIMUM ALLOWABLE VALUE OF 100 PSF HAS BEEN UTILIZED, FOR HIGHER DEMAND CAPACITIES CONTACT THIS ENGINEER FOR SITE-SPECIFIC ENGINEERING.

**ANCHOR SCHEDULE:**

SUBSTRATE	ANCHOR
CONCRETE: (4" THICK MIN., 150 PSI MIN.)	(1)-#3 TO CARBON STEEL (TW BULLECK TAPCON, 1/2" FULL EDGE TO CONCRETE, 20" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR).
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN., ALUMINUM)	(1)-#14 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM, PROVIDE (5) PINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
STEEL: (0.125" MIN. THICK, 33 KSI MIN. STEEL)	(1)-#14 SAE GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) PINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
SEALED WOOD: (SOUTHERN YELLOW PINE, 0-0.55 OR BETTER)	(1)-#14 SAE GRADE 5 WOOD SCREW TO WOOD MEMBER, PROVIDE 1 1/2" MIN. THREAD PENETRATION, 1" MIN. EDGE DISTANCE, 1" MIN. END DISTANCE.

- ANCHOR SCHEDULE NOTES:**
- EMBODIMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
  - ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

**TABLE LEGEND:**

• DENOTES EXAMPLE VALUE FOR USE WITH COVER PAGE DIRECTIVE

○ DENOTES VALUES NOT APPROVED FOR USE

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

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (ANCHOR TO HOST STRUCTURE)			
			(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(2) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)	(3) CLIPS AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(4) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)
4 FT <sup>2</sup>	48" MAX	24" MIN	TAPCON TO ALUMINUM	SHEET METAL SCREW TO WOOD	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD
6 FT <sup>2</sup>	48" MAX	24" MIN	100 PSF	100 PSF	100 PSF	100 PSF
9 FT <sup>2</sup>	48" MAX	24" MIN	67 PSF	67 PSF	67 PSF	67 PSF
12 FT <sup>2</sup>	48" MAX	24" MIN	50 PSF	50 PSF	50 PSF	50 PSF
16 FT <sup>2</sup>	48" MAX	24" MIN	39 PSF	39 PSF	39 PSF	39 PSF
20 FT <sup>2</sup>	48" MAX	24" MIN	31 PSF	31 PSF	31 PSF	31 PSF
25 FT <sup>2</sup>	48" MAX	24" MIN	27 PSF	27 PSF	27 PSF	27 PSF
30 FT <sup>2</sup>	48" MAX	24" MIN	27 PSF	27 PSF	27 PSF	27 PSF
36 FT <sup>2</sup>	48" MAX	24" MIN	27 PSF	27 PSF	27 PSF	27 PSF

- TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (1) #12 SAE GRADE 5 SHEET METAL SCREWS.
- MECHANICAL HOUSING UNIT SHALL CONFORM TO THE FOLLOWING:
    - ALUMINUM HOUSING UNITS SHALL BE 6063-T6 MIN. ALUMINUM SHEET WITH (1)  $\phi$  3/8 IN., 0.125" MIN. THICKNESS.
    - STEEL HOUSING UNITS SHALL BE 304/316 STAINLESS STEEL SHEET WITH (1)  $\phi$  3/8 IN., 0.125" MIN. THICKNESS.
  - A MAXIMUM ALLOWABLE VALUE OF 100 PSF HAS BEEN UTILIZED, FOR HIGHER DEMAND CAPACITIES CONTACT THIS ENGINEER FOR SITE-SPECIFIC ENGINEERING.

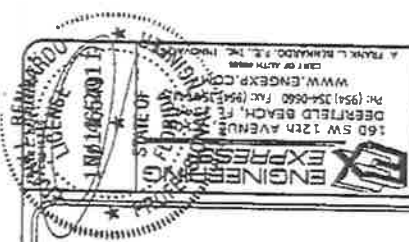
**ANCHOR SCHEDULE:**

SUBSTRATE	ANCHOR
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN., ALUMINUM)	(2)-#14 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM, PROVIDE (5) PINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
STEEL: (0.125" MIN. THICK, 33 KSI MIN. STEEL)	(2)-#14 SAE GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) PINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
SEALED WOOD: (SOUTHERN YELLOW PINE, 0-0.55 OR BETTER)	(2)-#14 SAE GRADE 5 WOOD SCREW TO WOOD MEMBER, PROVIDE 1 1/2" MIN. THREAD PENETRATION, 1" MIN. EDGE DISTANCE, 1" MIN. END DISTANCE.

- ANCHOR SCHEDULE NOTES:**
- EMBODIMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
  - ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

**TABLE LEGEND:**

• DENOTES VALUES NOT APPROVED FOR USE



**BMP INTERNATIONAL, INC.**  
 470 28TH STREET NORTH  
 ST. PETERSBURG, FL 34711  
 PH: (727) 577-1613  
 MECHANICAL UNIT STEEL TIE-DOWN CLIPS  
 FLORIDA STATEWIDE APPROVAL

DATE	BY	DESCRIPTION
11-13-11	W.W. ENGEXR	ISSUED

11-BMP-0001  
 SCALE: 1/8" = 1'-0"  
 PAGE DESCRIPTION

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

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (ANCHOR TO HOST STRUCTURE)			
			(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(2) CLIP AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)	TAPCON TO CONCRETE	SHEET METAL SCREW TO STEEL
4 FT <sup>2</sup>	48" MAX	24" MIN	82 PSF	62 PSF	100 PSF	100 PSF
6 FT <sup>2</sup>			41 PSF	41 PSF	77 PSF	77 PSF
8 FT <sup>2</sup>			27 PSF	27 PSF	51 PSF	51 PSF
12 FT <sup>2</sup>					38 PSF	38 PSF
16 FT <sup>2</sup>					28 PSF	28 PSF
20 FT <sup>2</sup>					33 PSF	33 PSF
25 FT <sup>2</sup>					28 PSF	28 PSF
30 FT <sup>2</sup>						
36 FT <sup>2</sup>						

1. TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (1)-#12 SAE GRADE 5 SHEET METAL SCREWS. (5)-SHEET METAL SCREWS REQUIRED FOR LONG CLIPS. SEE DETAIL 1/4.

2. MECHANICAL HOUSING UNIT SHALL CONFORM TO THE FOLLOWING:

2.1. ALUMINUM HOUSING UNITS SHALL BE 6061-T6 MIN. ALUMINUM SHEET WITH (1)-#12 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM. PROVIDE (5) FINCHES MIN. PAST THREAD PLATE FOR SHEET METAL SCREW.

2.2. STEEL HOUSING UNITS SHALL BE A307 OR A36 STEEL, GRADE 33, 23GA MIN. (1-0.0799").

2.3. A MAXIMUM ALLOWABLE VALUE OF 100 PSF HAS BEEN UTILIZED; FOR HIGHER DEMAND CAPACITIES CONTACT THIS ENGINEER FOR SITE-SPECIFIC ENGINEERING.

**ANCHOR SCHEDULE:**

SUBSTRATE	ANCHOR
CONCRETE: (4" THICK MIN, 3192MS1 MIN)	(1)-#12 CARBON STEEL (1)W BULKHEAD TAPCON (1)-#12 FULL ENDED TO CONCRETE, 2 1/2" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN. ALUMINUM)	(1)-#14 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM. PROVIDE (5) FINCHES MIN. PAST THREAD PLATE FOR SHEET METAL SCREW.
STEEL: (0.135" MIN. THICK, 33 KSI MIN. STEEL)	(1)-#14 SAE GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) FINCHES MIN. PAST THREAD PLATE FOR SHEET METAL SCREW.

1. ENBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE

2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE

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

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (ANCHOR TO HOST STRUCTURE)			
			(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(2) CLIP AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL
4 FT <sup>2</sup>	48" MAX	24" MIN	100 PSF	100 PSF	100 PSF	100 PSF
6 FT <sup>2</sup>			84 PSF	84 PSF	100 PSF	100 PSF
8 FT <sup>2</sup>			56 PSF	56 PSF	82 PSF	82 PSF
12 FT <sup>2</sup>			42 PSF	42 PSF	61 PSF	61 PSF
16 FT <sup>2</sup>			31 PSF	31 PSF	53 PSF	53 PSF
20 FT <sup>2</sup>			24 PSF	24 PSF	44 PSF	44 PSF
25 FT <sup>2</sup>			27 PSF	27 PSF	37 PSF	37 PSF
30 FT <sup>2</sup>						
36 FT <sup>2</sup>						

1. TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (1)-#12 SAE GRADE 5 SHEET METAL SCREWS.

2. MECHANICAL HOUSING UNIT SHALL CONFORM TO THE FOLLOWING:

2.1. ALUMINUM HOUSING UNITS SHALL BE 6061-T6 MIN. ALUMINUM SHEET WITH (1)-#12 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM. PROVIDE (5) FINCHES MIN. PAST THREAD PLATE FOR SHEET METAL SCREW.

2.2. STEEL HOUSING UNITS SHALL BE A307 OR A36 STEEL, GRADE 33, 23GA MIN. (1-0.0799").

2.3. A MAXIMUM ALLOWABLE VALUE OF 100 PSF HAS BEEN UTILIZED; FOR HIGHER DEMAND CAPACITIES CONTACT THIS ENGINEER FOR SITE-SPECIFIC ENGINEERING.

**ANCHOR SCHEDULE:**

SUBSTRATE	ANCHOR
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN. ALUMINUM)	(1)-#14 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM. PROVIDE (5) FINCHES MIN. PAST THREAD PLATE FOR SHEET METAL SCREW.
STEEL: (0.135" MIN. THICK, 33 KSI MIN. STEEL)	(1)-#14 SAE GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) FINCHES MIN. PAST THREAD PLATE FOR SHEET METAL SCREW.

1. ENBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.

2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE

**ENGINEERING**  
 160 SW 12th AVENUE  
 DEERFIELD BEACH, FL 33441  
 PHONE: 561-996-5900  
 WWW.ENGRXP.COM  
 CERT OF AUTHORITY  
 NO. 40649  
 PROFESSIONAL ENGINEER  
 STATE OF FLORIDA

**BMP INTERNATIONAL, INC.**  
 4710 26TH STREET NORTH  
 ST. PETERSBURG, FL 33721  
 PH: (727) 577-1613  
 MECHANICAL UNIT STEEL TIE-DOWN CLIPS  
 FLORIDA STATEWIDE APPROVAL

**11-BMP-0001**  
 SCALE: 1/4" = 1'-0"  
 DATE: 12-15-11  
 REVISIONS  
 4

NOTE: ROOF TOP INSTALLATIONS SHALL CONFORM TO THE FLORIDA BUILDING CODE, SECTION 1209 (AND ANY AMENDMENTS THERE TO) AND THE FLORIDA MECHANICAL CODE, SECTION 909 (AND ANY AMENDMENTS THERE TO). ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER. ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER. ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER. ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER.

**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 \* 90LBS/CLIP

EXAMPLE: 4 CLIPS \* 90 LBS/CLIP = 360LB

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

TABLE LEGEND: - DENOTES VALUES NOT APPROVED FOR USE

NOTE: ROOF TOP INSTALLATIONS SHALL CONFORM TO THE FLORIDA BUILDING CODE, SECTION 1209 (AND ANY AMENDMENTS THERE TO) AND THE FLORIDA MECHANICAL CODE, SECTION 909 (AND ANY AMENDMENTS THERE TO). ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER. ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER. ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER. ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER.

**ADDITIONAL ALLOWABLE UPLIFT: 90 LBS/CLIP**

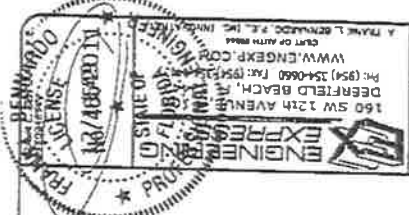
(DESIGN TABLE ACCOMMODATES MAX 90 LBS/CLIP AS ADDITIONAL UPLIFT IN COMBINATION WITH UPLIFT CAUSED BY OVERTURNING FROM LATERAL FORCES. SEE ASCE 7-10 SECTION 29.5 FOR MORE INFORMATION.)

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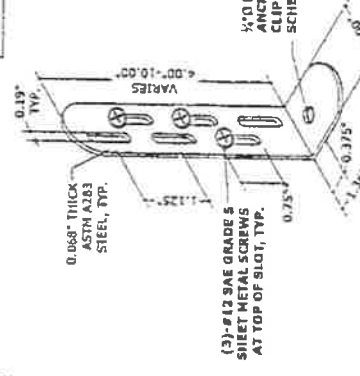
TABLE LEGEND: - DENOTES VALUES NOT APPROVED FOR USE



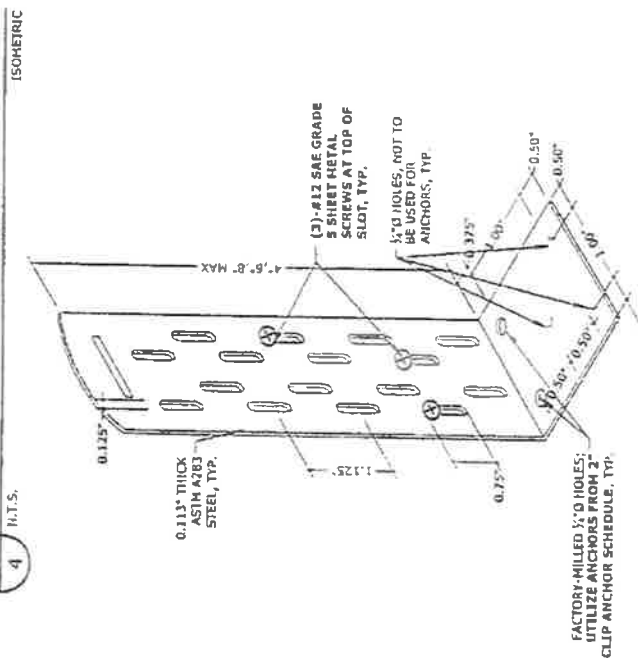
**BMP INTERNATIONAL, INC.**  
 4710 28TH STREET NORTH  
 ST. PETERSBURG, FL 33711  
 PH: (727) 577-1513  
 MECHANICAL UNIT STEEL TIE-DOWN CLIPS  
 FLORIDA STATEWIDE APPROVAL

REV	DATE	DESCRIPTION
1	11-15-11	ISSUED FOR PERMITS
2	11-15-11	REVISED PER COMMENTS
3	11-15-11	REVISED PER COMMENTS
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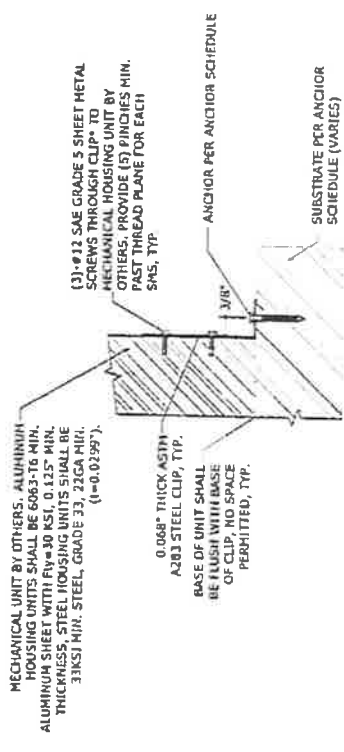
\*FOR ANY CLIP LONGER THAN 10"  
 UTILIZE (5)-#12 SAE GRADE 5  
 SHEET METAL SCREWS (PROVIDE  
 2-MIN. SHEET METAL SCREWS AT  
 THE TOP OF THE CLIP) TYP.



**1 1" CLIP ISOMETRIC DETAIL**  
 1/1.5" N.T.S.

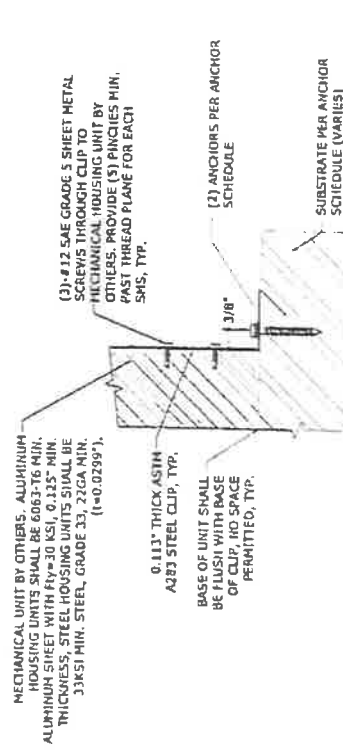


**2 2" CLIP ISOMETRIC DETAIL**  
 1/1.5" ISOMETRIC



**1" TIE-DOWN CLIP ANCHOR DETAIL**  
 3/4" 3" x 1'-0"

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



**2" TIE-DOWN CLIP ANCHOR DETAIL**  
 4/4" 3" x 1'-0"

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

- Searches
- Sales Search
- Results
- Property Record Card**
- My Favorites

Sign up for e-Notify

**6526 St Partin Pl** < 20-23-30-1678-00-190 >

Name(s)	Physical Street Address
Kachmark George S	6526 St Partin Pl
Mailing Address On File	County and Zip Code
3203 Oak Park Ln	Orlando, FL 32813
Kissimmee, FL 34746-2742	Property Use
Incorrect Mailing Address?	0103 - Single Fam Class III
	Municipality
	Belle Isle



- Values, Exemptions and Taxes**
- Property Features
- Sales Analysis
- Location Info
- Market Stats

Update Information

**Property Description**

View Plat

CONWAY LAKES 8/3 LOT 19 & PT OF LOT 27 IN LANDINGS AT LAKE CONWAY 9/125-126 DESC AS FROM SE COR OF LOT 27 RUN N 175.41 FT FOR POB CONT N 87.60 FT W 36.51 FT S 16 DEG W 12.70 FT S 36 DEG W 34.73 FT S 51 DEG E 76.64 FT TO POB

**Total Land Area** 13,318 sqft (+/-) | 0.31 acres (+/-) GIS Calculated Notice

**Land**

Land Use Code	Zoning	Land Units	Unit Price	Land Value	Class Unit Price	Class Value
0130 - Sfr - Lake Front	R-1-AA	1 LOT(S)	\$70,000.00	\$70,000	\$0.00	\$70,000

Page 1 of 1 (1 total records)

**Buildings**

Important Information		Structure				
	<b>Model Code:</b>	01 - Single Fam Residence	<b>Actual Year Built:</b>	1990	<b>Gross Area:</b>	5387 sqft
	<b>Type Code:</b>	0103 - Single Fam Class III	<b>Beds:</b>	4	<b>Living Area:</b>	3300 sqft
	<b>Building Value:</b>	\$259,978	<b>Baths:</b>	3.5	<b>Exterior Wall:</b>	Wood Frame Stucco
	<b>Estimated New Cost:</b>	\$312,474	<b>Floors:</b>	2	<b>Interior Wall:</b>	Drywall

Page 1 of 1 (1 total records)

**Extra Features**

Description	Date Built	Units	XFOB Value
FPL2 - Average Fireplace	01/01/1990	1 Unit(s)	\$2,500
PL2 - Above Average Pool	01/01/2001	1 Unit(s)	\$12,200
PT1 - Patio 1	12/31/2011	1 Unit(s)	\$1,000
PTINV - Patio No Value	01/01/2010	2 Unit(s)	\$0

Page 1 of 1 (4 total records)

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