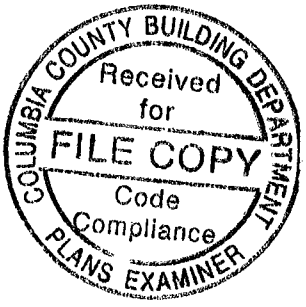
Florida Energy Efficiency Code For Building Construction

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.tm3)

Building End Uses

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

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.tm3)

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) **PASSES**
All External Lighting: 1864 (W)
Complicance check includes a excess/Base allowance of 750.00(W)

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

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 Ø. 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.

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

System Report Compliance

RTU-1, 2, 5 **RTU-1, 2, 5** **Constant Volume Packaged System** **No. of Units 3**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity		11 40	11 00	13 00	11 20	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) 65000 to 135000 Btu/h Clg Cap		2 30	3 30			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0 21	0 82			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0 27	0 82			PASSES

RTU-3 **RTU-3** **Constant Volume Packaged System** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity		11 20	11 00	13 10	11 20	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) 65000 to 135000 Btu/h Clg Cap		2 40	3 30			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0 31	0 82			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0 16	0 82			PASSES

RTU-4 **RTU-4** **Constant Volume Packaged System** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity		11 10	11 00	12 00	11 20	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) 65000 to 135000 Btu/h Clg Cap		2 30	3 30			FAILS

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 [in]	Req Ins Thick [in]	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	☑
Operations Manual	303 3 1, 503 2 9 3, 505 7 4 2	Operations manual provided to owner	☐
Windows & Doors	502 3 2	Glazed swinging entrance & revolving doors max 1 0 cfm/ft², all other products 0 3 cfm/ft²	☐
Joints/Cracks	502 3 3	To be caulked, gasketed, weather-stripped or otherwise sealed	☐
Dropped Ceiling Cavity	502 3	Vented seal & insulated ceiling Unvented seal & insulate roof & side walls	☐
HVAC Efficiency	503 2 3	Minimum efficiencies Tables 503 2 3(1)-(8)	☐
HVAC Controls	503 2 4	Zone controls prevent reheat (exceptions), separate thermostatic control per zone,	☐
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)	☐
ADS	503 2 7 5	Duct sizing and Design have been performed	☐
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	☐
Balancing	503 2 9 1	HVAC distribution system(s) tested & balanced Report in construction documents	☐
Piping Insulation	503 2 8	HAC and service hot water In accordance with Table 503 2 8	☐
Water Heaters	504	Performance requirements in accordance with Table 504 2 Heat trap required	☐
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	☐
Motors	505 7 5	Motor efficiency criteria have been met	☐
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	☐

EnergyGauge Summit® v4.10

INPUT DATA REPORT

Project Information

Project Name 14CAL04
Project Title FMC Lake City FL Bldg Shell
Address SW Orthopedic Ct

State Florida
Zip 32024

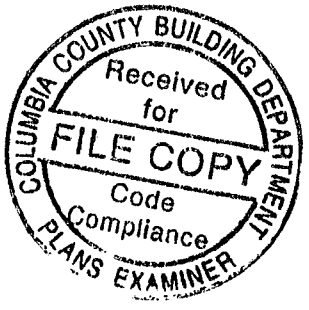
Owner. Lake City Renal Construction, LLC

Orientation West
Building Type. Healthcare-Clinic
Building Classification New Shell building

No of Stories 1
GrossArea 10146 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Admin/Support	Admin/Support	CONDITIONED	5522 0	1	5522 0	☐
2	Patient A (Interior)	Patient A (Interior)	CONDITIONED	2941 0	1	2941 0	☐
3	Patient B (Exterior)	Building Shell	CONDITIONED	1683 0	1	1683 0	☐



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	☐
In Zone	Patient A (Interior)									
1	Patient A (InteriPatient A (Interior)		Exam/Treatment (Hospital)	29 41	100 00	16 00	1	2941 0	47056 0	☐
In Zone	Patient B (Exterior)									
1	Building Shell	Building Shell	Exam/Treatment (Hospital)	16 83	100 00	16 00	1	1683 0	26928 0	☐

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	☐
In Zone	Patient A (Interior)							
In Space	Patient A (Interior)							
1	LED	General Lighting	1	1	1	Manual On/Off	1	☐
In Zone	Patient B (Exterior)							
In Space.	Building Shell							
1	LED	General Lighting	1	1	1	Manual On/Off	1	☐

Walls

No	Description	Type	Width [ft]	H (Effec) [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
2	E Wall		CUSTOM FMC EXTERIOR WALL	31 00	16 00	1	496 0	East	0 0520	9 699	43 47	19 2
3	W Wall		CUSTOM FMC EXTERIOR WALL	126 00	16 00	1	2016 0	East	0 0520	9 699	43 47	19 2
4	S Wall		CUSTOM FMC EXTERIOR WALL	37 00	16 00	1	592 0	South	0 0520	9 699	43 47	19 2
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
2	S Wall		CUSTOM FMC EXTERIOR WALL	45 00	16 00	1	720 0	South	0 0520	9 699	43 47	19 2

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
In Wall	**N Wall**										
	1	44 SF Window	User Defined	No	1 2500	0 82	0 76	4 00	11 00	1	44 0
	2	99 SF Window	User Defined	No	1 2500	0 82	0 76	9 00	11 00	1	99 0
	3	22 SF Window	User Defined	No	1 2500	0 82	0 76	4 00	5 50	5	110 0
	4	36 SF Window	User Defined	No	1 2500	0 82	0 76	9 00	4 00	1	36 0
In Wall	**W Wall**										
	3	22 SF Window	User Defined	No	1 2500	0 82	0 76	4 00	5 50	4	88 0
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
	3	22 SF Window	User Defined	No	1 2500	0 82	0 76	4 00	5 50	7	154 0
	4	45 SF Window	User Defined	No	1 2500	0 82	0 76	9 00	5 00	1	45 0
In Wall	**S Wall**										
	1	22 SF Window	User Defined	No	1 2500	0 82	0 76	4 00	5 50	2	44 0
	2	45 SF Window	User Defined	No	1 2500	0 82	0 76	9 00	5 00	2	90 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 sf F/Btu]	
In Zone	Admin/Support												
In Wall	N Wall												
	1	63 SF Sliding Door	Aluminum door 1 25 in polystyrene	No	9 00	7 00	1	63 0	0 1919	43 67	0 53	5 21	☐
In Wall	W Wall												
	1	21 SF Door	Aluminum door 1 25 in polystyrene	No	3 00	7 00	1	21 0	0 1919	43 67	0 53	5 21	☐
	2	42 SF Double Door	Aluminum door 1 25 in polystyrene	No	6 00	7 00	1	42 0	0 1919	43 67	0 53	5 21	☐
In Wall	S Wall												
	1	42 SF Double Door	Aluminum door 1 25 in polystyrene	No	6 00	7 00	1	42 0	0 1919	43 67	0 53	5 21	☐
In Zone	Patient B (Exterior)												
In Wall	E Wall												
	1	28 SF Door	Aluminum door 1 25 in polystyrene	No	4 00	7 00	1	28 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.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	☐
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	☐
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	☐

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 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 sf F/Btu]	
In Zone		Admin/Support										
	1	Pr0Zo1Fl1	1 ft. soil, concrete floor carpet and rubber pad	68 17	81 00	1	5522 0	0 2681	34 00	113 33	3 73	☐
In Zone		Patient A (Interior)										
	1	Pr0Zo1Fl1	1 ft. soil, concrete floor carpet and rubber pad	100 00	29 41	1	2941 0	0 2681	34 00	113 33	3 73	☐
In Zone		Patient B (Exterior)										
	1	Pr0Zo1Fl1	1 ft soil concrete floor carpet and rubber pad	100 00	16 83	1	1683 0	0 2681	34 00	113 33	3 73	☐

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	☐

2	Heating System	44500 00	2 30	
3	Air Handling System -Supply	2400 00	0 21	
4	Air Handling System - Return	2400 00	0 27	

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	
2	Heating System	68900 00	2 40		
3	Air Handling System -Supply	4000 00	0 31		
4	Air Handling System Return	4000 00	0 16		

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	
2	Heating System	45500 00	2 30		
3	Air Handling System -Supply	3000 00	0 20		
4	Air Handling System Return	3000 00	0 22		

Plant

Equipment	Category	Size	Inst.No	Eff	IPLV	

Water Heaters

W Heater Description	Capacity Cap Unit	I/P Rt	Efficiency	Loss	

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	☐
2	Ext Light 2	Entry Canopies	8	58	926 00	Astronomical Timer Contr	464 00	☐
3	Ext Light 3	Walk way less than 10 feet wide	12	47	0 00	Astronomical Timer Contr	564 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	
ASHULSglClrAll Frm	User Defined	1	1.2500	0 8200	0 7600	☐

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	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	☐
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					☐
265	Matl265	Soil 1 ft	No	2 0000	1 0000	0 5000	100 00	0 2000	☐
48	Matl48	6 in Heavyweight concrete	No	0 5000	0 5000	1 0000	140 00	0 2000	☐
105	Matl105	CONC BLK HW 8IN HOLLOW	No	1 1002	0 6667	0 6060	69 00	0 2000	☐
4	Matl4	Steel siding	No	0 0002	0 0050	26 0000	480 00	0 1000	☐
11	Matl11	2 in Insulation	No	6 6800	0 1670	0 0250	2 00	0.2000	☐
94	Matl94	BUILT UP ROOFING 3/8IN	No	0 3366	0 0313	0 0930	70 00	0.3500	☐
404	Matl404	R-11 Generic Insulation	No	11 0000	0 2401	0 0218	0 30	0.2000	☐
407	Matl407	R-19 Generic Insulation	No	19 0000	0.4147	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 sf F]	Heat Capacity [Btu/sf F]	Density [lb/cf]	RValue [h sf F/Btu]	
1002	Aluminum door 1 25 in polystyrene	No	No	0 19	0 53	43 67	5 2	☐

Layer	Material No	Material	Thickness [ft]	Framing Factor	
1	264	ALUMINUM, 1/16 IN	0 0050	0 000	☐
2	214	POLYSTYRENE, EXP 1 1/4IN	0 1042	0 000	☐
3	264	ALUMINUM 1/16 IN	0 0050	0 000	☐

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	☐

Layer	Material No	Material	Thickness [ft]	Framing Factor	
1	265	Soil 1 ft	1 0000	0 000	☐
2	48	6 in Heavyweight concrete	0 5000	0 000	☐
3	178	CARPET W/RUBBER PAD		0 000	☐

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	☐

Layer	Material No	Material	Thickness [ft]	Framing Factor	
1	11	2 in Insulation	0 1670	0 060	☐
2	105	CONC BLK HW 8IN HOLLOW	0 6667	0 060	☐
3	404	R-11 Generic Insulation	0 2401	0 060	☐
4	187	GYP OR PLAS BOARD 1/2IN	0 0417	0 060	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf 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	☐

Layer	Material No	Material	Thickness [ft]	Framing Factor	
1	94	BUILT UP ROOFING 3/8IN	0 0313	0 000	☐
2	407	R 19 Generic Insulation	0 4147	0 000	☐
3	4	Steel siding	0 0050	0 000	☐
4	80	AIR LAYER, 4IN OR MORE, HORIZ ROOFS		0 000	☐
5	187	GYP OR PLAS BOARD 1/2IN	0 0417	0 000	☐