



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

Scope of Work: MECHANICAL: new 2.5ton HVAC with ductwork

Comments: None

Project Information

Address: 2847 Alsace Court, Belle Isle, FL 32809
Parcel ID: 18-23-30-4384-00-419
Property Owner: Dohn Properties, LLC
Phone Number: 480-409-4644

Company Name: Ocean Air Heating & A/C Co.
Contractor Name: Barr, Richard D.
License Number: CAC026443
Address: 318 Hillman Street, New Smyrna Beach, FL 32168
Phone Number: 386-423-4476

Permit Number: 2014-04-031
Date of Application: 04/15/2014
Date Permit Issued: 06/11/2014

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT." ON THE JOB INSPECTION(S) MUST BE MADE BEFORE PROCEEDING WITH SUBSEQUENT WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL INSPECTIONS HAVE BEEN APPROVED.

BUILDING FEATURES

IMPACT FEES

School \$

ZONING FEES

Zoning Fee \$

UNIVERSAL ENG - BUILDING FEES

Demo \$
Building \$
Fence \$
Driveway \$
Shed \$
Window(s) \$
Door(s) \$
PrePower \$
Electrical \$
Temp Pole \$
Plumbing \$
Mechanical \$274.50
Gas \$
Roofing \$
Boat Dock \$
Screen End \$
Swimming Pool \$

SURCHARGE FEES

Surcharge Fee \$4.12
Surcharge Fee \$4.12

TOTAL FEES \$282.74

Date Paid

7-28-14

CC or Check

9880

Amount Paid

\$282.74

The person accepting this permit shall conform to the terms of the application on file and construction shall conform to the requirements of the Florida Building Code (FS 553).

BUILDING INSPECTOR USE ONLY

IF APPLICABLE:

Have Zoning Approval Conditions Been Met? YES NO Have Stormwater Approval Conditions

Been Met? YES NO Silt fencing in place? YES NO Turbidity Barrier in place? YES NO

1st BUILDING

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

2nd _____ (Slab)

3rd _____ (Lintel)\Wall Reinforcing on Masonry Building)

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

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

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

7th _____ (Drywall)

8th _____ (Sidewalk/Driveway)

9th _____ (Other)

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

ROOFING

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

2nd ROOFING Covering In-Progress _____

3rd ROOFING Covering Final _____

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

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

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

CHECK APPROPRIATE BOX

GAS ___ Natural ___ LP MECHANICAL ELECTRICAL LOW VOLTAGE

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

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

For a copy of your permit, or to check inspection results, please visit <https://universalengineering.sharefile.com/f/1094edc4-832d-44bd-9809-ecf32f9e2e63>
login ID = cobi@universalengineering.com password = universal13

CITY OF BELLE ISLE
Permit Application Review Sheet

Permit Number	2014-04-031
Property Owner	Debar Properties
Address	2847 Alsace Ct
Nature of Improvement	Mechanical for newly enclosed lanai
Received Application	4-15-14
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	5-01-2014
Comments	
1. Susan 4-15-14	Need 3 E. ins. for other trades
2. Lic	over the permit electronic
3. 4/17/14 Susan	need value
4.	emailed re above ✓
5. 4-18-14 Al	reviewed 36604
6. 5-2-14	emailed Conti for tie down, licenses + ins
7. 5-5-14	used licenses + ins; Still waiting on tie downs
8. 5-8-14	rec'd tie down engineering; Still waiting on job cost
9. 6-6-14	emailed Conti for status update
10. 6-10-14	rec'd job cost + tie down engineering
11. 6-11-14	emailed Pickle it's ready
12. 7-1-14	" " a reminder it's ready



City of Belle Isle

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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: _____ PERMIT NUMBER 2014-04-031
PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 2847 Alsace Ct. Belle Isle FL 32809 32812
Property Owner Dela Properties LLC Phone _____
Property Owner's Mailing Address PO Box 6111 Belle Isle City Curran
State VA Zip Code _____ Parcel Id Number: 18-23-30-9884-00-419

To obtain this information, please visit <http://www.opafll.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 2.5 Total Tons 2.5
Type of System: Water to Air _____ Split System Heat Pump _____

Heating: # of Units KWS Per Unit 1 Total KWS 5 BTU's 27.5 K
Oil _____ Electric Boiler _____ Gas _____

Estimated Cost \$ 2250
Estimated Cost \$ _____

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 _____
Refrigeration: Number of units _____ Estimated Cost \$ _____
Piping: Air _____ Vacuum _____ Steam _____ Chill Water _____
Others: (Specify) _____ Estimated Cost \$ _____

Was the space previously Air Conditioned? Yes _____ No
(A) Estimated Cost Fee \$ 146
(B) Estimated Cost Fee \$ 37

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 Richard Down LICENSE # CAC 026443
LICENSE HOLDER NAME Richard Barr COMPANY NAME OCEAN AIR
Street Address 318 Hillman St
City New Smyrna Bch State FL Zip Code 32168 Phone Number 386-422-4416
Email Address oqbarr@yahoo.com

Building Official: M. Gary Bussell Date 5-01-2014

Review & Permit Fee \$ 274.50
3% Florida Surcharge \$ 8.24
Total Permit Fee \$ 282.74

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 2014-04-029

FORMS

FLORIDA BUILDING CODE, ENERGY CONSERVATION
Residential Building Thermal Envelope Approach ALL CLIMATE ZONES

Scope: Compliance with Section 402 of the Florida Building Code, Energy Conservation, shall be demonstrated by the use of Form 402 for single- and multiple-family residences of three or more units, or for existing residential buildings, renovations to existing residential buildings, new heating, cooling, and water heating systems in existing buildings; as applicable, to comply, a building energy code compliance report shall be prepared in accordance with the requirements of Table 402.2 and all applicable mandatory requirements, summarized in Table 402.2 of this form. If a building does not comply with this method or Alabama Form 402, it may still comply under Section 405 of the Florida Building Code, Energy Conservation.

PROJECT NAME AND ADDRESS: 2847 Aisacc Ct Orlando Fl	BUILDER: Brett Bennett	JURISDICTION NO.:
OWNER: Debra Pignatelli LLC	PERMITTING OFFICE:	
	PERMIT NO.:	

General Instructions:
 1. New construction which incorporates any of the following features cannot comply using this method: glass areas in excess of 20 percent of conditioned floor area, electric resistance heat and air handlers located in attics. Additions ≤ 600 sq. ft., renovations and equipment changes may comply by this method with the following exceptions:
 2. Fill in all the applicable spaces of the "To Be Installed" column on Table 402A and all applicable mandatory requirements, summarized in Table 402.2 of this form. If a building does not comply with this method or Alabama Form 402, it may still comply under Section 405 of the Florida Building Code, Energy Conservation.
 3. Complete page 1 based on the "To Be Installed" column information.
 4. Measurements on Table 402B and check each box to indicate your intent to comply with all applicable items.
 5. Read, sign and date the "Prepared by" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.

1. **New construction, addition, or existing building**
2. **Single-family detached or multiple-family building**
3. **If multiple-family—No. of units covered by this submission**
4. **Is this a worst case? (yes/no)**
5. **Conditioned floor area (sq. ft.)**
6. **Glass type and area:**
 - a. U-factor
 - b. SHGC
 - c. Glass area
7. **Percentage of glass to floor area**
8. **Floor type, area or perimeter, and insulation:**
 - a. Slab-on-grade (R-value)
 - b. Wood, raised (R-value)
 - c. Wood, common (R-value)
 - d. Concrete, raised (R-value)
 - e. Concrete, common (R-value)
9. **Wall type, area and insulation:**
 1. Masonry (Insulation R-value)
 2. Wood frame (Insulation R-value)
10. **Ceiling type, area and insulation:**
 - a. Under attic (Insulation R-value)
 - b. Single assembly (Insulation R-value)
11. **Air distribution system: Duct insulation, location, Qn**
 - a. Duct location, insulation
 - b. AHU location
 - c. Qn. Test report attached (< 0.03; yes/no)
12. **Cooling system:**
 - a. Type
 - b. Efficiency
13. **Heating system:**
 - a. Type
 - b. Efficiency
14. **HVAC sizing calculation: attached**
15. **Hot water system:**
 - a. Type
 - b. Efficiency

Please Print

<p>CK</p> <p>1. <u>EXISTING</u> <input checked="" type="checkbox"/></p> <p>2. <u>Single</u> <input checked="" type="checkbox"/></p> <p>3. <u>NO</u> <input checked="" type="checkbox"/></p> <p>4. <u>NO</u> <input checked="" type="checkbox"/></p> <p>5. <u>377</u> <input checked="" type="checkbox"/></p> <p>6a. _____ <input type="checkbox"/></p> <p>6b. <u>26</u> sq. ft. <input checked="" type="checkbox"/></p> <p>6c. <u>7</u> % <input type="checkbox"/></p> <p>7. _____ <input type="checkbox"/></p> <p>8a. R = <u>0</u> <u>29</u> in. ft. <input checked="" type="checkbox"/></p> <p>8b. R = _____ sq. ft. <input type="checkbox"/></p> <p>8c. R = _____ sq. ft. <input type="checkbox"/></p> <p>8d. R = _____ sq. ft. <input type="checkbox"/></p> <p>8e. R = _____ sq. ft. <input type="checkbox"/></p> <p>9a-1. R = _____ sq. ft. <input type="checkbox"/></p> <p>9a-2. R = <u>13</u> <u>106</u> sq. ft. <input checked="" type="checkbox"/></p> <p>9b-1. R = _____ sq. ft. <input type="checkbox"/></p> <p>9b-2. R = _____ sq. ft. <input type="checkbox"/></p> <p>10a. R = <u>19</u> sq. ft. <input type="checkbox"/></p> <p>10b. R = _____ sq. ft. <input type="checkbox"/></p> <p>11a. R = <u>ADIC</u> <u>6</u> <input checked="" type="checkbox"/></p> <p>11b. <u>CELT</u> <input checked="" type="checkbox"/></p> <p>11c. Test report attached? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>12a. Type: <u>CENTRAL</u> <input checked="" type="checkbox"/></p> <p>12b. SEER: <u>13</u> <input checked="" type="checkbox"/></p> <p>13a. Type: <u>Heat Pump</u> <u>7,7</u> <input checked="" type="checkbox"/></p> <p>13b. COP/EAFUE: _____ <input type="checkbox"/></p> <p>14. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>15a. Type: _____ <input type="checkbox"/></p> <p>15b. EF: _____ <input type="checkbox"/></p>	<p>12a. Type: <u>CENTRAL</u> <input checked="" type="checkbox"/></p> <p>12b. SEER: <u>13</u> <input checked="" type="checkbox"/></p> <p>13a. Type: <u>Heat Pump</u> <u>7,7</u> <input checked="" type="checkbox"/></p> <p>13b. COP/EAFUE: _____ <input type="checkbox"/></p> <p>14. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>15a. Type: _____ <input type="checkbox"/></p> <p>15b. EF: _____ <input type="checkbox"/></p>
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Energy code compliance is required for the calculation use in compliance with the Florida Energy Code. Review of plans and specifications covered by the calculation indicates compliance with the Florida Energy Code. Be advised that this is a preliminary report; this building will be inspected for compliance in accordance with Section 553.508, F.S.

PREPARED BY: Richard Bono DATE: 4/14/14

OWNER/AGENT: _____ DATE: _____

CODE OFFICIAL: _____
Reviewed for Code Compliance
Universal Engineering Sciences

TABLE 402A

BUILDING COMPONENT	PERFORMANCE CRITERIA ¹	INSTALLED VALUES:
Windows (see Note 2):	U-Factor < 0.05 SHGC = 0.30 % of CFA < = 20%	U-Factor = .068 SHGC = .66 % of CFA =
Skylights:	U-Factor < 0.75	
Doors: Exterior door U-Factor	U-Factor < 0.65	
Floors: Slab-on-grade	No requirement	
Over unconditioned spaces (see Note 3)	R-13	R-Value = 0
Walls - Ext. and Adj. (see Note 3):		
Frame (see Note 3)	R-13	R-Value = 13
Mass (see Note 3)	R-7.8	R-Value =
Interior of wall:	R-6	R-Value =
Exterior of wall:		R-Value = R19
Ceilings (see Notes 3 & 4)	R=30 0.25	R-Value = R19 Reflectance =
Air distribution system (see Note 4) Ductwork & air handling unit: Unconditioned space	Not allowed	Location: ATTIC
Duct R-Value	R-value ≥ 6 On ≤ 0.03	R-Value = 6
Air leakage On	SEER = 13.0	SEER = On =
Heating system	SEER = 13.0	SEER = 13
Heat pump (see Note 5)	HSPF = 7.7	HSPF = 7.7
Gas furnace	AFUE 78%	AFUE =
Oil furnace	AFUE 78%	AFUE =
Electric resistance: Not allowed (see Note 5)		
Water heating system (storage type)		Gallons =
Electric (see Note 6):	40 gal: EF = 0.92 50 gal: EF = 0.90 40 gal: EF = 0.99 50 gal: EF = 0.98	EF = Gallons = EF =
Gas fired (see Note 7):		
Other (describe):		

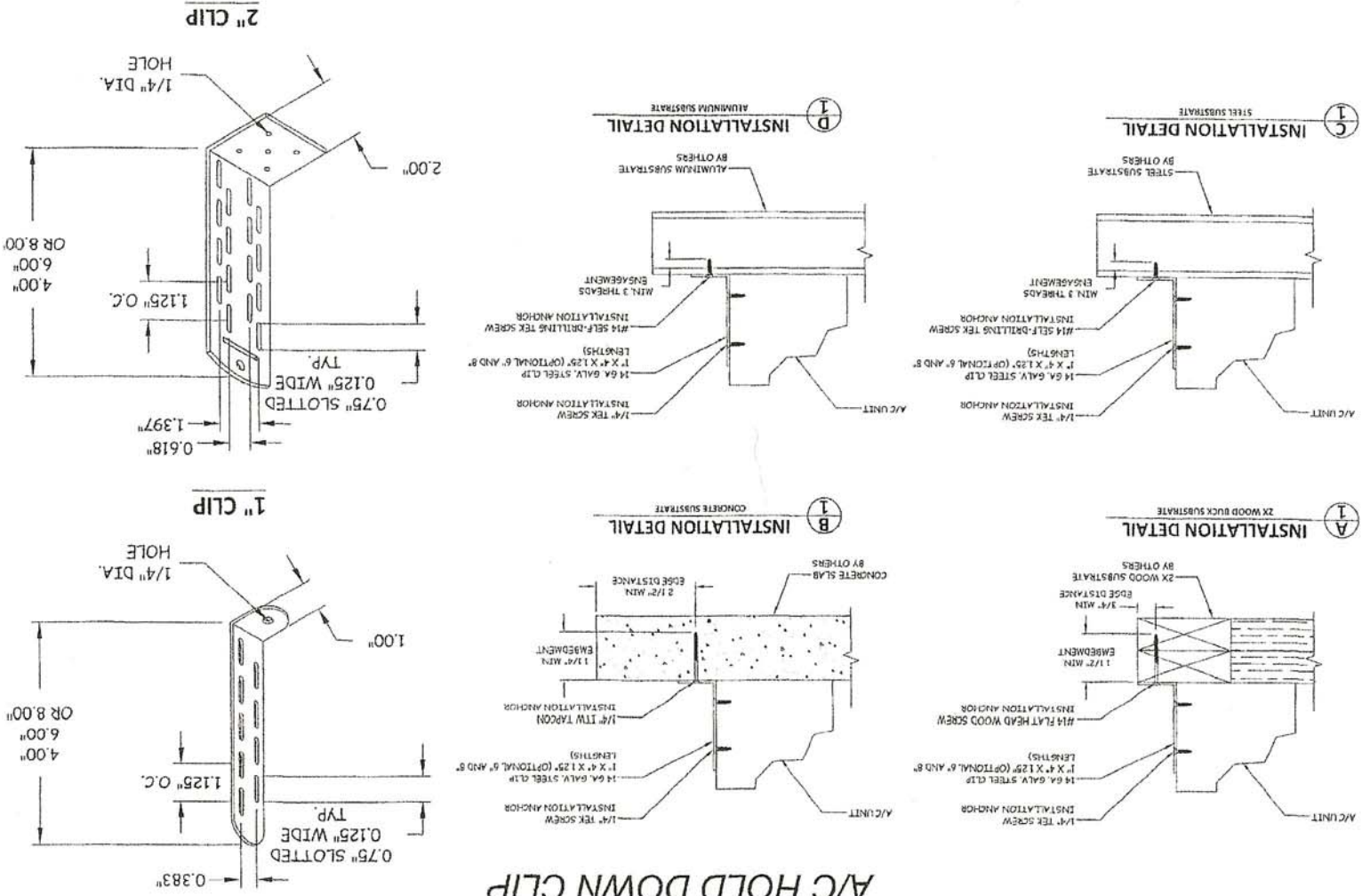
- (1) Each component present in the As Proposed home must meet or exceed each of the applicable performance criteria in order to comply with this code using this method, otherwise Section 405 compliance must be used.
- (2) Windows and doors qualifying as glazed fenestration areas must comply with both the maximum U-Factor and the maximum SHGC (solar Heat Gain Coefficient) criteria and have a maximum total window area equal to or less than 20% of the conditioned floor area (CFA), otherwise Section 405 must be used for compliance.
 - Exception: Additions of 800 square feet (56 m²) or less may have a maximum glass to CFA of 50 percent.
- (3) R-values are for insulation material only as applied in accordance with manufacturers' installation instructions. For mass walls, the "interior of wall" requirement must be met except if at least 50% of the R-5 insulation required for the "exterior of wall" is installed exterior of, or integral to, the wall.
- (4) Ducts & AHU installed substantially leak free per Section 403.2.2.1. Test by Class 1 BEERS rater required.
 - Exception: Ducts installed onto an existing air distribution system as part of an addition or renovation, duct must be R-6 installed per Sec. 503.2.7.2.
- (5) For all conventional units with capacities greater than 30,000 Btu/hr. For other types of equipment, see Tables 503.2.3(1-8).
- Exception: The prohibition on electric resistance heat does not apply to additions, renovations and new heating systems installed in existing buildings.
- (6) For other electric storage volumes, minimum EF = 0.97-(0.00132 x volume).
- (7) For other natural gas storage volumes, minimum EF = 0.67-(0.0019 x volume).

TABLE 402B MANDATORY REQUIREMENTS		REQUIREMENTS	CHECK
COMPONENTS	SECTION		
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 dm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	
Programmable thermostat	403.1.1	Where forced-air furnace is primary system, programmable thermostat is required.	
Air distribution system	403.2	Ducts in attics or on roofs insulated to R-6; other ducts R-6. Ducts tested to Q _a = 0.03 by a Class 1 BEERS rater. Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Water heaters	403.4		
Swimming pool & spas	403.9	Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/liner switch required. Gas heaters minimum thermal efficiency = 78% (82% after 4/16/13). Heat pump pool heaters minimum COP = 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency, verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat > 10kW must be divided into two or more stages.	
Lighting equipment	404.1	At least 50% of permanently installed lighting fixtures shall be high-efficacy lamps.	

Received
05-08-14

BMP INTERNATIONAL, INC.

A/C HOLD DOWN CLIP



BMP INTERNATIONAL, INC.		BMP INTERNATIONAL, INC.	
4710 29114 STREET ST. PETERSBURG, FL 33714 PH: 727.553.0544		PREPARED BY: CER TWORKS, LLC 127 W. FAIRBANKS AVE., STE. 438 WINTER PARK, FL 32789 PH: (407) 544-4537 FX: (907) 544-2346	
TITLE: A/C HOLD DOWN CLIP INSTALLATION & GENERAL NOTES		DATE	BY
REVISIONS		NO.	DESCRIPTION
DATE: 06.30.10		NO.	
DRAWN BY: JLA		NO.	
CHK BY: KSD		NO.	
SCALE: NTS		NO.	
SHEET: 1 OF 2		NO.	



