



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: one 4-ton unit change out no ductwork</p> <p>Comments: None</p> <p>Project Information Address: 4248 Cranmore Ct, Belle Isle, FL 32812 Parcel ID: 20-23-30-1661-00-740 Property Owner: James, Frank Jr Phone Number: 407 325 1338 ***** Company Name: Del-Air Heating, A/C & Refrigeration Inc Contractor Name: Del Russo, Robert License Number: CAC032448 Address: 531 Codesco Way, Sanford, FL 32771 Phone Number: 407-585-3004</p>	<p style="text-align: right;">Permit Number: 2017-04-025</p> <p style="text-align: right;">Date of Application: <u>04/05/2017</u> Date Permit Issued: <u>04/10/2017</u></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>
---	--

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 \$91.50 Gas \$ Roofing \$ Boat Dock \$ Screen Encl \$ Swimming Pool \$ Sign \$</p> <p>SURCHARGE FEES</p> <p>Surcharge Fee \$2.00 Surcharge Fee \$2.00</p> <p style="text-align: center;">TOTAL FEES \$95.50</p> <p>Date Paid <u>4-12-17</u> CC or Check # <u>MC 1139</u> Amount Paid <u>95.50</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;">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</p> <p>1st _____ (Footing/Foundation) Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? ____</p> <p>2nd _____ (Slab)</p> <p>3rd _____ (Lintel)(Wall Reinforcing on Masonry Building)</p> <p>4th _____ (Exterior Framing)(Roof/Wall Sheathing)</p> <p>5th _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)</p> <p>6th _____ (Insulation to be Made After Roof Installed)</p> <p>7th _____ (Drywall)</p> <p>8th _____ (Sidewalk/Driveway)</p> <p>9th _____ (Other)</p> <p>10th _____ (Final – After MEP and Other Applicable Finals)</p> <p><input type="checkbox"/> ROOFING</p> <p>1ST ROOFING Deck Nailing/Dry-in/Flashing _____</p> <p>2nd ROOFING Covering In-Progress _____</p> <p>3rd ROOFING Covering Final _____</p> <p><input type="checkbox"/> PLUMBING (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...)</p> <p><input type="checkbox"/></p> <p>1ST _____ (Underground) 2nd _____ (Sewer)</p> <p>3rd _____ (Rough-In/Tub Set) 4th _____ (Final)</p> <p>CHECK APPROPRIATE BOX</p> <p><input type="checkbox"/> GAS <u> </u> Natural <u> </u> LP <input type="checkbox"/> MECHANICAL <input type="checkbox"/> ELECTRICAL <input type="checkbox"/> LOW VOLTAGE</p> <p>1st _____ (Rough-In) 2nd _____ (Final)</p>
---	--

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 4pm.** 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>
 login ID = cobi@universalengineering.com password = universal13



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32818
Tel 407-581-8161 * Fax 407-581-0313 * www.universaleengineering.com

RECEIVED
APR 05 2017

APPLICATION FOR MECHANICAL PERMIT

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

DATE OF APPLICATION: 4/5/17

PERMIT NUMBER: 2017-04-025

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

Project Address 4248 CRANMORE CT, Belle Isle FL 32809 32812
Property Owner FRANK JAMES JR Phone 407-325-1338
Property Owner's Mailing Address 4248 CRANMORE CT City BELLE ISLE
State FL Zip Code 32812 Parcel Id Number: 20-23-30-1661-00-740

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**
- **REQUIRED: if adding A/C to new space, provide Energy Calculations & Equipment Sizing Calculations**
- **REQUIRED: if replacing unit with no duct work, Duct Certification as per FB 101.4.7.1, must be posted on unit**

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

Air Conditioning: # of Units 1 Tons Per Unit 4 Total Tons 4
Type of System: Water to Air Chiller Split System Package Heat Pump Estimated Cost \$ _____

Heating: # of Units KWS Per Unit 1 Total KWS 5 BTU's _____ Estimated Cost \$ _____
Oil Electric 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) HVAC FULL SYSTEM CHANGE OUT NO DUCT WORK Estimated Cost \$ _____

Was the space previously Air Conditioned? Yes No (B) Estimated Cost Fee \$ 6115

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

LICENSE HOLDER SIGNATURE _____ LICENSE # CAC032448

LICENSE HOLDER NAME ROBERT DELLO RUSSO COMPANY NAME DEL-AIR HEATING & A/C

Street Address 531 CODISCO WAY

City SANFORD State FL Zip Code 32771 Phone Number 407-333-2665

Email Address SALESJOBS@DELAIR.COM

Building Official: scg Date 4-11-17
Verified Contractor's Licenses & Insurance are on file scg Date 4-11-17

Permit Fee	\$	<u>61.-</u>
Review Fee	\$	<u>30.50</u>
3% Florida Surcharge	\$	<u>4.-</u>
Total Permit Fee	\$	<u>95.50</u>

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

base
4x6
37
24
30.50
91.50

Certificate of Product Ratings

AHRI Certified Reference Number: 8858410

Date: 7/26/2016

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

Outdoor Unit Model Number: 4TWR6048H1

Indoor Unit Model Number: TEM6A0C48H41+TDR+DF

Manufacturer: TRANE

Trade/Brand name: TRANE

Series name: XR16

Manufacturer responsible for the rating of this system combination is TRANE

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):	46500
EER Rating (Cooling):	13.00
SEER Rating (Cooling):	16.00
Heating Capacity(Btuh) @ 47 F:	42500
Region IV HSPF Rating (Heating):	9.00
Heating Capacity(Btuh) @ 17 F:	28200

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

DISCLAIMER

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

TERMS AND CONDITIONS

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

CERTIFICATE VERIFICATION

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

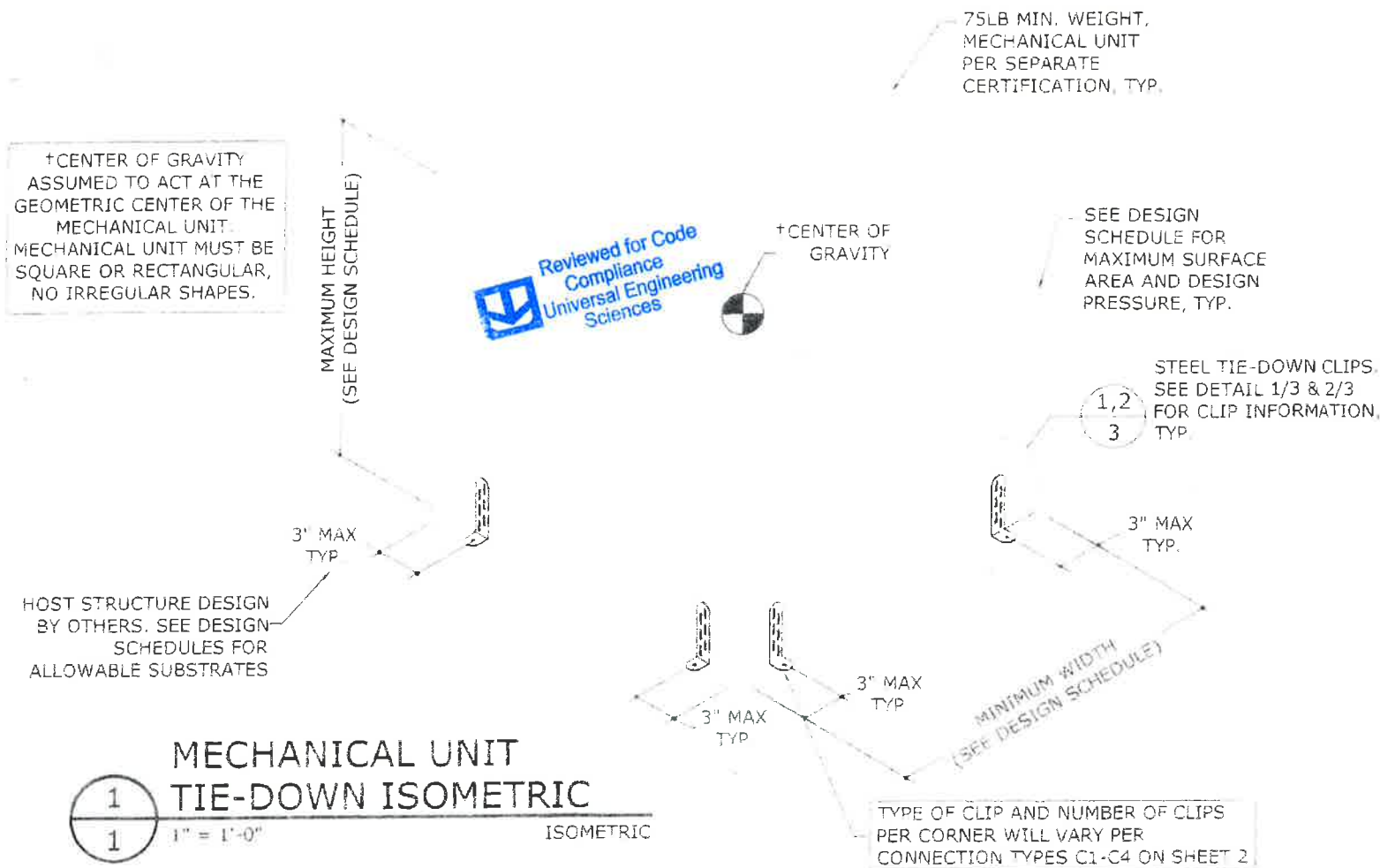
© 2014 Air-Conditioning, Heating, and Refrigeration Institute



CERTIFICATE NO.: 131140138402261283

BMP INTERNATIONAL, INC.

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



TIE-DOWN CLIP DIRECTIVE EXAMPLE

(THE FOLLOWING EXAMPLE ILLUSTRATES THE PROCEDURE USED TO DETERMINE THE MAXIMUM ALLOWABLE ROOF-TOP INSTALLATION HEIGHT, H, FOR ANY GIVEN MECHANICAL UNIT THAT CONFORMS TO THE DIMENSION RESTRICTIONS AND DESIGN CRITERIA LISTED HEREIN. SEE SHEETS 4-5 FOR DESIGN SCHEDULES.)

MECHANICAL UNIT CRITERIA:

CONSIDER THE INSTALLATION OF (1) MECHANICAL UNIT WITH THE FOLLOWING CRITERIA=

- V_{wind}=170 MPH, EXPOSURE 'B'
- 48" TALL x 48" DEEP x 48" WIDE, 100 LB (WEIGHT AS VERIFIED BY OTHERS)
- INSTALLED TO 3000 PSI MIN CONCRETE WITH (1)-2" CLIP AT EACH CORNER OF UNIT (TOTAL OF (4) CLIPS)

PROCEDURE:

PROCEDURE STEP	RESULT
1 DETERMINE THE CONNECTION TYPE BASED ON THE DIAGRAMS ON SHEET 2	CONNECTION TYPE 3
2 DETERMINE WHICH DESIGN SCHEDULE TABLE TO USE	THIS INSTALLATION IS INTENDED FOR A V _{wind} =170 MPH, EXPOSURE 'B' THIS DESIGN CRITERIA CORRESPONDS TO TABLE 5
3 DETERMINE LARGEST FACE AREA OF MECHANICAL UNIT TO BE INSTALLED	48"x48"=16FT ²
4 CHECK MAXIMUM UNIT HEIGHT RESTRICTION	THIS UNIT HEIGHT OF 48" IS EQUAL TO THE MAXIMUM ALLOWABLE HEIGHT OF 48". NOTE: THIS PRODUCT APPROVAL ALLOWS THE UNIT TO BE INSTALLED ON TOP OF AN A/C STAND THAT IS A MAXIMUM 30" TALL. IF AN A/C STAND IS UTILIZED, CHECK TO SEE THAT THE STAND DOES NOT EXCEED 30" IN HEIGHT
5 CHECK MINIMUM UNIT WIDTH RESTRICTION	UNIT WIDTH IS 48" WHICH IS GREATER THAN THE MINIMUM ALLOWABLE WIDTH OF 24"
6 DETERMINE THE ALLOWABLE ROOF-TOP HEIGHT OF THE INSTALLATION	THIS UNIT MAY BE INSTALLED AT ROOF HEIGHTS LESS THAN OR EQUAL TO 15 FT. ADDITIONALLY, THIS UNIT MAY BE INSTALLED ON ROOF-TOP HEIGHTS GREATER THAN 60FT AND LESS THAN 100 FT. SEE (*) ON TABLE 5 FOR THE NUMERICAL VALUES OF THIS DESIGN EXAMPLE

DESIGN NOTES:

THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH ASCE 7-10 AND THE FLORIDA BUILDING CODE FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE INDICATED IN THE ACCOMPANYING DESIGN SCHEDULES. THE DESIGN CRITERIA USED TO CALCULATE THE ALLOWABLE ROOF-TOP HEIGHTS CONSIDERS ASCE 7-10 SECTION 29.5.1 FOR ROOF TOP HEIGHTS (H) ≤60 FT AND SECTION 29.5 FOR ROOF TOP HEIGHTS (H) >60 FT & SECTION 29.4.1 FOR INSTALLATIONS AT GRADE. (G_C)_{Lateral}=3.10 WITHIN THE HVHZ, (G_C)_{Lateral}=1.90 OUTSIDE THE HVHZ, (G_C)_{Uplift}=1.5 FOR ALL LOCATIONS (CONCURRENT). ALL OTHER DESIGN VARIABLES ARE IN ACCORDANCE WITH ASCE 7-10 CHAPTERS 26 & 29 THE HEIGHTS LISTED IN THE DESIGN SCHEDULES REPRESENT THE ALLOWABLE HEIGHT OF THE BUILDING. THIS PRODUCT APPROVAL ALLOWS FOR EACH UNIT TO BE INSTALLED ON A MAXIMUM 30" TALL A/C STAND (CERTIFICATION BY OTHERS) ON TOP OF THE HEIGHTS LISTED IN THE DESIGN SCHEDULES.

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE & ASCE 7-10. THIS PRODUCT MAY BE USED WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
3. 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.
4. 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.
5. FASTENERS TO BE #12 X 3/4" OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. TAPCONS REFERRED TO HEREIN SHALL BE ITW BUILDEX BRAND, CARBON STEEL ONLY, INSTALLED TO 3000 PSI MIN CONCRETE. SEE ANCHOR SCHEDULE FOR ANCHOR REQUIREMENTS. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS.
6. 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, ENAMEL OR OTHER APPROVED PROTECTION. G90-RATED COATING REQUIRED FOR ALL COASTAL INSTALLATIONS.
7. ALL CONCRETE SPECIFIED HEREIN IS NOT PART OF THIS CERTIFICATION. AS A MINIMUM, ALL CONCRETE SHALL BE STRUCTURAL CONCRETE 4" MIN. THICK AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE.
8. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
9. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
10. 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.
11. 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.
12. 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.
13. FOR AN EXPLANATION OF EXPOSURE CATEGORIES THAT ACCOMPANY THE V_{wind} WIND SPEEDS USED IN THIS APPROVAL, SEE SECTION 26.7.3 OF ASCE 7-10.

FRANK L. BENNARDO, P.E.
00000000

04/17/2015

EX ENGINEERING EXPRESS

160 SW 12th Avenue, Suite 106
Deerfield Beach, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0443

WWW.ENGINEERINGEXPRESS.COM

CERT. OF AUTH. #00000000

A FRANK L. BENNARDO, P.E., INC. ENGINEERING

BMP INTERNATIONAL, INC.

4710 28TH STREET NORTH
ST. PETERSBURG, FL 33471
PH: (727) 577-1613

MECHANICAL UNIT STEEL TIE-DOWN CLIPS

FBC 5TH EDITION (2014) PRODUCT APPROVAL FL#14239.1

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (11-BMP-0001)	FLB	FLB	12-11-11
REV FOR UNITS	CSL	TSB	02-15-13
REV FOR FBC 5TH (2014)	RWN	CSL	04-06-15

THIS DOCUMENT IS THE PROPERTY OF FRANK L. BENNARDO, P.E. AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF FRANK L. BENNARDO, P.E., ALL RIGHTS ARE RESERVED. THIS DOCUMENT IS NOT VALIDATED AND ANALYZED FOR CERTIFICATION.

COPYRIGHT FRANK L. BENNARDO P.E.

15-2378

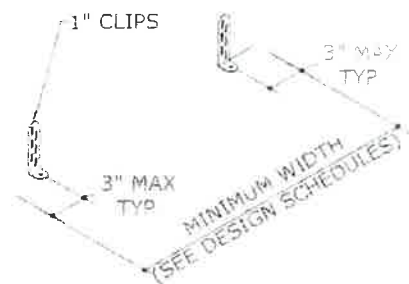
SCALE: NTS

PAGE DESCRIPTION:

1

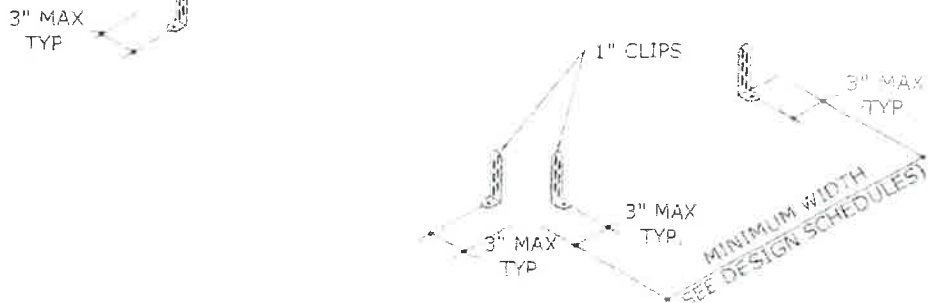
Reviewed for Code
Compliance
Universal Engineering
Sciences

MAXIMUM UNIT
HEIGHT (SEE DESIGN
SCHEDULES)



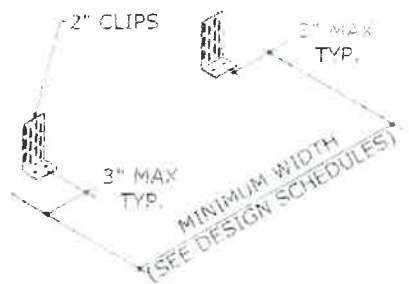
C1 CONNECTION TYPE C1
1" CLIP - UTILIZE (1) AT EACH CORNER FOR A TOTAL OF (4) PER UNIT

MAXIMUM UNIT
HEIGHT (SEE DESIGN
SCHEDULES)



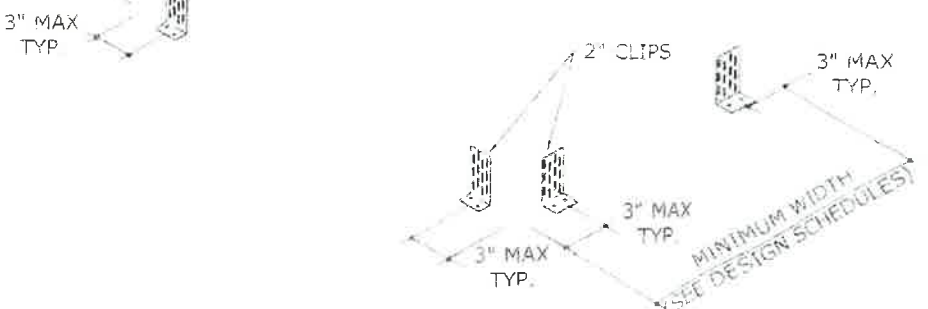
C2 CONNECTION TYPE C2
1" CLIP - UTILIZE (2) AT EACH CORNER FOR A TOTAL OF (8) PER UNIT

MAXIMUM UNIT
HEIGHT (SEE DESIGN
SCHEDULES)



C3 CONNECTION TYPE C3
2" CLIPS - UTILIZE (1) AT EACH CORNER FOR A TOTAL OF (4) PER UNIT

MAXIMUM UNIT
HEIGHT (SEE DESIGN
SCHEDULES)



C4 CONNECTION TYPE C4
2" CLIPS - UTILIZE (2) AT EACH CORNER FOR A TOTAL OF (8) PER UNIT

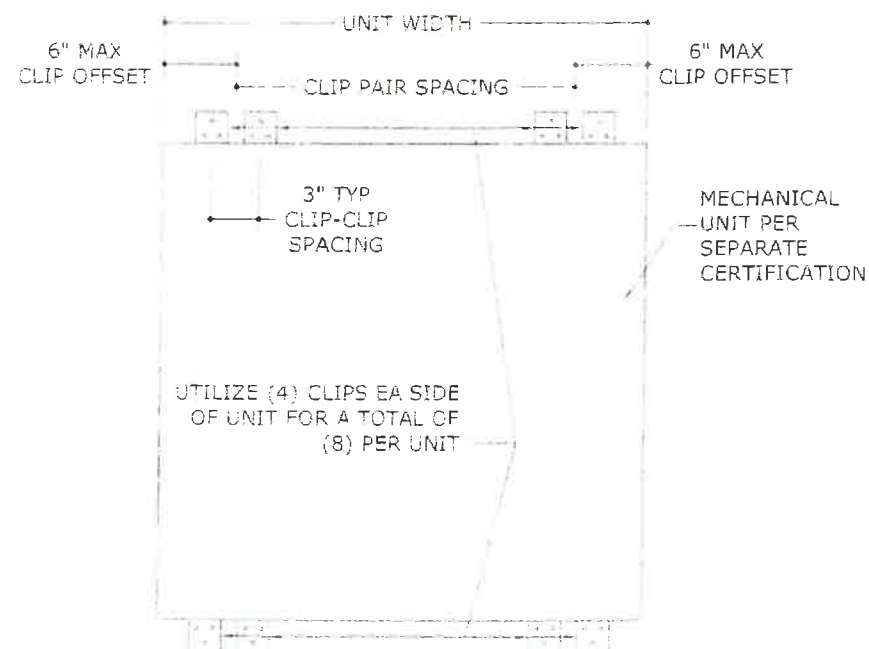
**ANCHOR SCHEDULE:
1" CLIPS**

SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-5/16" Ø CARBON STEEL ITW BUILDDEX TAPCON, 2 1/4" FULL EMBED TO CONCRETE, 3 3/8" MIN EDGE DISTANCE, 3 3/4" 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) PITCHES MIN. PAST THREAD PLANE
STEEL: (0.125" MIN. THICK, 33 KSI MIN. STEEL)	(1)-#14 SAE GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) PITCHES MIN. PAST THREAD PLANE

2" CLIPS

SUBSTRATE	DESCRIPTION
CONCRETE: (4" THICK MIN, 3000 PSI MIN.)	(1)-5/16" Ø CARBON STEEL ITW BUILDDEX TAPCON, 2 1/4" FULL EMBED TO CONCRETE, 3 3/8" MIN EDGE DISTANCE, 3 3/4" MIN SPACING TO ANY ADJACENT ANCHOR.
ALUMINUM: (0.125" MIN THICK, 6061-T6 MIN. ALUMINUM)	(2)-#14 SAE GRADE 5 SHEET METAL SCREWS TO ALUMINUM, PROVIDE (5) PITCHES MIN. PAST THREAD PLANE
STEEL: (0.125" MIN. THICK, 33 KSI MIN. STEEL)	(2)-#14 SAE GRADE 5 SHEET METAL SCREWS TO STEEL, PROVIDE (5) PITCHES MIN. PAST THREAD PLANE

1. EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.
3. SEE DETAILS ON SHEET 3 FOR ANCHORS ATTACHING TO MECHANICAL UNIT



5 ALTERNATE (8) CLIP DETAIL
3 N.T.S. PLAN VIEW

THIS DETAIL MAY BE USED AS AN ALTERNATE GEOMETRIC PATTERN FOR ALL CONNECTION TYPES THAT UTILIZE (2) CLIPS AT EACH CORNER FOR A TOTAL OF (8) CLIPS PER UNIT.

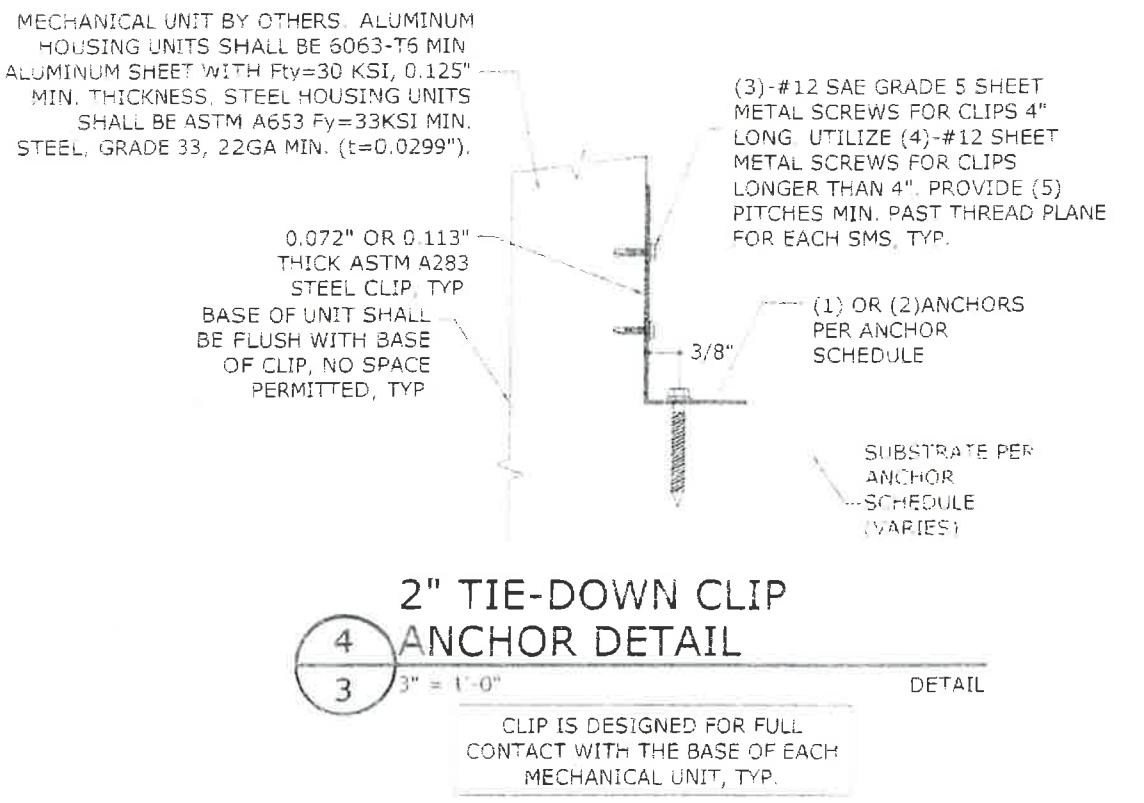
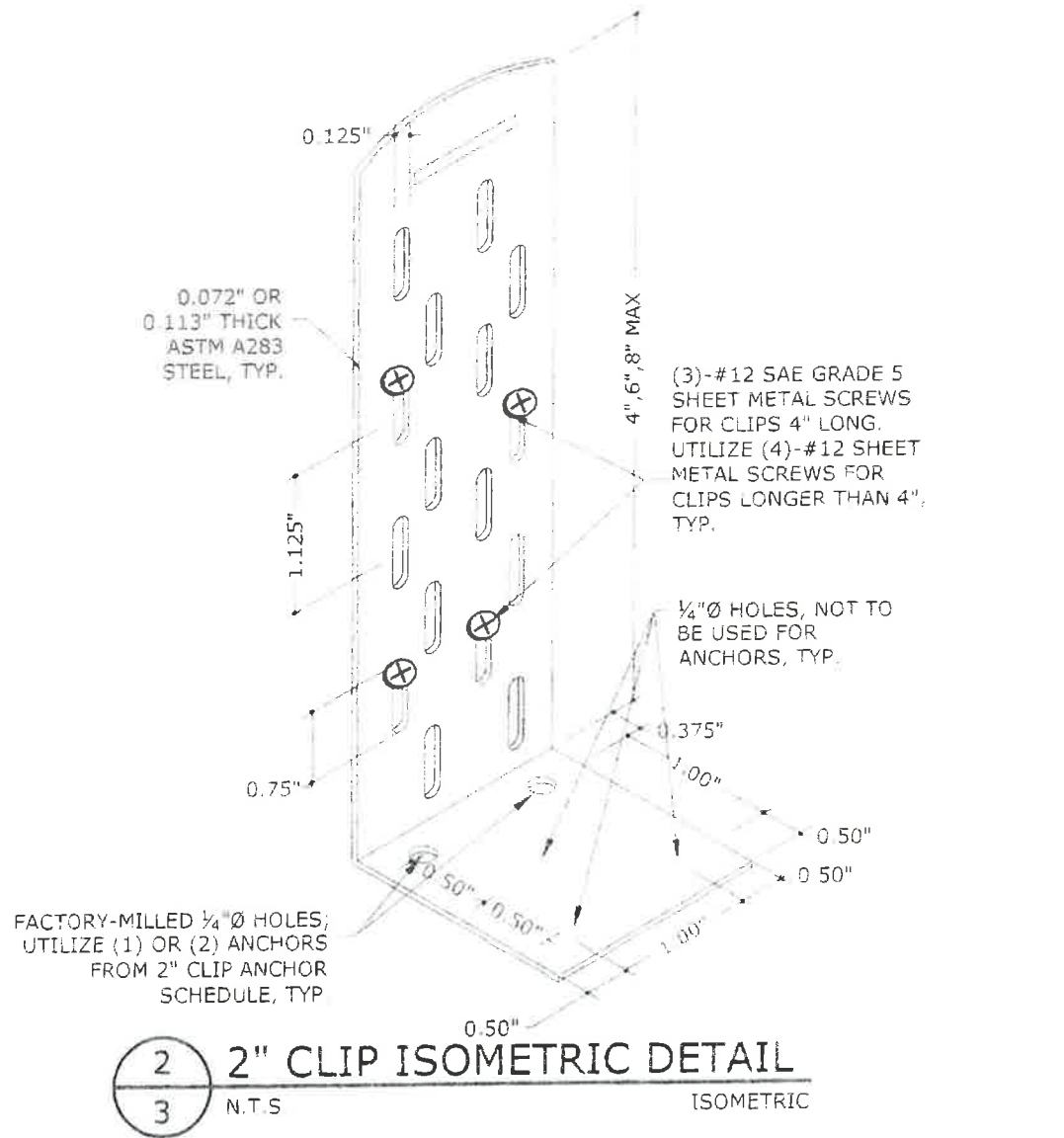
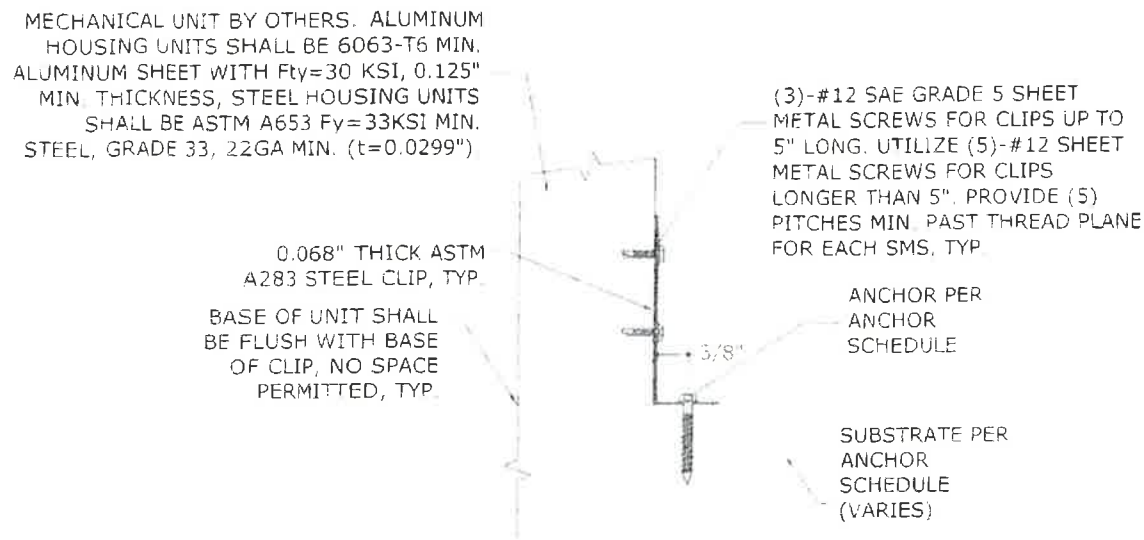
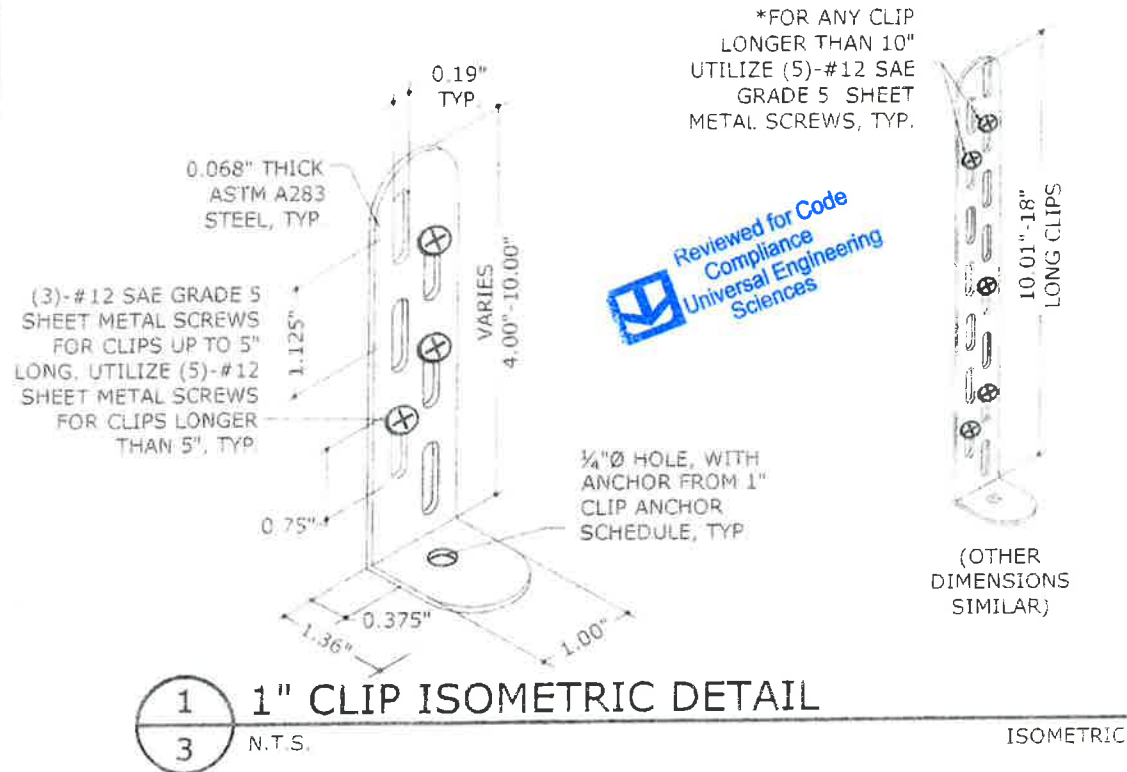
FRANK L. BENNARDO, P.E.
No. 46549
ENGINEERING
EX EXPRESS
160 SW 12th Avenue, Suite 100
Deerfield Beach, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0488
WWW.ENGINEERINGEXPRESS.COM
CERT. OF AUTH. #10010118
A. FRANK L. BENNARDO, P.E., INC. (IN FLORIDA)

BMP INTERNATIONAL, INC.
4710 28TH STREET NORTH
ST. PETERSBURG, FL 33471
PH: (727) 577-1613
MECHANICAL UNIT STEEL TIE-DOWN CLIPS
FBC 5TH EDITION (2014) PRODUCT APPROVAL FL#14239.1

REMARKS: INIT ISSUE (11-BMP-0001) REV FOR UNITS REV FOR FBC 5TH (2014)
DATE: 12-11-11, 02-15-13, 04-06-15
DRWN/CHKD: TSB, CSB, RWN, CSL
DATE: 12-11-11, 02-15-13, 04-06-15
THIS DOCUMENT IS THE PROPERTY OF FRANK L. BENNARDO, P.E. AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF FRANK L. BENNARDO, P.E. (IN FLORIDA). TO THIS DOCUMENT USE ONLY PERMITTED AND MANUFACTURE YOUR OWN PARTS.

COPYRIGHT FRANK L. BENNARDO P.E.
15-2378
SCALE: N.T.S.
PAGE DESCRIPTION:

Update FL14239 for 2014 Florida Bldg. Code, C-Project dwg



FRANK L. BENNARDO, P.E.

04/13/2014

46549

ENGINEERING EXPRESS

160 SW 12th Avenue, #106
Deerfield Beach, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0443
WWW.ENGINEERINGEXPRESS.COM

CERT. OF AUTH. #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

BMP INTERNATIONAL, INC.

4710 28TH STREET NORTH
ST. PETERSBURG, FL 33471
PH: (727) 577-1613

MECHANICAL UNIT STEEL TIE-DOWN CLIPS

FBC 5TH EDITION (2014) PRODUCT APPROVAL FL#14239.1

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (11-BMP-0001)	TSB	FLB	12-11-11
REV FOR UNITS	CSL	TSB	02-15-13
REV FOR FBC 5TH (2014)	RWN	CSL	04-06-15

THIS DOCUMENT IS THE PROPERTY OF FRANK L. BENNARDO, P.E. AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF FRANK L. BENNARDO, P.E. - ALL ALTERATIONS, ADDITIONS, DELETIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND WILL BE EVALUATED AS CORRUPTION.

COPYRIGHT FRANK L. BENNARDO P.E.

15-2378

SCALE: N.T.S.

PAGE DESCRIPTION:

3

TABLE 1: Vult=175 MPH, EXPOSURE C

(FOR USE WITH A RISK CATEGORY II STRUCTURE IN THE HIGH VELOCITY HURRICANE ZONE*)



MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 FT ²	24" MAX	12" MIN	N/A	AT GRADE	AT GRADE	H ≤ 200 FT
9 FT ²	32" MAX	15" MIN	N/A	AT GRADE	AT GRADE	H ≤ 60 FT
4 FT ²	48" MAX	24" MIN	AT GRADE	H ≤ 200 FT	H ≤ 30 FT	H ≤ 200 FT
6 FT ²			AT GRADE	H ≤ 40 FT	AT GRADE	H ≤ 200 FT
9 FT ²	48" MAX	24" MIN	N/A	AT GRADE	AT GRADE	H ≤ 160 FT
12 FT ²			N/A	AT GRADE	AT GRADE	H ≤ 40 FT
16 FT ²	48" MAX	24" MIN	N/A	AT GRADE	N/A	AT GRADE
20 FT ²			N/A	AT GRADE	N/A	AT GRADE
25 FT ²	60" MAX	48" MIN	N/A	AT GRADE	N/A	AT GRADE
30 FT ²			N/A	N/A	N/A	AT GRADE
36 FT ²	N/A	N/A	N/A	N/A	N/A	AT GRADE

*THIS TABLE IS PERMISSIBLE TO BE USED WITHIN THE HVHZ WHICH CONTAINS BROWARD AND MIAMI-DADE COUNTIES. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

TABLE 2 : Vult=175 MPH, EXPOSURE D

(FOR USE WITH A RISK CATEGORY II STRUCTURE IN THE HIGH VELOCITY HURRICANE ZONE*)

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 FT ²	24" MAX	12" MIN	N/A	AT GRADE	AT GRADE	H ≤ 200 FT
9 FT ²	32" MAX	15" MIN	N/A	AT GRADE	N/A	H ≤ 30 FT
4 FT ²	48" MAX	24" MIN	AT GRADE	H ≤ 200 FT	AT GRADE	H ≤ 200 FT
6 FT ²			N/A	H ≤ 15 FT	AT GRADE	H ≤ 200 FT
9 FT ²	48" MAX	24" MIN	N/A	AT GRADE	AT GRADE	H ≤ 80 FT
12 FT ²			N/A	AT GRADE	N/A	AT GRADE
16 FT ²	48" MAX	24" MIN	N/A	AT GRADE	N/A	AT GRADE
20 FT ²			N/A	AT GRADE	N/A	AT GRADE
25 FT ²	60" MAX	48" MIN	N/A	N/A	N/A	AT GRADE
30 FT ²			N/A	N/A	N/A	AT GRADE
36 FT ²	N/A	N/A	N/A	N/A	N/A	AT GRADE

*THIS TABLE IS PERMISSIBLE TO BE USED WITHIN THE HVHZ WHICH CONTAINS BROWARD AND MIAMI-DADE COUNTIES. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

TABLE 3 : Vult=170 MPH, EXPOSURE C

(FOR USE WITH A RISK CATEGORY II STRUCTURE*)

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 FT ²	24" MAX	12" MIN	N/A	H ≤ 200 FT	AT GRADE 60 FT < H ≤ 160 FT	H ≤ 200 FT
9 FT ²	32" MAX	15" MIN	N/A	H ≤ 15 FT 60 FT < H ≤ 200 FT	AT GRADE	H ≤ 200 FT
4 FT ²	48" MAX	24" MIN	AT GRADE 60 FT < H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
6 FT ²			AT GRADE	H ≤ 200 FT	H ≤ 40 FT 60 FT < H ≤ 200 FT	H ≤ 200 FT
9 FT ²	48" MAX	24" MIN	N/A	H ≤ 200 FT	AT GRADE 60 FT < H ≤ 80 FT	H ≤ 200 FT
12 FT ²			N/A	AT GRADE 60 FT < H ≤ 200 FT	N/A	H ≤ 200 FT
16 FT ²	48" MAX	24" MIN	N/A	AT GRADE	N/A	H ≤ 200 FT
20 FT ²			N/A	AT GRADE	N/A	H ≤ 200 FT
25 FT ²	60" MAX	48" MIN	N/A	N/A	N/A	H ≤ 30 FT 60 FT < H ≤ 200 FT
30 FT ²			N/A	N/A	N/A	AT GRADE 60 FT < H ≤ 180 FT
36 FT ²	N/A	N/A	N/A	N/A	N/A	AT GRADE

*AS AN EXAMPLE, THIS TABLE IS PERMISSIBLE TO BE USED WITHIN PALM BEACH COUNTY. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

TABLE 4 : Vult=170 MPH, EXPOSURE D

(FOR USE WITH A RISK CATEGORY II STRUCTURE*)

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 FT ²	24" MAX	12" MIN	N/A	H ≤ 200 FT	AT GRADE 60 FT < H ≤ 80 FT	H ≤ 200 FT
9 FT ²	32" MAX	15" MIN	N/A	AT GRADE 60 FT < H ≤ 200 FT	N/A	H ≤ 200 FT
4 FT ²	48" MAX	24" MIN	AT GRADE 60 FT < H ≤ 100 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
6 FT ²			N/A	H ≤ 200 FT	H ≤ 15 FT 60 FT < H ≤ 200 FT	H ≤ 200 FT
9 FT ²	48" MAX	24" MIN	N/A	H ≤ 15 FT 60 FT < H ≤ 200 FT	AT GRADE	H ≤ 200 FT
12 FT ²			N/A	AT GRADE 60 FT < H ≤ 120 FT	N/A	H ≤ 200 FT
16 FT ²	48" MAX	24" MIN	N/A	N/A	N/A	H ≤ 40 FT 60 FT < H ≤ 200 FT
20 FT ²			N/A	AT GRADE	N/A	H ≤ 40 FT 60 FT < H ≤ 200 FT
25 FT ²	60" MAX	48" MIN	N/A	N/A	N/A	AT GRADE 60 FT < H ≤ 200 FT
30 FT ²			N/A	N/A	N/A	AT GRADE 60 FT < H ≤ 100 FT
36 FT ²	N/A	N/A	N/A	N/A	N/A	AT GRADE

*AS AN EXAMPLE, THIS TABLE IS PERMISSIBLE TO BE USED WITHIN PALM BEACH COUNTY. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

FRANK L. BENNARDO, P.E.
 PROFESSIONAL ENGINEER
 No. 46549
 EX ENGINEERING EXPRESS
 160 SW 12th Avenue, #106
 DEERFIELD BEACH, FL 33442
 Ph: (954) 354-0660 Fax: (954) 354-0443
 WWW.ENGP.ORG
 CERT. OF AUTH. #9865
 A FRANK L. BENNARDO, P.E., INC. INNOVATION

BMP INTERNATIONAL, INC.
 4710 28TH STREET NORTH
 ST. PETERSBURG, FL 33471
 PH: (727) 577-1613

MECHANICAL UNIT STEEL TIE-DOWN CLIPS
 FBC 5TH EDITION (2014) PRODUCT APPROVAL FL#14239.1

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (11-BMP-0001) REV FOR UNITS REV FOR FBC 5TH (2014)	TSB CSL RWN	FLB TSB CSL	12-11-11 02-15-13 04-06-15

THIS DOCUMENT IS THE PROPERTY OF FRANK L. BENNARDO, P.E. AND SHALL NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF FRANK L. BENNARDO, P.E. - ALL RIGHTS RESERVED. INCLUDING, BUT NOT LIMITED TO, THE RIGHT TO REPRODUCE OR TO TRANSMIT IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

COPYRIGHT FRANK L. BENNARDO P.E.
15-2378
 SCALE: N T S
 PAGE DESCRIPTION:

TABLE 5 : Vult=140 MPH, EXPOSURE B

(FOR USE WITH A RISK CATEGORY II STRUCTURE*)

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE			
			C2	C3	C4	C4
6 FT ²	24" MAX	12" MIN	H ≤ 15 FT 60 FT < H ≤ 120 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
9 FT ²	32" MAX	15" MIN	AT GRADE	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
4 FT ²	48" MAX	24" MIN	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
6 FT ²			H ≤ 40 FT 60 FT < H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
9 FT ²			AT GRADE 60 FT < H ≤ 80 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
12 FT ²			AT GRADE	H ≤ 200 FT	H ≤ 40 FT 60 FT < H ≤ 200 FT	H ≤ 200 FT
16 FT ²			N/A	H ≤ 200 FT	H ≤ 15 FT 60 FT < H ≤ 100 FT	H ≤ 200 FT
20 FT ²	60" MAX	48" MIN	N/A	H ≤ 200 FT	H ≤ 15 FT 60 FT < H ≤ 180 FT	H ≤ 200 FT
25 FT ²			N/A	H ≤ 40 FT 60 FT < H ≤ 200 FT	AT GRADE 60 FT < H ≤ 80 FT	H ≤ 200 FT
30 FT ²			N/A	H ≤ 15 FT 60 FT < H ≤ 160 FT	AT GRADE	H ≤ 200 FT
36 FT ²			N/A	AT GRADE 60 FT < H ≤ 80 FT	AT GRADE	H ≤ 200 FT



TABLE 6 : Vult=140 MPH, EXPOSURE C

(FOR USE WITH A RISK CATEGORY II STRUCTURE*)

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 FT ²	24" MAX	12" MIN	AT GRADE	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
9 FT ²	32" MAX	15" MIN	N/A	H ≤ 200 FT	H ≤ 15 FT 60 FT < H ≤ 200 FT	H ≤ 200 FT
4 FT ²	48" MAX	24" MIN	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
6 FT ²			AT GRADE 60 FT < H ≤ 180 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
9 FT ²			AT GRADE	H ≤ 200 FT	H ≤ 40 FT 60 FT < H ≤ 200 FT	H ≤ 200 FT
12 FT ²			N/A	H ≤ 200 FT	AT GRADE 60 FT < H ≤ 140 FT	H ≤ 200 FT
16 FT ²			N/A	H ≤ 15 FT 60 FT < H ≤ 200 FT	AT GRADE	H ≤ 200 FT
20 FT ²	60" MAX	48" MIN	N/A	H ≤ 30 FT 60 FT < H ≤ 200 FT	AT GRADE	H ≤ 200 FT
25 FT ²			N/A	AT GRADE 60 FT < H ≤ 140 FT	AT GRADE	H ≤ 200 FT
30 FT ²			N/A	AT GRADE	N/A	H ≤ 200 FT
36 FT ²			N/A	AT GRADE	N/A	H ≤ 30 FT 60 FT < H ≤ 200 FT

TABLE 7 : Vult=140 MPH, EXPOSURE D

(FOR USE WITH A RISK CATEGORY II STRUCTURE*)

MAXIMUM SURFACE AREA OF UNIT'S LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	ALLOWABLE ROOF-TOP HEIGHT (H) TIE-DOWN CONFIGURATION TYPE			
			C1	C2	C3	C4
6 FT ²	24" MAX	12" MIN	N/A	H ≤ 200 FT	H ≤ 30 FT 60 FT < H ≤ 200 FT	H ≤ 200 FT
9 FT ²	32" MAX	15" MIN	N/A	H ≤ 200 FT	AT GRADE 60 FT < H ≤ 140 FT	H ≤ 200 FT
4 FT ²	48" MAX	24" MIN	H ≤ 40 FT 60 FT < H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
6 FT ²			AT GRADE 60 FT < H ≤ 100 FT	H ≤ 200 FT	H ≤ 200 FT	H ≤ 200 FT
9 FT ²			N/A	H ≤ 200 FT	H ≤ 15 FT 60 FT < H ≤ 200 FT	H ≤ 200 FT
12 FT ²			N/A	H ≤ 40 FT 60 FT < H ≤ 200 FT	AT GRADE 60 FT < H ≤ 80 FT	H ≤ 200 FT
16 FT ²			N/A	AT GRADE 60 FT < H ≤ 200 FT	N/A	H ≤ 200 FT
20 FT ²	60" MAX	48" MIN	N/A	AT GRADE 60 FT < H ≤ 200 FT	AT GRADE	H ≤ 200 FT
25 FT ²			N/A	AT GRADE 60 FT < H ≤ 80 FT	N/A	H ≤ 200 FT
30 FT ²			N/A	N/A	N/A	H ≤ 40 FT 60 FT < H ≤ 200 FT
36 FT ²			N/A	N/A	N/A	AT GRADE 60 FT < H ≤ 200 FT

*AS AN EXAMPLE, THESE TABLES ARE PERMISSIBLE TO BE USED WITHIN BREVARD COUNTY. CHECK WITH LOCAL AUTHORITY HAVING JURISDICTION FOR THE APPLICABILITY OF THIS TABLE WITHIN CERTAIN FLORIDA COUNTIES.

FRANK L. BENNARDO P.E.
 04/11/2015
 No. 46540
 ENGINEERING EXPRESS
 160 SW 12th AVENUE, #106
 DEERFIELD BEACH, FL 33442
 PH: (954) 354-0660 FAX: (954) 354-0443
 WWW.ENGINEERINGEXPRESS.COM
 CERT. OF AUTH. #BES-100000001
 A FRANK L. BENNARDO, P.E., INC. INNOVATION

BMP INTERNATIONAL, INC.
 4710 28TH STREET NORTH
 ST. PETERSBURG, FL 33471
 PH: (727) 577-1613

MECHANICAL UNIT STEEL TIE-DOWN CLIPS
 FBC 5TH EDITION (2014) PRODUCT APPROVAL FL#14239.1

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (14-BMP-0001)	TSB	FLB	12-11-11
REV FOR UNITS	CSL	TSB	02-15-13
REV FOR FBC 5TH (2014)	RWN	CSL	04-08-15

THIS DOCUMENT IS THE PROPERTY OF FRANK L. BENNARDO, P.E. AND SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF FRANK L. BENNARDO, P.E. *ALTERATIONS, ADDITIONS, DELETIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND WILL VOID OUR CERTIFICATION.

COPYRIGHT FRANK L. BENNARDO P.E.

15-2378

SCALE: N.T.S.

PAGE DESCRIPTION:



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
5/23/2016

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 Stahl & Associates Insurance, Inc. 250 International Parkway Suite 128 Lake Mary FL 32746	CONTACT NAME: Karen Hall PHONE (A/C, No, Ext): (407) 833-8998 E-MAIL ADDRESS: karen.hall@stahlinsurance.com		FAX (A/C, No): (407) 833-3909
	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED Del-Air Heating, A/C & Refrigeration, Inc. Del-Air Appliance Centers, LLC 531 Codisco Way Sanford FL 32771	INSURER A: National Trust Insurance Co.		20141
	INSURER B: FCCI Insurance Co.		10178
	INSURER C:		
	INSURER D:		
	INSURER E:		
	INSURER F:		

COVERAGES **CERTIFICATE NUMBER:** CL1652331944 **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	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY			GL0016798	6/1/2016	6/1/2017	EACH OCCURRENCE \$ 1,000,00
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,00
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person) \$ 10,00
	<input checked="" type="checkbox"/> Blanket Add'l Insured's						PERSONAL & ADV INJURY \$ 1,000,00
	<input checked="" type="checkbox"/> GL Extension Endorsement						GENERAL AGGREGATE \$ 2,000,00
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG \$ 2,000,00
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC						\$
B	AUTOMOBILE LIABILITY			10000229401	6/1/2016	6/1/2017	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,00
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident) \$
	<input checked="" type="checkbox"/> HIRED AUTOS	<input checked="" type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident) \$
							Uninsured motorist combined \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB			UMB0019058	6/1/2016	6/1/2017	EACH OCCURRENCE \$ 5,000,00
	<input type="checkbox"/> EXCESS LIAB						AGGREGATE \$ 5,000,00
	<input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ -0-						\$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			001WC16A73661	6/1/2016	6/1/2017	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N	N/A				E.L. EACH ACCIDENT \$ 500,00
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 500,00
							E.L. DISEASE - POLICY LIMIT \$ 500,00
B	Contractors Equipment			CM0008203	6/1/2016	6/1/2017	Leased/Rented Equipment: \$50,00

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

CERTIFICATE HOLDER **CANCELLATION**

(407) 581-0313 smanchester@universalengin

 City of Belle Isle
 1600 Nela Avenue
 Belle Isle, FL 32809

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

Robert Bowles/DOOLEY

Data Contained In Search Results Is Current As Of 09/19/2016 09:09 AM.

Search Results

Please see our [glossary of terms](#) for an explanation of the license status shown in these search results.

For additional information, including any complaints or discipline, click on the name.

License Type	Name	Name Type	License Number/ Rank	Status/Expires
Certified Air Conditioning Contractor	DEL-AIR HEATING A/C & REFR INC	DBA	CAC032448 Cert Air	Current, Active 08/31/2018
	License Location Address*:	531 CODISCO WAY SANFORD, FL 32771		
	Main Address*:	531 CODISCO WAY SANFORD, FL 32771		
Certified Air Conditioning Contractor	DELLO RUSSO, ROBERT G	Primary	CAC032448 Cert Air	Current, Active 08/31/2018
	License Location Address*:	531 CODISCO WAY SANFORD, FL 32771		
	Main Address*:	531 CODISCO WAY SANFORD, FL 32771		

[Back](#)
[New Search](#)

* denotes

Main Address - This address is the Primary Address on file.

Mailing Address - This is the address where the mail associated with a particular license will be sent (if different from the Main or License Location addresses).

License Location Address - This is the address where the place of business is physically located.

[2601 Blair Stone Road, Tallahassee FL 32399](#) :: Email: [Customer Contact Center](#) :: Customer Contact Center: 850.487.1395

The State of Florida is an AA/EEO employer. [Copyright 2007-2010 State of Florida. Privacy Statement](#)

Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. Please see our [Chapter 455](#) page to determine if you are affected by this change.



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

DELLO RUSSO, ROBERT G
DEL-AIR HEATING A/C & REFR INC
531 CODISCO WAY
SANFORD FL 32771

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER

CAC032448

The CLASS B AIR CONDITIONING CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2016

DELLO RUSSO, ROBERT G
DEL-AIR HEATING A/C & REFR INC
531 CODISCO WAY
SANFORD FL 32771





SEMINOLE COUNTY BUSINESS TAX RECEIPT

RAY VALDES, SEMINOLE COUNTY TAX COLLECTOR

PO Box 630 • Sanford, FL 32772-0630 • Telephone: 407-665-1000

www.seminoletax.org

VALID THROUGH 09/30/17

**DEL AIR HEATING AC REFRIGERANT INC
531 CODISCO WAY
SANFORD, FL 32771**

Account #:017508

ROBERT G DELLO RUSSO (OFFICER)

**REGULATED
License # - CA C032448
Qualifier- DELLO RUSSO ROBERT G
SANFORD CITY LICENSE REQUIRED **

Receipt #: WEB#2016080813021

Amount Paid: \$ 45.00

Date Paid: 08/08/2016

BUSINESS OWNER, PLEASE NOTE THE FOLLOWING:

- **DISPLAY THE ABOVE RECEIPT PROMINENTLY:** This Business Tax Receipt shall be displayed conspicuously at the place of business in such a manner that it can be open to the view of the public and subject to inspection by all duly authorized officers of the County. Upon failure to do so, the business shall be subject to the payment of another business tax for the same business or profession.
- **RENEW THIS TAX BEFORE IT EXPIRES:** Pursuant to Florida Statutes, all Business Tax Receipts shall be issued by the Tax Collector beginning July 1st of each year, and it shall expire on September 30th of the succeeding year. Those Business Tax Receipts issued as renewal accounts beginning October 1st shall be delinquent and subject to a delinquency penalty of 10% for the month of October, plus an additional 5% penalty for each month of delinquency thereafter until paid; provided that the total penalty shall not exceed 25% of the business tax for the delinquent establishment (Florida Statute [FS] 205.053 [1]).

A 25% penalty shall be imposed on any individual engaged in any new business or profession without first obtaining a Seminole County Business Tax receipt. ([FS] 205.053 [2])

This Business Tax Receipt is only a receipt for business taxes paid. It does not permit the taxpayer to violate any existing regulatory or zoning laws of the state, county, or municipality, nor does it exempt the taxpayer from any other required licenses, registrations, certifications, or permits. Business Tax requirements are subject to legislative change.

- **REPORT ALL CHANGES:** The holder of this Business Tax Receipt is required to report a change in the following: Ownership, Business Location, Mailing Address, or any other information that would alter the status of the current year's taxes. This includes, but is not limited to, the loss of or a change in a State License which was used to qualify for the business activity and/or occupation identified on the current County Business Tax Receipt. If you have any changes to report, contact the Business Tax Department at 407-665-7636.

**DEL AIR HEATING AC REFRIGERANT INC
531 CODISCO WAY
SANFORD, FL 32771**

Country Services Building
1101 E First Street
Sanford, FL 32771

Casselberry Office
104 Wilshire Blvd. Unit 1000
Casselberry, FL 32707

Oak Grove Shoppes
995 N SR 434 Suite 505
Altamonte Springs, FL 32714

SheMar Prof'l Building
1490 Swanson Dr #100
Oviedo, FL 32765

Commons at Primera
845 Primera Blvd
Lake Mary, FL 32746