

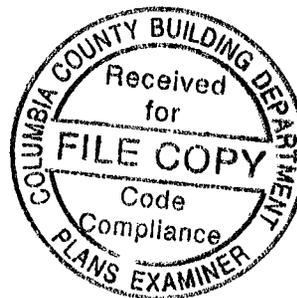
Florida Energy Efficiency Code For Building Construction

EnergyGauge Summit® Fla/Com-2010, Effective Date: March 15, 2012 -- Form 506-2010

Total Building Performance Method for Commercial Buildings

PROJECT SUMMARY

Short Desc: 14CAL04	Description: FMC Lake City, FL Bldg Shell
Owner: Lake City Renal Construction, LLC	
Address1: SW Orthopedic Ct	City: Lake City
Address2:	State: Florida
	Zip: 32024
Type: Healthcare-Clinic	Class: New Shell building
Jurisdiction: LAKE CITY, COLUMBIA COUNTY, FL (221200)	
Conditioned Area: 10146 SF	Conditioned & UnConditioned Area: 10146 SF
No of Stories: 1	Area entered from Plans: 10203 SF
Permit No:	Max Tonnage: 10.6
	If different, write in: _____



Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in \$)	5,517.0	7,682.0	PASSED
LIGHTING CONTROLS			FAILS
EXTERNAL LIGHTING			PASSES
HVAC SYSTEM			FAILS
PLANT			None Entered
WATER HEATING SYSTEMS			None Entered
PIPING SYSTEMS			None Entered
Met all required compliance from Check List?			Yes/No/NA

IMPORTANT MESSAGE

Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report

Info 5008 -- -- -- All assumptions made about features not installed until later that are not on the building plans shall be listed and appended to the compliance form submitted to the building department Unless the building is completed as per all assumptions made in the original code compliance submittal, a revised code submittal(s) using Method A shall be submitted when completion of the building (or part of the building) is permitted

CERTIFICATIONS

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

Prepared By Toby Bower

Building Official _____

Date 9/15/14

Date _____

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

Owner Agent Luke Peters

Date _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect Kristi Daniel

Reg No _____

Electrical Designer Gina Henning

Reg No _____

Lighting Designer Gina Henning

Reg No _____

Mechanical Designer Toby Bower

Reg No _____

Plumbing Designer Christian Gellert

Reg No _____

(*) Signature is required where Florida Law requires design to be performed by registered design professionals

Project: 14CAL04
 Title: FMC Lake City, FL Bldg Shell
 Type: Healthcare-Clinic
 (WEA File: FL JACKSONVILLE INTL ARPT.tn3)

Building End Uses

	1) Proposed	2) Baseline
Total	<i>352.50</i>	<i>612.60</i>
	<i>\$5,517</i>	<i>\$9,603</i>
ELECTRICITY(MBtu/kWh/\$)	352.50	612.60
	103312	179490
	<i>\$5,517</i>	<i>\$9,603</i>
AREA LIGHTS	0.60	136.00
	187	39843
	<i>\$10</i>	<i>\$2,132</i>
MISC EQUIPMT	152.20	152.20
	44593	44593
	<i>\$2,381</i>	<i>\$2,386</i>
PUMPS & MISC	0.30	0.40
	95	119
	<i>\$5</i>	<i>\$6</i>
SPACE COOL	118.00	126.10
	34573	36958
	<i>\$1,846</i>	<i>\$1,977</i>
SPACE HEAT	9.30	33.30
	2726	9753
	<i>\$146</i>	<i>\$522</i>
VENT FANS	72.10	164.60
	21138	48224
	<i>\$1,129</i>	<i>\$2,580</i>

Credits Applied: None

Passing Criteria = 7682

Design (including any credits) = 5517

Passing requires Proposed Building cost to be at most 80% of
 Baseline cost. This Proposed Building is at 57.5%

PASSES

Project: 14CAL04
 Title: FMC Lake City, FL Bldg Shell
 Type: Healthcare-Clinic
 (WEA File: FL JACKSONVILLE INTL ARPT.tn3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Uncovered Parking Areas -- Parking lots and Drives	Yes	0.15	29,415.0	4,412	836
Ext Light 2	Entry Canopies	Yes	1.25	926.0	1,158	464
Ext Light 3	Walk way less than 10 feet wide	Yes	1.00			564

Tradable Surfaces: 1864 (W) Allowance for Tradable: 4061.9 (W)
 All External Lighting: 1864 (W)
 Compliance check includes a excess/Base allowance of 750.00(W)

PASSES

Project: 14CAL04
 Title: FMC Lake City, FL Bldg Shell
 Type: Healthcare-Clinic
 (WEA File: FL JACKSONVILLE INTL ARPT.tn3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
Admin/Support	17	Office - Enclosed	5,522	1	3	FAILS
Patient A (Interior)	10,004	Exam/Treatment (Hospital)	2,941	1	2	FAILS
Building Shell	10,004	Exam/Treatment (Hospital)	1,683	1	1	PASSES

FAILS

Program w/ not accept 0. This is a Building shell & only 1 fixture other than emergency, is shown. Because we had to break out zones for the HVAC, the program required a lighting input even though there are no lights in these zones for the shell.

Air Handling System - Supply	Air Handler (Supply) - Constant Volume	0.20	0.82	PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume	0.22	0.82	PASSES
				FAILS

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

Water Heater Compliance								
Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance	
								None

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

Project: 14CAL04
 Title: FMC Lake City, FL Bldg Shell
 Type: Healthcare-Clinic
 (WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	506 4 2	Input Report Print-Out from EnergyGauge FlaCom attached	<input checked="" type="checkbox"/>
Operations Manual	303 3 1, 503 2 9 3, 505 7 4 2	Operations manual provided to owner	<input type="checkbox"/>
Windows & Doors	502 3 2	Glazed swinging entrance & revolving doors max 1 0 cfm/ft ² , all other products 0 3 cfm/ft ²	<input type="checkbox"/>
Joints/Cracks	502 3 3	To be caulked, gasketed, weather-stripped or otherwise sealed	<input type="checkbox"/>
Dropped Ceiling Cavity	502 3	Vented seal & insulated ceiling Unvented seal & insulate roof & side walls	<input type="checkbox"/>
HVAC Efficiency	503 2 3	Minimum efficiencies Tables 503 2 3(1)-(8)	<input type="checkbox"/>
HVAC Controls	503 2 4	Zone controls prevent reheat (exceptions), separate thermostatic control per zone,	<input type="checkbox"/>
Ventilation	503 2 5	Outdoor air supply & exhaust ducts shall have dampers that automatically shut when systems or spaces served are not in use Exhaust air energy recovery required for cooling systems (Exceptions)	<input type="checkbox"/>
ADS	503 2 7 5	Duct sizing and Design have been performed	<input type="checkbox"/>
HVAC Ducts	503 2 7	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Table 503 2 7 2 Fan power limitations	<input type="checkbox"/>
Balancing	503 2 9 1	HVAC distribution system(s) tested & balanced Report in construction documents	<input type="checkbox"/>
Piping Insulation	503 2 8	HAC and service hot water In accordance with Table 503 2 8	<input type="checkbox"/>
Water Heaters	504	Performance requirements in accordance with Table 504 2 Heat trap required	<input type="checkbox"/>
Swimming Pools	504 7	Vapor-retardant or liquid cover or other means proven to reduce heat loss on heated pools, Time switch (exceptions) readily accessible on/off switch	<input type="checkbox"/>
Motors	505 7 5	Motor efficiency criteria have been met	<input type="checkbox"/>
Lighting Controls	505 2 502 3	Automatic control required for interior lighting in buildings >5,000 s f Space control Exterior photo sensor Tandom wiring with 1 or 3 linear fluorescent lamps>30W	<input type="checkbox"/>

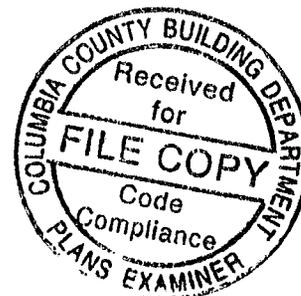
EnergyGauge Summit® v4.10
INPUT DATA REPORT

Project Information

Project Name 14CAL04	Orientation West
Project Title FMC Lake City FL Bldg Shell	Building Type Healthcare-Clinic
Address SW Orthopedic Ct	Building Classification New Shell building
State Florida	No of Stories 1
Zip 32024	GrossArea 10146 SF
Owner Lake City Renal Construction, LLC	

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	<input type="checkbox"/>
1	Admn/Support	Admn/Support	CONDITIONED	5522 0	1	5522 0	<input type="checkbox"/>
2	Patient A (Interior)	Patient A (Interior)	CONDITIONED	2941 0	1	2941 0	<input type="checkbox"/>
3	Patient B (Exterior)	Building Shell	CONDITIONED	1683 0	1	1683 0	<input type="checkbox"/>



Spaces										
No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]	
In Zone	Admin/Support									
1	Admin/Support	Admin/Support	Office Enclosed	81.00	68.17	16.00	1	5522.0	88352.2	<input type="checkbox"/>
In Zone	Patient A (Interior)									
1	Patient A (Interior)	Patient A (Interior)	Exam/Treatment (Hospital)	29.41	100.00	16.00	1	2941.0	47056.0	<input type="checkbox"/>
In Zone	Patient B (Exterior)									
1	Building Shell	Building Shell	Exam/Treatment (Hospital)	16.83	100.00	16.00	1	1683.0	26928.0	<input type="checkbox"/>

Lighting										
No	Type	Category	No of Luminaires	Watts per Luminaire	Power [W]	Control Type	No of Ctrl pts			
In Zone	Admin/Support									
In Space	Admin/Support									
1	LED	General Lighting	1	59	59	Manual On/Off	1			<input type="checkbox"/>
In Zone	Patient A (Interior)									
In Space	Patient A (Interior)									
1	LED	General Lighting	1	1	1	Manual On/Off	1			<input type="checkbox"/>
In Zone	Patient B (Exterior)									
In Space	Building Shell									
1	LED	General Lighting	1	1	1	Manual On/Off	1			<input type="checkbox"/>

Walls											
No	Description	Type	Width [ft]	H (Effective) [ft]	Multiplier	Area [sf]	Direction	Conductance [Btu/hr sf F]	Heat Capacity [Btu/sf F]	Dens [lb/cf]	R-Value [h sf F/Btu]
In Zone	Admin/Support										

1	N Wall	CUSTOM FMC EXTERIOR WALL	81 00	16 00	1	1296 0	North	0 0520	9 699	43 47	19 2	<input type="checkbox"/>
2	E Wall	CUSTOM FMC EXTERIOR WALL	31 00	16 00	1	496 0	East	0 0520	9 699	43 47	19 2	<input type="checkbox"/>
3	W Wall	CUSTOM FMC EXTERIOR WALL	126 00	16 00	1	2016 0	East	0 0520	9 699	43 47	19 2	<input type="checkbox"/>
4	S Wall	CUSTOM FMC EXTERIOR WALL	37 00	16 00	1	592 0	South	0 0520	9 699	43 47	19 2	<input type="checkbox"/>
In Zone		Patient B (Exterior)										
1	E Wall	CUSTOM FMC EXTERIOR WALL	96 00	16 00	1	1536 0	East	0 0520	9 699	43 47	19 2	<input type="checkbox"/>
2	S Wall	CUSTOM FMC EXTERIOR WALL	45 00	16 00	1	720 0	South	0 0520	9 699	43 47	19 2	<input type="checkbox"/>

Windows												
No	Description	Type	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]		
In Zone		Admin/Support										
In Wall	E Wall											
2	99 SF Window	User Defined	No	1.2500	0.82	0.76	9.00	11.00	1	99.0		<input type="checkbox"/>
In Wall	N Wall											
1	44 SF Window	User Defined	No	1.2500	0.82	0.76	4.00	11.00	1	44.0		<input type="checkbox"/>
2	99 SF Window	User Defined	No	1.2500	0.82	0.76	9.00	11.00	1	99.0		<input type="checkbox"/>
3	22 SF Window	User Defined	No	1.2500	0.82	0.76	4.00	5.50	5	110.0		<input type="checkbox"/>
4	36 SF Window	User Defined	No	1.2500	0.82	0.76	9.00	4.00	1	36.0		<input type="checkbox"/>
In Wall	W Wall											
3	22 SF Window	User Defined	No	1.2500	0.82	0.76	4.00	5.50	4	88.0		<input type="checkbox"/>
In Zone		Patient B (Exterior)										
In Wall	E Wall											
1	35 SF Window	User Defined	No	1.2500	0.82	0.76	5.00	7.00	1	35.0		<input type="checkbox"/>
3	22 SF Window	User Defined	No	1.2500	0.82	0.76	4.00	5.50	7	154.0		<input type="checkbox"/>
4	45 SF Window	User Defined	No	1.2500	0.82	0.76	9.00	5.00	1	45.0		<input type="checkbox"/>
In Wall	S Wall											
1	22 SF Window	User Defined	No	1.2500	0.82	0.76	4.00	5.50	2	44.0		<input type="checkbox"/>
2	45 SF Window	User Defined	No	1.2500	0.82	0.76	9.00	5.00	2	90.0		<input type="checkbox"/>

Doors												
No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond [Btu/hr. sf F]	Dens. [lb/cf]	Heat Cap [Btu/sf F]	R Value [h sf F/Btu]	
In Zone	Admin/Support											
In Wall	N Wall											
1	63 SF Sliding Door	Aluminum door 1 25 m polystyrene	No	9 00	7 00	1	63 0	0 1919	43 67	0 53	5 21	<input type="checkbox"/>
In Wall	W Wall											
1	21 SF Door	Aluminum door 1 25 m polystyrene	No	3 00	7 00	1	21 0	0 1919	43 67	0 53	5 21	<input type="checkbox"/>
2	42 SF Double Door	Aluminum door 1 25 m polystyrene	No	6 00	7 00	1	42 0	0 1919	43 67	0 53	5 21	<input type="checkbox"/>
In Wall	S Wall											
1	42 SF Double Door	Aluminum door 1 25 m polystyrene	No	6 00	7 00	1	42 0	0 1919	43 67	0 53	5 21	<input type="checkbox"/>
In Zone	Patient B (Exterior)											
In Wall	E Wall											
1	28 SF Door	Aluminum door 1 25 m polystyrene	No	4 00	7 00	1	28 0	0 1919	43 67	0 53	5 21	<input type="checkbox"/>

Roofs												
No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Tilt [deg]	Cond [Btu/hr. SF F]	Heat Cap [Btu/sf F]	Dens. [lb/cf]	R-Value [h.sf F/Btu]	
In Zone	Admin/Support											
1	Roof	CUSTOM FMC ROOF	68 17	81 00	1	5522 0	0 00	0 0483	1 45	13 80	20 7	<input type="checkbox"/>
In Zone	Patient A (Interior)											
1	Roof	CUSTOM FMC ROOF	20 00	29 41	1	588 2	0 00	0 0483	1 45	13 80	20 7	<input type="checkbox"/>
In Zone	Patient B (Exterior)											

1	Roof	CUSTOM FMC ROOF	100.00	16.83	1	1683.0	0.00	0.0483	1.45	13.80	20.7	<input type="checkbox"/>
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Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]	
In Zone											<input type="checkbox"/>
In Roof:											<input type="checkbox"/>

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 sf F/Btu]	
In Zone	Admin/Support	1 ft. soil, concrete floor carpet and rubber pad	68.17	81.00	1	5522.0	0.2681	34.00	113.33	3.73	<input type="checkbox"/>
In Zone	Patient A (Interior)	1 ft. soil, concrete floor carpet and rubber pad	100.00	29.41	1	2941.0	0.2681	34.00	113.33	3.73	<input type="checkbox"/>
In Zone	Patient B (Exterior)	1 ft soil concrete floor carpet and rubber pad	100.00	16.83	1	1683.0	0.2681	34.00	113.33	3.73	<input type="checkbox"/>

Systems

RTU-1, 2, 5	RTU-1, 2, 5	Constant Volume Packaged System							No. Of Units 3			
Component	Category	Capacity	Efficiency	IPLV								
1	Cooling System	78360.00	11.40	13.00								<input type="checkbox"/>

2	Heating System	44500 00	2 30	<input type="checkbox"/>	
3	Air Handling System -Supply	2400 00	0 21	<input type="checkbox"/>	
4	Air Handling System - Return	2400 00	0 27	<input type="checkbox"/>	
RTU-3	RTU-3	Constant Volume Packaged System		No. Of Units 1	
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	126630 00	11 20	13 10 <input type="checkbox"/>	
2	Heating System	68900 00	2 40	<input type="checkbox"/>	
3	Air Handling System -Supply	4000 00	0 31	<input type="checkbox"/>	
4	Air Handling System Return	4000 00	0 16	<input type="checkbox"/>	
RTU-4	RTU-4	Constant Volume Packaged System		No Of Units 1	
Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	94400 00	11 10	12 00 <input type="checkbox"/>	
2	Heating System	45500 00	2 30	<input type="checkbox"/>	
3	Air Handling System -Supply	3000 00	0 20	<input type="checkbox"/>	
4	Air Handling System Return	3000 00	0 22	<input type="checkbox"/>	
Plant					
Equipment	Category	Size	Inst.No	Eff	IPLV
					<input type="checkbox"/>
Water Heaters					
W Heater Description	Capacity Cap Unit	I/P Rt	Efficiency	Loss	<input type="checkbox"/>

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	Uncovered Parking Areas -- Parking lots and Drives	4	209	29415 00	Photo Sensor control	836 00	<input type="checkbox"/>
2	Ext Light 2	Entry Canopies	8	58	926 00	Astronomical Timer Contr	464 00	<input type="checkbox"/>
3	Ext Light 3	Walk way less than 10 feet wide	12	47	0 00	Astronomical Timer Contr	564 00	<input type="checkbox"/>

Piping						
No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
						<input type="checkbox"/>

Fenestration Used						
Name	Glass Type	No of Panes	Glass Conductance [Btu/h.sf F]	SHGC	VLT	
ASHULSglClrAll Frm	User Defined	1	1.2500	0 8200	0 7600	<input type="checkbox"/>

Materials Used									
Mat No	Acronym	Description	Only R-Value Used	RValue [h sf F/Btu]	Thickness [ft]	Conductivity [Btu/h ft F]	Density [lb/cf]	SpecificHeat [Btu/lb F]	
264	Mat1264	ALUMINUM 1/16 IN	No	0 0002	0 0050	26 0000	480 00	0 1000	<input type="checkbox"/>

214	Matl214	POLYSTYRENE, EXP 1 1/4IN	No	5.2100	0.1042	0.0200	1.80	0.2900	<input type="checkbox"/>
187	Matl187	GYP OR PLAS BOARD 1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	<input type="checkbox"/>
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					<input type="checkbox"/>
265	Matl265	Soil 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	<input type="checkbox"/>
48	Matl48	6 in Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	<input type="checkbox"/>
105	Matl105	CONC BLK HW 8IN HOLLOW	No	1.1002	0.6667	0.6060	69.00	0.2000	<input type="checkbox"/>
4	Matl4	Steel siding	No	0.0002	0.0050	26.0000	480.00	0.1000	<input type="checkbox"/>
11	Matl11	2 in Insulation	No	6.6800	0.1670	0.0250	2.00	0.2000	<input type="checkbox"/>
94	Matl94	BUILT UP ROOFING 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	<input type="checkbox"/>
404	Matl404	R-11 Generic Insulation	No	11.0000	0.2401	0.0218	0.30	0.2000	<input type="checkbox"/>
407	Matl407	R-19 Generic Insulation	No	19.0000	0.4147	0.0218	0.30	0.2000	<input type="checkbox"/>
80	Matl80	AIR LAYER, 4IN OR MORE, HORIZ ROOFS	Yes	0.9200					<input type="checkbox"/>

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h sf F]	Heat Capacity [Btu/sf F]	Density [lb/cf]	RValue [h sf F/Btu]	<input type="checkbox"/>
1002	Aluminum door 1 25 in polystyrene	No	No	0.19	0.53	43.67	5.2	<input type="checkbox"/>
	Layer	Material No	Material	Thickness [ft]	Framing Factor			<input type="checkbox"/>
	1	264	ALUMINUM, 1/16 IN	0.0050	0.000			<input type="checkbox"/>
	2	214	POLYSTYRENE, EXP 1 1/4IN	0.1042	0.000			<input type="checkbox"/>
	3	264	ALUMINUM 1/16 IN	0.0050	0.000			<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf F]	Heat Capacity [Btu/sf F]	Density [lb/cf]	RValue [h sf F/Btu]	
1057	1 ft. soil, concrete floor carpet and rubber pad	No	No	0.27	34.00	113.33	3.7	<input type="checkbox"/>
	Layer	Material No	Material	Thickness [ft]	Framing Factor			
	1	265	Soil 1 ft	1.0000	0.000			<input type="checkbox"/>
	2	48	6 in Heavyweight concrete	0.5000	0.000			<input type="checkbox"/>
	3	178	CARPET W/RUBBER PAD		0.000			<input type="checkbox"/>
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf F]	Heat Capacity [Btu/sf F]	Density [lb/cf]	RValue [h sf F/Btu]	
1060	CUSTOM FMC EXTERIOR WALL	No	No	0.05	9.70	43.47	19.2	<input type="checkbox"/>
	Layer	Material No	Material	Thickness [ft]	Framing Factor			
	1	11	2 in Insulation	0.1670	0.060			<input type="checkbox"/>
	2	105	CONC BLK HW 8IN HOLLOW	0.6667	0.060			<input type="checkbox"/>
	3	404	R-11 Generic Insulation	0.2401	0.060			<input type="checkbox"/>
	4	187	GYP OR PLAS BOARD 1/2IN	0.0417	0.060			<input type="checkbox"/>

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f F]	Heat Capacity [Btu/sf F]	Density [lb/cf]	RValue [h sf F/Btu]	
1062	CUSTOM FMC ROOF	No	No	0.05	1.45	13.80	20.7	<input type="checkbox"/>
	Layer	Material No	Material	Thickness [ft]	Framing Factor			
	1	94	BUILT UP ROOFING 3/8IN	0.0313	0.000			<input type="checkbox"/>
	2	407	R 19 Generic Insulation	0.4147	0.000			<input type="checkbox"/>
	3	4	Steel siding	0.0050	0.000			<input type="checkbox"/>
	4	80	AIR LAYER, 4IN OR MORE, HORIZ ROOFS		0.000			<input type="checkbox"/>
	5	187	GYP OR PLAS BOARD 1/2IN	0.0417	0.000			<input type="checkbox"/>