



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.

<p>Scope of Work: MECHANICAL: c/o 2.5ton HVAC with no ductwork (air handler in 2nd floor closet)</p> <p>Comments: None</p> <p>Project Information Address: 3419 Trentwood Blvd, Belle Isle, FL 32812 Parcel ID: 29-23-30-1882-00-020 Property Owner: Lake Conway Investments Phone Number: 407-855-9465 ***** Company Name: Carpenter's Appliance & Installation Service LLC Contractor Name: Carpenter, Edward License Number: RA0024709 Address: 3609 Ponceau Street, Orlando, FL 32812 Phone Number: 407-467-1897</p>	<p align="center">Permit Number: 2014-12-001 Date of Application: 12/03/2013 Date Permit Issued: 12/09/2013</p> <p>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.</p>
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BUILDING FEATURES

<p>IMPACT FEES</p> <p>School \$ Traffic \$</p> <p>ZONING FEES</p> <p>Zoning Fee \$</p> <p>UNIVERSAL ENG - BUILDING FEES</p> <p>Cert of Occ \$ Demo \$ Building \$ Fence \$ Driveway \$ Shed \$ Window(s) \$ Door(s) \$ PrePower \$ Electrical \$ Temp Pole \$ Plumbing \$ Mechanical \$165.00 Gas \$ Roofing \$ Boat Dock \$ Screen Encl \$ Swimming Pool \$ Sign \$</p> <p>SURCHARGE FEES</p> <p>Surcharge Fee \$2.48 Surcharge Fee \$2.48</p> <p>TOTAL FEES \$169.96</p> <p>Date Paid 12-9-13 CC or Check # 24353 Amount Paid 169.96</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 align="center">BUILDING INSPECTOR USE ONLY</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><input type="checkbox"/> BUILDING 1st _____ (Footing/Foundation) Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? _____</p> <p>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)</p> <p><input type="checkbox"/> ROOFING 1ST ROOFING Deck Nailing/Dry-in/Flashing _____ 2nd ROOFING Covering In-Progress _____ 3rd ROOFING Covering Final _____</p> <p><input type="checkbox"/> PLUMBING (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...) 1ST _____ (Underground) 2nd _____ (Sewer) 3rd _____ (Rough-In/Tub Set) 4th _____ (Final)</p> <p>CHECK APPROPRIATE BOX <input type="checkbox"/> GAS ___ Natural ___ LP <input type="checkbox"/> MECHANICAL <input type="checkbox"/> ELECTRICAL <input type="checkbox"/> LOW VOLTAGE</p> <p>1st _____ (Rough-In) 2nd _____ (Final)</p>
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Inspection requests are to be emailed to BidScheduling@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.

For a copy of your permit, or to check inspection results, please visit <https://universalengineering.sharefile.com/f/fo94edc4-832d-44bd-9809-ect32f9e2e63>
 login ID = cobi@universalengineering.com password = universal113



City of Belle Isle

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

received
12-3-13

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: 12/2/13

PERMIT NUMBER: 2014-12-001

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

Project Address: 3419 TRAVELWOOD BLVD (2nd Floor) (407-855-9465)
Property Owner: HEARNE & HARPER (West End) Belle Isle FL 32812
Property Owner's Mailing Address: 3419 TRAVELWOOD BLVD City: Belle Isle Phone: 407-855-9465
State: FL Zip Code: 32812 Parcel Id Number: 29-23-30-1892-00-020

To obtain this information, please visit <http://www.ci.belleisle.fl.us/Searches/ParcelSearch.aspx>

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

- 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 2.5 Total Tons 2.5
Type of System: Water to Air Split System Package Heat Pump

Heating: # of Units KWS Per Unit 10 Total KWS 10 BTU's
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) Equipment Change - out on existing concrete 4" Estimated Cost \$ 5066

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: Edward W. Carpenter LICENSE # 8A0024709

LICENSE HOLDER NAME: Edward W. Carpenter COMPANY NAME: Carpenter's Appl. & Install.

Street Address: 3609 Parceman St State: FL Zip Code: 32812 Phone Number: 407-855-8229

City: ORLANDO Email Address: EE.Carpenters@comcast.com (Cell) 407-467-1897

NO DUCT WORK

Building Official: M. J. Buisson Date: 12-9-2013
Review & Permit Fee \$ 165.00
3% Florida Surcharge \$ 4.96
Total Permit Fee \$ 169.96

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.

*Rheem
Condenser (Model # 13AFTN-30)*

CITY OF BELLE ISLE
Permit Application Review Sheet

Permit Number	2014-12-001
Property Owner	Harder
Address	3419 Trentwood Blvd
Nature of Improvement	Mechanical
Received Application	12-3-13
Sent for Stormwater Review	/
Stormwater Approved	/
Sent for Zoning Review	/
Zoning Approved	/
Applied for Variance	/
Variance Approved	/
Sent to BO for Review	
Building Official Approved	12-9-2013
Comments	
1.	12-3-13 scq Need Equip. Signing cables, insurances + licenses; emailed contractor
2.	12-4-13 scq Ed Carpenter called; gave him Angela's #
3.	12-9-13 scq emailed Ed it's ready
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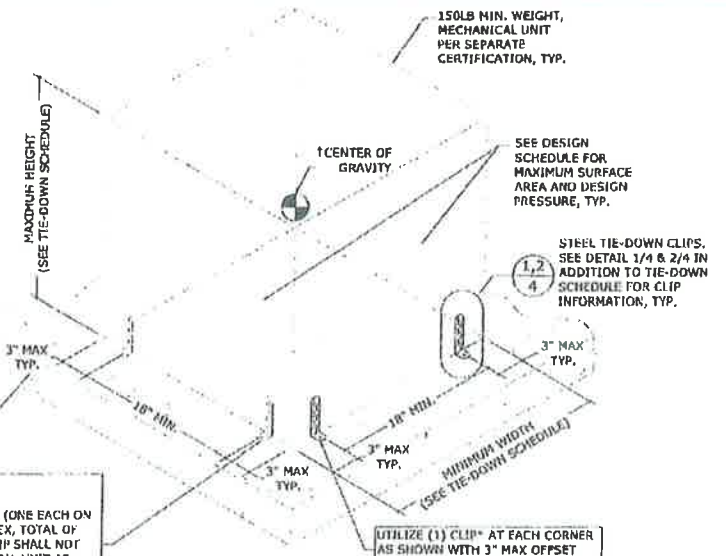
BMP INTERNATIONAL, INC.

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

Reviewed for Code Compliance
Universal Engineering Sciences



↑ CENTER OF GRAVITY ASSUMED TO ACT AT THE GEOMETRIC CENTER OF THE MECHANICAL UNIT. MECHANICAL UNIT MUST BE SQUARE OR RECTANGULAR, NO IRREGULAR SHAPES.



HOST STRUCTURE DESIGN BY OTHERS. SEE TIE-DOWN SCHEDULES FOR ALLOWABLE SUBSTRATES. NOTE: WOOD MEMBERS MAY NOT BE USED FOR ROOF-TOP APPLICATIONS PER FBC 1522.

DOUBLE CLIP OPTION:
(2) TOTAL CLIPS MAY BE USED AT EACH CORNER (ONE EACH ON OPPOSING CORNER FACES, 3" FROM CORNER APEX, TOTAL OF (8) CLIPS PER UNIT FOR THIS OPTION). EACH CLIP SHALL NOT EXCEED 3" MAX OFFSET FROM END OF MECHANICAL UNIT AS DETAILED HEREIN. DO NOT SPACE CONCRETE ANCHORS CLOSER THAN THE ALLOWED SPACING LISTED IN THE TIE-DOWN ANCHOR SCHEDULES. SEE SHEETS 283 FOR MORE INFORMATION.

MECHANICAL UNIT TIE-DOWN ISOMETRIC
1" = 1'-0" ISOMETRIC

*FOR CLARITY, THIS ISOMETRIC ONLY SHOWS 1" CLIPS. THE ISOMETRIC LAYOUT IS TYPICAL FOR BOTH 1" AND 2" CLIP APPLICATIONS. 2" CLIPS ARE NOT CERTIFIED FOR ANCHORAGE TO CONCRETE.

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 01970387A, #TEL 01970387B 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 ARE DETERMINED THROUGH TESTING REPORT DATA AND RATIONALLY CHECKED FOR CONSISTENCY WITH EACH TEST PERFORMED.
- REQUIRED LATERAL AND/OR 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.
- MAXIMUM & MINIMUM 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.
- FASTENERS TO BE #12 X 3/4" OIL GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. TAPCONS REFERRED TO HEREIN SHALL BE ITW BUILDEX 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.
- ALL STEEL CLIPS SHALL BE ASTM A283 STEEL (GRADE D) WITH $F_y = 33$ KSI OR BETTER. ALL STEEL MEMBERS SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, CHAMEL OR OTHER APPROVED PROTECTION IN ACCORDANCE WITH THE 2010 FBC SECTIONS 2203.2 AND 2720. G90-RATED COATING REQUIRED FOR ALL COASTAL INSTALLATIONS.
- 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 3192 PSI, UNLESS NOTED OTHERWISE.
- ALL WOOD MEMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE GRADE #2 WITH SPECIFIC GRAVITY $G = 0.35$ OR GREATER. DIRECT CONNECTION TO WOOD MEMBERS/SI EPEPERS IS NOT PERMITTED FOR ROOF-TOP APPLICATIONS PER FBC SECTION 1522.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS, I.F. ALUMINUM PER F.B.C. 2003.6.4.
- 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 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 CONJUNCTION WITH THIS DOCUMENT.
- WATER-TIGHTNESS OF EXISTING HOST 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.

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 283 FOR TIE-DOWN SCHEDULES.)

MECHANICAL UNIT CRITERIA:
CONSIDER THE INSTALLATION OF (1) MECHANICAL UNIT WITH THE FOLLOWING CRITERIA- 36" TALL x 36" DEEP x 24" WIDE, 150 LB WEIGHT AS VERIFIED BY OTHERS, INSTALLED TO 3192 KSI MIN. CONCRETE AT GRADE AS VERIFIED 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	36" x 36" = 923"
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= **140PSF**
(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)

BMP INTERNATIONAL, INC.
4710 28TH STREET NORTH
ST. PETERSBURG, FL 33771
PH: (727) 577-1613

DATE	BY	REVISION

11-BMP-0001
SCALE: N.T.S. 01
PAGE DESCRIPTION:

Reviewed for Code Compliance Universal Engineering Sciences

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)			
			TAPCON TO CONCRETE	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD	TAPCON TO CONCRETE	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD
4 FT*	48" MAX	24" MIN	91 PSF	91 PSF	91 PSF	91 PSF	100 PSF	100 PSF	100 PSF	100 PSF
6 FT*			61 PSF	61 PSF	61 PSF	61 PSF	100 PSF	100 PSF	100 PSF	100 PSF
8 FT*			30 PSF	40 PSF	40 PSF	40 PSF	77 PSF	77 PSF	77 PSF	77 PSF
12 FT*			30 PSF	30 PSF	30 PSF	30 PSF	58 PSF	58 PSF	58 PSF	58 PSF
16 FT*			22 PSF	22 PSF	22 PSF	22 PSF	43 PSF	43 PSF	43 PSF	43 PSF
20 FT*	60" MAX	48" MIN	26 PSF	26 PSF	26 PSF	26 PSF	49 PSF	49 PSF	49 PSF	47 PSF
25 FT*							39 PSF	39 PSF	39 PSF	37 PSF
30 FT*							33 PSF	33 PSF	33 PSF	31 PSF
35 FT*							27 PSF	27 PSF	27 PSF	26 PSF

- TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (3)-#12 SAE GRADE 5 SHEET METAL SCREWS. ((5)-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 $F_y=30$ KSI, 0.125" MIN. THICKNESS.
 - STEEL HOUSING UNITS SHALL BE 33KSI MIN. STEEL, GRADE 33, 23GA MIN. ($t=0.0299$ ").
- MAXIMUM ALLOWABLE WIND PRESSURES FOR EACH INDIVIDUAL SUBSTRATE MAY BE EQUIVALENT DUE TO 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:

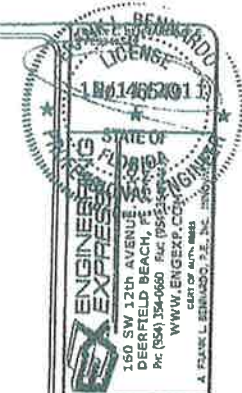
SUBSTRATE	ANCHOR
CONCRETE: (4" THICK MIN, 3192KSI HDL.)	(1)-3/8" CARBON STEEL HW BUILDER TAPCON, 1 1/2" FULL PENE. TO CONCRETE, 2 1/2" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN. ALUMINUM)	(1)-#14 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM, PROVIDE (5) PINCHPS 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) PINCHPS MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
SEALED WOOD: (SOUTHERN YELLOW PINE, G=0.55 OR BETTER)	(1)-#14 SAE GRADE 5 WOOD SCREW TO WOOD MEMBER, PROVIDE 1 1/4" MIN. THREAD PENETRATION, 1" MIN. EDGE DISTANCE, 1" MIN. END DISTANCE.

ANCHOR SCHEDULE NOTES:

- EMBEDMENT 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



BMP INTERNATIONAL, INC.
 4710 28TH STREET NORTH
 ST. PETERSBURG, FL 33771
 PH: (727) 577-4513

MECHANICAL UNIT STEEL TIE-DOWN CLIPS
 FLORIDA STATEWIDE APPROVAL

REVISIONS	DATE	DESCRIPTION

11-BMP-0001
 SCALE: N.F.S. 1/1
 PAGE DESCRIPTION

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)		
			SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD
4 FT*	48" MAX	24" MIN	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF
6 FT*			100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF
8 FT*			67 PSF	67 PSF	67 PSF	100 PSF	100 PSF	100 PSF
12 FT*			50 PSF	50 PSF	50 PSF	99 PSF	99 PSF	99 PSF
16 FT*			38 PSF	38 PSF	38 PSF	74 PSF	74 PSF	74 PSF
20 FT*	60" MAX	48" MIN	41 PSF	41 PSF	41 PSF	64 PSF	64 PSF	64 PSF
25 FT*			33 PSF	33 PSF	33 PSF	53 PSF	53 PSF	53 PSF
30 FT*			27 PSF	27 PSF	27 PSF	44 PSF	44 PSF	44 PSF
35 FT*								
36 FT*								

- TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (3)-#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 $F_y=30$ KSI, 0.125" MIN. THICKNESS.
 - STEEL HOUSING UNITS SHALL BE 33KSI MIN. STEEL, GRADE 33, 23GA MIN. ($t=0.0299$ ").
- 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) PINCHPS 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) PINCHPS MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
SEALED WOOD: (SOUTHERN YELLOW PINE, G=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:

- EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
- ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

TABLE LEGEND:

- DENOTES VALUES NOT APPROVED FOR USE

Reviewed for Code Compliance Universal Engineering Sciences

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) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)		
			TAPCON TO CONCRETE	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	TAPCON TO CONCRETE	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL
4 FT*	48" MAX	24" MIN	62 PSF	62 PSF	62 PSF	100 PSF	100 PSF	100 PSF
6 FT*			41 PSF	41 PSF	41 PSF	77 PSF	77 PSF	77 PSF
9 FT*			27 PSF	27 PSF	27 PSF	51 PSF	51 PSF	51 PSF
12 FT*						36 PSF	36 PSF	36 PSF
16 FT*	80" MAX	46" MIN				29 PSF	29 PSF	29 PSF
20 FT*						23 PSF	23 PSF	23 PSF
25 FT*						20 PSF	20 PSF	20 PSF
30 FT*						26 PSF	26 PSF	26 PSF

NOTE: ROOF TOP INSTALLATIONS SHALL CONFORM TO FLORIDA BUILDING CODE SECTION 1509 (AND 1522 FOR 10412) WHICH REQUIRES THAT ROOF MOUNTED MECHANICAL DEVICES BE MOUNTED ON CURBS ARISES A MINIMUM OF 8 INCHES ABOVE THE ROOF SURFACE, OR WHERE ROOFING MATERIALS EXTEND BEHIND THE UNIT, OR BRASS EQUIPMENT SUPPORTS PROVIDING A MINIMUM CLEARANCE HEIGHT IN ACCORDANCE WITH SECTION 1509 AND/OR 1522 OF THE BUILDING CODE TO PERMIT REPAIRS, REPLACEMENT, ANCHOR MAINTENANCE OF THE ROOFING SYSTEM. ANY CURB OR SUPPORT MOUNTED WITH THIS DESIGN SHALL HAVE SEPARATE DOCUMENTATION VERIFYING INTEGRITY AND IS OUTSIDE THE SCOPE OF THIS CERTIFICATION.

- TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (3)-#12 SAE GRADE 5 SHEET METAL SCREWS. (5)-SHEET METAL SCREWS REQUIRED FOR LONG CLIPS, SEE DETAIL 1/A.
- MECHANICAL HOUSING UNIT SHALL CONFORM TO THE FOLLOWING:
 - ALUMINUM HOUSING UNITS SHALL BE 6063-T6 MIN. ALUMINUM SHEET WITH F_y=30 KSI, 0.125" MIN. THICKNESS.
 - STEEL HOUSING UNITS SHALL BE 33KSI MIN. STEEL, GRADE 33, 23GA MIN. (t=0.0299").
- MAXIMUM ALLOWABLE WIND PRESSURES FOR EACH INDIVIDUAL SUBSTRATE MAY BE EQUIVALENT DUE TO 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.

ADDITIONAL ALLOWABLE UPLIFT: 90 LBS/CLIP

(DESIGN TABLE ACCOMMODATES MAX 90LB/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 90LB/CLIP

EXAMPLE: 4 CLIPS x 90 LB/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

ANCHOR SCHEDULE:

SUBSTRATE	ANCHOR
CONCRETE: (4" THICK MIN, 3192KSI MIN.)	(1)-#10 CARBON STEEL HIT BULDEX TAPCON, 1 1/2" 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) 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.

- EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
- 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) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)	
			SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL
4 FT*	48" MAX	24" MIN	100 PSF	100 PSF	100 PSF	100 PSF
6 FT*			84 PSF	84 PSF	100 PSF	100 PSF
9 FT*			56 PSF	56 PSF	100 PSF	100 PSF
12 FT*			42 PSF	42 PSF	83 PSF	82 PSF
16 FT*	60" MAX	46" MIN	31 PSF	31 PSF	61 PSF	61 PSF
20 FT*			34 PSF	34 PSF	67 PSF	67 PSF
25 FT*			27 PSF	27 PSF	53 PSF	53 PSF
30 FT*					44 PSF	44 PSF
36 FT*					37 PSF	37 PSF

NOTE: ROOF TOP INSTALLATIONS SHALL CONFORM TO FLORIDA BUILDING CODE SECTION 1509 (AND 1522 FOR 10412) WHICH REQUIRES THAT ROOF MOUNTED MECHANICAL DEVICES BE MOUNTED ON CURBS ARISES A MINIMUM OF 8 INCHES ABOVE THE ROOF SURFACE, OR WHERE ROOFING MATERIALS EXTEND BEHIND THE UNIT, OR BRASS EQUIPMENT SUPPORTS PROVIDING A MINIMUM CLEARANCE HEIGHT IN ACCORDANCE WITH SECTION 1509 AND/OR 1522 OF THE BUILDING CODE TO PERMIT REPAIRS, REPLACEMENT, ANCHOR MAINTENANCE OF THE ROOFING SYSTEM. ANY CURB OR SUPPORT MOUNTED WITH THIS DESIGN SHALL HAVE SEPARATE DOCUMENTATION VERIFYING INTEGRITY AND IS OUTSIDE THE SCOPE OF THIS CERTIFICATION.

ADDITIONAL ALLOWABLE UPLIFT: 90 LBS/CLIP

(DESIGN TABLE ACCOMMODATES MAX 90LB/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 90LB/CLIP

EXAMPLE: 4 CLIPS x 90 LB/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

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.

- EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
- ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

FRANK BERNARDI
 PROFESSIONAL ENGINEER
 No. 46549
 ENGINEERING EXPRESS
 160 SW 22nd Avenue, Suite 200
 Deerfield Beach, FL 33441
 Ph: (954) 394-0660 Fax: (954) 394-0661
 WWW.ENGINEXP.COM
 A. MARK L. BARNHART, P.E., INC.

BMP INTERNATIONAL, INC.
 4710 28TH STREET NORTH
 ST. PETERSBURG, FL 33741
 Ph: (727) 577-1613
 MECHANICAL UNIT STEEL TIE-DOWN CLIPS
 FLORIDA STATEWIDE APPROVAL

DATE	SCALE	BY	CHKD
12/11/11	1/16"		

11-BMP-0001
 SCALE: 1/16" = 1'-0"
 PAGE 1 OF 1 (1 OF 1)



CertWorks

... it works

FBPE Certificate of Authorization No. 28520

127 W. Fairbanks Ave.
Suite 438
Winter Park, FL 32789
407.644.6957 PH
407.644.2366 FX
info@certwrks.com

August 30, 2010

TO: Whom It May Concern

FROM: Kristina S. Daugherty, P.E.
Registered Florida Professional Engineer #68455

PRODUCT NAME: A/C Hold Down Clip

MANUFACTURER: BMP International, Inc.
4710 28th Street North
St. Petersburg, FL 33714

Dear Sir (Madam),

To the best of my knowledge, the above-mentioned product conforms to the 2007 edition of the Florida Building Code.

Please note that I do not have, nor will I acquire, a financial interest in any company manufacturing or distributing the product(s) for which the reports are being issued.

I also do not have, nor will I acquire, any financial interest with the Laboratory that performed the test(s), or with the Engineer witnessing the test(s) and sealing the test report(s).

Respectfully submitted,

8-30-10

Kristina S. Daugherty, P.E.
Florida Registered Professional Engineer #68455





CertWorks ... *it works*

FBPE Certificate of Authorization No. 28520

127 W. Fairbanks Ave.
Suite 438
Winter Park, FL 32789
407.644.6957 PH
407.644.2366 FX
info@certwrks.com

Product Evaluation Report *of*

BMP International, Inc.

A/C Hold Down Clip
for
Florida Product Approval
FL# 14239

Report No. 1196

**Florida Building Code 2007
Per Rule 9N-3**

Method: 2 - B (Engineering Evaluation)
Category: Structural Components
Sub - Category: Anchors

Product: A/C Hold Down Clip
Material: 14 Ga. Galvanized Steel
Product Dimensions: 1" x 4" x 1.25" (optional 6" & 8" lengths)
2" x 6" x 2"

Prepared For:
BMP International, Inc.
4710 28th Street North
St. Petersburg, FL 33714

Prepared by:
Kristina S. Daugherty, P.E.
Florida Professional Engineer # 68455
Date: 11/05/2010

Contents:
Evaluation Report Pages 1 - 3
Installation Details Pages 4



Kristina S. Daugherty, P.E.
Florida No. 68455

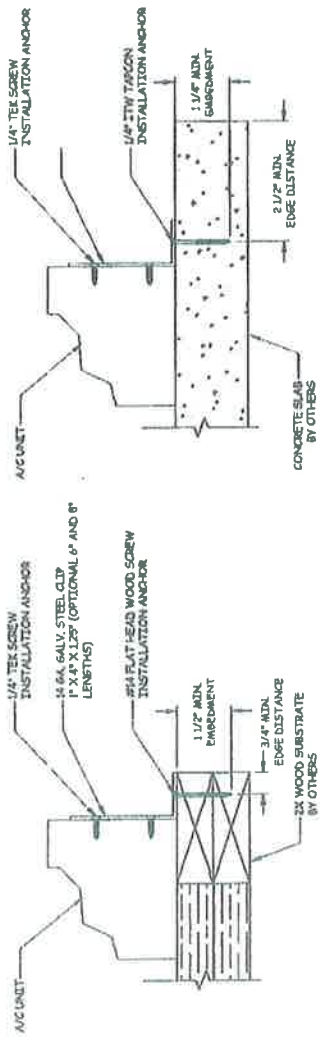




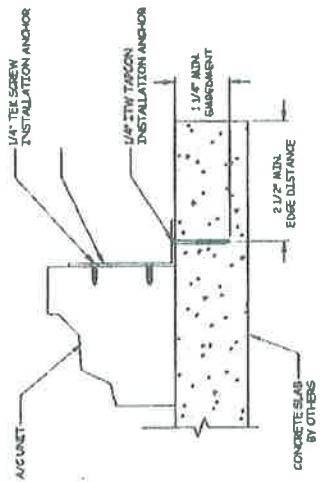
Installation: Refer to Installation Instructions (BMP003) for anchor spacing and details of the installation requirements.

Installation Method

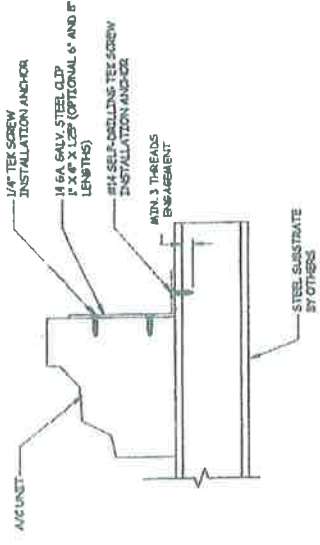
BMP International, Inc.
A/C Hold Down Clip



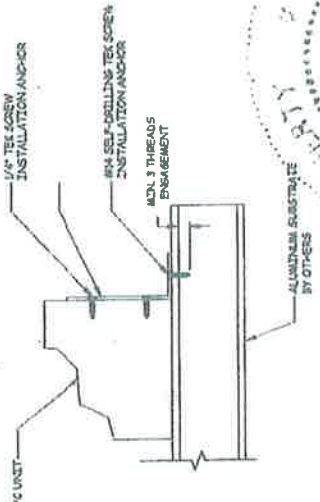
A
1 **INSTALLATION DETAIL**
WOOD SUBSTRATE



B
1 **INSTALLATION DETAIL**
CONCRETE SUBSTRATE



C
1 **INSTALLATION DETAIL**
STEEL SUBSTRATE



D
1 **INSTALLATION DETAIL**
ALUMINUM SUBSTRATE



Kristina S. Daugherty, P.E.
Florida No. 68455

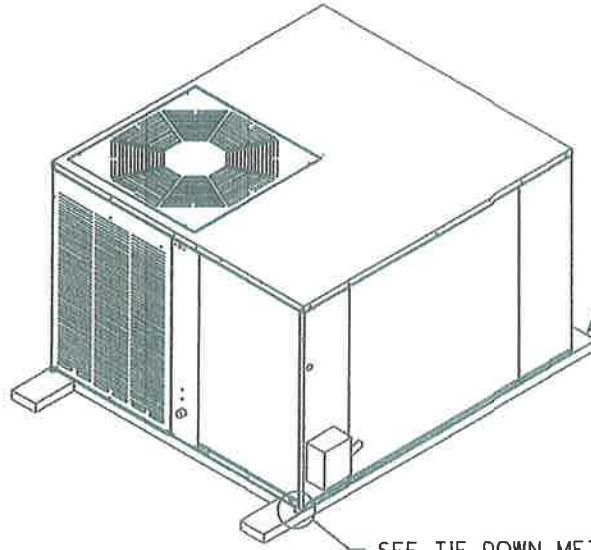


STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	{ FRACTIONAL ±1/32 { ANGULAR +1° -3° { DECIMAL ±.030	REVISIONS	X7	UPDATED MODELS.	4/12/2011 JHB	X4	ADDED MODELS.	JHB	9-22-09
MATERIAL			X8	REVISED THIS SHEET TO APPLY TO RECT UNITS. REVISED TIE-DOWNS. ADDED SHEET 2 FOR CUBE UNITS.	MGR 3-16-12	X5	UPDATED MODELS, REVISED SCREW NUMBERS TO (6) WERE (4)	JHB	7-14/10
			X3	ADDED MODELS.	JHB 3-22-09	X6	UPDATED MODELS	JHB	8-19-10

UNIT APPLICABILITY TABLE

AND, APL, APM, ANL, APC, ARA, ARL,
ASL, PNE, PNL, PPB, PPC, PPL, PRL, PQL

UNIT USED HERE FOR GRAPHICAL REPRESENTATION ONLY AND MAY DIFFER FROM UNITS LISTED.

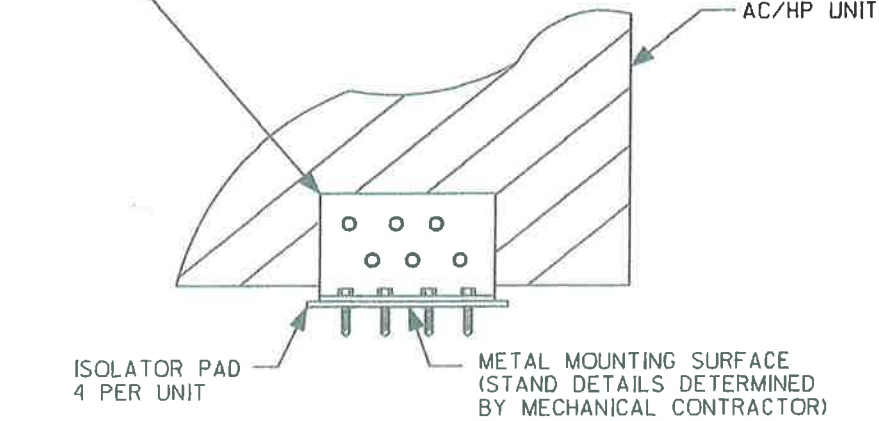


FLAT METAL MOUNTING SURFACE SUPPLIED BY CONTRACTOR

SEE TIE DOWN METHOD DETAILS

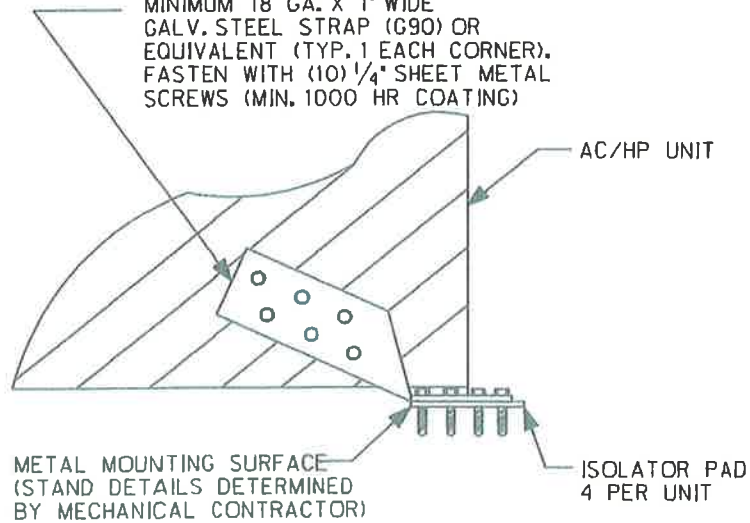
MINIMUM 18 GA. X 2" WIDE GALV. STEEL STRAP (G90) OR EQUIVALENT (TYP. 1 EACH CORNER). FASTEN WITH (10) 1/4" SHEET METAL SCREWS (MIN. 1000 HR COATING) EACH STRAP.

MINIMUM 18 GA. X 1" WIDE GALV. STEEL STRAP (G90) OR EQUIVALENT (TYP. 1 EACH CORNER). FASTEN WITH (10) 1/4" SHEET METAL SCREWS (MIN. 1000 HR COATING)



AC/HP UNIT TIE DOWN DETAIL

OPTION #1



AC/HP UNIT TIE DOWN DETAIL

OPTION #2

ST-A1019-01-SHT1-X8

FRAME MOUNT HURRICANE RESISTANT TIE DOWN

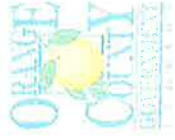
ST A1019 01 X8

NO REVISION TO DESIGN MATERIAL TO BE USED
PROJECT IS ACCEPTABLE WITH-OUT PERIOD
APPROVAL FROM RHEEM THROUGH AN AUTHORIZED
CHANGE NOTICE A REVISED ENGINEERING SPECIFICATION
OR A REVISION OF PARTS IN THE SUPPLIER IS
FOR A REVISION OF PARTS IN THE SUPPLIER IS
PURCHASING DEPARTMENT'S INVENTOR AND
RELIABILITY, PACKAGING, DELIVERY OR PERFORMANCE.
ANY DOCUMENTS REFERRED TO ON THIS DRAWING ARE
INCLUDED IN THE SPECIFICATIONS FOR THIS COMPONENT.

DR. BY TWC ORIGINAL
DATE 07-31-03 RELEASE NO.

NOTE: ALL BRACKETS ARE 90°
UNLESS OTHERWISE SPECIFIED

REV. C



Contractor Certification

Duct Sealing FBC - Energy Conservation 101.4.7.1.1

Permit # _____ Date _____

Job Address _____

! License Holder _____ Have inspected all _____

ducts with clear access of 30" minimum and have sealed all joints and seams as necessary with:

- Fabric Reinforced Mastic
- A Code Approved Equivalent *
or have utilized the following exception:
- Ducts located in conditioned space
- Joints or seams are already sealed with fabric and mastic
- System was tested and repaired as necessary

* 2010- Table FBC - M1501.4

Contractor's Signature or
Authorized Representative _____

Printed Name _____

License # _____

This form is required to be posted on front of the air handler on equipment changeouts. (Required for residential only)



CERTIFICATE OF LIABILITY INSURANCE

OP ID: CM
DATE (MM/DD/YYYY)
01/23/13

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Newman Crane & Assoc.Ins.Inc. P. O. Box 568946 Orlando, FL 32856-8946 Huston R. Crane	407-859-3691 407-857-0409	CONTACT NAME: PHONE (A/C, No., Ext): FAX (A/C, No.): ADDRESS: PRODUCER: CUSTOMER ID #: CARPE-1
INSURED Carpenter's Appliance & Installation Service LLC 3609 Ponceau St. Orlando, FL 32812	INSURER(S) AFFORDING COVERAGE INSURER A : Vinings Insurance Co. INSURER B : Old Dominion Ins. Co. INSURER C : INSURER D : INSURER E : INSURER F :	NAIC # 16632 40231

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADOL SUBR INSR_WVD	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	MPG12489	02/10/13	02/10/14	EACH OCCURRENCE \$ 500,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 500,000 GENERAL AGGREGATE \$ 1,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000
B	GEN'L AGGREGATE LIMIT APPLIES PER POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS X SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS	B1G12489	02/10/13	02/10/14	COMBINED SINGLE LIMIT \$ 500,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ \$
B	X UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DEDUCTIBLE X RETENTION \$ 10,000	CUG12489	02/10/13	02/10/14	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000 \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	WCV001658006	01/01/13	01/01/14	X WC STATUS OTH- TORT LIMITS ER E.L. EACH ACCIDENT \$ 100,000 E.L. DISEASE - EA EMPLOYEE \$ 100,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Fax 407-240-2222

CERTIFICATE HOLDER City of Belle Isle 1600 Nela Ave. Orlando, FL 32809	CANCELLATION CITYB13 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE <i>Huston R Crane</i>
---------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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is local business tax receipt is in addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to regulation of zoning, health and other
vful authorities. This receipt is valid from October 1 through September 30 of receipt year. Delinquent penalty is added October 1.

ORIGINAL
1804 CONTR-HARV

2012

EXPIRES 9/30/2013

1804-0054746

1 EMPLOYEE

\$30.00

CARPENTER EDWARD
CARPENTERS APPLIANCE &
INSTALLATION SERVICES LLC
CARPENTER EDWARD
3609 PONCEAU ST
ORLANDO FL 32812-1128

TOTAL TAX \$30.00
PREVIOUSLY PAID \$30.00
TOTAL DUE \$0.00

3609 PONCEAU ST (MOBILE)
U - ORLANDO, 32812
PAID: \$30.00 99-545458 7/19/2012

This receipt is official when validated by the Tax Collector.

arl K. Wood, Tax Collector Local Business Tax Receipt Orange County, Florida

is local business tax receipt is in addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to regulation of zoning, health and other
vful authorities. This receipt is valid from October 1 through September 30 of receipt year. Delinquent penalty is added October 1.

ORIGINAL
3100 SVC-REPAIR

2012

EXPIRES 9/30/2013

3100-0004385

1 EMPLOYEE

\$30.00

CARPENTER EDWARD W
CARPENTERS APPLIANCE &
INSTALLATION SERVICES LLC
CARPENTER EDWARD W
3609 PONCEAU ST
ORLANDO FL 32812-1128

TOTAL TAX \$30.00
PREVIOUSLY PAID \$30.00
TOTAL DUE \$0.00

3609 PONCEAU ST (MOBILE)
U - ORLANDO, 32812
PAID: \$30.00 99-545459 7/19/2012

This receipt is official when validated by the Tax Collector.

5642538

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD SEQ# LI1070700478

DATE	BATCH NUMBER	LICENSE NBR
07/07/2011	110006580	RA0024709

The CLASS B AIR CONDITIONING CONTRACTOR

Named below HAS REGISTERED

Under the provisions of Chapter 489 FS.

Expiration date: AUG 31, 2013

(INDIVIDUAL MUST MEET ALL LOCAL LICENSING
REQUIREMENTS PRIOR TO CONTRACTING IN ANY AREA)

CARPENTER, EDWARD W
CARPENTERS APPL & INSTALL SERV
3609 PONCEAU ST
ORLANDO

FL 32812-1128

RICK SCOTT
GOVERNOR

DISPLAY AS REQUIRED BY LAW

KEN LAWSON
SECRETARY