

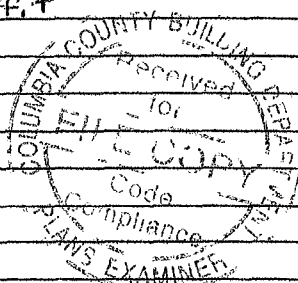
PRODUCT APPROVAL SPECIFICATION SHEET

Location:

Project Name:

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	MASONITE	STEEL	✓ FL 4904-R5
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	ME WINDOWS	DOUBLE PAYNE single Hung	✓ FL 12350-R10
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding	CERTANTEED	Fiber CEMENT	✓ FL 3148-R3
2. Soffits	KAYCAN	Vinyl soff.+	✓ FL 12198-R2
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	CERTANTEED	Asphalt shingles	✓ FL 5444-R4
2. Underlayments	REX	Synthetic	✓ FL 12512-R2
3. Roofing Fasteners			
4. Non-structural Metal Rf	MILLENNIUM	RIB PANEL	✓ 5211.2
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			



Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other <i>RIDGE</i>	<i>LOMANCO</i>	<i>RIDGE</i> ✓	<i>3793.1</i>
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor	<i>Simpson</i>	<i>WOOD CONNECTORS</i> ✓	<i>FL10456-R2</i>
2. Truss plates			
3. Engineered lumber	<i>WEYERHAEUSER</i>	<i>LVL, MICROLAM, TIBERSTAND</i> ✓	<i>FL6527-R5</i>
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

Kevin Bedenbaugh
Contractor or Contractor's Authorized Agent Signature

KEVIN BEDENBAUGH
Print Name

Date

Location

Permit # (FOR STAFF USE ONLY)

FORMS

FLORIDA BUILDING CODE, ENERGY CONSERVATION FORM 402-2010 Residential Building Thermal Envelope Approach	ALL CLIMATE ZONES
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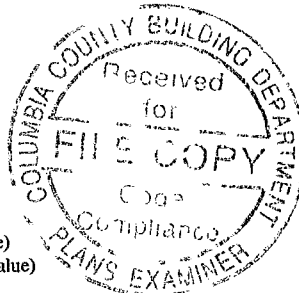
Scope: Compliance with Section 402 of the Florida Building Code, Energy Conservation, shall be demonstrated by the use of Form 402 for single- and multiple-family residences of three stories or less in height, additions to existing residential buildings, renovations to existing residential buildings, new heating, cooling, and water heating systems in existing buildings, as applicable. To comply, a building must meet or exceed all of the energy efficiency requirements on Table 402A and all applicable mandatory requirements summarized in Table 402B of this form. If a building does not comply with this method or Alternate Form 402, it may still comply under Section 405 of the Florida Building Code, Energy Conservation.

PROJECT NAME: ELIZABETH KOHN AND ADDRESS: 209 NW OLD MILL RD Lake City, FL 32855	BUILDER: PLUMB LEVEL CONSTRUCTION CO. LLC PERMITTING OFFICE: Columbia County	OWNER: PERMIT NO.: JURISDICTION NO.:
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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 changeouts may comply by this method with exceptions given.
2. Fill in all the applicable spaces of the "To Be Installed" column on Table 402A with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.
3. Complete page 1 based on the "To Be Installed" column information.
4. Read the requirements of 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 attached
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:
 - a. Exterior:
 1. Masonry (Insulation R-value)
 2. Wood frame (Insulation R-value)
 - b. Adjacent:
 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	CK
1. <u>NEW</u>	
2. <u>SINGLE</u>	
3. <u>—</u>	
4. <u>YES</u>	
5. <u>1400</u>	
6a. <u>.65</u>	
6b. <u>.33</u>	
6c. <u>168</u> sq. ft.	
7. <u>12</u> %	
8a. R = <u>0</u> <u>160</u> lin. ft.	
8b. R = <u>—</u> sq. ft.	
8c. R = <u>—</u> sq. ft.	
8d. R = <u>—</u> sq. ft.	
8e. R = <u>—</u> sq. ft.	
9a-1. R = <u>13</u> <u>1076</u> sq. ft.	
9a-2. R = <u>—</u> sq. ft.	
9b-1. R = <u>—</u> sq. ft.	
9b-2. R = <u>—</u> sq. ft.	
10a. R = <u>30</u> sq. ft. <u>1400</u>	
10b. R = <u>—</u> sq. ft.	
11a. R = <u>6</u> <u>ATTIC</u>	
11b. <u>COND. ROOMED SPACE</u>	
11c. Test report attached? Yes <u>(No)</u>	
12a. Type: <u>Heat Pump Control</u>	
12b. SEER/EER: <u>13</u>	
13a. Type: <u>Heat Pump</u>	
13b. HSPF/COP/AFUE: <u>5.7</u>	
14. Yes <u>(No)</u>	
15a. Type: <u>ELECTRIC</u>	
15b. EF: <u>.90</u>	

I hereby certify that the plans and specifications covered by the calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>Kenneth Bedenbaugh</u> DATE: <u>9-13-13</u> I hereby certify that this building is in compliance with the Florida Energy Code: OWNER AGENT: _____ DATE: _____	Review of plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S. CODE OFFICIAL: _____ DATE: _____
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TABLE 402A

BUILDING COMPONENT	PERFORMANCE CRITERIA ¹	INSTALLED VALUES:	
Windows (see Note 2) Skylights	U-Factor < 0.65 SHGC = 0.30 % of CFA < = 20% U-Factor < 0.75	U-Factor = 165 SHGC = 130 % of CFA = 12	
Doors: Exterior door U-Factor	U-Factor < 0.65	U-Factor = Insulated	
Floors: Slab-on-grade Over unconditioned spaces (see Note 3)	No requirement R-13	R-Value = 0	
Walls – Ext. and Adj. (see Note 3). Frame Mass (see Note 3) Interior of wall: Exterior of wall:	R-13 R-7.8 R-6	R-Value = 13 R-Value = R-Value =	
Ceilings (see Notes 3 & 4) Reflectance	R=30 0.25	R-Value = 30 Reflectance =	Test report Attached? Yes/No
Air distribution system (see Note 4) Ductwork & air handling unit: Unconditioned space Conditioned space Duct R-value Air leakage Qn	Not allowed R-value ≥ 6 Qn ≤ 0.03	Location: Attic Unconditioned R-Value = 6 Qn =	Test report Attached? Yes/No
Air conditioning systems (see Note 5)	SEER = 13.0	SEER = 13	
Heating system Heat pump (see Note 5) Cooling: Heating:	SEER = 13.0 HSPF = 7.7	SEER = 13 HSPF = 7.7	
Gas furnace Oil furnace Electric resistance* Not allowed (see Note 5)	AFUE 78% AFUE 78%	AFUE = AFUE =	
Water heating system (storage type) Electric (see Note 6) Gas fired (see Note 7): Other (describe).	40 gal: EF = 0.92 50 gal: EF = 0.90 40 gal: EF = 0.59 50 gal: EF = 0.58	Gallons = 40 EF = 192 Gallons = EF =	

- (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 600 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-6 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 BERS 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			
COMPONENTS	SECTION	REQUIREMENTS	CHECK
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 cfm/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-8, other ducts R-6. Ducts tested to Q _a = 0.03 by a Class 1 BERS rater	✓
Water heaters	403.4	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.	✓
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/timer switch required. Gas heaters minimum thermal efficiency = 78% (82% after 4/16/13). Heat pump pool heaters minimum COP = 4.0.	WPA
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.	✓