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E-Mail
1. C. Tusisis M10.1. 01 also
2: C1 Sample M18 rby
Event Contraction
Exploring - C:/Documents and Settings/cheryf/Desktop/RESNET 07 DJS Sessions General Project Data
Start Second Sec

The state of Florida mandates that we use Energy Gauge USA for ratings so we will use this program for our example but as you can see the program also exports files to REScheck, REM/Rate, & Energy Gauge / FlaRes which is the energy code software for Florida.

Select Export and then the rating software you are exporting to.

Project Room Action Lools Window Help Image: Construction of the state	
🔍 Exploring - C:/Documents and Settings/chery/IDesktop/RESNET 07 DJS Sessions 📲 General Project Data	
C\Documents and Settings\charul\Deskton\RESNE	

Energy Gauge USA uses a .enb file. We keep these files in a separate folder on our computer and re name them when we open them in our rating software, after the rating is complete we file them in a folder under the builder's name.

$+ \Psi$	
>> EnergyGauge USA Export Warning: After importi	na the ENB file
into EnergyGauge USA, be sure to check the project	thoroughly and fill
in all the missing date. For example, on the Climate	tob of the Site tob
In all the missing data. For example, on the Gimate	
you will need to select your weather design city.	
>> EnergyGauge USA Export Warning: Note that the	e description
inputs for floors, ceilings, walls, doors and windows i	n EnergyGauge
LISA will each include the following data: Manual I m	atorial codo
USA will each include the following data. Manual 5 m	
comma, then the room number, a dash and the Item	number. If
based on more than one item, the additional room an	nd item numbers
will follow. For example, a floor with description "201	P-19,1-1,2-1"
would be from two instances of floor 20P-19, where	one was floor 1 in
room 1 and the other was floor 1 in room 2	
CALCS-PLUS	

Good information from Elite Software.

Project Search Results: Project ID Building Type Project Title Number of IA's Owner Address 1 User Atlanta_TaxCredit 0 Energy Ga Anyplace 2 User Battimore_Tax Credit 0 Energy Ga Anyplace 3 User Burlington_Tax Credit 0 Energy Ga Anyplace 4 User Charlotte_eStar_2006-BOP 0 Energy Ga Anyplace 5 User Dallas_TaxCredit 0 Energy Ga Anyplace
Project ID Building Type Project Title Number of IA's Owner Address 1 User Atlanta_TaxCredit 0 Energy Ga Anyplace 2 User Baltimore_Tax Credit 0 Energy Ga Anyplace 3 User Burlington_Tax Credit 0 Energy Ga Anyplace 4 User Charlotte_eStar_2006-BOP 0 Energy Ga Anyplace 5 User Dallas_TaxCredit 0 Energy Ga Anyplace
1 User Atlanta_TaxCredit 0 Energy Ga Anyplace 2 User Baltimore_Tax Credit 0 Energy Ga Anyplace 3 User Burlington_Tax Credit 0 Energy Ga Anyplace 4 User Charlotte_eStar_2006-BOP 0 Energy Ga Anyplace 5 User Dallas_TaxCredit 0 Energy Ga Anyplace
2 User Baltimore_Tax Credit 0 Energy Ga Anyplace 3 User Burlington_Tax Credit 0 Energy Ga Anyplace 4 User Charlotte_eStar_2006-BOP 0 Energy Ga Anyplace 5 User Dallas_TaxCredit 0 Energy Ga Anyplace
3 User Burlington_Tax Credit 0 Energy Ga Anyplace 4 User Charlotte_eStar_2006-BOP 0 Energy Ga Anyplace 5 User Dallas_TaxCredit 0 Energy Ga Anyplace
4 User Charlotte_eStar_2006-BOP 0 Energy Ga Anyplace 5 User Dallas_TaxCredit 0 Energy Ga Anyplace
5 User Dallas_TaxCredit 0 Energy Ga Anyplace
6 User Duluth_eStar_2006-BOP 0 Energy Ga Anyplace
Open Project

Open EnergyGauge USA.

ile S	upport H		ے ا	Project	Options	
11111			Antonia State		<u>C</u> re <u>S</u> how /	ate New Project All Existing Projects Project Query
				GE C Last	L Project (Load *.enb File
Proj	ect Sear	ch Results:				-
P	roject ID	Building Type	Project Title	Number of IA's	Owner	Address
	1	User	Atlanta_TaxCredit	0	Energy G	a Anyplace
	2	User	Baltimore_Tax Credit	0	Energy G	a Anyplace
-	3	User	Burlington_Tax Credit	0	Energy G	a Anyplace
	4	User	Charlotte_eStar_2006-BOP	0	Energy G	a Anyplace
-	5	User	Dallas_TaxCrédit	0	Energy G	a Anyplace
	Б	User	Duluth_eStar_2006-BOP	U	Energy G	a Anypiace
•		/	/			
						Open Project
				Load th	oo fila	_

Click the "Load *.enb File"

	Load Building File
	Look in: 🗀 USA File 💌 🖛 🖻 📸 🖽 -
	TrainingMJ8 1.01.enb
	File name: TrainingMJ8 1.01.enb Open
	Files of type: EnergyGauge Building Files Cancel
	Select the file you want to open
CALCS	-PLUS

Go to the directory you saved the exported ENB file to; select the file and click OK.

			- Broject Options
		۵	Project Options
, 🗾			<u>C</u> reate New Project
			Show All Existing Projects
		Materia Man	
		ENERGY GAUGE	
		Load Building File As	× bad *.enb File
		Enter a new title:	uery @ Show All Projects
		111 Main Street	dery 😌 Show All Projecta
Proje	ct Search Results:		
	oject ID Building Typ	DK OK	Cancel Address 4
	1 User	Delline and Tex Constit	Anyplace
	2 User	Baitimore_Tax Credit	0 Energy Ga Anypiace
	J User	Charlotte eSter 2006 BOR	0 Energy Ga Anyplace
····	5 User	Dallas TayCredit	0 Energy Ga Anyplace
	6 User	Duluth eStar 2006-BOP	0 Energy Ga Anyplace
•			
			Onen Project

People sell houses and move into new ones so it is not a good idea to save the files under the owners name, a better way to set up your files is to keep them by address. To help us find a builder's house we preface the file name by an identifying prefix usually the initials of the company's name. When we do a rating for an individual we save the file in a folder of miscellaneous homes under the address. We will change this file's name to 111 Main Street.

ile Ne	Support He	le OSA - Piojec	i Search	Droject	Ontions		
De	elete Project			Project	Options		
Pre	eferences				<u>C</u> reate	New Project	
Ex	it EnergyGau	ge USA			<u>S</u> how All E	xisting Projects	
			Kinght wante		Proje	ect <u>Q</u> uery	
			ENERGY GAU	GE -	Load	*.enb File	
			JU DA				
Pr	niect Sear	ch Results		C Last	Project Quer	y 💿 Show All Pro	jects
Pr	oject Sear Project ID	ch Results: Building Type	Project Title	Number of IA's	Project Quer	y 🙃 Show All Pro	jects
Pn	oject Sear Project ID 18	ch Results: Building Type User	Project Title 111 Main Street	Number of IA's	Project Quer	y 💽 Show All Pro Owner Hammer & Nail Const	jects A(^ r 12
Pr	oject Sear Project ID 18 1	ch Results: Building Type User User	Project Title 111 Main Street Atlanta_TaxCredit	Number of IA's	Project Quer	y Show All Pro Owner Hammer & Nail Const Energy Gauge	jects
٦٢ ١	oject Sear Project ID 18 1 2	ch Results: Building Type User User User	Project Title 111 Main Street Atlanta_TaxCredit Battimore_Tax Credit	C Last	Project Quer 0 0 0	y Show All Pro Owner Hammer & Nail Const Energy Gauge Energy Gauge	jects r 12 Ar Ar
Pr	oject Sear Project ID 18 1 2 3	ch Results: Building Type User User User User	Project Title 111 Main Street Atlanta_TaxCredit Batimore_Tax Credit Burlington_Tax Credit	Number of IA's	Project Quer 0 0 0 0 0	y Show All Pro Owner Hammer & Nail Const Energy Gauge Energy Gauge Energy Gauge	iects
Pr	oject Sear Project ID 18 1 2 3 4	ch Results: Building Type User User User User User	Project Title 111 Main Street Atlanta_TaxCredit Batimore_Tax Credit Burlington_Tax Credit Charlotte_eStar_2006-BOP	Number of IA's	Project Quer 0 0 0 0 0 0 0	y Show All Pro Owner Hammer & Nail Const Energy Gauge Energy Gauge Energy Gauge Energy Gauge	jects r 12 Ar Ar Ar Ar
Pr	oject Sear Project ID 18 1 2 3 4 5	ch Results: Building Type User User User User User User	Project Title 111 Main Street Atlanta_TaxCredit Battimore_Tax Credit Burlington_Tax Credit Charlotte_eStar_2006-BOP Dallas_TaxCredit	Number of IA's	Project Quer 0 0 0 0 0 0 0 0 0 0 0 0	y Show All Pro Owner Hammer & Nail Const Energy Gauge Energy Gauge Energy Gauge Energy Gauge Energy Gauge	jects r 12 Ar Ar Ar Ar Ar Ar
Pr	oject Sear Project ID 18 1 2 3 4 5	ch Results: Building Type User User User User User User	Project Title 111 Main Street Atlanta_TaxCredit Baltimore_Tax Credit Burlington_Tax Credit Charlotte_eStar_2006-BOP Dallas_TaxCredit	Number of IA's	Project Quer 0 0 0 0 0 0 0 0 0 0 0	y Show All Pro Owner Hammer & Nail Const Energy Gauge Energy Gauge Energy Gauge Energy Gauge Energy Gauge	jects r 12 Ar Ar Ar Ar Ar

Our rating software allows us to set up preferences. These are the most common construction practices in our area. Click "File" "Preferences".

EnergyGauge U	SA - Preferences
Choose Defa	ult Values for New Building Components:
Rater Info Site	Floor/Door/Window Wall/Ceiling/Roof Equipment Disclosures Views
Rater Inform	ation
Name:	Joe Cool
Address:	12345 Industry Drive
City:	My Town State: Florida 💌
Zip:	33333
ID:	FLA 555 Tax ID: 65-111222
HERS Provid	der Information
Name:	Florida Solar Energy Center
Address:	1679 Clearlake Road
City:	Cocoa State: Florida 💌
Zip:	32922-5703 Phone: (321)638-1492
Email:	engauge@fsec.ucf.edu
	✓ OK ¥Cancel ? Hel
Туре	e in 'your personal information, your
prov	iders information comes pre-filled in.
3-PLUS	

EnergyGauge US/	A - Preferences
Choose Defau	t Values for New Building Components:
Rater Info Site	Floor/Door/Window Wall/Ceiling/Roof Equipment Disclosures Views
Project Infor Builder:	Address Type Occupancy Street Address Occupancy Occupan
Project Status.	New (From Plans)
State:	United States
	Utility Name \$/Unit
Electric:	MyUtility 0.1300 KWh
Natural Gas:	EnergyGauge Default
Fuel Oil:	EnergyGauge Default 1.1 Gallon
Propane:	EnergyGauge Default 1.4 Gallon
Climate Reference C	ty: FL, Fort Lauderdale
	V OK X Cancel 7 Heln

Builder information may be project specific but utility information may be more consistent so it could be filled in as default information.

	Floor, Door and Window Materials
Energ	pyGauge USA - Preferences
Cho	Sose Default Values for New Building Components: er Info Site Floor/Door/Window Wall/Ceiling/Roof Equipment Disclosures Views
	Floor Defaults Floor Type: Slab-On-Grade Edge Insulation Floor R-value: 0
	Stab insulation type and location: Exterior insulation
·····	Storm Door Type Door U-Value C Exterior C Adjacent Storm Door Type
····	Window Defaults U-Factor and Modifiers Tint: Clear U-Factor and Modifiers Type: Single U-Factor: Depth: 0 tt SC: 1.0 Frame: Metal Instrume:
	Int Snaaing, Urapeskainds V Screening, Exterior 50% V

Select the most common building material information for your area. This will have nothing to do with what RHVAC exports into USA.

	Set Defaults for
	Wall, Ceiling, and Floor Materials
•	EnergyGauge USA - Preferences Choose Default Values for New Building Components: Rater Info Site Floor/Door/Window Wall/Ceiling/Root Equipment Disclosures Views Wall Defaults Orm: N Velating: Concrete Block - Int Insult Adjacent To: Exterior Wall R-value: 5 Wall Ins. Grade: III Framing Fraction: 0.000
	Ceiling Defaults Ceiling Type: Under Attic Framing Fraction: 0.11 © Wood Ceiling R-value: 19.00 Ceiling Ins. Grade:
	Roof Defaults Roof Configuration: Gable or shed Roof Deck Insulation Levet Composition shingles Roof Deck Insulation Grade: Attic Description: Full attic Attic Ventilation Ratio: 0.0033 (1 to 300) Roof Color: Medium Radiant Barrier System? Yes © No Roof Pitch Slope in Inches: 3 / 12 Slope in Degrees: 14.0 Roof Pitch Slope in Inches: 3 / 12 Slope in Degrees: 14.0
	✓ OK × Cancel ? Help
CALCS-F	PLUS

Fauipment
 EnergyGauge USA - Preferences
Choose Default Values for New Building Components:
Rater Info Site Floor/Door/Window Wall/Ceiling/Roof Equipment IDisclosures Views Image: Ceiling Augmentation Cooling Defaults Cooling Augmentation Heating Defaults Cooling Type: Central Unit Ceiling Fans Heating Type: SEER: 13 Btu/W SHR: 0.75
Air Handler Location: Garage
Supply Duct Loc: Attic Return Duct Loc: Attic Duct R-value: 6
Hotovoltaic Defaults Array Hot Water Defaults Type: Shell (Siemens) SP75 Image: Colspan="2">Location: Azimuth: 180 Tilt: 23 Line Loss: 0.0035 Eff Coeff: 0.0043 Albedo: 0.30 Ref Temp: 46 Inverter Type: Trace U 2512/24/32/36/48 SetPoint (deg. F): 140
Battery Type: None Number: 0 C 1992 C 2006

Equipment may be project specific and can change more often than not. But if may be a help to set up default equipment for the most popular systems for your area.





Open the project we just exported from RHVAC into USA by double clicking on the project or by highlighting the project and clicking the "Open Project" Button.

	File View Calculate Reports Registration	Support Help	
	Project ID: 18	User Entry Mode	# of IA's: ()
-	Title: 111 Main Street	Rater Name: Joe Cool	
Edit tho	Owner: Mr & Mrs Smith	Rater ID: FLA 555	
	Builder: Hammer & Nail Construction		
page	Comment: 111 Main Street, Anywhere, US	A	
and post the project	Building Info Status: New (From Plans) Rotate Building: 0 Number of Bedrooms 3 Number of Bedrooms: 1 Total Number of Stories: 1 Conditioned Average Conditioned Area: Wall Height: 1 1235 X 8 = 9880	Worst Case Property Location Yes No Occupancy Single Family Multi Family Street: Post Project City: Address Type: City: County: County:	y Street State: FL Zip: -
CALCS-PI	Project Climate Site Envelope Equipment US	Utility Rates Surroundings	

Information on this page will have to be verified and changed. We now know the owner is Mr. & Mrs. Smith, the builder is Hammer & Nail, so we change the items we need to and go to the climate tab. Be sure to post the project before leaving the page.

Project ID: 18	Reports Registration Suppor	User Entry Mode	# of IA's:
Design State: Design Location: Location Parameter: Latitude (degrees) Longitude (degrees) Altitude (ft)	Florida Vest Palm Beach S 26.68 97.5% Design 97.5% Design Int. Design Tel 40.12 20 Heating Degree	Image: Second state Image: Second state	TMY Site Name: FL_WESTPALMBEACH Summer Design Parameters 2.5% Design Temp. (F.) Int. Design Temp. (F.) Summer Design Moist. (gr)
Time Zone (4-10) Avg. Annual Temp. (F.) Oversize limit for system sizing Climate Zone:	5 Weather Factor 74.5 Check for 1 Check for 2 Moisture Regime:	or 0.69 or Better TMY Site	Daily Temp. Range Medium
Project	Climate Utility Rat	es Surroundings	

RHVAC does not transfer climate information so this screen must be edited or you may find your project in Anchorage Alaska. Select the climate for this job. The same data base that was in the Load Calculation program is in the rating software. Return to project page and save.

Project ID: 18 User I State: Florida Fuel Cost Data Fuel Unit Utility Name Electricity KWh Florida Power & Light Company	Entry Mode # of IA's Insert/Delete Utility Cost Method	s: 0 \$/Unit
State: Florida Fuel Cost Data Fuel Unit Utility Name Electricity KWh Florida Power & Light Company	Insert/Delete	\$/Unit
Fuel Cost Data Fuel Unit Utility Name Electricity KWh Florida Power & Light Company	Insert/Delete	s/Uni
Fuel Unit Utility Name Electricity KWh Florida Power & Light Company	Insert/Delete <u>Utility</u> <u>Cost Method</u>	S/Unit
Electricity KWh Florida Power & Light Company		
	Electricity Standard	0.0
Natural Gas Therm Florida Average	▼ Natural Gas Standard ▼	1.7
Fuel Oil Gallon Florida Default	▼ Fuel <u>O</u> il	1
Propane Gallon Florida Default	▼ Propane	1
Propane Gallon Florida Default	▼ <u>P</u> ropane	

Select your local utility or default for your area.

Project IF	: 18	lise	r Entry Mode	#ofIA's: 0	
					_
Shade	frees		Adjacent Buildings		
Ornt	Туре Но	eight Width Distance	e Ornt Exist? He	eight Width Distance	
N	None 💌		N 🗆		
NE	None		NE 🗆		
E	None		E		
SE	None		SE 🗆		
s	None		S 🗆		
SW	None 💌		SW 🗆		
w	None		w 🗆		
NW	None 💌		NW 🗆		
Right-	click for page help, or pla	ice cursor in any field ai	nd press F1 for context-s	ensitive help.	
	Project Climate	Utility Rates Sun	roundings		
	Environment				
Site	Envelope				
Site					

EnergyGauge USA uses shade planes to simulate the energy use impact of shade trees and adjacent buildings surrounding the project. Note that the Surroundings screen is only available when in User Entry Mode. For today's demonstration we will not use this page.

Click the "Envelope" tab to edit the materials that were imported from from RHVAC

File View Calculate Reports Registration Support Help Project ID: 18 User Entry Mode # of IA's: 0 Roof/Attic Structure Roof Configuration: Gable or shed • Solar Absorptance: 0.85 Suggest Roofing Material: Composition shingles • Roof Deck Insulation Level: 0 Attic Description: Full attic • Roof Deck Insulation Grade: Not Inspected • Roof Color: Medium • Roof Framing Fraction: 0.100 • Conditioned Ceiling Footprint Area: 1285 Radiant Barrier System? • Yes No Roof Pitch Attic Ventilation Ratio: 0.0033 (1 to 300) •	File View Calculate Reports Registration Support Help Project ID: 18 User Entry Mode # of IA's: 0 Roof/Attic Structure	💦 EnergyGauge USA -	111 Main Street		
Roof/Attic Structure Roof Configuration: Gable or shed Solar Absorptance: 0.85 Suggest Roofing Material: Composition shingles Roof Deck Insulation Level: 0 Attic Description: Full attic Roof Deck Insulation Grade: Not Inspected Roof Color: Medium Roof Framing Fraction: 0.100 Conditioned Ceiling Footprint Area: 1285 Radiant Barrier System? Yes © No Roof Pitch Attic Ventilation Ratio: 0.0033 (1 to 300) Image: State	Roof/Attic Structure Roof Configuration: Gable or shed Solar Absorptance: 0.85 Suggest RoofIng Material: Composition shingles Roof Deck Insulation Level: 0 Attic Description: Full attic Image: Composition shingles Roof Deck Insulation Grade: Not Inspected Roof Color: Medium Roof Framing Fraction: 0.100 Conditioned Ceiling Footprint Area: 1285 Radiant Barrier System? Yes © No Roof Pitch Slope in Inches: 6 / 12 Attic Ventilation Ratio: 0.0033 (1 to 300)	File View Calculate F Project ID: 18	teports Registration Support H	User Entry Mode	#ofIA's: 0
Roof Configuration: Gable or shed Solar Absorptance: 0.85 Suggest Roofing Material: Composition shingles Roof Deck Insulation Level: 0 Attic Description: Full attic Image: Composition Shingles Roof Deck Insulation Grade: Not Inspected Roof Color: Medium Roof Framing Fraction: 0.100 Conditioned Ceiling Footprint Area: 1285 Radiant Barrier System? Yes © No Roof Pitch Attic Ventilation Ratio: 0.0033 (1 to 300) Image: Composition Shingles	Roof Configuration: Gable or shed Solar Absorptance: 0.85 Suggest Roofing Material: Composition shingles Roof Deck Insulation Level: 0 Attic Description: Full attic Roof Deck Insulation Grade: Not Inspected Roof Color: Medium Roof Framing Fraction: 0.100 Conditioned Ceilling Footprint Area: 1285 Radiant Barrier System? Yes © No Roof Pitch Slope in Inches: 6 /12 Attic Ventilation Ratio: 0.0033 (1 to 300) ♥	Boof/Attic Structure			
Slope in Inches: 6 / 12 Slope in Degrees: 26.6		Roof Configuration Roofing Material: Attic Description: Roof Color: Conditioned Cellin Slop	Gable or shed Composition shingles Full attic Medium Grootprint Area: 1285 Pitch pich pich pich 0 / 12 pin Degrees: 26.6	Solar Absorptance: Roof Deck Insulation Level: Roof Deck Insulation Grade: Roof Framing Fraction: Radiant Barrier System? Attic Ventilation Ratio:	0.85 Suggest 0 Not Inspected ▼ 0.100 C Yes ● No 0.0033 (1 to 300) ▼
		Floors(1) Roof	Ceilings(2) Walls(7) Doors(2	Windows(14) Infiltration Gara	age Sunspace Mass
Floors(1) Roof Ceilings(2) Walls(7) Doors(2) Windows(14) Infiltration Garage Sunspace Mass	Floors(1) Roof Ceilings(2) Walls(7) Doors(2) Windows(14) Infiltration Garage Sunspace Mass	Site Envelope	Equipment		

If the roof has insulation on the deck then select the insulation grade, click the down arrow for "Roof Deck Insulation Grade" if this is a projected rating from plans choose "Not Inspected". Now is a good time to save your project.

File view Calculate Repo	rts Registration Support	Help			
Project ID: 18		User Entry Mod	e	#of IA's	: 0
Current Floor, Number 1	of 1			_	
Type: Slab-On-Grad	e Edge Insulation 🛛 🚽 R-Val	ue: 0	Perimeter: 17	'4	
Comment: 22A-ph,1-1,2-	1,3-1,5-1,6-1,7-1 U-Val	ue: 0.304	Slab insulation type	and location::	
	_		Exterior insulation		_
C Area: 1235 0	r 🗘 Length: 🛛 🗸 Via	ath:	Ground	1	
		1 Francis 1 4 40	Horizontal	SLAB	neter
Tile Frac: U Vood	/vinylFrac: U Carpe	t Frac: 1.00	Insulation + Exterior ->	Insu Interior	lation
			Insulation	Insulation Foundat	ion
					· ·
Overview of Floors		<u> ▶ + −</u>	Post		~~
FLOOR_ID FLOOR_T	YPE W	ADTH LENGTH	AREA P	ERIMETER R_VA	ALUE C
1 State On C	rade Edge Insulation		1235	174	0
Floors(1) Roof Cei	lings(2) Walls(7) Doors	(2) Windows(14)	Infiltration Garage	je Sunspace	Mass
Floors(1) Roof Cei	lings(2) Walls(7) Doors	:(2) Vindows(14)	Infiltration Gara <u>c</u>	je Sunspace	Mass

The information we entered into the load calculation program has transferred into the floor tab, this is as we entered it. Remember on the "Site" tab we changed the square foot of living space as recorded on the plans by the builder. On this screen the total floor area should be the same as the "Conditioned Ceiling Footprint Area" under the "Roof" tab.

Remember the helpful hint from RHVAC regarding how they export, here is our first example, each floor is listed by type, room location, and number.

Convert Street USA 111 Main Church		
File View Calculate Reports Registration	Support Help	
Project ID: 18	User Entry Mode	# of IA's: 0
Roof/Attic Structure		
Roof Configuration: Gable or shed	Solar Absorptance:	0.85 Suggest
Roofing Material: Composition shing	gles 💽 Roof Deck Insulation Lev	el: 0
Attic Description: Full attic	Roof Deck Insulation Gra	de: I
Roof Color: Medium	Roof Framing Fraction:	0.100
Conditioned Ceiling Footprint Area:	1235 Radiant Barrier System?	C Yes © No
Roof Pitch Slope in Inches:	6 /12	0.0033 (1 to 300) 💌
Slope in Degrees: 26.6	i	
Floors(1) Roof Ceilings(2) Walls(7)	Doors(2) Windows(14) Infiltration (Garage Sunspace Mass
Envelope Equipment		

Note: If it is a single story home the floor area under ceiling is the same as the SQ FT of the home. The conditioned ceiling area may be larger, especially if we are dealing with tray or cathedral ceilings. Change the roof configuration, materials, etc to match your building.

File View Calculate Reports Regi	stration Support Help	
Project ID: 18	User Entry Mode	# of IA's: 0
Roof/Attic Structure		
Roof Configuration: Gable or s	shed 💽 Solar Absorptance:	0.85 Suggest
Roofing Material: Composit	ion shingles 🔄 Roof Deck Insulation L	evel: 0
Attic Description: Full attic	Roof Deck Insulation G	arade: Not Inspected
Roof Color: Medium	Roof Framing Fraction:	0.100
Conditioned Ceiling Footprint A	rea: 1235 Radiant Barrier System	n? O Yes 🖲 No
Roof Pitch Slope in Inch Slope in Deg	es: 4 / 12 rees: 8 4	0.0033 (1 to 300) 💌
Floors(1) Roof Ceilings(2)	Walls(7) Doors(2) Windows(14) Infiltration	Garage Sunspace Mass
Site Envelope Equipment		

The "Roof Pitch" defaults to 6/12, change the roof pitch to match the home you are working on.

If there is insulation on the roof deck and you have entered a value in the "Roof Deck Insulation Level" then change the 'Roof Deck Insulation Grade to "Not Inspected"

🔊 EnergyGauge USA - 111 Main	Street	
File View Calculate Reports Re Project ID: 18	egistration Support Help User Entry Mode	#of IA's: 0
Current Ceiling, Humber 2 of 2 Type: Knee Wall Image: Net Area: 34.5 or C Len	R-Value: 19 Ins. Grade	Framing Framing Fraction 0.110
Comment: 16B-15,6-2,6-3,7-2,7-	3	Trusses Wood C Metal
Overview of Ceilings		st
	WIDTH LENGTH AREA R_	
Under Attic	1265.56	19 Wood
		v M
·····		
Floors(1) Roof Ceilings(2)	Walls(7) Doors(2) Windows(14) Infiltr	ration Garage Sunspace Mass

Our first ceiling "Type" is the ceiling with 19 insulation on top of it. The the second ceiling type is the "Knee Wall"s. EnergyGauge USA wants to keep knee walls separate from ceilings "Under Attic". RHVAC doesn't care if the ceilings are horizontal or vertical, if they face the vented attic they are ceilings. In order to separate the knee walls from the rest of the ceilings in RHVAC we gave them a slightly different R-value (15). This way when the ceilings are imported into USA we can identify them and edit the ceiling with the different R-value and identify it as a "Knee Wall". We can also edit the R-value to the correct insulation if need be.

	💫 EnergyGauge USA - 111 Main Street			
1	File View Calculate Reports Registration	Support Help		
Ψ	Project ID: 18	User Entry Mode	#of IA's: 0	
	Current Ceiling, Number 2 of 2 Type: Knee Wall	R-Value: 19 Ins. Grade: 10 Vidth: U-Value: 0.047	Inspected Training Framing Fraction 0.110	
	Comment: 16B-15,6-2,6-3,7-2,7-3		Trusses • Wood O Metal	
	Overview of Ceilings	▲ ▷ ▷ + - Post		
	CEIL_ID TYPE	WIDTH LENGTH AREA	R_VALUE TRUSS_TYPI	
	1 Under Attic	1285	.56 19 Wood	
			T T	
	Floors(1) Roof Ceilings(2) Walls(7	Doors(2) Windows(14) Infiltration	Garage Sunspace Mass	
	Site Envelope Equipment	5 6 7 7 3 3		

Be sure to indicate the proper grade of insulation, in this case it is not inspected because again this is being done from plans.

File View Calculate P	enorte Registration Suppo	art Help	
Project ID: 18	reports registration Juppe	User Entry Mode	#of IA's: 0
Current Wall. Numbe	1.of 7		
Orient: S 🔻 Ty	p : Concrete Block - Int Insu	il 🔽 Ac	ljacent To: Exterior 🔻
Wall Area	in Wall Cavity	Exterior Charac Sheathing R-Valu	teristics U-Value: 0.132
Height: 9 ft Calculated Area: 9	529.2t ² Framing Fractic		
Comment: 13A-5ocs,1	-1,5-1,6-1,8-1		
Overview of Walls		▶ ▶I 🕂 Delete Post	
WALL_ID ORIEN	TATION WALL_TYPE		ADJACENT_TO
) 1 S	Concrete Block - Int I	nsul E	Exterior
2 E	Concrete Block - Int I	nsul E	Exterior
3 N	Concrete Block - Int I	nsul E	Exterior
4 W	Frame - Wood		Garage
Floors(1) Roof	Ceilings(2) Walls(7) D	oors(2) Windows(14) Infiltration	Garage Sunspace Mass

Our wall information comes in correct for direction and SQ FT. This wall transfers over as a "Concrete Block –Internal Insulation", note that under "Wall Cavity" the "Ins. R-Value" is 0 and under "Exterior Characteristics" the "Sheeting R-Value" is 5, this will need to be reversed to match the construction type of the project we are working on.

Be sure to look this over carefully and change to match the construction type of the project you are working on. We will change our insulation under "Exterior Characteristics" to 0 and move our R-5 value to "Wall Cavity". This procedure must be repeated for each wall.

	colace Reports		
Project ID: 18	3	User Entry Mode	# of IA's: 0
Orient: S	Number 1 of 7	concrete Block - Int Insul	Adjacent To: Exterior
Wall Area	8.8 ft 9 ft d Area: 529.21 ²	Wall Cavity Exterior Ch in Ins. R-Value: 5 in Ins. Grade: I Framing Fraction: 0	aracteristics Value: 0 U-Value: otance: 0.80
Overview of	3A-500s,1-1,5-1, Walls		st
WALL_ID	ORIENTATION	WALL_TYPE	ADJACENT_TO A
	1 S	Concrete Block - Int Insul	Exterior
		Concrete Block - Int Insul	Exterior
	2 E		
	2 E 3 N	Concrete Block - Int Insul	Exterior
	2 E 3 N 4 W	Concrete Block - Int Insul Frame - Wood	Exterior Garage

USA looks at "Concrete Block – Int Insul" or "Concrete Block – Ext Insul" walls as having continuous insulation with no framing factor.

		User Entry Mode	#oflA's: ∩	
-Current Wall N	mber 4 of 7-			_
Orient: W 👻	Type: Fra	ame - Wood	Adiacent To: Garage	1
Wall Area		Wall Cavity Exterior Cha	racteristics	1
Width: 6.4	ft [in Ins. R-Value: 11 Sheathing R-V	'alue: 0 U-Value:	
		. Ins. Grade:	ance: 0.80	
Height: 10.5	ft j			
Calculated A	rea: 67.2 ft²			
Comment: 12B-0	sw,6-2	\mathbf{i}		
Overview of Wa	ls		• 1	_
WALL_ID	RIENTATION	WALL_TYPE	ADJACENT_TO A	
		Concrete Block - Int Insul	Exterior	
20		Concrete Block - Int Insul	Exterior	
	v	Ereme - Mood	Garage	
1 D 4 1.	Y		Varage V	
	of Collings	(2) Mindouse(14) Infibedia		

For our frame walls we need to input a framing factor. F1 will bring up the help screen with information to use for this.

Orient: VV 💌 Type: Fr	ame - Wood	▼ Adjacent To: G	arage 🔻
Wall Area	Wall Cavity	Exterior Characteristics	
••••••••••••••••••••••••••••••••••••••	in Ins. R-Value: 11	Sheathing R-Value: 0	U-Value: 0.075
Height: 10.5 ft	in Ins. Grade:	Solar Absorptance: 0.80	
Calculated Area: 67.2 ft ²	Framing Fraction:		
Comment: 12B-0sw,6-2		-	
Spacing	Framing Fractic	on	
Stand	dard Framing:		
	16" o.c.	.23	
	24" o.c.	.20	
Adva	nced Framing:		
	16" o.c.	.19	
	24" o.c.	.16	
CALCS-PLUS			

Recommended default factors

roject ID: 18 User Entry Mode # of IA's: 0 Current Wall, Number 4 of 7 Drient: W Type: Frame - Wood Adjacent To: Garage Adjacent To: Wall Area Wall Cavity Wall Area Wall Cavity Ins. R-Value: 11 Sheathing R-Value: 0 U-Value: 0 U-Value: 0 U-Value: 0 U-Value: 0.092 Wall Area: 67.2 ft² Framing Fraction: 0.230 Calculated Area: 67.2 ft² Framing Fraction: 0.230 Comment: 12B-0sw,6-2 Delete Post VALL_ID ORIENTATION WALL_TYPE ADJACENT_TO 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	Adjacent To: Garage Value: 0 Value: 0.80 Va	lie view Cal	ulate Reports	Registration Support Help	
Current Wall, Number 4 of 7 Drient: W Type: Frame - Wood Wall Cavity Exterior Characteristics Width: 6.4 ft Ins. R-Value: 11 Sheathing R-Value: 0 U-Value: 0 0.092 Width: 6.4 ft in Ins. R-Value: 11 Sheathing R-Value: 0 0.092 Calculated Area: 67.2 ft ² Framing Fraction: 0.230 Comment: 12B-0sw,6-2 Deterview of Walls Id VALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul 2 E Concrete Block - Int Insul 3 N Concrete Block - Int Insul 4 W Frame - Wood	urrent Wall, Number 4 of 7 ient: W Type: Frame - Wood Adjacent To: Garage Wall Area Wall Cavity Exterior Characteristics U-Value: 0 Adjacent To: 6.4 ft in Ins. R-Value: 11 Sheathing R-Value: 0 Height: 10.5 ft in Ins. Grade: Image: Image: 0.092 Calculated Area: 67.2 ft² Framing Fraction: 0.230 0.80 0.92 wmment: 12B-Osw,6-2 Image: Image: Image: Image: Image: Image: Image: 0.230 VALL_D ORIENTATION WALL_TYPE ADJACENT_TO Amage: Image:	Project ID: 18		User Entry Mode	# of IA's: 0
Orient: W Type: Frame - Wood Adjacent To: Garage Wall Area Wall Cavity Exterior Characteristics U-Value: 0 Width: 6.4 ft in Ins. R-Value: 11 Sheathing R-Value: 0 Height: 10.5 ft in Ins. Grade: Image: Image: 0.092 Calculated Area: 67.2 ft2 Framing Fraction: 0.230 0.80 0.992 Comment: 12B-0sw,6-2 Image: Image:<	ient: W Type: Frame - Wood Adjacent To: Garage Mall Area Wall Cavity Exterior Characteristics U-Value: 0 Muth: 6.4 ft in Ins. R-Value: 11 Sheathing R-Value: 0 Height: 10.5 ft in Ins. Grade: Image: 0.80 U-Value: 0.92 Calculated Area: 67.2 ft Framing Fraction: 0.230 0.80 0.92 vmment: 12B-0sw, 6-2 Image: Image: Image: Image: ADJACENT_TO Adjacent 1 S Concrete Block - Int Insul Exterior Image:	Current Wall,	Number 4 of 7		
Wall Area Wall Cavity Exterior Characteristics U-Value: Width: 6.4 ft in Ins. R-Value: 11 Sheathing R-Value: 0 Height: 10.5 ft in Ins. Grade: Image:	Wall Area Wall Cavity Exterior Characteristics Midth: 6.4 ft in Ins. R-Value: 11 Height: 10.5 ft in Ins. Grade: Image: Solar Absorptance: 0.80 Calculated Area: 67.2 ft? Framing Fraction: 0.230 0.80 0.92 wmment: 12B-0sw,6-2 Image: Solar Absorptance: 0.80 0.80 0.92 verview of Walls Image: Solar Absorptance: 0.80 Image: Solar Absorptance: 0.80 verview of Walls Image: Solar Absorptance: 0.80 Image: Solar Absorptance: 0.80 verview of Walls Image: Solar Absorptance: 0.80 Image: Solar Absorptance: 0.80 verview of Walls Image: Solar Absorptance: 0.80 Image: Solar Absorptance: 0.80 verview of Walls Image: Solar Absorptance: 0.80 Image: Solar Absorptance: 0.80 verview of Walls Image: Solar Absorptance: 0.80 Image: Solar Absorptance: 0.80 1 S Concrete Block - Int Insul Exterior Image: Solar Absorptance: Image: Solar Absorptance: I	Orient: W	▼ Type: Fr	ame - Wood 📃 💆	🖌 Adjacent To: 🛛 Garage 🛛 💌
Width: 6.4 ft in Ins. R-Value: 11 Sheathing R-Value: 0 Height: 10.5 ft in Ins. Grade: Image: Solar Absorptance: 0.80 Calculated Area: 67.2 ft² Framing Fraction: 0.230 0.230 Comment: 12B-0sw;6-2 Werview of Walls Image:	Midth: 6.4 ft in Ins. R-Value: 11 Sheathing R-Value: 0 Height: 10.5 ft in Ins. Grade: Image: Solar Absorptance: 0.80 0.92 Calculated Area: 67.2 ft in Framing Fraction: 0.230 0.80 0.92 wmment: 12B-0sw,6-2 Image: Solar Absorptance: 0.80 0.80 0.92 WALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	Wall Area		Wall Cavity Exterior	Characteristics
Height: 10.5 ft in Ins. Grade: Solar Absorptance: 0.80 Calculated Area: 67.2 ft² Framing Fraction: 0.230 comment: 12B-0sw,6-2 walls I I Delete Post WALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame_VWood Garage	teight: 10.5 tt in Ins. Grade: ✓ Solar Absorptance: 0.80 Calculated Area: 67.2 ft² Framing Fraction: 0.230 0.230 vmment: 12B-0sw,6-2 verview of Walls I ► ► Delete Post VMALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	Width: 6	5.4 ft	in Ins. R-Value: 11 Sheathing	R-Value: 0 U-Value:
Calculated Area: 67.2 ft² Framing Fraction: 0.230 Comment: 12B-0sw,6-2 Duerview of Walls I I I Variation I I I I Variation I I I I I S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	Calculated Area: 67.2 ft² Framing Fraction: 0.230 perview of Walls I I Delete Post vmment: 12B-0sw,6-2 I Delete Post vmment: 1 S Concrete Block - Int Insul Exterior 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage V	Height: 10	15 #	in Ins. Grade: 📔 👻 Solar Abs	orptance: 0.80
Calculated Area: 57.2 ft ² Comment: 12B-Osw,6-2 Walls I Delete Post WALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	Calculated Area: 67.2 ft* Perview of Walls IMAGENTATION WALL_TYPE ADJACENT_TO I S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage			Framing Fraction: 0.230	
Comment: 12B-0sw,6-2 Walls I Delete Post WALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A Image: Concrete 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage Image: Concrete	wrment: 12B-0sw,6-2 Verview of Walls Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Delete Post WALL_ID ORIENTATION WALL_TYPE ADJACENT_TO Amage: Colspan="2">Amage: Colspan="2">ADJACENT_TO 1 S Concrete Block - Int Insul Exterior Image: Colspan="2">ADJACENT_TO 2 E Concrete Block - Int Insul Exterior Image: Colspan="2">Image: Colspan="2">ADJACENT_TO 3 N Concrete Block - Int Insul Exterior Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Imag	Calculated	Area: 67.2 π*		
Walls I Delete Post WALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Exterior 4 W Frame - Wood Garage	verview of Walls I I Delete Post WALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage V	Comment: 12	3-0sw,6-2		
WALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A 1 S Concrete Block - Int Insul Exterior Image: Starting of the starting o	WALL_ID ORIENTATION WALL_TYPE ADJACENT_TO A 1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	Overview of \	Valls	III III IIII IIIIIIIIIIIIIIIIIIIIIIIII	Post
1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	1 S Concrete Block - Int Insul Exterior 2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	WALL_ID	ORIENTATION	WALL_TYPE	ADJACENT_TO A
2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	2 E Concrete Block - Int Insul Exterior 3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	· ·	S	Concrete Block - Int Insul	Exterior
3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage	3 N Concrete Block - Int Insul Exterior 4 W Frame - Wood Garage			Coporate Block, Int Incul	Exterior
▶ 4 W Frame - Wood Garage ↓	4 W Frame - Wood Garage		2 E	Concrete block - Int insul	Exterior
			2 E 3 N	Concrete Block - Int Insul	Exterior
			2 E 3 N 4 VV	Concrete Block - Int Insul Concrete Block - Int Insul Frame - Wood	Exterior Garage
			2 E 3 N 4 W	Concrete Block - Infinisti Concrete Block - Int Insul Frame - Wood	Exterior Garage
			2 E 3 N 4 W	Concrete Block - Infinitial Concrete Block - Int Insul Frame - Wood	Exterior Garage
Floors(1) Roof Ceilings(2) Walls(7) Doors(2) Windows(14) Infiltration Garage Sunspace Mass	Roof Ceilings(2) Walls(7) Doors(2) Windows(14) Infiltration Garage Sunspace Mass	Floors(1)	2 E 3 N 4 W Roof Ceiling	Concrete Block - Infinitisui Concrete Block - Int Insul Frame - Wood s(2) Walls(7) Doors(2) Windows(14) Infil	Exterior Garage
Floors(1) Roof Ceilings(2) Walls(7) Doors(2) Windows(14) Infiltration Garage Sunspace Mass	Toors(1) Roof Ceilings(2) Walls(7) Doors(2) Windows(14) Infiltration Garage Sunspace Mass 24 c L Environment Envi	Floors(1)	2 E 3 N 4 W Roof Ceiling	Concrete Block - Infinitisui Concrete Block - Infinitisui Frame - Wood s(2) Walls(7) Doors(2) Windows(14) Infil	Exterior Garage

Our building is 16" on center so we will use .23. Again, the framing factor will have to be edited for each frame wall.



One more quick entry and our wall page will be done. Insulation grade must be rated. In our case it will not be inspected. Click on each wall and enter the appropriate grade.

	SenergyGauge USA - 111 Main Street
1	File View Calculate Reports Registration Support Help
	Project NL: 10 0 User Ethy Mode w of Ns s. 0 Current Door, Alumber 2 of 2 Wall D: 7 Image: N Frame - Wood Winter U-value: 0.390 Calc. U-Value Door Area Bata Door Type Image: None Owned C Metal Weath: 3 tt in Image: None C Mood C Metal Vieth: 6.7 tt in Comment: 11D,8-2 Calculated Area: 20.1 to P Post Image: None Image: None Door_ID WALL_ID TYPE AREA WINTER_U_VALUE STORM_DOOR_TYPE Image: None 1 1 Insulated 20.1 0.500 None Image: None Image: None
	Floors(1) Roof Cellings(2) Windows(14) Infiltration Garage Sunspace Mass Site Envelope Equipment Envelope Equipment

Door information transfers into the rating program correct so nothing needs changing on this page.

Pro	oject ID: 1	8 dow. Numb	er 1 of 11		User Er	try Mode		# of IA'	s: 0
- ~	Vall ID/Skylig	ght: 1 🔻	S Concrete Bl	ock - Int InsiLoc	ation:		# of wind	lows like this or	ne: 1
	J-Factor M Type: Si	odifiers	U-Factor	80 Tint:	SHGC[wi rhang Da	ndow] 💌	0.75 Window Width:	w Area Data 4.4 ft	in
	rame: TI	М	-	Dept	h:	2 ft	in Height:	3.2 ft	in
	Storm VV	indow ?	🔽 Auto C	alculate Sepa	aration:	1 ft	in Calcu	ulated Area: 14	4.08 ft²
Int	: Shade: Di	rapes/blinds	Screening:	Exterior 50%	💌 Cor	nment: 1A-c	:b-o,1-1		
0	verview of	Windows			- 	+ -	Post		
Ιг	WIN_ID	WALL_ID	GLASS_TYPE	FRAME_TYPE	STORM	U_VALUE	TOTAL_AREA	NUM_UNITS I	SEP_
		1 1	Single	TIM	N	1.080	14.08	1	
		2 1	Single	TIM	N	1.080	14.08	1	
		3 3	Single	TIM	N	1.080	14.08	1	
		4 3	Single	TIM	N	1.080	14.08	1	
		5 3	Single	TIM	N	1.080	14.08	1	_

Windows transfer from the load calculation program as they were entered; the window height and width; the overhang depth and separation; interior shading, and screening all come into USA with no editing necessary. As on the wall page, the "Comment" box tells the type of window, room & wall the window is on in RHVAC.

File View Calculate Reports Registration Support Help Project ID: 18 User Entry Mode # of IA's: 0 Data Entry Method Gene Entry Mode # of IA's: 0 Data Entry Method Gene Entry Mode # of IA's: 0 Data Chroposed SLA Calculate/Post C Proposed CFM(50) Cood Infiltration Characteristics C Proposed ELA C Proposed Equal CA:H 0.345 C Proposed ACH Proposed ACH(50) Proposed ACH(50) Suburban Suburban Suburban Suburban Suburban Suburban Suburban Suburban Suburban Mass Floors(1) Roof Celings(2) Weils(7) Doors(2) Windows(14) Infiltration Genage Mass	🔊 EnergyGauge USA - 111 Main Stree	t	X
Project lik: 10 User Filly Mode A Bit X St. 0 Data Entry Method Infiltration © Best Guess Estimated Envelope Tightness © Proposed SLA © Good © Proposed CFM(50) © Average © Proposed ELA © Poor © Proposed ACH © Proposed ACH(50) © Proposed ACH(50) Infiltration Air Wind Shielding Ventilation Air Terrain Parameter: Suburban Suburban Infiltration Shielding Coefficient: Suburban Suburban Imit Suburban Shielding Coefficient: Suburban Suburban Imit Suburban	File View Calculate Reports Registrat	ion Support Help	
Data Entry Method Calculate:Post C Best Quess Estinated Envelope Tightness C Proposed CFM(50) Good P Proposed EAA Poor P Proposed EAA Poor P Proposed ACH Proposed ACH(50) P Proposed ACH(50) Ventilation Air Wind Shielding Ventilation Air Terrain Parameter: Suburban Shielding Coefficient: Suburban Shielding Coefficient: Suburban	Project ID: 18	User Entry Mode	# of IA's: U
Wind Shielding Ventilation Air Terrain Parameter: None Suburban Shielding Coefficient: Suburban Image: Suburban in the second secon	C Best Guess C Proposed SLA C Proposed GLA C Proposed ELA C Proposed ELA C Proposed ELA C Proposed ACH C Proposed ACH C Proposed ACH(50)	Estimated Envelope Tightness C Good C Average C Poor	Calculate/Post Infiltration Characteristics CFM(50): 1620 ELA: 88.9 EGLA: 167.2 ACH(50): 9.84 SLA: 0.00050
Floors(1) Roof Ceilings(2) Walls(7) Doors(2) Windows(14) Infiltration Garage Sunspace Mass	Wind Shielding Ventilation I Terrain Parameter: None Suburban Image: Stielding Coefficient: Suburban Image: Suburban	Nr v	
Site Envelope Equipment	Floors(1) Roof Ceilings(2) Wa	IIIs(7) Doors(2) Windows(14) Infiltration	Garage Sunspace Mass

Infiltration. On the site page of USA under building information: Status: we selected new (from plans), because of this our options on the infiltration page are these.

File View Calculate Reports Registration Support Help Project ID: 18 User Entry Mode # of IA's: 0 Data Entry Method Infiltration Calculate/Post © Detault Infiltration Calculate/Post © Tested Single Point Blower Door nL = 0.57 Calculate/Post © Tested Multi Point Blower Door © Tested Blower Door Results Infiltration Wind Shielding Ventilation Air Terrain Parameter: Suburban Suburban Suburban Suburban Image: Suburban Suburban Floors(1) Roof Cellings(2) Weils(7) Doors(2) Windows(14) Infiltration	🔊 EnergyGauge USA - 111 Main Street			
Project ID: 18 User Entry Mode # of IA's: 0 Data Entry Method Infiltration Calculate/Post © Detault Infiltration Calculate/Post © Tested Single Point Blower Door InL = 0.57 Calculate/Post © Tested Multi Point Blower Door Tested Blower Door Results Internan Parameter: Wind Shielding Ventilation Air Ventilation Air Terrain Parameter: None Suburban Suburban Suburban Suburban Suburban Imit Point Cellings(2) Wells(7) Doors(2) Windows(14) Intiltration	File View Calculate Reports Registration	n Support Help		
Data Entry Method Infiltration © Detault Calculate/Post © Tested Single Point Blower Door nL = 0.57 © Tested Multi Point Blower Door © Tested Blower Door Results Wind Shielding Ventilation Air Terrain Parameter: None Suburban Suburban Suburban Image: Suburban	Project ID: 18	User Entry Mode	#ofIA's: 0	
C Tested Single Point Blower Door C Tested Multi Point Blower Door C Tested Blower Door Results Wind Shielding Ventilation Air Terrain Parameter: None Suburban ▼ Shielding Coefficient: Suburban Suburban ▼ Floors(1) Root Ceilings(2) Walls(7) Doors(2) Windows(14) Initiration Garage Sunspace Mass	 Data Entry Method O Default	nfiltration	Calculate/Post	
C Tested Mult Point Blower Door C Tested Blower Door Results Wind Shielding Veritilation Air Terrain Parameter: Suburban Shielding Coefficient: Suburban Floors(1) Roof Ceilings(2) Walls(7) Doors(2) Windows(14) Infitration Garage Sunspace Mass	C Tested Single Point Blower Door	nL = 0.57		
Wind Shielding Ventilation Air Terrain Parameter: None Suburban Shielding Coefficient: Suburban Image: Suburban Floors(1) Roof Ceilings(2) Wells(7) Doors(2) Windows(14) Image: Suburban Mass	Tested Multi Point Blower Door Tested Blower Door Results			
Floors(1) Root Cellings(2) Walls(7) Doors(2) Windows(14) Infiltration Garage Sunspace Mass	Wind Shielding Ventilation Air Terrain Parameter: None Suburban Image: Suburban Shielding Coefficient: Suburban	, 	J	
Site Envelope Equipment	Floors(1) Roof Ceilings(2) Walls Site Envelope Equipment	(7) Doors(2) Windows(14) Infiltration	Garage Sunspace Mass	

Had we selected new (inspected and tested), our data entry options are changed and here is where we can add our test results.

Eile <u>View</u> <u>Calculate</u> <u>Reports</u> <u>Registration</u> Project ID:22	1 Support <u>H</u> elp User Entry Mode #o'	f IA's: 0	
Current Wall, Number 4 of 7 Orient, W ▼ Type; Frame - Wood Wall Area With: 6.4 ft in in Ins. R-Value Ins. Grad Calculated Arei67.2 ft² Framing f Calculated Arei67.2 ft² Framing f Comment 12B-0sw,6-2 Verview of Walls ↓ 4 V Frame - Wood ↓ 4 W Frame - Wood ↓ 5 Concrete Block ↓ 4 W Frame - Wood ↓ 5 Concrete Block ↓ 5 Concrete Block ↓ 5 Concrete Block ↓ 6 W Frame - Wood ↓ 6 W Frame - Wood ↓ 7 Wells(2) Walls(7) Site Envelope Equipmen	Adjacent To Garage Adjacent To Garage Sheathing R-Valu O EnergyGauge USA - 111 Main Street ie View Calculate Reports Registration Support Project ID: 18 Attached Garage? Yes No Garage Dimensions Garage Length (ft)	e J-Value: 0 092 Help User Entry Mode # of Exposed Wall Parameters Exposed Wall Height (ft) Exposed Wall R-value	IA's: 0

RHVAC automatically builds a default garage in USA, this is needed because back in the wall section we had some walls that were "Adjacent To" a garage. If all the walls are "Adjacent To" Exterior you can click on "No". But in this example we have an attached garage and since RHVAC exported a default garage we can edit to the proper dimensions.

FineroyGauge USA - 111 Main Street F Street USA - 111 Main Street File View Calculate Reports Registratio	Support Help
Project ID: 18	User Entry Mode #of IA's: 0
Fir Area: 168 Flor Area: R-value: Slab: 168 0 Crawl- 0 19 Space: 0 19 R-value: 30 Area: 143 Solar absorp.: 0.9 Tilt: 22.8 Glazed area: 50 S.C.: 0.75 Glazing U-val: 0.5 Night- Insulation?	Exterior Walls Windows Avg. Hght: 8 Wall R-value: 19 Door R-val: 5 Masonny? Solar absorp.: 0.6 Night ins. R-val: 4 Direction: Gross AreaDoor Area: Glazed Area: S.C. U-Val Night ins. Wall 1: W 68 21 20 0.75 0.5 Wall 2: E 68 21 20 0.75 0.5 Wall 3: S 184 21 100 0.75 0.5 Wall 3: S 184 21 100 0.75 0.5 Common Wall R-value Gross Area: Door Area: Glazed Area: S.C. U-Val Night ins? 11 184 21 42 1 1.11 Ins? Space Conditions (Summer) Vented Blinds Overhangs Depth: 1.5 Separation: 6
Floors(1) Roof Cellings(2) Walls	7) Doors(2) Windows(14) Infitration Garage Sunspace Mass
Sta Faulana Frankmant	

If your building has a sunspace click the box and a new entry box appears, fill in the appropriate data

	Senergy Ga	iuge USA - 111 Main S	itreet			
	File View (alculate Reports Reg	jistration Support Help			
	Project ID:	18	User Entry	Mode	# of IA's	: 0
	Type:	No Added Mass No Added Mass 5/8" Sheetrock Adobe Brick Concrete Crushed Rock Rock/Stone (Solid) Water	⊥ Fract Spac	on of Floor e with Furniture	0.3	
						· · · · · ·
Note to th and	that thie basic not for l	s screen is constructio pasic wall c	only completed n on the conditic omponents such	for walls the oned side of as 1/2" th	hat have r of the the hick drywa	nass added rmal barrier all.
Note to th and	that this e basic not for l	S SCREEN IS CONSTRUCTIO DASIC WALL CO Root Cellings(2) Envelope Equipment	only completed n on the conditic omponents such Wells(7) Doors(2) Windows	for walls the price of side of as 1/2" the state of the second se	hat have r of the the hick drywa	mass added rmal barrier all.
Note to th and	Floors(1)	S SCREEN IS CONSTRUCTIO DASIC WALL CO Root Cellings(2) Envelope Equipment	only completed n on the conditic omponents such Walls(7) Doors(2) Windows	for walls the pried side (as 1/2" the (14) inflitration (Generation)	hat have r of the the hick drywa	mass added rmal barrier all.

Note that this screen is only completed for walls that have mass added to the basic construction on the conditioned side of the thermal barrier, and not for basic wall components such as 1/2" thick drywall.

	🔊 EnergyGauge USA - 111 Main Str	reet		J
	File View Calculate Reports Regist	stration Support Help		
	Project ID: 18	User Entry Mode	#ofIA's: 0	
-	There are no cooling system one by clicking the	ns in this project. Please add e insert ("+") button.		
	Overview of Cooling Systems		ost	
	HVAC_ID TYPE	CAP EFF	FUEL_TYPE	
		CAP EFF	FUEL_TYPE	
	HVAC_D TYPE	Lots(0) Hot Water(0) Temperatures(4) Appliance	FUEL_TYPE	
	HVAC_ID TYPE	Lcts(0) Hot Water(0) Temperatures(4) Appliance	FUEL_TYPE	
	HVAC_D TYPE	Lets(0) Hot Water(0) Temperatures(4) Appliance	FUEL_TYPE	
	HVAC_D TYPE	Lets(0) Hot Water(0) Temperatures(4) Appliance	FUEL_TYPE	
	HVAC_D TYPE	Lets(0) Hot Water(0) Temperatures(4) Appliance	FUEL_TYPE	
	HVAC_D TYPE	Lets(0) Hot Water(0) Temperatures(4) Appliance	FUEL_TYPE	
	HVAC_D TYPE	Lets(0) Hot Water(0) Temperatures(4) Appliance	FUEL_TYPE FUEL_TYPE set Lights(10) Photovotaics(0)	

Under the "Equipment" tab we will first fill in the "Cooling" equipment information.

Click the "+" to add the cooling equipment.

	SenergyGauge USA - 111 Main Str	reet	
j	File view Calculate Reports Regis	tration Support Help	tof Mar 0
Central Unit PTAC and Room Unit Geothermal Heat Pump Natural Gas Heat Pump LP Gas Heat Pump Evaporative Cooler	Current Cooling System, Number Type: Central Unit	1 of 1 System is Unducted of System Informati Sensible Heat Ratio: Efficiency: Capacity: Tested Coil Air Flow Model Number: USA 000	00 0.75 13 Btu//V 30 kBtu/hv 1000 CFM Suggest
	Overview of Cooling Systems HVAC_ID TYPE I 1 Central Unit	Id ▷ ▷ □ F CAP EFF 30 30 30	FUEL_TYPE 13 Electric
	Cooling(1) Heating(0) Du	cts(0) Hot Weter(0) Temperatures(4) Applian	ces + Lights(10) Photovoltaics(0)
CALCS-PLUS	Site Envelope Equipment		

Fill in the cooling system "Type", if the system is unducted check the box to indicate so, and go to the "System Information" and fill in the "Sensible Heat Ratio", "Efficiency", "Capacity", and "Tested Coil Airflow".

USA doesn't really have provisions for multiple systems. So if you are working on a project with multiple units you must total up all of the systems and enter them as one unit.

	EnergyGauge USA - 111 Main Street Image: State Stat
-	Project ID: 18 User Entry Mode #of IA's: 0
	Current Duct, Number 1 of 1 Leakage Type Duct R-Value: Image: Calculate Supply Duct Area: 247 Proposed On Proposed On Proposed Calculate Proposed Calculate Supply Duct Area: 6175 Proposed Leak Free Proposed Dist. Eff. Supply Duct Location: Attic Proposed Dist. Eff. Comment: Air Handler Location: Carage Verview of Duct Systems Image: Calculate Image: Calculate Proposed Dist. Eff. Number of Return Duct Location: Attic Overview of Duct Systems Image: Calculate Image: Calculate Image: Calculate Image: Calculate Image: Calculate Image: Calculate Proposed Dist. Eff. Conversition: Calculate Image: Calculate Proposed Dist. Eff. Image: Calculate Image: Calculate Image: Calculate Image: Ca
	Cooling(1) Heating(1) Ducts(1) Hot Water(0) Temperatures(4) Appliances + Lights(10) Photovoltaics(0)

When you select to add a duct system default data appears, change any of the factors that is not correct for your building

Conservation Credits Type: Coll Capacity: 40 Gailons per Day: 60 EF: 0.92 Set Temperature: 140 Comment: Comment: Comment: Comment: Overview of Hot Water Systems Id Project ID: 18 User Entry Mode # of IA's: 0 Capacity: 40 Gailons per Day: 60 Ef: 0.92 Set Temperature: 140 Comment: Comment: Overview of Hot Water Systems Id P P + - Post Post WATER_SYS_ID PRIMARY_TYPE PRIMARY_CAP PRIMARY_EFF LOCATION Material 40 0.92 Garage Comment			
File View Calculate Reports Registration Support Help Project ID: 18 User Entry Mode # of IA's: 0 Current Hot Water System, Number 1 of 1 Conservation Credits Type: Electric Location: Garage Conservation Credits Type: 0.92 Set Temperature: 140 Comment: Comment: Overview of Hot Water Systems I<	rgyGauge USA - 111 Main Street		<u> </u>
Project ID: 18 User Entry Mode # of IA's: 0 Current Hot Water System, Number 1 of 1 Type: Electric Location: Garage Capacity: 40 Galons per Day: 60 EF: 0.92 Set Temperature: 140 Meat Trap/Insulation Tank Wrap Insult: 0 Comment: Overview of Hot Water Systems 14 Water_SYS_ID PRIMARY_TYPE PRIMARY_CAP PRIMARY_CAP PRIMARY_EFF LOCATION	ew Calculate Reports Registration Support Help		
Current Hot Water System, Number 1 of 1 Conservation Credits Type: Electric Location: Garage Image: Type: None Capacity: 40 Gallons per Day: 60 EF: 0.92 Set Temperature: 140 Image: Heat Trap/Insulation Tank Wrap Insul: 0 0 Comment: Comment: Overview of Hot Water Systems Image: Type: Primary_cap Primary_cap Primary_cap Water_Sys_ID Primary_type Primary_cap Primary_terf Location 1 Electric 40 0.92 Garage	t ID: 18 User Entry	Mode # of IA's: (
Comment: Overview of Hot Water Systems II I Post WATER_SYS_ID PRIMARY_TYPE PRIMARY_CAP PRIMARY_EFF LOCATION Belectric 40 0.92 Garage	Autor value system, kumber 1 of 1 Conservation Electric Callons per Day: 60 0.92 Set Temperature: 140 comment Comment	ation Credits	
WATER_SYS_ID PRIMARY_TYPE PRIMARY_CAP PRIMARY_CEFF LOCATION 1 Electric 40 0.92 Garage	ent:	+ _ Post	····
Electric 40 0.92 Garage	ATER_SYS_ID PRIMARY_TYPE PI	RIMARY_CAP PRIMARY_EFF LOCATION	
Cooling(1) Heating(1) Ducts(1) Hot Water(1) Temperatures(4) Appliances + Lights(10) Photovoltaics(0)		et un c'al (a profession de la constante de la	aics(f)
Site Envelope Fouriement	ling(1) Heating(1) Ducts(1) Hot Water(1) Temper	atures(4) appliances + Lights(10, Photovoita	

Select the "+" to add hot water components, the default information we entered in our preferences came in as our hot water component. This can be changed to match your building.

	SenergyGauge USA - 111 Main Street	
-	File <u>View</u> <u>Calculate</u> <u>Reports</u> <u>Registration</u> Support <u>H</u> elp	
	Project ID:22 User Entry Mode	# of IA's: 0
	Thermostat Schedules	Seasonal Schedule
	Name: HERS 2006 Reference V Shange	Heat CoolVent
	Comment: Cooling Weekday Schedule	
	Programmable Thermost	Mar C V
	Schedule	
	Schedule Type Cooling (WD) Viet All To Use 68	
	1 2 3 4 5 6 7 8 9 10 11 12	Jun 🗆 🗹 🗖
	AM 78 78 78 78 78 78 78 78 78 78 78 78 78	Jul 🗆 💌 🗖
	13 14 15 16 17 18 19 20 21 22 23 24	Aug 🗆 🖻 🗖
	PM 78 78 78 78 78 78 78 78 78 78 78 78 78	Sep 🗆 🖻 🗖
	Schedules	Oct 🔽 🔽 🗖
		Nov 🗆 🖻
	Cooling (WD) 78 78 78 78	Dec 🗹 🗖
	Cooling(1) Heating(1) Ducts(1) Hot Water(1) emperatures(4 plian	nces + Lights(1 ^p hotovoltaics(0
	Cita Emplona Emiliana	
		· · · · · · · · · · · · · · · · · · ·

Check the Heat, Cool, or Vent box for each month of the year that space heating, space cooling or natural ventilation will be used. Note that more than one box may be checked for each month, and to obtain ventilation credit, both the Cool and Vent boxes must be checked for each month that applies. Defaults will be scheduled based on your chosen climate location.

EperayGauge 1150 - 111 Main Street	
File View Calculate Reports Registration Support Help	
Project ID: 18 User Entry Mode # of IA's: 0	
 Appliances Present Washers Dryers Ranges Refrigerators % Fluores. Ceiling Fans Dishwashers Pool Pumps Weil Pumps Image: I	
 Appliance Schedules Name: HERS 2006 Reference Calc Misc	
 Schedule Details	
Appliance Type: Clothes Washer 👻 % heat released: 60	
 1 2 3 4 5 6 7 8 9 10 11 12 Annual Use AM 1047 0814 0465 0465 0814 1279 2558 5698 8488 19767 8721 Value: 0.0 MVh/Yr	
 13 14 15 16 17 18 19 20 21 22 23 24 0 Watts PM 7791 6977 6047 5698 5698 5698 5698 4864 4302 1977 Calc Peak Demand Calc Peak Demand	
Schedule	
TYPE HOUR_1 HOUR_2 HOUR_3 HOUR_4 HOUR_5	
Ceiling Fans (Summer) 0.65 0.65 0.65 0	
Clothes Washer 0.1047 0.0814 0.0465 0.0465 0.01	
Cooling(1) Heating(1) Ducts(1) Hot Water(1) Temperatures(4) Appliances + Lights(10) Photovoltaics(0)	
Site Envelope Fouringent	

Add appliances

Sepergy Gau	ne IISA - 111 Main Street		2 2 2 2 2	
File View Cal	culate Reports Registration S	Support Help		
Project ID: 18	1	User Entry Mode	# of IA's:	0
Current Heat	ting System, Number 1 of 1		-Svetem Sizing	
Type:	Electric Heat Pump	 System is Und 	ucted	
HSPF:	7.7 Btu/W	Capacity: 30 kBtu/h	r I Size on Calcul	lation
Commont			Size Now	
Comment:				
Manufacture	r: JUSA Air	Model Number: USA HP	030 05	
			_	
Overview of	Heating Systems			
Overview of	Heating Systems	↓ ▶ ▶ ■ <u>Pos</u> EFF	CAP DESCP	
Overview of HVAC_ID	Heating Systems	EFF	CAP DESCP 30	
Overview of HVAC_ID	Heating Systems	EFF 7.7	t DESCP 30	
Overview of HVAC_ID	Heating Systems I4 TYPE 1 Electric Heat Pump	EFF 7.7	CAP DESCP 30	
Ouerview of	Heating Systems I4 TYPE 1 Electric Heat Pump	EFF 7.7	CAP DESCP 30	
Overview of	Heating Systems I4 TYPE 1 Electric Heat Pump	EFF 7.7	CAP DESCP 30	
Overview of HVAC_ID	Heating Systems	Image: Non-State Image: Non-State	CAP DESCP 30	
Overview of HVAC_ID	Heating Systems	EFF 7.7	RT DESCP 30	
Overview of HVAC_ID	Heating Systems	Hot Water(0) Temperatures(4) App	RT DESCP 30 ilances + Lights(10) Photovo	Ditaics(0)
Overview of HVAC_ID	Heating Systems	H EFF 7.7 Hot Water(0)	CAP DESCP 30	>Dttaics(0)
Cooling(1)	Heating Systems	Hot Water(0) Temperatures(4) App	CAP DESCP 30) bitaics(0)
Cooling(1)	Heating Systems	Hot Water(0) Temperatures(4) App	BE DESCP 30 30	>taics(0)
Cooling(1)	Heating Systems	Hot Water(0) Temperatures(4) App	BE DESCP 30 30) Ditaics(0)
Cooling(1)	Heating Systems	Hot Water(0) Temperatures(4) App	R DESCP 30 Biances + Lights(10) Photovo) Ditaics(0)

Enter your heating equipment and type.

	SenergyGauge USA - 111 Main Street File View Calculate Reports Registration Support Help
-	Project ID: 18 User Entry Mode # of IA's: 0
	Current Photovoltaic System, Number 1 of 1 Array Type: [Shell (Siemens) SP75 Azimuth: 180 Tilt: 23 Line Loss: 0.0035 NOCT: 45 Eff Coeff: 0.0043 Tracking Characteristics Characteristics W Watts C Area C Modules Carea Current Photovoltaic System, Number 1 of 1 Inverter Type: [Trace U 2512/24/32/36/48 Rating: 2500 W Avg. Eff: 0.9 Batteries Type: [None
	Overview of PV Systems
	PV_ID Array_Type Azimuth Titt Area_Ft
	Cooling(1) Heating(1) Ducts(1) Hot Water(1) Temperatures(4) Appliances + Lights(10) Photovoltaics(1)
	Site Envelope Environment

Photovoltaic Systems can be added here. Verify the information for the system at your building



