

VULCAN STEEL STRUCT.
500 VULCAN PARKWAY
ADEL, GA 31620

DATE: 2/ 8/08

FLOOR-N-DECOR
Re: JOB NO. 18056R12
BUILDING SIZE:
WIDTH : 94.333 ft.
LENGTH : 90 ft.
EAVE HT : 20 ft.

JOBSITE : LAKE CITY, FL

BUDG # 3
Permit Appl # 0801-14

To Whom It May Concern:

This is to certify that the above referenced building is designed in accordance with the order documentation, the Thirteenth Edition of the American Institute of Steel Construction (AISC) "Manual of Steel Construction" and the 2001 Edition of American Iron and Steel Institute (AISI) "Cold Formed Steel Design Manual. The basic loads of the subject building meet or exceed the minimum county climatic data as published in the 2002 edition of the MBMA "Low Rise Building Systems Manual".

The criteria for application of design loads are follows
Governing Code : FBC 04 (with 06 Amendments)

Roof Dead Load : 2 psf plus wt. of metal bldg structure

Live Load based on the tributary area :

0 - 200 sq. ft.....20 psf
201 - 600 sq. ft.....See Sec 4.9.1 of ASCE 7-02
over 600 sq. ft.....12 psf

Collateral Load	: 3 psf	Roof Snow Load	: 0 psf
Wind Load (3 sec gust)	: 110 mph	Snow Exp. Fac	: N/A
Enclosure Type	: Closed	Snow Imp. Fac.	: N/A
Wind Exp. Cat	: B		
Wind Imp. Factor	: 1.00		
Ground Snow Load	: 0 psf		

This Letter of Certification applies solely to the building and its component parts as furnished by the Metal Building Manufacturer. Doors, windows and louvers are not structural components of the building. It is the responsibility of the owner to determine if wind lock accessories are supplied if required. Certification specifically excludes any foundation, masonry, or general contract work.
(3) HVAC Units @ 920 lbs. each
(2) Point Load of 4 Kips for Tower

Sincerely,

RICHARD T. SMITH, P.E.

Florida Energy Efficiency Code For Building Construction
Florida Department of Community Affairs
EnergyGauge FlaCom v 2.11 FORM 400A-2004
Whole Building Performance Method for Commercial Buildings

Jurisdiction: LAKE CITY, COLUMBIA COUNTY, FL (221200)

Short Desc: xrd-2

Project: Shops at the Cross Roads - ~~Building H~~

Owner: Chris and Carolyn Woolsey

Address:

Building III

City: Lake City

State: FL

Zip: 0

PermitNo: 0

Storeys: 1

Type: Office

Class: New Finished building

***Conditioned Area:** 6810

***Cond + UnCond Area:** 6810

* denotes lighted area. Does not include wall crosection areas

Max Tonnage: 7.5 (if different, write in)

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Use	5,551.87	6,407.53	PASSES
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			PASSES
HVAC SYSTEM			PASSES
PLANT			None Entered
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			None Entered
Met all required compliance from Check List?			Yes/No/NA

IMPORTANT NOTE: An input report Print-Out from EnergyGauge Com of this design building must be submitted along with this Compliance Report.

COMPLIANCE CERTIFICATION:

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Efficiency Code. PREPARED BY: <u>Gary Gill</u> DATE: _____ I hereby certify that this building is in compliance with the Florida Energy Efficiency 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 in accordance with Section 553.908, F.S. BUILDING OFFICIAL: _____ DATE: _____
If required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Code.	
ARCHITECT :	<u>Gary Gill</u> REGISTRATION No. <u>51942</u>
ELECTRICAL SYSTEM DESIGNER	<u>Gary Gill</u>
LIGHTING SYSTEM DESIGNER:	_____
MECHANICAL SYSTEM DESIGNER:	<u>Gary Gill</u>
PLUMBING SYSTEM DESIGNER:	_____

(*) Signature is required where Florida Law requires design to be performed by registered design professionals.
Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

G. Gill
12/24/0

Project: xrd-2
 Title: Shops at the Cross Roads - Building II
 Type: Office
 (WEA File: JACKSONVILLE.TMY)

Whole Building Compliance

	Design	Reference
Total	<i>87.34</i>	<i>100.00</i>
	<i>\$5,551.87</i>	<i>\$6,407.53</i>
ELECTRICITY(MBtu/kWh/\$)	87.34 110,595.00 <i>\$5,551.87</i>	100.00 126,631.00 <i>\$6,407.53</i>
AREA LIGHTS	16.71 21,168.00 <i>\$1,062.63</i>	18.12 22,941.00 <i>\$1,160.81</i>
MISC EQUIPMT	11.82 14,967.00 <i>\$751.34</i>	11.82 14,967.00 <i>\$757.33</i>
PUMPS & MISC	0.14 177.00 <i>\$8.89</i>	0.14 178.00 <i>\$9.01</i>
SPACE COOL	16.61 21,028.00 <i>\$1,055.61</i>	22.61 28,628.00 <i>\$1,448.58</i>
VENT FANS	42.06 53,255.00 <i>\$2,673.40</i>	47.32 59,917.00 <i>\$3,031.80</i>

Credits & Penalties (if any): Modified Points: = 87.35

PASSES

Project: xrd-2
 Title: Shops at the Cross Roads - Building II
 Type: Office
 (WEA File: JACKSONVILLE.TMY)

External Lighting Compliance

Description	Category	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Building Entrance with (or free standing) Canopy	3.00	100.0	300	100

Design: 300 (W)

Allowance: 300 (W)

PASSES

Project: xrd-2
 Title: Shops at the Cross Roads - Building II
 Type: Office
 (WEA File: JACKSONVILLE.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compliance
Pr0Zo1Sp1	16	Office - Open Plan	2,760	1	2	2	PASSES
Pr0Zo3Sp1	17	Office - Enclosed	2,250	1	1	1	PASSES
Pr0Zo4Sp1	17	Office - Enclosed	1,800	1	1	1	PASSES

PASSES

Project: xrd-2
Title: Shops at the Cross Roads - Building II
Type: Office
(WEA File: JACKSONVILLE.TMY)

System Report Compliance

Pr0Sy1 **System 4** **Constant Volume Packaged System** **No. of Units**
1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled 65000 to 135000 Btu/h Cooling Capacity		13.00	10.30	8.00		PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

Pr0Sy2 **System 4** **Constant Volume Packaged System** **No. of Units**
1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled 65000 to 135000 Btu/h Cooling Capacity		13.00	10.30	8.00		PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

Pr0Sy3 **System 6** **Constant Volume Air Cooled Single Package System < 65000 Btu/hr** **No. of Units**
1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		13.00	9.70	8.00		PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance
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None

Project: xrd-2
 Title: Shops at the Cross Roads - Building II
 Type: Office
 (WEA File: JACKSONVILLE.TMY)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	<= 12 [kW]	0.92	0.88			PASSES
							PASSES

Piping System Compliance							
Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
							None

Project: xrd-2
Title: Shops at the Cross Roads - Building II
Type: Office
(WEA File: JACKSONVILLE

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Infiltration	406.1	Infiltration Criteria have been met	☐
System	407.1	HVAC Load sizing has been performed	☐
Ventilation	409.1	Ventilation criteria have been met	☐
ADS	410.1	Duct sizing and Design have been performed	☐
T & B	410.1	Testing and Balancing will be performed	☐
Motors	414.1	Motor efficiency criteria have been met	☐
Lighting	415.1	Lighting criteria have been met	☐
O & M	102.1	Operation/maintenance manual will be provided to owner	☐
Roof/Ceil	404.1	R-19 for Roof Deck with supply plenums beneath it	☐
Report	101	Input Report Print-Out from EnergyGauge FlaCom attached?	☐

INPUT DATA REPORT

Project Information

Project Name: xrd-2

Orientation: North

Project Title: Shops at the Cross Roads - ~~Building III~~

Building Type: Office

Address: Building III

Building Classification: New Finished building

State: FL

No. of Storeys: 1

Zip: 0

GrossArea: 6810

Owner: Chris and Carolyn Woolsey

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Pr0Zo1	Zone 1	CONDITIONED	2760.0	1	2760.0	☐
2	Pr0Zo2	Zone 3	CONDITIONED	2250.0	1	2250.0	☐
3	Pr0Zo3	Zone 4	CONDITIONED	1800.0	1	1800.0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]
In Zone: Pr0Zo1									
1	Pr0Zo1Sp1	Zo0Sp1	Office - Open Plan	46.00	60.00	8.00	1	2760.0	22080.0
In Zone: Pr0Zo2									
1	Pr0Zo3Sp1	Zo0Sp1	Office - Enclosed	75.00	30.00	8.00	1	2250.0	18000.0
In Zone: Pr0Zo3									
1	Pr0Zo4Sp1	Zo0Sp1	Office - Enclosed	60.00	30.00	12.00	1	1800.0	21600.0

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No. of Ctrl pts
In Zone: Pr0Zo1							
In Space: Pr0Zo1Sp1							
1	Compact Fluorescent	General Lighting	24	128	3072	Manual On/Off	2
In Zone: Pr0Zo2							
In Space: Pr0Zo3Sp1							
1	Recessed Fluorescent - No vent	General Lighting	18	128	2304	Manual On/Off	1
In Zone: Pr0Zo3							
In Space: Pr0Zo4Sp1							
1	Recessed Fluorescent - No vent	General Lighting	12	128	1536	Manual On/Off	1

Walls

No	Description	Type	Width [ft]	H (Effe) [ft]	Multi plier	Area [sf]	Direction [Btu/hr. sf. F]	Conductance [Btu/sf.F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1											

1	Pr0Zo1Wa1	0.5 Pol/3/5/8" Mtl std@24"oc/R11/0.5" Gyp	60.00	10.00	1	600.0	North	0.0732	0.5408	7.94	13.66	☐
2	Pr0Zo1Wa1	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	60.00	10.00	1	600.0	South	0.2642	9.6960	62.72	3.79	☐
3	Pr0Zo1Wa1	0.5 Pol/3/5/8" Mtl std@24"oc/R11/0.5" Gyp	46.00	10.00	1	460.0	West	0.0732	0.5408	7.94	13.66	☐
4	Pr0Zo1Wa1	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	46.00	10.00	1	460.0	East	0.2642	9.6960	62.72	3.79	☐
In Zone: Pr0Zo2												
1	Pr0Zo3Wa1	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	30.00	8.00	1	240.0	South	0.2642	9.6960	62.72	3.79	☐
2	Pr0Zo3Wa2	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	75.00	10.00	1	750.0	West	0.2642	9.6960	62.72	3.79	☐
3	Pr0Zo3Wa3	0.5 Pol/3/5/8" Mtl std@24"oc/R11/0.5" Gyp	30.00	8.00	1	240.0	North	0.0732	0.5408	7.94	13.66	☐
4	Pr0Zo3Wa4	0.5 Pol/3/5/8" Mtl std@24"oc/R11/0.5" Gyp	75.00	10.00	1	750.0	North	0.0732	0.5408	7.94	13.66	☐
In Zone: Pr0Zo3												
1	Pr0Zo4Wa1w	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	60.00	10.00	1	600.0	West	0.2642	9.6960	62.72	3.79	☐
2	Pr0Zo4Wa2s	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	30.00	10.00	1	300.0	South	0.2642	9.6960	62.72	3.79	☐
3	Pr0Zo4Wa3	0.5 Pol/3/5/8" Mtl std@24"oc/R11/0.5" Gyp	60.00	10.00	1	600.0	East	0.0732	0.5408	7.94	13.66	☐
4	Pr0Zo4Wa4n	0.5 Pol/3/5/8" Mtl std@24"oc/R11/0.5" Gyp	30.00	10.00	1	300.0	North	0.0732	0.5408	7.94	13.66	☐

Windows

No	Description	Type	Shaded?	U [Btu/hr sf F]	SHG	Vis.Tr	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]
In Zone: Pr0Zo1										
In Wall: Pr0Zo1Wa1E										
1	Pr0Zo1Wa4Wi1	User Defined	No	0.4500	0.52	0.57	6.00	6.00	1	36.0
In Wall: Pr0Zo1Wa1S										
1	Pr0Zo1Wa2Wi1	User Defined	No	0.4500	0.34	0.21	12.00	7.00	1	84.0
2	Pr0Zo1Wa2Wi1	User Defined	No	0.4500	0.34	0.21	12.00	6.00	2	144.0
3	Pr0Zo1Wa2Wi3	User Defined	No	0.4500	0.34	0.21	6.00	7.00	1	42.0
In Zone: Pr0Zo2										
In Wall: Pr0Zo3Wa1S										
1	Pr0Zo3Wa1Wi1	User Defined	No	0.4500	0.34	0.21	6.00	6.00	1	36.0

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1											
In Wall: Pr0Zo1Wa1N											
1	Pr0Zo1Wa1Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21
In Wall: Pr0Zo1Wa1E											
1	Pr0Zo1Wa4Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21
In Zone: Pr0Zo2											
In Wall: Pr0Zo3Wa2w											
1	Pr0Zo3Wa2Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21
In Wall: Pr0Zo3Wa3n											
1	Pr0Zo3Wa3Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.s.f./Btu]
In Zone: Pr0Zo1											
1	Pr0Zo1Rf1	T24R19b	20.00	60.00	1	1200.0	0.00	0.0339	0.86	5.47	29.51
In Zone: Pr0Zo2											
1	Pr0Zo3Rf1	Mtl Bldg Roof/R-19 Batt	30.00	75.00	1	2250.0	0.00	0.0492	1.34	9.49	20.34
In Zone: Pr0Zo3											
1	Pr0Zo4Rf1	Mtl Bldg Roof/R-19 Batt	60.00	30.00	1	1800.0	0.00	0.0492	1.34	9.49	20.34

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis. Tran	W [ft]	H (Effec) [ft]	Multiplier	Area [SF]	Total Area [SF]
In Zone: In Roof										

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.s.f./Btu]
In Zone: Pr0Zo1										
1	Pr0Zo1F11	Concrete floor, carpet and rubber pad	46.00	60.00	1	2760.0	0.5987	9.33	140.00	1.67
In Zone: Pr0Zo2										
1	Pr0Zo3F11	Concrete floor, carpet and rubber pad	30.00	75.00	1	2250.0	0.5987	9.33	140.00	1.67
In Zone: Pr0Zo3										

1	Pr0Zo4F11	Concrete floor, carpet and rubber pad	60.00	30.00	1	1800.0	0.5987	9.33	140.00	1.67	☐
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Systems

Pr0Sy1		System 4	Constant Volume Packaged System			No. Of Units	1
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System (Air Cooled 65000 to 135000 Btu/h Cooling Capacity)		90000.00	13.00	8.00		☐
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)		3000.00	0.80			☐
Pr0Sy2		System 4	Constant Volume Packaged System			No. Of Units	1
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System (Air Cooled 65000 to 135000 Btu/h Cooling Capacity)		90000.00	13.00	8.00		☐
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)		3000.00	0.80			☐
Pr0Sy3		System 6	Constant Volume Air Cooled Single Package System < 65000 Btu/hr			No. Of Units	1
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)		48000.00	13.00	8.00		☐
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)		1600.00	0.80			☐
Plant							
Equipment	Category	Size	Inst.No	Eff.	IPLV		
							☐

Water Heaters

W-Heater Description	Capacit Cap Unit	I/P Rt.	Efficienc	Loss
1 Electric water heater	40 [Gal]	5 [kW]	0.9200 [Ef]	[Btu/h] ☐

Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]
1 Ext Light 1	Building Entrance with (or free standing) Canopy	3	100	100.00	Photo Sensor control	300.00 ☐

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
						☐

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
ASHULTpIClrW d-Vy-Fg frm	User Defined	3	0.4500	0.5200	0.5700 ☐
ASHULTpITntW d-Vy-Fg frm	User Defined	3	0.4500	0.3400	0.2100 ☐

Materials Used

Mat No	Acronym	Description	Only R-Value Used	R Value [h.s.f./Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	Specific Heat [Btu/lb.F]	
264	Mat264	ALUMINUM, 1/16 IN	No	0.0002	0.0050	26.0000	480.00	0.1000	☐
214	Mat214	POLYSTYRENE, EXP., 1-1/4IN,	No	5.2100	0.1042	0.0200	1.80	0.2900	☐
187	Mat187	GYP OR PLAS BOARD, 1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	☐
151	Mat151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000	☐
178	Mat178	CARPET W/RUBBER PAD	Yes	1.2300					☐
105	Mat105	CONC BLK HW, 8IN, HOLLOW	No	1.1002	0.6667	0.6060	69.00	0.2000	☐
269	Mat269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000	☐
12	Mat12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	☐
218	Mat218	POLYURETHANE, EXP., 1/2 IN,	No	3.2077	0.0417	0.0130	1.50	0.3800	☐
23	Mat23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	☐
244	Mat244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	☐
82	Mat82	ASPHALT-SHINGLE AND SIDING	Yes	0.4400					☐
94	Mat94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	☐
91	Mat91	BUILDING PAPER, PERMEABLE FELT	Yes	0.0600					☐
407	Mat407	R-19 Generic Insulation	No	19.0000	0.4147	0.0218	0.30	0.2000	☐
414	Mat414	R-8 generic Insulation	No	8.0000	0.1746	0.0218	0.30	0.2000	☐
80	Mat80	AIR LAYER, 4IN OR MORE, HORIZ. ROOFS	Yes	0.9200					☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.sf.F/Btu]	
1002	Aluminum door, 1.25 in. polystyrene	No	No	0.19	0.53	43.67	5.2104	☐
Layer								
	Material No.	Material		Thickness [ft]	Framing Factor			
1	264	ALUMINUM, 1/16 IN		0.0050	0.00			☐
2	214	POLYSTYRENE, EXP., 1-1/4IN,		0.1042	0.00			☐
3	264	ALUMINUM, 1/16 IN		0.0050	0.00			☐
No Name								
		Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.sf.F/Btu]	
1004	Concrete floor, carpet and rubber pad	No	No	0.60	9.33	140.00	1.6703	☐
Layer								
	Material No.	Material		Thickness [ft]	Framing Factor			
1	151	CONC HW, DRD, 140LB, 4IN		0.3333	0.00			☐
2	178	CARPET W/RUBBER PAD			0.00			☐
No Name								
		Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.sf.F/Btu]	
1014	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	No	No	0.26	9.70	62.72	3.7856	☐
Layer								
	Material No.	Material		Thickness [ft]	Framing Factor			
1	105	CONC BLK HW, 8IN, HOLLOW		0.6667	0.00			☐
2	269	.75" ISO BTWN24" oc		0.0625	0.00			☐
3	187	GYP OR PLAS BOARD, 1/2IN		0.0417	0.00			☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.sf.F/Btu]	
1016	0.5 Pol/35/8" Mtl std@24"oc/R11/0.5"Gyp	No	No	0.07	0.54	7.94	13.6610	☐
Layer	Material No.	Material	Thickness [ft]	Framing Factor				
1	218	POLYURETHANE,EXP.,1/2IN,	0.0417	0.00	☐			
2	12	3 in. Insulation	0.2500	0.00	☐			
3	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.00	☐			
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.sf.F/Btu]	
1047	Mtl Bldg Roof/R-19 Batt	No	No	0.05	1.34	9.49	20.3366	☐
Layer	Material No.	Material	Thickness [ft]	Framing Factor				
1	94	BUILT-UP ROOFING, 3/8IN	0.0313	0.00	☐			
2	23	6 in. Insulation	0.5000	0.00	☐			

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/ct]	R/Value [h.sf.F/Btu]	
1053	T24R19b	No	No	0.03	0.86	5.47	29.5051	☐
Layer	Material No.	Material	Thickness [ft]	Framing Factor				
1	82	ASPHALT-SHINGLE AND SIDING		0.00				☐
2	91	BUILDING PAPER, PERMEABLE FELT		0.00				☐
3	244	PLYWOOD, 1/2IN	0.0417	0.00				☐
4	414	R-8 generic Insulation	0.1746	0.00				☐
5	407	R-19 Generic Insulation	0.4147	0.00				☐
6	80	AIR LAYER, 4IN OR MORE, HORIZ. ROOFS		0.00				☐
7	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.00				☐

INPUT DATA REPORT

Project Information

Project Name: ~~xxx-2~~

Orientation: North

Project Title: Shops at the Cross Roads ~~Building III~~

Building Type: Office

Address: **Building III**

Building Classification: New Finished building

State: FL

No. of Storeys: 1

Zip: 0

GrossArea: 6810

Owner: Chris and Carolyn Woolsey

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Pr0Zo1	Zone 1	CONDITIONED	2760.0	1	2760.0	☐
2	Pr0Zo2	Zone 3	CONDITIONED	2250.0	1	2250.0	☐
3	Pr0Zo3	Zone 4	CONDITIONED	1800.0	1	1800.0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]
In Zone: Pr0Zo1									
1	Pr0Zo1Sp1	Zo0Sp1	Office - Open Plan	46.00	60.00	8.00	1	2760.0	22080.0
In Zone: Pr0Zo2									
1	Pr0Zo3Sp1	Zo0Sp1	Office - Enclosed	75.00	30.00	8.00	1	2250.0	18000.0
In Zone: Pr0Zo3									
1	Pr0Zo4Sp1	Zo0Sp1	Office - Enclosed	60.00	30.00	12.00	1	1800.0	21600.0

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No. of Ctrl pts
In Zone: Pr0Zo1							
In Space: Pr0Zo1Sp1							
1	Compact Fluorescent	General Lighting	24	128	3072	Manual On/Off	2
In Zone: Pr0Zo2							
In Space: Pr0Zo3Sp1							
1	Recessed Fluorescent - No vent	General Lighting	18	128	2304	Manual On/Off	1
In Zone: Pr0Zo3							
In Space: Pr0Zo4Sp1							
1	Recessed Fluorescent - No vent	General Lighting	12	128	1536	Manual On/Off	1

Walls

No	Description	Type	Width [ft]	H (E)ffec [ft]	Multi plier	Area [sf]	Direction Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1										

1	Pr0Zo1Wal	0.5 Pol/35/8" Mtl std@24"oc/R11/0.5" Gyp	60.00	10.00	1	600.0	North	0.0732	0.5408	7.94	13.66	☐
2	Pr0Zo1Wal	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	60.00	10.00	1	600.0	South	0.2642	9.6960	62.72	3.79	☐
3	Pr0Zo1Wal	0.5 Pol/35/8" Mtl std@24"oc/R11/0.5" Gyp	46.00	10.00	1	460.0	West	0.0732	0.5408	7.94	13.66	☐
4	Pr0Zo1Wal	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	46.00	10.00	1	460.0	East	0.2642	9.6960	62.72	3.79	☐
In Zone: Pr0Zo2												
1	Pr0Zo3Wal	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	30.00	8.00	1	240.0	South	0.2642	9.6960	62.72	3.79	☐
2	Pr0Zo3Wa2	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	75.00	10.00	1	750.0	West	0.2642	9.6960	62.72	3.79	☐
3	Pr0Zo3Wa3	0.5 Pol/35/8" Mtl std@24"oc/R11/0.5" Gyp	30.00	8.00	1	240.0	North	0.0732	0.5408	7.94	13.66	☐
4	Pr0Zo3Wa4	0.5 Pol/35/8" Mtl std@24"oc/R11/0.5" Gyp	75.00	10.00	1	750.0	North	0.0732	0.5408	7.94	13.66	☐
In Zone: Pr0Zo3												
1	Pr0Zo4Walw	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	60.00	10.00	1	600.0	West	0.2642	9.6960	62.72	3.79	☐
2	Pr0Zo4Wa2s	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	30.00	10.00	1	300.0	South	0.2642	9.6960	62.72	3.79	☐
3	Pr0Zo4Wa3	0.5 Pol/35/8" Mtl std@24"oc/R11/0.5" Gyp	60.00	10.00	1	600.0	East	0.0732	0.5408	7.94	13.66	☐
4	Pr0Zo4Wa4n	0.5 Pol/35/8" Mtl std@24"oc/R11/0.5" Gyp	30.00	10.00	1	300.0	North	0.0732	0.5408	7.94	13.66	☐

Windows

No	Description	Type	Shaded?	U [Btu/hr sf F]	SHG	Vis.Tr	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]
In Zone: Pr0Z01										
In Wall: Pr0Z01Wa1E										
1	Pr0Z01Wa4Wi1	User Defined	No	0.4500	0.52	0.57	6.00	6.00	1	36.0
In Wall: Pr0Z01Wa1S										
1	Pr0Z01Wa2Wi1	User Defined	No	0.4500	0.34	0.21	12.00	7.00	1	84.0
2	Pr0Z01Wa2Wi1	User Defined	No	0.4500	0.34	0.21	12.00	6.00	2	144.0
3	Pr0Z01Wa2Wi3	User Defined	No	0.4500	0.34	0.21	6.00	7.00	1	42.0
In Zone: Pr0Z02										
In Wall: Pr0Z03Wa1S										
1	Pr0Z03Wa1Wi1	User Defined	No	0.4500	0.34	0.21	6.00	6.00	1	36.0

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.s.f/Btu]
In Zone: Pr0Z01											
In Wall: Pr0Z01Wa1N											
1	Pr0Z01Wa1Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21
In Wall: Pr0Z01Wa1E											
1	Pr0Z01Wa4Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21
In Zone: Pr0Z02											
In Wall: Pr0Z03Wa2w											
1	Pr0Z03Wa2Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21
In Wall: Pr0Z03Wa3n											
1	Pr0Z03Wa3Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.s.f./Btu]
In Zone: Pr0Zo1											
1	Pr0Zo1Rf1	T24R19b	20.00	60.00	1	1200.0	0.00	0.0339	0.86	5.47	29.51
In Zone: Pr0Zo2											
1	Pr0Zo3Rf1	Mtl Bldg Roof/R-19 Batt	30.00	75.00	1	2250.0	0.00	0.0492	1.34	9.49	20.34
In Zone: Pr0Zo3											
1	Pr0Zo4Rf1	Mtl Bldg Roof/R-19 Batt	60.00	30.00	1	1800.0	0.00	0.0492	1.34	9.49	20.34

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis. Tran	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone: In Roof										

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.s.f./Btu]
In Zone: Pr0Zo1										
1	Pr0Zo1F11	Concrete floor, carpet and rubber pad	46.00	60.00	1	2760.0	0.5987	9.33	140.00	1.67
In Zone: Pr0Zo2										
1	Pr0Zo3F11	Concrete floor, carpet and rubber pad	30.00	75.00	1	2250.0	0.5987	9.33	140.00	1.67
In Zone: Pr0Zo3										

1	Pr0Zo4FI1	Concrete floor, carpet and rubber pad	60.00	30.00	1	1800.0	0.5987	9.33	140.00	1.67	☐
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Systems

Pr0Sy1		System 4	Constant Volume Packaged System			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System (Air Cooled 65000 to 135000 Btu/h Cooling Capacity)	90000.00	13.00	8.00	☐	
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	3000.00	0.80		☐	
Pr0Sy2		System 4	Constant Volume Packaged System			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System (Air Cooled 65000 to 135000 Btu/h Cooling Capacity)	90000.00	13.00	8.00	☐	
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	3000.00	0.80		☐	
Pr0Sy3		System 6	Constant Volume Air Cooled Single Package System < 65000 Btu/hr			No. Of Units 1
Component	Category	Capacity	Efficiency	IPLV		
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	48000.00	13.00	8.00	☐	
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	1600.00	0.80		☐	

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV
☐					

Water Heaters

W-Heater Description	Capacit Cap.Unit	I/P Rt.	Efficienc	Loss
1 Electric water heater	40 [Gal]	5 [kW]	0.9200 [Ef]	[Btu/h] ☐

Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]
1 Ext Light 1	Building Entrance with (or free standing) Canopy	3	100	100.00	Photo Sensor control	300.00 ☐

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.s.f.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
						☐

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.s.f.F]	SHGC	VLT
ASHULTpIClrW d-Vy-Fg frm	User Defined	3	0.4500	0.5200	0.5700 ☐
ASHULTpITntW d-Vy-Fg frm	User Defined	3	0.4500	0.3400	0.2100 ☐

Materials Used

Mat No	Acronym	Description	Only R-Value Used	R-Value [h.s.f./Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	Specific Heat [Btu/lb.F]	
264	Matl264	ALUMINUM, 1/16 IN	No	0.0002	0.0050	26.0000	480.00	0.1000	☐
214	Matl214	POLYSTYRENE, EXP., 1-1/4IN.	No	5.2100	0.1042	0.0200	1.80	0.2900	☐
187	Matl187	GYP OR PLAS BOARD, 1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	☐
151	Matl151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000	☐
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					☐
105	Matl105	CONC BLK HW, 8IN, HOLLOW	No	1.1002	0.6667	0.6060	69.00	0.2000	☐
269	Matl269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000	☐
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	☐
218	Matl218	POLYURETHANE, EXP., 1/2 IN,	No	3.2077	0.0417	0.0130	1.50	0.3800	☐
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	☐
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	☐
82	Matl82	ASPHALT-SHINGLE AND SIDING	Yes	0.4400					☐
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	☐
91	Matl91	BUILDING PAPER, PERMEABLE FELT	Yes	0.0600					☐
407	Matl407	R-19 Generic Insulation	No	19.0000	0.4147	0.0218	0.30	0.2000	☐
414	Matl414	R-8 generic Insulation	No	8.0000	0.1746	0.0218	0.30	0.2000	☐
80	Matl80	AIR LAYER, 4IN OR MORE, HORIZ. ROOFS	Yes	0.9200					☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.s.f./Btu]																					
1002	Aluminum door, 1.25 in. polystyrene	No	No	0.19	0.53	43.67	5.2104	☐																				
<table><tr><th>Layer</th><th>Material No.</th><th>Material</th><th>Thickness [ft]</th><th>Framing Factor</th></tr><tr><td>1</td><td>264</td><td>ALUMINUM, 1/16 IN</td><td>0.0050</td><td>0.00</td></tr><tr><td>2</td><td>214</td><td>POLYSTYRENE, EXP., 1-1/4IN,</td><td>0.1042</td><td>0.00</td></tr><tr><td>3</td><td>264</td><td>ALUMINUM, 1/16 IN</td><td>0.0050</td><td>0.00</td></tr></table>									Layer	Material No.	Material	Thickness [ft]	Framing Factor	1	264	ALUMINUM, 1/16 IN	0.0050	0.00	2	214	POLYSTYRENE, EXP., 1-1/4IN,	0.1042	0.00	3	264	ALUMINUM, 1/16 IN	0.0050	0.00
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No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.s.f./Btu]																					
1004	Concrete floor, carpet and rubber pad	No	No	0.60	9.33	140.00	1.6703	☐																				
<table><tr><th>Layer</th><th>Material No.</th><th>Material</th><th>Thickness [ft]</th><th>Framing Factor</th></tr><tr><td>1</td><td>151</td><td>CONC HW, DRD, 140LB, 4IN</td><td>0.3333</td><td>0.00</td></tr><tr><td>2</td><td>178</td><td>CARPET W/RUBBER PAD</td><td></td><td>0.00</td></tr></table>									Layer	Material No.	Material	Thickness [ft]	Framing Factor	1	151	CONC HW, DRD, 140LB, 4IN	0.3333	0.00	2	178	CARPET W/RUBBER PAD		0.00					
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1014	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	No	No	0.26	9.70	62.72	3.7856	☐																				
<table><tr><th>Layer</th><th>Material No.</th><th>Material</th><th>Thickness [ft]</th><th>Framing Factor</th></tr><tr><td>1</td><td>105</td><td>CONC BLK HW, 8IN, HOLLOW</td><td>0.6667</td><td>0.00</td></tr><tr><td>2</td><td>269</td><td>.75" ISO BTWN24" oc</td><td>0.0625</td><td>0.00</td></tr><tr><td>3</td><td>187</td><td>GYP OR PLAS BOARD, 1/2IN</td><td>0.0417</td><td>0.00</td></tr></table>									Layer	Material No.	Material	Thickness [ft]	Framing Factor	1	105	CONC BLK HW, 8IN, HOLLOW	0.6667	0.00	2	269	.75" ISO BTWN24" oc	0.0625	0.00	3	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.00
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No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.s.f./Btu]	
1016	0.5 Pol/35/8" Mtl std@24"oc/R11/0.5"Gyp	No	No	0.07	0.54	7.94	13.6610	☐
Layer								
	Material No.	Material	Thickness [ft]	Framing Factor				
	1	218 POLYURETHANE,EXP.,1/2IN,	0.0417	0.00	☐			
	2	12 3 in. Insulation	0.2500	0.00	☐			
	3	187 GYP OR PLAS BOARD,1/2IN	0.0417	0.00	☐			
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.s.f./Btu]	
1047	Mtl Bldg Roof/R-19 Batt	No	No	0.05	1.34	9.49	20.3366	☐
Layer								
	Material No.	Material	Thickness [ft]	Framing Factor				
	1	94 BUILT-UP ROOFING, 3/8IN	0.0313	0.00	☐			
	2	23 6 in. Insulation	0.5000	0.00	☐			

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	R Value [h.sf.F/Btu]	
1053	T24R19b	No	No	0.03	0.86	5.47	29.5051	☐
Layer	Material No.	Material	Thickness [ft]	Framing Factor				
1	82	ASPHALT-SHINGLE AND SIDING		0.00				☐
2	91	BUILDING PAPER, PERMEABLE FELT		0.00				☐
3	244	PLYWOOD, 1/2IN	0.0417	0.00				☐
4	414	R-8 generic Insulation	0.1746	0.00				☐
5	407	R-19 Generic Insulation	0.4147	0.00				☐
6	80	AIR LAYER, 4IN OR MORE, HORIZ. ROOFS		0.00				☐
7	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.00				☐

VULCAN STEEL STRUCT.
500 VULCAN PARKWAY
ADEL, GA 31620

DATE: 12/12/07

FLOOR-N-DECOR
Re: JOB NO. 18056-2
BUILDING SIZE:
WIDTH : 95 ft.
LENGTH : 90 ft.
EAVE HT : 20 ft.

JOBSITE : LAKE CITY, FL

To Whom It May Concern:

This is to certify that the above referenced building is designed in accordance with the order documentation, the Thirteenth Edition of the American Institute of Steel Construction (AISC) "Manual of Steel Construction" and the 2001 Edition of American Iron and Steel Institute (AISI) "Cold Formed Steel Design Manual. "The basic loads of the subject building meet or exceed the minimum county climatic data as published in the 2002 edition of the MBMA "Low Rise Building Systems Manual ".

The criteria for application of design loads are follows
Governing Code : FBC 04 (with 06 Amendments)

Roof Dead Load : 2 psf plus wt. of metal bldg structure

Live Load based on the tributary area :

0 - 200 sq. ft.....20 psf
201 - 600 sq. ft.....See Sec 4.9.1 of ASCE 7-02
over 600 sq. ft.....12 psf

Collateral Load	: 3 psf	Roof Snow Load	: 0 psf
Wind Load (3 sec gust)	: 110 mph	Snow Exp. Fac	: N/A
Enclosure Type	: Closed	Snow Imp. Fac.	: N/A
Wind Exp. Cat	: B		
Wind Imp. Factor	: 1.00		
Ground Snow Load	: 0 psf		

This Letter of Certification applies solely to the building and its component parts as furnished by the Metal Building Manufacturer. Doors, windows and louvers are not structural components of the building. It is the responsibility of the owner to determine if wind lock accessories are supplied if required. Certification specifically excludes any foundation, masonry, or general contract work.

Sincerely,

RICHARD T. SMITH, P.E.

Richard T. Smith

PE # 43547

102 Main Street Ste#212

Lagrange, Georgia Ph: (706) 888-4874

REVIEWED

By Richard T. Smith at 9:13 pm, Dec 20, 2007