

Permit # 39578

Mark Disosway, P.E.

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7/27/20

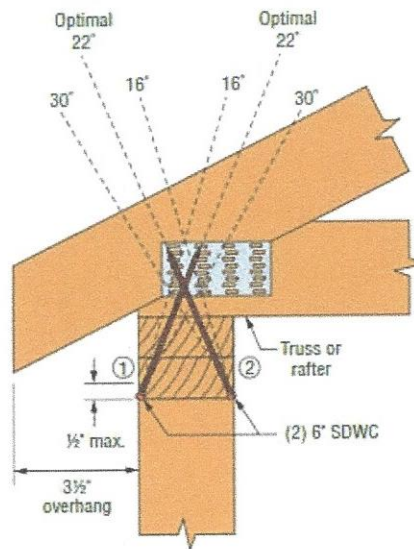
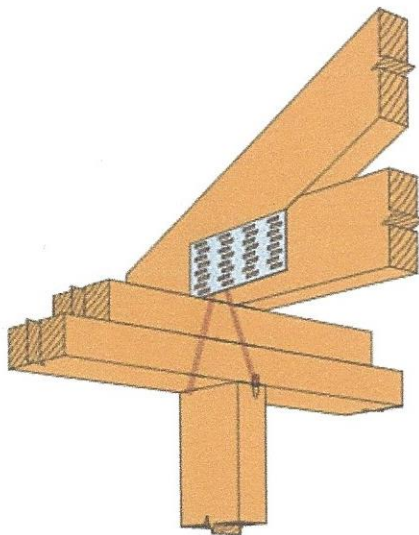
Columbia County Building Department

Re: Edgley Construction: Jenkins, Charles | Detached Garage

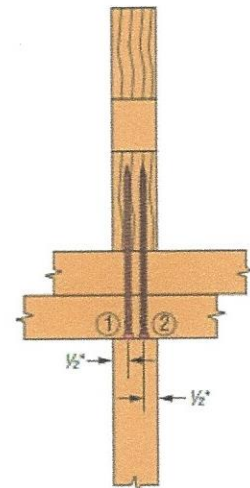
To whom it may concern:

This letter is in reference to inspection issues on the above referenced project.

1. On the engineering we called for a drag load connector to be installed on truss T08. This could not be installed because of trusses in the way. Below is the fix.
 - a. Hold down truss T08 with (4) Simpson SDWC15600 screws (2) each ply of truss.
 - b. Install (2) CS20, 14-10d horizontally @ top plates around inside corner under truss.



Installation Angle Range



Minimum Edge Distances

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Mark Disosway, PE
Florida Professional Engineer #53915

Configuration C:

Install through Top Plate into Truss/Rafter

Both screws installed at a 16°–30° angle, offset 1/2" from the opposite edges of truss/rafter.
Use metal installation guide included in screw kits for optimal 22° installation.

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FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 191293 Jenkins Garage - Revised Street: 5310 SE Country Club Road City, State, Zip: Lake City, FL, 32025 Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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1. New construction or existing New (From Plans) 2. Single family or multiple family Single-family 3. Number of units, if multiple family 1 4. Number of Bedrooms 0 5. Is this a worst case? Yes 6. Conditioned floor area above grade (ft²) 1728 Conditioned floor area below grade (ft²) 0 7. Windows (111.3 sqft.) Description Area a. U-Factor: Dbl, U=0.34 111.33 ft² SHGC: SHGC=0.31 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 31.632 ft. Area Weighted Average SHGC: 0.310 8. Floor Types (1728.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1728.00 ft² b. N/A R= ft² c. N/A R= ft²	9. Wall Types (1720.0 sqft.) Insulation Area a. Face Brick - Wood, Exterior R=19.0 1720.00 ft² b. N/A R= ft² c. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (1728.0 sqft.) Insulation Area a. Under Attic (Vented) R=38.0 1728.00 ft² b. N/A R= ft² c. N/A R= ft² 11. Ducts R ft² a. Sup: Attic, Ret: Main, AH: Main 6 280 12. Cooling systems kBtu/hr Efficiency a. Central Unit 29.0 SEER:14.00 13. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 29.0 HSPF:8.50 14. Hot water systems a. Propane Tankless Cap: 1 gallons b. Conservation features EF: 0.590 None 15. Credits Pstat
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Glass/Floor Area: 0.064	Total Proposed Modified Loads: 42.91	PASS
	Total Baseline Loads: 43.83	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>Evan Beamsley</u> DATE: <u>2020-07-27</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____	Review of the 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 with Section 553.908 Florida Statutes. BUILDING OFFICIAL: _____ DATE: _____
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- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	191293 Jenkins Garage - Rev	Bedrooms:	0	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1728	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:		Rotate Angle:	90	Street:	5310 SE Country Club
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32025
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1728	17280

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1728	17280	Yes	6	0	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	172 ft	0	1728 ft²	----	0.3	0.3	0.4

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	1933 ft²	0 ft²	Dark	N	0.92	No	0.9	No	0	26.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1728 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Blown	1728 ft²	0	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N=>E	Exterior	Face Brick - Wood	Main	19	54	10	540.0 ft²		0.23	0.75	0
2	E=>S	Exterior	Face Brick - Wood	Main	19	32	10	320.0 ft²		0.23	0.75	0
3	S=>W	Exterior	Face Brick - Wood	Main	19	54	10	540.0 ft²		0.23	0.75	0
4	W=>N	Exterior	Face Brick - Wood	Main	19	32	10	320.0 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
1	N=>E	Insulated	Main	None	.4	2	8	16 ft²
2	S=>W	Insulated	Main	None	.4	2	8	16 ft²
3	S=>W	Insulated	Main	None	.4	10	8	80 ft²
4	S=>W	Insulated	Main	None	.4	10	8	80 ft²
5	W=>N	Insulated	Main	None	.4	2	8	16 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	N=>E	1	Metal	Low-E Double	Yes	0.34	0.31	N	30.0 ft²	1 ft 6 in	1 ft 6 in	None	None
2	N=>E	1	Metal	Low-E Double	Yes	0.34	0.31	N	8.0 ft²	1 ft 6 in	1 ft 6 in	None	None
3	E=>S	2	Metal	Low-E Double	Yes	0.34	0.31	N	12.0 ft²	1 ft 6 in	1 ft 6 in	None	None
4	S=>W	3	Metal	Low-E Double	Yes	0.34	0.31	N	21.3 ft²	9 ft 6 in	1 ft 6 in	None	None
5	S=>W	3	Metal	Low-E Double	Yes	0.34	0.31	N	8.0 ft²	9 ft 6 in	1 ft 6 in	None	None
6	W=>N	4	Metal	Low-E Double	Yes	0.34	0.31	N	32.0 ft²	99 ft 0 in	2 ft 0 in	None	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000445	2016	110.68	208.14	.183	7

HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	None	Singl	HSPF:8.5	29 kBtu/hr	1	sys#1

COOLING SYSTEM

✓ #	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit/	None	Singl	SEER: 14	29 kBtu/hr	870 cfm	0.75	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Propane	Tankless	Main	0.59	1 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
	None	None			ft²		

DUCTS

✓	#	--- Supply --- Location	R-Value	Area	--- Return --- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
	1	Attic	6	280 ft²	Main	1 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec

Thermostat Schedule: HERS 2006 Reference

Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Main

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>0</u>	c) AHU location <u>Main</u>
5. Is this a worst case? (yes/no)	5. <u>Yes</u>	13. Cooling system: Capacity <u>29.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>1728</u>	a) Split system SEER <u> </u>
7. Windows, type and area		b) Single package SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.340</u>	c) Ground/water source SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.310</u>	d) Room unit/PTAC EER <u> </u>
c) Area	7c. <u>111.3</u>	e) Other <u>14.0</u>
8. Skylights		14. Heating system: Capacity <u>29.0</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other <u>8.50</u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u> </u>
1. Wood frame (Insulation R-value)	10A1. <u>19.0</u>	b) Gas fired, natural gas EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG EF <u>0.59</u>
B. Adjacent:		d) Solar system with tank EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u> </u>	e) Dedicated heat pump with tank EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other <u> </u>
a) Under attic	11a. <u>38.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u> </u>	a) Ceiling fans <u> </u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation <u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u> </u>
		e) Multizone heating credit <u> </u>
		f) Programmable thermostat <u>Yes</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL display card will be completed based on installed code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: 5310 SE Country Club Road City/FL Zip: Lake City, FL 32025