PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building componer listed below if they will be utilized on the construction project, for which you are applying for a building permit. We recommend you contact your local productions are applying for a building permit.

1. EXTERIOR DOORS A. SWINGING B. SLIDING C. SECTIONAL D. ROLL UP	Manufacturer MacOnitro Total	Product Description	Acres
B. SLIDING C. SECTIONAL	Maronite Til		
C. SECTIONAL			Approval Number(s)
	Masonite Int.	Extenion Doors	FL 4904.
	1.19.		FL 4904.
100			
E. AUTOMATIC			
F. OTHER			
2. WINDOWS			
A. SINGLE HUNG	ATILIUM		
B. HORIZONTAL SLIDER	17140	WINCOWS 5/H	
C. CASEMENT	Armour	Windows 5/H	FL 11626.1
D. DOUBLE HUNG	Alalum	11	12 114 24
E. FIXED	711900	11 Fixed	B
F. AWNING			FL 11623
G. PASS THROUGH			
I. PROJECTED			
MULLION			
. WIND BREAKER			
C. DUAL ACTION			
. OTHER			
CINCH			
PANEL WALL			
The state of the s			
SIDING	Certainteed KAYIAN	FXLO C	
SOFFITS	KAYLAN	Fifth Coment Stains Alvainum Soffitt	FL 3/46/
EIFS		MINIMIANUM SOFFIH	FL 3/48.1 FL 12/98,1
STOREFRONTS			1011011
CURTAIN WALLS			
WALL LOUVER			
GLASS BLOCK	La Carit		
MEMBRANE		address of the second s	
GREENHOUSE			
OTHER			
ROOFING PRODUCTS			
ASPHALT SHINGLES	Certainterel		
UNDERLAYMENTS	Washland	3hins/63	P.
ROOFING FASTENERS	woodland Imposmiss	Shingles 300 FOLT	FL 5444 FL 1814.1
ION-STRUCTURAL			FC 1814.1
METAL ROOFING			
VOOD SHINGLES AND		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
HAKES			
OOFING TILES		9	
OOFING INSULATION			
ATERPROOFING	100		
UILT UP ROOFING	GAF	4-3	
OOF SYSTEMS		The state of the s	12 4911-RI
DDIFIED BITUMEN	(mar	4	
NGLE PLY ROOF	CAF		
STEMS	GAF		FL 3443-RZ

L. ROOFING SLATE		
M. CEMENTS-ADHESIVES		
COATINGS		

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
N. LIQUID APPLIED			
ROOF SYSTEMS			
O. ROOF TILE ADHESIVE			
P. SPRAY APPLIED			
POLYURETHANE ROOF		4	
Q. OTHER			
5. SHUTTERS			
A. ACCORDION			
В. ВАНАМА			
C. STORM PANELS			
D. COLONIAL			
E. ROLL-UP		1	
F, EQUIPMENT			
G. OTHERS			
6. SKYLIGHTS			
A. SKYLIGHT	Solatube	Skylights	FL 114BO
B. OTHER		07	
7. STRUCTURAL			
COMPONENTS			
A. WOOD CONNECTORS/	10.	Par - 1 - 1	b 4 4 4 5
ANCHORS	Simpson	Connectors	FL 1589-11
B. TRUSS PLATES		The same of the sa	FL 1630,1
C. ENGINEERED LUMBER	ILEVEL	Lucis, Eng humber	
D. BAILING			
E. COOLERS-FREEZERS			
F. CONCRETE ADMIXTURES	11 32/2 0		
G. MATERIAL			
H. INSULATION FORMS			
I. PLASTICS			
J. DECK-ROOF			
K. WALL			
L. SHEDS		* ,	
M. OTHER			
8, NEW EXTERIOR			
ENVELOPE PRODUCTS			
Α.			The state of the s
В.	G N		1.469
U,			

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

FLORIDA BUILDING
CODE, ENERGY
CONSERVATION

FORM Residential Building ALL
402- Thermal Envelope CLIMATE
2010 Approach 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 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: AND ADDRESS:	BUILDER: Gary Johnson		
	PERMITTING OFFICE:		
OWNER: Beasley	PERMIT JURISDICTION NO.: 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 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.

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- 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.

		Please Print	CK
1. New construction	n, addition, or existing building	1. New	
2. Single-family de	tached or multiple-family attached	2. Single	
3. If multiple-family	-No. of units covered by this submission	3.	
4. Is this a worst ca	ase? (yes/no)	4.	
5. Conditioned floo	or area (sq. ft.)	5. 1880	
6. Glass type and a	лгеа:		
a U-factor		6a. how E	-
b SHGC c Glass area		6b. 6c. 3.9 0 sq. ft.	
7. Percentage of gl		04.11	
		7 %	777.7
	or perimeter, and insulation: rade (R. value)	8a. R = O lin. ft.	
h Wood, rai		8a. R = O lin. ft. 8b. R = sq. ft.	110000
e Wood, cor	nmon (R-value)	8c. R= sq.ft.	
	raised (R-value)	8d. R = sq. ft.	
e. Concrete,	common (R-value)	8e. R = sq. ft.	-
9. Wall type, area a	nd insulation:		
a Exterior	1. Masonry (Insulation R-value)	9a-1. R= sq.ft.	
	2. Wood frame (Insulation R-value)	9a-2. R= /3 sq. ft.	
b. Adjacent:		9b-1, R = sq. ft.	
	Wood frame (Insulation R-value)	9b-2. R =sq. ft.	
Ceiling type, are	a and insulation:		
	. (Insulation R-value)	10a. R= 30 sq.ft. 1880	
h Single ass	embly (Insulation R-value)	10b. R = sq. ft.	
	system: Duct insulation, location, Qn	- ()	
	ion, insulation	11a. R= 6, b	-4
b. AHU loca		11b. 11c.Test report attached? Yes No	
	eport attached (< 0.03; yes/no)		
12. Cooling system:		12a. Type: Centrel	
a. Type b. Efficiency		12b. SEER/EER: /4	
13. Heating system:		13a. Type: 13b. HSPF/COP/AFUE: 7.7	
a. Type b. Efficiency		ISB. HOPP/COP/APOE.	-
14. HVAC sizing calc	culation: attached	14. Yes No	
15. Hot water system	n:	150 Type: Electric	
a. Type		isa. Type.	
 Efficiency 		15b. EF: •90	

I hereby certify that the plans and specifications covered by the calculation are in compliance with the Florida Energy Code

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.

DATE: 6-25-73 CODE OFFICIAL:

I hereby certify that this building is in compliance with the Florida Energy Code:

111	1	000			
E-	(0	d	0	C
1.		U	u	•	

Page 2 of 2

OWNER AGENT:	DATE:	DATE:	

OWNER AGENT:	DATE:	DATE:	
Page 1 Dutil see the place as well and second second Asia at			

TABLE 402A

BUILDING COMPONENT	PERFORMANCE CRITERIA ¹	INSTA VALU	
	U-Factor < 0.65		
Windows (see Note 2):	SHGC = 0.30	U-Factor =	
	% of CFA <= 20%	SHGC =	
Skylights	U-Factor < 0.75	% of CFA =	
Doors: Exterior door U-Factor	U-Factor < 0.65	U-Factor =	
Floors: Slab-on-grade	No requirement	D. Value =	
Over unconditioned spaces (see Note 3)	R-13	R-Value =	
Walls – Ext. and Adj. (see Note 3): Frame	R-13	R-Value =	
Mass (see Note 3)			
Interior of wall:	R-7.8	R-Value =	
Exterior of wall:	R-6	R-Value =	
Ceilings (see Notes 3 & 4)	R=30	R-Value =	Test report Attached?
Reflectance	0.25	Reflectance =	Yes/No
Air distribution system (see Note 4)			
Ductwork & air handling unit:		Location:	
Unconditioned space	Not allowed		Test report Attached?
Conditioned space			Yes/No
Duct R-value	R-value > 6	R-Value =	
Air leakage Qn	Qn ≤0.03	Qn =	
Air conditioning systems (see Note 5)	SEER = 13.0	SEER =	
Heating system			
Heat pump (see Note 5) Cooling:	SEER = 13.0	SEER = 14)
Heating:	HSPF = 7.7	HSPF =	
Gas furnace	AFUE 78%	AFUE =	
Oil furnace	AFUE 78%	AFUE =	
Electric resistance: Not allowed (see Note			
5)			
Water heating system (storage type)			
Electric (see Note 6):	40 gal: EF = 0.92 50 gal: EF = 0.90	Gallons = EF =	
Gas fired (see Note 7):	40 gal: EF = 0.59	Gallons =	
Other (describe):	50 gal: EF = 0.58	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- $(0.00132 \times \text{volume})$.
- (7) For other natural gas storage volumes, minimum EF = 0.67-($0.0019 \times \text{volume}$).

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. 30	V
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 $Q_n = 0.03$ 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.	W/A

2		Off/timer switch required. Gas heaters minimum thermal efficiency = 78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	NA
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.	