

- TYPICAL NOTES:**
- Contractor to verify ALL notes and dimensions prior to proceeding with work
  - Contractor to STRICTLY enforce ALL OSHA Requirements.
  - ALL Lumber to be used as Beam, Rafters, etc... to have a mn. 1,500 psi fiber bending stress.
  - No dissimilar metals to touch.
  - Drywall at ceilings shall be leveled and attached to bottom chord of trusses with screws per FBC R102.3.5.
  - ALL wood in contact with concrete shall be pressure treated.
  - ALL wall dimensions are nominal and not finished wall or stud dimensions.
  - ALL plumbing fixtures to be low flow.
  - Lowest finished floor to be set by others - Surveyor to set in field.
  - Separation between residence and garage shall be per FBC R302.6
  - Door between garage and residence shall be 1-3/4" 20 min. rated door
  - Wall and Ceiling shall have a flame-spread classification of not greater than 200 per FBC R302.9.1
  - Wall and ceiling finishes shall have a smoke-developed index of not greater than 450 per FBC R302.9.2
  - All exposed attic insulation materials installed on attic floors shall have a critical radiant flux not less than 0.12 watt per square centimeter. Exposed foam plastic insulation materials exposed on the underside of the roof deck or on the attic walls shall comply with F.B.C. R316 - see permit info box of code edition
  - Gypsum board material shall conform to ASTM C36, C79, C415, C514, C630, C931, C940, C1002, C1041, C1171, C1178, C1278, C1395, or C1396 and shall be installed according to the following: (FBC R102.3.5) See table below for attachment
  - All ceramic tile surfaces installed shall conform to ASTM A108.1 thru A108.6, A108.1, A118.1, A118.3, A131.1 and A131.1
  - Cement, fiber-cement or glass mat gypsum backers in accordance with ASTM C1288, C1325, OR C1178 and installed I.A.W. manufacturers recommendations shall be used as backer for the wall tile in tub areas and wall panels in shower areas.
  - Insulation including facings such as retarders or vapor permeable members installed within floor-ceiling assemblies, roof-ceiling assemblies, wall, crawl spaces and attic shall have a flame spread index not to exceed 25 with an accompanying smoke developed index not to exceed 450 when tested in accordance with ASTM E 84. Insulation shall comply with F.B.C. R314.

**Drywall Attachment Table FBC R102.3.5**

Drywall Thickness	Location	Orientation	Framing Member Spacing	Note	Stress	Nail using options for installation of drywall into wood framing members 2" x min. thickness
1/2"	Ceiling	Perpendicular	24"	T	12"	15ga 1 3/8" long with 19/64" head OR 0.018" diameter x 1 1/4" long annular-ringed or Cd cooler nail OR 0.030" dia. x 1 5/8" long with 5/64" head OR Gypsum board nail 0.034" dia. x 1 5/8" with 3/32" head
1/2"	Walls	Either Direction	16"	S	16"	0.018" diameter x 1 3/8" long annular-ringed or Cd cooler nail OR 0.032" dia. x 1 7/8" long with 1/4" head OR Gypsum board nail 0.0315" dia. x 1 7/8" with 19/64" head
5/8"	Ceiling	Perpendicular	24"	T	12"	15ga 1 5/8" long with 19/64" head OR 0.018" diameter x 1 3/8" long annular-ringed or Cd cooler nail OR 0.032" dia. x 1 7/8" long with 1/4" head OR Gypsum board nail 0.0315" dia. x 1 7/8" with 19/64" head
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**FLOOR PLAN**

SCALE 1/4" = 1'-0"

**Square Footage Breakdown**  
 Total A/C Space = 3,766 sq. ft.  
 Covered Porch Total = 554 sq. ft.  
 Garage = 1,466 sq. ft.  
 Under Roof Total = 5,786 sq. ft.

(W.H.) = Water Heater in pan where required with drain per FBC Plumbing

Revisions:  
 Date Drawn: 2-18-22  
 Drawn by: N.T.C.  
 Checked by: D.R.B.

Residence For:  
**Mr. & Mrs. Dunlap**

**Braden & Braden AIA, PA**  
 ARCHITECTS - PLANNERS  
 411 S.E. COCONUT AVENUE  
 Tel: (312) 281-8258  
 Fax: (312) 281-8283  
 Website: www.bradenarchitects.com  
 Stuart, FL 34996 #A4C000032



SHEET NO:  
 4  
 OF 12  
 JOB NUMBER:  
 21-327



Address: 6839 SW SILVER WOLF DRIVE, PALM CITY, FL 34990


# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: DUNLAP RESIDENCE Street: 6839 SW SILVERWOLF DRIVE City, State, Zip: PALM CITY , FL , 34990 Owner: Design Location: FL, West Palm Beach	Builder Name: Permit Office: MARTIN COUNTY Permit Number: Jurisdiction: MARTIN COUNTY County: Martin (Florida Climate Zone 2 )
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Glass/Floor Area: 0.176	Total Proposed Modified Loads: 124.83 Total Baseline Loads: 132.25	PASS
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<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: <u><i>Neel B. B...</i></u>                  DATE: <u>4-12-2022</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____                  DATE: _____</p>	<p>Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.</p> <div style="text-align: center;">  </div> <p>BUILDING OFFICIAL: _____                  DATE: _____</p>
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- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).
- Proposed Qn of 0.080 exceeds the performance method default limit of 0.08 and therefore does not require duct testing. R405.2.3

**INPUT SUMMARY CHECKLIST REPORT**

PROJECT					
Title:	DUNLAP RESIDENCE	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	3766	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	6839 SW SILVERWOL
Permit Office:	MARTIN COUNTY	Cross Ventilation:	No	County:	Martin
Jurisdiction:	MARTIN COUNTY	Whole House Fan:	No	City, State, Zip:	PALM CITY , FL , 34990
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE									
✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating	Design	Daily Temp
			97.5 %	2.5 %	Winter	Summer	Degree Days	Moisture	Range
_____	FL, West Palm Beach	FL_WEST_PALM_BEAC	44	90	70	75	316	60	Medium

BLOCKS			
Number	Name	Area	Volume
1	AHU 1	2691	30489.6
2	AHU 2	1075	12877

SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	BONUS RM	330	3630	No	0		1	Yes	Yes	Yes
2	BATH 2	50	500	No	0		1	Yes	Yes	Yes
3	BEDROOM 2	169	1690	No	0	1	1	Yes	Yes	Yes
4	CLST 3	14	140	No	0		1	Yes	Yes	Yes
5	CLST 2	14	140	No	0		1	No	Yes	Yes
6	BEDROOM 3	156	1560	No	0	1	1	Yes	Yes	Yes
7	BATH 4	50	500	No	0		1	Yes	Yes	Yes
8	BEDROOM 4	172	1720	No	0	1	1	Yes	Yes	Yes
9	BATH 3	60	600	No	0		1	Yes	Yes	Yes
10	CLST 4	28	280	No	0		1	No	Yes	Yes
11	ENTRY HALL	146	1460	No	0		1	No	Yes	Yes
12	HALLWAY	50	500	No	0		1	Yes	Yes	Yes
13	BREAKFAST RM	180	1800	No	0		1	Yes	Yes	Yes
14	KITCHEN	441	5292	Yes	0		1	No	Yes	Yes
15	PANTRY	77	1001	No	0		1	No	Yes	Yes
16	LAUNDRY	121	1573	No	0		1	Yes	Yes	Yes
17	FOYER	108	1803.6	No	0		1	Yes	Yes	Yes
18	GREAT RM	525	6300	No	0		1	Yes	Yes	Yes
19	DEN	260	3380	No	0		1	Yes	Yes	Yes
20	M BATH	204	2040	No	0		1	Yes	Yes	Yes
21	M TOILET	22	220	No	0		1	Yes	Yes	Yes

# INPUT SUMMARY CHECKLIST REPORT

SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
22	M HALL	12	120	No	0		1	No	Yes	Yes
23	M WIC 1	70	700	No	0		1	Yes	Yes	Yes
24	M WIC 2	58	580	No	0		1	No	Yes	Yes
25	MASTER BEDROO	449	5837	No	0	1	1	Yes	Yes	Yes

FLOORS										
✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	BONUS RM	51 ft		330 ft²	----	1	0	0
_____	2	Slab-On-Grade Edge Insulation	BATH 2	5 ft		50 ft²	----	1	0	0
_____	3	Slab-On-Grade Edge Insulation	BEDROOM 2	13 ft		169 ft²	----	1	0	0
_____	4	Slab-On-Grade Edge Insulation	CLST 3	2 ft		14 ft²	----	1	0	0
_____	5	Slab-On-Grade Edge Insulation	CLST 2	1 ft		14 ft²	----	1	0	0
_____	6	Slab-On-Grade Edge Insulation	BEDROOM 3	12 ft		156 ft²	----	1	0	0
_____	7	Slab-On-Grade Edge Insulation	BATH 4	5 ft		50 ft²	----	1	0	0
_____	8	Slab-On-Grade Edge Insulation	BEDROOM 4	13 ft		172 ft²	----	1	0	0
_____	9	Slab-On-Grade Edge Insulation	BATH 3	6 ft		60 ft²	----	1	0	0
_____	10	Slab-On-Grade Edge Insulation	CLST 4	1 ft		28 ft²	----	1	0	0
_____	11	Slab-On-Grade Edge Insulation	ENTRY HALL	1 ft		146 ft²	----	1	0	0
_____	12	Slab-On-Grade Edge Insulation	HALLWAY	4.2 ft		50 ft²	----	1	0	0
_____	13	Slab-On-Grade Edge Insulation	BREAKFAST RM	21 ft		180 ft²	----	1	0	0
_____	14	Slab-On-Grade Edge Insulation	KITCHEN	1 ft		441 ft²	----	1	0	0
_____	15	Slab-On-Grade Edge Insulation	PANTRY	1 ft		77 ft²	----	1	0	0
_____	16	Slab-On-Grade Edge Insulation	LAUNDRY	18 ft		121 ft²	----	1	0	0
_____	17	Slab-On-Grade Edge Insulation	FOYER	9 ft		108 ft²	----	1	0	0
_____	18	Slab-On-Grade Edge Insulation	GREAT RM	21 ft		525 ft²	----	1	0	0
_____	19	Slab-On-Grade Edge Insulation	DEN	28 ft		260 ft²	----	1	0	0
_____	20	Slab-On-Grade Edge Insulation	M BATH	28 ft		204 ft²	----	1	0	0
_____	21	Slab-On-Grade Edge Insulation	M TOILET	4 ft		22 ft²	----	1	0	0
_____	22	Slab-On-Grade Edge Insulation	M HALL	1 ft		12 ft²	----	1	0	0
_____	23	Slab-On-Grade Edge Insulation	M WIC 1	10 ft		70 ft²	----	1	0	0
_____	24	Slab-On-Grade Edge Insulation	M WIC 2	1 ft		58 ft²	----	1	0	0

## INPUT SUMMARY CHECKLIST REPORT

FLOORS													
✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet			
✓	25	Slab-On-Grade Edge Insulation	MASTER BEDRO	52 ft		449 ft <sup>2</sup>	----	1	0	0			
ROOF													
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
✓	1	Hip	Flat tile/slate	4211 ft <sup>2</sup>	0 ft <sup>2</sup>	Medium	N	0.1	No	0.9	No	22	26.57
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
✓	1	Full attic	Unvented	0	3766 ft <sup>2</sup>	N	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
✓	1	Under Attic (Unvented)	BONUS RM	0	Blown	330 ft <sup>2</sup>	0.1	Wood					
✓	2	Under Attic (Unvented)	BATH 2	0	Blown	50 ft <sup>2</sup>	0.1	Wood					
✓	3	Under Attic (Unvented)	BEDROOM 2	0	Blown	169 ft <sup>2</sup>	0.1	Wood					
✓	4	Under Attic (Unvented)	CLST 3	0	Blown	14 ft <sup>2</sup>	0.1	Wood					
✓	5	Under Attic (Unvented)	CLST 2	0	Blown	14 ft <sup>2</sup>	0.1	Wood					
✓	6	Under Attic (Unvented)	BEDROOM 3	0	Blown	156 ft <sup>2</sup>	0.1	Wood					
✓	7	Under Attic (Unvented)	BATH 4	0	Blown	50 ft <sup>2</sup>	0.1	Wood					
✓	8	Under Attic (Unvented)	BEDROOM 4	0	Blown	172 ft <sup>2</sup>	0.1	Wood					
✓	9	Under Attic (Unvented)	BATH 3	0	Blown	60 ft <sup>2</sup>	0.1	Wood					
✓	10	Under Attic (Unvented)	CLST 4	0	Blown	28 ft <sup>2</sup>	0.1	Wood					
✓	11	Under Attic (Unvented)	ENTRY HALL	0	Blown	146 ft <sup>2</sup>	0.1	Wood					
✓	12	Under Attic (Unvented)	HALLWAY	0	Blown	50 ft <sup>2</sup>	0.1	Wood					
✓	13	Under Attic (Unvented)	BREAKFAST RM	0	Blown	180 ft <sup>2</sup>	0.1	Wood					
✓	14	Under Attic (Unvented)	KITCHEN	0	Blown	441 ft <sup>2</sup>	0.1	Wood					
✓	15	Under Attic (Unvented)	PANTRY	0	Blown	77 ft <sup>2</sup>	0.1	Wood					
✓	16	Under Attic (Unvented)	LAUNDRY	0	Blown	121 ft <sup>2</sup>	0.1	Wood					
✓	17	Under Attic (Unvented)	FOYER	0	Blown	108 ft <sup>2</sup>	0.1	Wood					
✓	18	Under Attic (Unvented)	GREAT RM	0	Blown	525 ft <sup>2</sup>	0.1	Wood					
✓	19	Under Attic (Unvented)	DEN	0	Blown	260 ft <sup>2</sup>	0.1	Wood					
✓	20	Under Attic (Unvented)	M BATH	0	Blown	204 ft <sup>2</sup>	0.1	Wood					
✓	21	Under Attic (Unvented)	M TOILET	0	Blown	22 ft <sup>2</sup>	0.1	Wood					
✓	22	Under Attic (Unvented)	M HALL	0	Blown	12 ft <sup>2</sup>	0.1	Wood					
✓	23	Under Attic (Unvented)	M WIC 1	0	Blown	70 ft <sup>2</sup>	0.1	Wood					
✓	24	Under Attic (Unvented)	M WIC 2	0	Blown	58 ft <sup>2</sup>	0.1	Wood					
✓	25	Under Attic (Unvented)	MASTER BEDRO	0	Blown	449 ft <sup>2</sup>	0.1	Wood					

**INPUT SUMMARY CHECKLIST REPORT**

WALLS														
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___ 1	E	Exterior	Concrete Block - Int Insul	BONUS RM	4.1	14	0	11	0	154.0 ft²	0	0	0.1	0
___ 2	S	Exterior	Concrete Block - Int Insul	BONUS RM	4.1	18	0	11	0	198.0 ft²	0	0	0.1	0
___ 3	W	Exterior	Concrete Block - Int Insul	BONUS RM	4.1	19	0	11	0	209.0 ft²	0	0	0.1	0
___ 4	W	Exterior	Concrete Block - Int Insul	BATH 2	4.1	5	0	10	0	50.0 ft²	0	0	0.1	0
___ 5	W	Exterior	Concrete Block - Int Insul	BEDROOM 2	4.1	13	0	10	0	130.0 ft²	0	0	0.1	0
___ 6	W	Exterior	Concrete Block - Int Insul	CLST 3	4.1	2	0	10	0	20.0 ft²	0	0	0.1	0
___ 7	W	Exterior	Concrete Block - Int Insul	BEDROOM 3	4.1	12	0	10	0	120.0 ft²	0	0	0.1	0
___ 8	W	Exterior	Concrete Block - Int Insul	BATH 4	4.1	5	0	10	0	50.0 ft²	0	0	0.1	0
___ 9	W	Exterior	Concrete Block - Int Insul	BEDROOM 4	4.1	13	0	10	0	130.0 ft²	0	0	0.1	0
___ 10	N	Garage	Frame - Wood	BEDROOM 4	11	14	0	10	0	140.0 ft²	0	0.1	0.1	0
___ 11	W	Exterior	Concrete Block - Int Insul	BATH 3	4.1	6	0	10	0	60.0 ft²	0	0	0.1	0
___ 12	N	Garage	Frame - Wood	CLST 4	11	2	0	10	0	20.0 ft²	0	0.1	0.1	0
___ 13	N	Garage	Frame - Wood	ENTRY HALL	11	6	0	10	0	60.0 ft²	0	0.1	0.1	0
___ 14	SE	Exterior	Concrete Block - Int Insul	HALLWAY	4.1	4	3	10	0	42.5 ft²	0	0	0.1	0
___ 15	E	Exterior	Concrete Block - Int Insul	BREAKFAST	4.1	13	0	10	0	130.0 ft²	0	0	0.1	0
___ 16	S	Exterior	Concrete Block - Int Insul	BREAKFAST	4.1	8	0	10	0	80.0 ft²	0	0	0.1	0
___ 17	N	Exterior	Concrete Block - Int Insul	LAUNDRY	4.1	10	0	13	0	130.0 ft²	0	0	0.1	0
___ 18	E	Exterior	Concrete Block - Int Insul	LAUNDRY	4.1	8	0	13	0	104.0 ft²	0	0	0.1	0
___ 19	N	Exterior	Concrete Block - Int Insul	FOYER	4.1	9	0	16	8	150.0 ft²	0	0	0.1	0
___ 20	S	Exterior	Concrete Block - Int Insul	GREAT RM	4.1	21	0	12	0	252.0 ft²	0	0	0.1	0
___ 21	N	Exterior	Concrete Block - Int Insul	DEN	4.1	13	0	13	0	169.0 ft²	0	0	0.1	0
___ 22	E	Exterior	Concrete Block - Int Insul	DEN	4.1	7	0	13	0	91.0 ft²	0	0	0.1	0
___ 23	W	Exterior	Concrete Block - Int Insul	DEN	4.1	8	0	13	0	104.0 ft²	0	0	0.1	0
___ 24	N	Exterior	Concrete Block - Int Insul	M BATH	4.1	13	0	10	0	130.0 ft²	0	0	0.1	0
___ 25	E	Exterior	Concrete Block - Int Insul	M BATH	4.1	15	0	10	0	150.0 ft²	0	0	0.1	0
___ 26	E	Exterior	Concrete Block - Int Insul	M TOILET	4.1	4	0	10	0	40.0 ft²	0	0	0.1	0
___ 27	E	Exterior	Concrete Block - Int Insul	M WIC 1	4.1	10	0	10	0	100.0 ft²	0	0	0.1	0
___ 28	E	Exterior	Concrete Block - Int Insul	MASTER BE	4.1	22	0	13	0	286.0 ft²	0	0	0.1	0
___ 29	S	Exterior	Concrete Block - Int Insul	MASTER BE	4.1	17	0	13	0	221.0 ft²	0	0	0.1	0
___ 30	W	Exterior	Concrete Block - Int Insul	MASTER BE	4.1	13	0	13	0	169.0 ft²	0	0	0.1	0

DOORS										
✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	N	Insulated	ENTRY HALL	None	.17	3		8		24 ft²

# INPUT SUMMARY CHECKLIST REPORT

## WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Wall		Frame	Panels	NFRC	U-Factor	SHGC	Imp	Area	Overhang		Int Shade	Screening
		Ornt	ID								Depth	Separation		
_____	1	S	2	Metal	Low-E Single	Yes	0.65	0.25	Y	45.0 ft²	2 ft 0 in	1 ft 4 in	Drapes/blinds	Exterior 1
_____	2	W	3	Metal	Low-E Single	Yes	0.65	0.25	Y	30.0 ft²	2 ft 0 in	1 ft 4 in	Drapes/blinds	Exterior 1
_____	3	W	4	Metal	Low-E Single	Yes	0.65	0.25	Y	6.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	4	W	5	Metal	Low-E Single	Yes	0.65	0.25	Y	15.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	5	W	7	Metal	Low-E Single	Yes	0.65	0.25	Y	15.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	6	W	9	Metal	Low-E Single	Yes	0.65	0.25	Y	15.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	7	SE	14	Metal	Low-E Single	Yes	0.65	0.25	Y	23.3 ft²	16 ft 0 in	1 ft 4 in	None	None
_____	8	E	15	Metal	Low-E Single	Yes	0.65	0.25	Y	72.0 ft²	12 ft 0 in	1 ft 4 in	None	None
_____	9	S	16	Metal	Low-E Single	Yes	0.65	0.25	Y	48.0 ft²	16 ft 0 in	1 ft 4 in	None	None
_____	10	N	17	Metal	Low-E Single	Yes	0.65	0.25	Y	15.0 ft²	2 ft 0 in	1 ft 4 in	Drapes/blinds	Exterior 1
_____	11	N	19	Metal	Low-E Single	Yes	0.65	0.25	Y	48.0 ft²	12 ft 0 in	1 ft 4 in	None	None
_____	12	S	20	Metal	Low-E Single	Yes	0.65	0.25	Y	96.0 ft²	12 ft 0 in	1 ft 4 in	None	None
_____	13	N	21	Metal	Low-E Single	Yes	0.65	0.25	Y	27.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	14	N	21	Metal	Low-E Single	Yes	0.65	0.25	Y	45.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	15	N	24	Metal	Low-E Single	Yes	0.65	0.25	Y	40.0 ft²	10 ft 0 in	1 ft 4 in	Drapes/blinds	Exterior 1
_____	16	E	25	Metal	Low-E Single	Yes	0.65	0.25	Y	5.8 ft²	2 ft 0 in	1 ft 4 in	Drapes/blinds	Exterior 1
_____	17	E	25	Metal	Low-E Single	Yes	0.65	0.25	Y	18.0 ft²	2 ft 0 in	1 ft 4 in	Drapes/blinds	Exterior 1
_____	18	E	28	Metal	Low-E Single	Yes	0.65	0.25	Y	16.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	19	S	29	Metal	Low-E Single	Yes	0.65	0.25	Y	60.0 ft²	2 ft 0 in	1 ft 4 in	None	None
_____	20	W	30	Metal	Low-E Single	Yes	0.65	0.25	Y	24.0 ft²	12 ft 0 in	1 ft 4 in	None	None

## GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	924 ft²	924 ft²	22 ft	10 ft	11

## INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000366	3613.9	198.27	372.23	.1223	5

## HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
_____	1	Electric Strip Heat/	None		COP:1	34 kBtu/hr	1	sys#1
_____	2	Electric Strip Heat/	None		COP:1	17 kBtu/hr	2	sys#2

**INPUT SUMMARY CHECKLIST REPORT**

**COOLING SYSTEM**

<input checked="" type="checkbox"/>	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
<input type="checkbox"/>	1	Central Unit/	Split	Single	SEER: 16	46.5 kBtu/hr	1395 cfm	0.8	1	sys#1
<input type="checkbox"/>	2	Central Unit/	Split	Single	SEER: 16	18.8 kBtu/hr	564 cfm	0.8	2	sys#2

**HOT WATER SYSTEM**

<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
<input type="checkbox"/>	1	Electric	None	Garage	0.98	50 gal	62.3 gal	120 deg	None

**SOLAR HOT WATER SYSTEM**

<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
<input type="checkbox"/>	None	None			ft <sup>2</sup>		

**DUCTS**

<input checked="" type="checkbox"/>	#	Location	Supply R-Value	Supply Area	Return Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	Heat	HVAC # Cool
<input type="checkbox"/>	1	Attic	6	200 ft <sup>2</sup>	Attic	20 ft <sup>2</sup>	Proposed Qn	Attic	--- cfm	215.3 cfm	0.08	0.50	1	1
<input type="checkbox"/>	2	Attic	6	125 ft <sup>2</sup>	Attic	13 ft <sup>2</sup>	Proposed Qn	Attic	--- cfm	86.0 cfm	0.08	0.50	2	2

**TEMPERATURES**

Programable Thermostat: N      Ceiling Fans:

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

Thermostat Schedule: HERS 2006 Reference

Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM 78	PM 80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM 78	PM 80	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM 65	PM 68	65	65	65	65	65	65	65	68	68	68
Heating (WEH)	AM 65	PM 68	65	65	65	65	65	65	65	68	68	68

**MASS**

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft <sup>2</sup>	0 ft	0.3	BONUS RM
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	BATH 2
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	BEDROOM 2
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	CLST 3
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	CLST 2
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	BEDROOM 3
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	BATH 4
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	BEDROOM 4
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	BATH 3
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	CLST 4



## INPUT SUMMARY CHECKLIST REPORT

MASS				
Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	ENTRY HALL
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	HALLWAY
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	BREAKFAST RM
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	KITCHEN
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	PANTRY
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	LAUNDRY
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	FOYER
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	GREAT RM
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	DEN
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	M BATH
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	M TOILET
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	M HALL
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	M WIC 1
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	M WIC 2
Default(8 lbs/sq.ft.	ft <sup>2</sup>	ft	0.3	MASTER BEDROO

# 2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

**TABLE 402.4.1.1  
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA<sup>a</sup>**

Project Name: DUNLAP RESIDENCE Street: 6839 SW SILVERWOLF DRIVE City, State, Zip: PALM CITY , FL , 34990 Owner: Design Location: FL, West Palm Beach		Builder Name: Permit Office: MARTIN COUNTY Permit Number: Jurisdiction: MARTIN COUNTY		CHECK
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA		
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.		
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.		
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.		
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.			
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.		
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.		
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.		
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.			
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.		
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.			
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.		
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.		
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.		
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.			
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling			
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.			

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 94

The lower the EnergyPerformance Index, the more efficient the home.

6839 SW SILVERWOLF DRIVE, PALM CITY, FL, 34990

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Concrete Block - Int Insul, Exterior	R=4.1	3469.50 ft²
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=11.0	220.00 ft²
4. Number of Bedrooms	4		c. N/A	R=	ft²
5. Is this a worst case?	No		d. N/A	R=	ft²
6. Conditioned floor area (ft²)	3766		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Roof Deck (Unvented)	R=22.0	3766.00 ft²
a. U-Factor:	Sgl, U=0.65	664.08 ft²	b. N/A	R=	ft²
SHGC:	SHGC=0.25		c. N/A	R=	ft²
b. U-Factor:	N/A	ft²	12. Ducts, location & insulation level	R	ft²
SHGC:			a. Sup: Attic, Ret: Attic, AH: Attic	6	200
c. U-Factor:	N/A	ft²	b. Sup: Attic, Ret: Attic, AH: Attic	6	125
SHGC:			13. Cooling systems	kBtu/hr	Efficiency
d. U-Factor:	N/A	ft²	a. Central Unit	46.5	SEER:16.00
SHGC:			b. Central Unit	18.8	SEER:16.00
Area Weighted Average Overhang Depth:	7.600 ft.		14. Heating systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250		a. Electric Strip Heat	34.0	COP:1.00
8. Skylights	Description	Area	b. Electric Strip Heat	17.0	COP:1.00
a. U-Factor(AVG):	N/A	ft²	15. Hot water systems	Cap: 50 gallons	
SHGC(AVG):	N/A		a. Electric	EF: 0.98	
9. Floor Types	Insulation	Area	b. Conservation features	None	
a. Slab-On-Grade Edge Insulation	R=0.0	3766.00 ft²	None		
b. N/A	R=	ft²	Credits (Performance method)	None	
c. N/A	R=	ft²			

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

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



\*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

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

## Project Information

For: DUNLAP RESIDENCE  
6839 SW SILVERWOLF DRIVE, PALM CITY, FL 34990

Notes:

## Design Information

Weather: West Palm Beach Intl AP, FL, US

### Winter Design Conditions

Outside db	45 °F
Inside db	70 °F
Design TD	25 °F

### Summer Design Conditions

Outside db	91 °F
Inside db	75 °F
Design TD	16 °F
Daily range	L
Relative humidity	50 %
Moisture difference	58 gr/lb

### Heating Summary

Structure	25760 Btuh
Ducts	8482 Btuh
Central vent (0 cfm) (none)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	34242 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	21839 Btuh
Ducts	13130 Btuh
Central vent (0 cfm) (none)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.96
Equipment sensible load	33570 Btuh

### Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

### Latent Cooling Equipment Load Sizing

Structure	3468 Btuh
Ducts	3438 Btuh
Central vent (0 cfm) (none)	0 Btuh
Equipment latent load	6906 Btuh

	Heating	Cooling
Area (ft <sup>2</sup> )	2691	2691
Volume (ft <sup>3</sup> )	30484	30484
Air changes/hour	0.23	0.12
Equiv. AVF (cfm)	117	63

<b>Equipment Total Load (Sen+Lat)</b>	40476 Btuh
Req. total capacity at 0.70 SHR	4.0 ton

### Heating Equipment Summary

Make	
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	9.4 kW
Heating output	32201 Btuh
Temperature rise	19 °F
Actual air flow	1550 cfm
Air flow factor	0.045 cfm/Btuh
Static pressure	1.00 in H2O
Space thermostat	

### Cooling Equipment Summary

Make	Trane
Trade	TRANE
Cond	4TTR6049J1
Coil	TEM4A0C48S41++TDR
AHRI ref	8676081
Efficiency	13.5 EER, 16 SEER
Sensible cooling	32550 Btuh
Latent cooling	13950 Btuh
Total cooling	46500 Btuh
Actual air flow	1550 cfm
Air flow factor	0.044 cfm/Btuh
Static pressure	1.00 in H2O
Load sensible heat ratio	0.84

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

## Project Information

For: DUNLAP RESIDENCE  
6839 SW SILVERWOLF DRIVE, PALM CITY, FL 34990

Notes:

## Design Information

Weather: West Palm Beach Intl AP, FL, US

### Winter Design Conditions

Outside db	45 °F
Inside db	70 °F
Design TD	25 °F

### Summer Design Conditions

Outside db	91 °F
Inside db	75 °F
Design TD	16 °F
Daily range	L
Relative humidity	50 %
Moisture difference	58 gr/lb

### Heating Summary

Structure	16211 Btuh
Ducts	2286 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	18497 Btuh

### Sensible Cooling Equipment Load Sizing

Structure	11637 Btuh
Ducts	1862 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.96
Equipment sensible load	12959 Btuh

### Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

### Latent Cooling Equipment Load Sizing

Structure	2493 Btuh
Ducts	922 Btuh
Central vent (0 cfm)	0 Btuh
(none)	
Equipment latent load	3415 Btuh

	Heating	Cooling
Area (ft <sup>2</sup> )	1075	1075
Volume (ft <sup>3</sup> )	12877	12877
Air changes/hour	0.40	0.21
Equiv. AVF (cfm)	85	46

<b>Equipment Total Load (Sen+Lat)</b>	16374 Btuh
Req. total capacity at 0.70 SHR	1.5 ton

### Heating Equipment Summary

Make	
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	5.4 kW
Heating output	18433 Btuh
Temperature rise	27 °F
Actual air flow	627 cfm
Air flow factor	0.034 cfm/Btuh
Static pressure	1.00 in H2O
Space thermostat	

### Cooling Equipment Summary

Make	Trane
Trade	TRANE
Cond	4TTR6018J1
Coil	TEM4A0B18S21++TDR
AHRI ref	8676071
Efficiency	13.5 EER, 16 SEER
Sensible cooling	13160 Btuh
Latent cooling	5640 Btuh
Total cooling	18800 Btuh
Actual air flow	627 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	1.00 in H2O
Load sensible heat ratio	0.80

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

317 ST LUCIE LANE, FORT PIERCE, FL 34946 Phone: 772-466-6799 Fax: 772-466-6796 Email: QUICKCALCS@AOL.COM

1 Room name				AHU 1				BONUS RM						
2 Exposed wall				11.3 ft				51.0 ft						
3 Room height				180.2 ft				11.0 ft						
4 Room dimensions				2690.5 ft²				1.0 x 329.5 ft						
5 Room area				2690.5 ft²				329.5 ft²						
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	280	217	777	614	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	48	0	780	751	0	0	0	0
11	G	2 glazing, clr low-e	0.650	n	16.25	10.02	15	0	244	150	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.82	388	316	1130	892	154	154	551	435
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	15.64	72	72	1170	1126	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	se	3.58	2.82	42	19	68	54	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	16.25	15.64	23	23	379	365	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	530	341	1219	963	198	153	547	432
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	96	96	1560	1502	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	48	48	780	751	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	10.02	45	45	731	451	45	45	731	451
	W	13A-4ocs	0.143	w	3.58	2.82	769	688	2460	1943	209	179	640	506
	G	2 glazing, clr low-e	0.650	w	16.25	32.17	6	1	98	193	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.07	45	3	731	1488	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	18.50	30	2	488	555	30	2	488	555
	C	16X19-0td	0.408	-	1.42	1.35	2691	2691	3809	3637	330	330	466	445
	F	22A-tph	1.358	-	33.95	0.00	2691	180	6117	0	330	51	1731	0
6	c) AED excursion									0				49
	Envelope loss/gain								22539	15435			5154	2873
12	a) Infiltration								3221	1104			899	308
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							5300				0
	Subtotal (lines 6 to 13)								25760	21839			6053	3181
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			255	172
14	Subtotal								25760	21839			6309	3353
15	Duct loads						33%	60%	8482	13130	33%	60%	2077	2016
	Total room load								34242	34969			8386	5369
	Air required (cfm)								1550	1550			380	238

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1 Room name				BATH 2				BEDROOM 2						
2 Exposed wall				5.0 ft				13.0 ft						
3 Room height				10.0 ft heat/cool				10.0 ft heat/cool						
4 Room dimensions				50.0 ft <sup>2</sup> 5.0 x 10.0 ft				13.0 x 13.0 ft						
5 Room area				169.0 ft <sup>2</sup>										
	Ty	Construction number	U-value (Btuh/ft <sup>2</sup> ·°F)	Or	HTM (Btuh/ft <sup>2</sup> )		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
11	G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	se	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	16.25	15.64	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	10.02	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	50	44	157	124	130	115	411	325
	G	2 glazing, clr low-e	0.650	w	16.25	32.17	6	1	98	193	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.07	0	0	0	0	15	1	244	496
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	18.50	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	50	50	71	68	169	169	239	228
	F	22A-tph	1.358	-	33.95	0.00	50	5	170	0	169	13	441	0
6	c) AED excursion									67				155
	Envelope loss/gain								495	452			1335	1205
12	a) Infiltration								80	27			208	71
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		0			0	0			0	0
			Appliances/other						0	0			0	0
	Subtotal (lines 6 to 13)								575	479			1544	1276
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								127	85			179	100
14	Subtotal								702	565			1723	1376
15	Duct loads					33%	60%		231	339	33%	60%	567	827
	Total room load								933	904			2290	2203
	Air required (cfm)								42	40			104	98

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317 ST LUCIE LANE, FORT PIERCE, FL 34946 Phone: 772-466-6799 Fax: 772-466-6796 Email: QUICKCALCS@AOL.COM

1 Room name				CLST 3 2.0 ft heat/cool				CLST 2 0 ft heat/cool						
2 Exposed wall				10.0 ft 2.0 x 7.0 ft				10.0 ft 2.0 x 7.0 ft						
3 Room height				14.0 ft <sup>2</sup>				14.0 ft <sup>2</sup>						
4 Room dimensions														
5 Room area														
	Ty	Construction number	U-value (Btuh/ft <sup>2</sup> ·°F)	Or	HTM (Btuh/ft <sup>2</sup> )		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
11	G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	se	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	16.25	15.64	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	10.02	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	20	20	72	56	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	32.17	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.07	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	18.50	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	14	14	20	19	14	14	20	19
	F	22A-tph	1.358	-	33.95	0.00	14	2	68	0	14	0	0	0
6	c) AED excursion									-3				-1
	Envelope loss/gain								159	72			20	18
12	a) Infiltration								32	11			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0		0	0			0	0
			Appliances/other						0				0	0
	Subtotal (lines 6 to 13)								191	83			20	18
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								-191	-83			-20	-18
14	Subtotal								0	0			0	0
15	Duct loads						33%	60%	0	0	33%	60%	0	0
	Total room load								0	0			0	0
	Air required (cfm)								0	0			0	0

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		BEDROOM 3						BATH 4							
		12.0 ft						5.0 ft							
		10.0 ft			heat/cool			10.0 ft			heat/cool				
		12.0 x 13.0 ft						5.0 x 10.0 ft							
		156.0 ft²						50.0 ft²							
1	2	Room name	Exposed wall	Room height	Room dimensions	Room area	Area (ft²)		Load (Btuh)		Area (ft²)		Load (Btuh)		
							Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
3	4	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Load (Btuh)		Area (ft²)		Load (Btuh)			
						Heat	Cool	Heat	Cool	Gross	N/P/S	Heat	Cool		
6	11	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
		W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	e	16.25	15.64	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
		W	13A-4ocs	0.143	se	3.58	2.82	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	se	16.25	15.64	0	0	0	0	0	0	0	0
		W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	s	16.25	10.02	0	0	0	0	0	0	0	0
		W	13A-4ocs	0.143	w	3.58	2.82	120	105	375	297	50	50	179	141
		G	2 glazing, clr low-e	0.650	w	16.25	32.17	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	w	16.25	33.07	15	1	244	496	0	0	0	0
		G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
		G	2 glazing, clr low-e	0.650	w	16.25	18.50	0	0	0	0	0	0	0	0
		C	16X19-0td	0.408	-	1.42	1.35	156	156	221	211	50	50	71	68
		F	22A-tph	1.358	-	33.95	0.00	156	12	407	0	50	5	170	0
6		c) AED excursion								157					-9
		Envelope loss/gain								1247	1161			419	200
12		a) Infiltration								192	66			80	27
		b) Room ventilation								0	0			0	0
13		Internal gains:		Occupants @		230		0		0	0			0	0
				Appliances/other						0	0			0	0
		Subtotal (lines 6 to 13)								1440	1227			499	227
		Less external load								0	0			0	0
		Less transfer								0	0			0	0
		Redistribution								116	60			17	16
14		Subtotal								1556	1287			517	243
15		Duct loads						33%	60%	512	774	33%	60%	170	146
		Total room load								2068	2061			687	389
		Air required (cfm)								94	91			31	17

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1		Room name		BEDROOM 4						BATH 3					
2		Exposed wall		13.0 ft						6.0 ft					
3		Room height		10.0 ft						10.0 ft					
4		Room dimensions		1.0 x 172.0 ft						6.0 x 10.0 ft					
5		Room area		172.0 ft²						60.0 ft²					
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)		
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool	
6	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0	
11	G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0	
	W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	e	16.25	15.64	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0	
	W	13A-4ocs	0.143	se	3.58	2.82	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	se	16.25	15.64	0	0	0	0	0	0	0	0	
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	s	16.25	10.02	0	0	0	0	0	0	0	0	
	W	13A-4ocs	0.143	w	3.58	2.82	130	115	411	325	60	60	215	169	
	G	2 glazing, clr low-e	0.650	w	16.25	32.17	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	w	16.25	33.07	15	1	244	496	0	0	0	0	
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, clr low-e	0.650	w	16.25	18.50	0	0	0	0	0	0	0	0	
	C	16X19-0td	0.408	-	1.42	1.35	172	172	243	232	60	60	85	81	
	F	22A-tph	1.358	-	33.95	0.00	172	13	441	0	60	6	204	0	
6	c) AED excursion									155				-11	
	Envelope loss/gain								1340	1209			503	240	
12	a) Infiltration								208	71			96	33	
	b) Room ventilation								0	0			0	0	
13	Internal gains:		Occupants @	230		0			0	0			0	0	
			Appliances/other						0	0			0	0	
	Subtotal (lines 6 to 13)								1548	1280			599	272	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								53	48			26	24	
14	Subtotal								1601	1328			625	296	
15	Duct loads								33% 527	60% 798			33% 206	60% 178	
	Total room load								2128	2127			831	474	
	Air required (cfm)								96	94			38	21	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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1 Room name				CLST 4				ENTRY HALL						
2 Exposed wall				0 ft				0 ft						
3 Room height				10.0 ft				10.0 ft						
4 Room dimensions				14.0 x 2.0 ft				1.0 x 146.0 ft						
5 Room area				28.0 ft²				146.0 ft²						
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
11	G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	se	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	16.25	15.64	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	10.02	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	32.17	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.07	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	18.50	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	28	28	40	38	146	146	207	197
	F	22A-tph	1.358	-	33.95	0.00	28	0	0	0	146	0	0	0
6	c) AED excursion									-1				-8
	Envelope loss/gain								40	36			207	190
12	a) Infiltration								0	0			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								40	36			207	190
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								-40	-36			-207	-190
14	Subtotal								0	0			0	0
15	Duct loads						33%	60%	0	0	33%	60%	0	0
	Total room load								0	0			0	0
	Air required (cfm)								0	0			0	0

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1 Room name				HALLWAY 4.2 ft				BREAKFAST RM 21.0 ft						
2 Exposed wall				10.0 ft heat/cool				10.0 ft heat/cool						
3 Room height				1.0 x 50.0 ft				1.0 x 180.0 ft						
4 Room dimensions				50.0 ft²				180.0 ft²						
5 Room area														
	Ty	Construction number	U-value (Btuh/ft²·F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
11	G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0	130	58	207	164
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	15.64	0	0	0	0	72	72	1170	1126
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	se	3.58	2.82	42	19	68	54	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	16.25	15.64	23	23	379	365	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	80	32	114	90
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	48	48	780	751
	G	2 glazing, clr low-e	0.650	s	16.25	10.02	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	32.17	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.07	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	18.50	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	50	50	71	68	180	180	255	243
	F	22A-tph	1.358	-	33.95	0.00	50	4	141	0	180	21	713	0
6	c) AED excursion													-97
	Envelope loss/gain								660	467			3240	2277
12	a) Infiltration								68	23			337	115
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								728	490			3576	2393
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								-728	-490			270	181
14	Subtotal								0	0			3846	2574
15	Duct loads						33%	60%	0	0	33%	60%	1266	1548
	Total room load								0	0			5112	4122
	Air required (cfm)								0	0			231	183

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

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1 Room name		KITCHEN						PANTRY						
2 Exposed wall		0 ft						0 ft						
3 Room height		12.0 ft						13.0 ft						
4 Room dimensions		1.0 x 441.0 ft						7.0 x 11.0 ft						
5 Room area		441.0 ft²						77.0 ft²						
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
11	G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	se	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	16.25	15.64	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	10.02	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	32.17	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.07	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	18.50	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	441	441	624	596	77	77	109	104
	F	22A-tph	1.358	-	33.95	0.00	441	0	0	0	77	0	0	0
6	c) AED excursion									-101				-4
	Envelope loss/gain								624	495			109	100
12	a) Infiltration								0	0			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		0				0	0			0
			Appliances/other							2000				0
	Subtotal (lines 6 to 13)								624	2495			109	100
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								65	60			30	28
14	Subtotal								690	2555			139	128
15	Duct loads					33%	60%		227	1536	33%	60%	46	77
	Total room load								917	4091			185	204
	Air required (cfm)								41	181			8	9

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		LAUNDRY		FOYER										
1	Room name	18.0 ft		9.0 ft										
2	Exposed wall	11.0 ft		12.0 ft										
3	Room height	11.0 ft		9.0 ft										
4	Room dimensions	11.0 x 11.0		12.0 x 9.0										
5	Room area	121.0 ft²		108.0 ft²										
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	130	115	411	325	150	102	366	289
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	48	0	780	751
11	G	2 glazing, clr low-e	0.650	n	16.25	10.02	15	0	244	150	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.82	104	104	372	294	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	se	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	16.25	15.64	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	10.02	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	32.17	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.07	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	18.50	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	121	121	171	164	108	108	153	146
	F	22A-tph	1.358	-	33.95	0.00	121	18	611	0	108	9	306	0
6	c) AED excursion									-41				-81
	Envelope loss/gain								1809	891			1604	1105
12	a) Infiltration								375	129			241	83
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		0				0	0			0
			Appliances/other							0				800
	Subtotal (lines 6 to 13)								2184	1020			1845	1988
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								47	43			0	0
14	Subtotal								2231	1063			1845	1988
15	Duct loads					33%	60%		735	639	33%	60%	608	1195
	Total room load								2966	1702			2453	3183
	Air required (cfm)								134	75			111	141

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1 Room name				GREAT RM										
2 Exposed wall				21.0 ft										
3 Room height				12.0 ft		heat/cool								
4 Room dimensions				25.0 x 21.0 ft										
5 Room area				525.0 ft²										
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0				
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0				
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0				
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0				
11	G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0				
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0				
	W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0				
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0				
	G	2 glazing, clr low-e	0.650	e	16.25	15.64	0	0	0	0				
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0				
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0				
	W	13A-4ocs	0.143	se	3.58	2.82	0	0	0	0				
	G	2 glazing, clr low-e	0.650	se	16.25	15.64	0	0	0	0				
	W	13A-4ocs	0.143	s	3.58	2.82	252	156	558	441				
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0				
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	96	96	1560	1502				
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0				
	G	2 glazing, clr low-e	0.650	s	16.25	10.02	0	0	0	0				
	W	13A-4ocs	0.143	w	3.58	2.82	0	0	0	0				
	G	2 glazing, clr low-e	0.650	w	16.25	32.17	0	0	0	0				
	G	2 glazing, clr low-e	0.650	w	16.25	33.07	0	0	0	0				
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0				
	G	2 glazing, clr low-e	0.650	w	16.25	18.50	0	0	0	0				
	C	16X19-0td	0.408	-	1.42	1.35	525	525	743	710				
	F	22A-tph	1.358	-	33.95	0.00	525	21	713	0				
6	c) AED excursion									-206				
	Envelope loss/gain								3574	2446				
12	a) Infiltration								404	138				
	b) Room ventilation								0	0				
13	Internal gains:		Occupants @	230		0				0				
			Appliances/other							2500				
	Subtotal (lines 6 to 13)								3978	5084				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								3978	5084				
15	Duct loads						33%	60%	1310	3057				
	Total room load								5287	8141				
	Air required (cfm)								239	361				

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

**Right-J® Worksheet**  
**AHU 2**  
**QUICK CALCS, INC.**

**Job:**  
**Date:** Apr 11, 2022  
**By:**

317 ST LUCIE LANE, FORT PIERCE, FL 34946 Phone: 772-466-6799 Fax: 772-466-6796 Email: QUICKCALCS@AOL.COM

		AHU 2		DEN										
		12.0 ft		28.0 ft										
		1075.0 ft²		13.0 ft x 20.0 ft										
				heat/cool										
				260.0 ft²										
1	Room name													
	Exposed wall													
2	Room height													
3	Room dimensions													
4	Room area													
5														
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	299	187	669	528	169	97	347	274
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	27	0	439	422	27	0	439	422
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	45	0	731	704	45	0	731	704
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	10.02	40	0	650	401	0	0	0	0
11	W	13A-4ocs	0.143	e	3.58	2.82	667	627	2242	1772	91	91	325	257
	G	2 glazing, clr low-e	0.650	e	16.25	32.73	16	1	260	524	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	18.07	6	1	93	104	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	18.07	18	2	293	325	0	0	0	0
	W	13A-4ocs	0.143	se	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	221	161	576	455	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	60	60	975	938	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	273	249	890	703	104	104	372	294
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.58	24	1	390	806	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	1075	1075	1522	1453	260	260	368	351
	F	22A-tph	1.358	-	33.95	0.00	1075	122	4142	0	260	28	951	0
6	c) AED excursion									0				0
	Envelope loss/gain								13871	9135			3533	2302
12	a) Infiltration								2340	802			583	200
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		0				0	0			0
			Appliances/other							1700				1000
	Subtotal (lines 6 to 13)								16211	11637			4116	3502
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			3	3
14	Subtotal								16211	11637			4119	3506
15	Duct loads					14%	16%		2286	1862	14%	16%	581	561
	Total room load								18497	13499			4700	4066
	Air required (cfm)								627	627			159	189

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.





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		M BATH		M TOILET										
1	Room name	28.0 ft		4.0 ft										
2	Exposed wall	10.0 ft		10.0 ft										
3	Room height	heat/cool		heat/cool										
4	Room dimensions	1.0 x 204.0 ft		1.0 x 22.0 ft										
5	Room area	204.0 ft²		22.0 ft²										
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	130	90	322	254	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	10.02	40	0	650	401	0	0	0	0
11	W	13A-4ocs	0.143	e	3.58	2.82	150	126	451	357	40	40	143	113
	G	2 glazing, clr low-e	0.650	e	16.25	32.73	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	18.07	6	1	93	104	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	18.07	18	2	293	325	0	0	0	0
	W	13A-4ocs	0.143	se	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.58	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	204	204	289	276	22	22	31	30
	F	22A-tph	1.358	-	33.95	0.00	204	28	951	0	22	4	136	0
6	c) AED excursion									0				0
	Envelope loss/gain								3048	1716			310	143
12	a) Infiltration								449	154			64	22
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @		230		0			0	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								3497	1870			374	165
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3497	1870			374	165
15	Duct loads						14%	16%	493	299	14%	16%	53	26
	Total room load								3990	2169			427	191
	Air required (cfm)								135	101			14	9

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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1 Room name		M HALL						M WIC 1						
2 Exposed wall		0 ft						10.0 ft						
3 Room height		10.0 ft						10.0 ft						
4 Room dimensions		12.0 ft <sup>2</sup> 6.0 x 2.0 ft						10.0 x 7.0 ft						
5 Room area		12.0 ft <sup>2</sup>						70.0 ft <sup>2</sup>						
	Ty	Construction number	U-value (Btuh/ft <sup>2</sup> ·°F)	Or	HTM (Btuh/ft <sup>2</sup> )		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)		Area (ft <sup>2</sup> ) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0	100	100	358	282
	G	2 glazing, clr low-e	0.650	e	16.25	32.73	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	18.07	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	18.07	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	se	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.58	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	12	12	17	16	70	70	99	95
	F	22A-tph	1.358	-	33.95	0.00	12	0	0	0	70	10	340	0
6	c) AED excursion									0				0
	Envelope loss/gain									17	16			796 377
12	a) Infiltration									0	0			160 55
	b) Room ventilation									0	0			0 0
13	Internal gains:		Occupants @		230		0			0	0			0 0
			Appliances/other							0				0 0
	Subtotal (lines 6 to 13)									17	16			956 432
	Less external load									0	0			0 0
	Less transfer									0	0			0 0
	Redistribution									-17	-16			0 0
14	Subtotal									0	0			956 432
15	Duct loads						14%	16%		0	0	14%	16%	135 69
	Total room load									0	0			1091 501
	Air required (cfm)									0	0			37 23

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



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1 Room name				M WIC 2				MASTER BEDROOM						
2 Exposed wall				0 ft				52.0 ft						
3 Room height				10.0 ft				13.0 ft						
4 Room dimensions				1.0 x 58.0 ft				1.0 x 449.0 ft						
5 Room area				58.0 ft²				449.0 ft²						
	Ty	Construction number	U-value (Btuh/ft²·°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.82	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	15.64	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	2 glazing, clr low-e	0.650	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	n	16.25	10.02	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.82	0	0	0	0	286	270	965	763
	G	2 glazing, clr low-e	0.650	e	16.25	32.73	0	0	0	0	16	1	260	524
	G	2 glazing, clr low-e	0.650	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	18.07	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	e	16.25	18.07	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	se	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	se	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.82	0	0	0	0	221	161	576	455
	G	2 glazing, clr low-e	0.650	s	16.25	15.64	0	0	0	0	60	60	975	938
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.82	0	0	0	0	169	145	518	410
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, clr low-e	0.650	w	16.25	33.58	0	0	0	0	24	1	390	806
	G	2 glazing, clr low-e	0.650	w	0.00	0.00	0	0	0	0	0	0	0	0
	C	16X19-0td	0.408	-	1.42	1.35	58	58	82	78	449	449	636	607
	F	22A-tpH	1.358	-	33.95	0.00	58	0	0	0	449	52	1765	0
6	c) AED excursion									0				0
	Envelope loss/gain									82	78		6085	4502
12	a) Infiltration									0	0		1083	371
	b) Room ventilation									0	0		0	0
13	Internal gains:		Occupants @	230		0				0	0			0
			Appliances/other							300				400
	Subtotal (lines 6 to 13)									82	378		7169	5273
	Less external load									0	0		0	0
	Less transfer									0	0		0	0
	Redistribution									3	3		10	10
14	Subtotal									86	382		7179	5283
15	Duct loads						14%	16%		12	61	14%	16%	845
	Total room load									98	443		8191	6128
	Air required (cfm)									3	21		278	285

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

## Project Information

For: DUNLAP RESIDENCE  
6839 SW SILVERWOLF DRIVE, PALM CITY, FL 34990

	Heating	Cooling
External static pressure	1.00 in H2O	1.00 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	1.00 in H2O	1.00 in H2O
Supply / return available pressure	0.500 / 0.500 in H2O	0.500 / 0.500 in H2O
Lowest friction rate	1.000 in/100ft	1.000 in/100ft
Actual air flow	1550 cfm	1550 cfm
Total effective length (TEL)	252 ft	

## Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
BATH 2	h 933	42	40	1.000	6.0	0x0	VIFx	71.0	175.0	st7
BATH 3	h 831	38	21	1.000	5.0	0x0	VIFx	36.9	135.0	st5
BATH 4	h 687	31	17	1.000	5.0	0x0	VIFx	22.7	115.0	st2
BEDROOM 2	h 2290	104	98	1.000	7.0	0x0	VIFx	53.8	155.0	st6
BEDROOM 3	h 2068	94	91	1.000	7.0	0x0	VIFx	35.5	135.0	st5
BEDROOM 4	h 2128	96	94	1.000	7.0	0x0	VIFx	21.5	115.0	st2
BONUS RM	h 4193	190	119	1.000	7.0	0x0	VIFx	77.3	175.0	st7
BONUS RM-A	h 4193	190	119	1.000	7.0	0x0	VIFx	67.9	175.0	st7
BREAKFAST RM	h 2556	116	91	1.000	7.0	0x0	VIFx	58.9	155.0	st6
BREAKFAST RM-A	h 2556	116	91	1.000	7.0	0x0	VIFx	51.9	155.0	st6
FOYER	c 3183	111	141	1.000	8.0	0x0	VIFx	51.4	115.0	st1
GREAT RM	c 2035	60	90	1.000	7.0	0x0	VIFx	56.8	115.0	st1
GREAT RM-A	c 2035	60	90	1.000	7.0	0x0	VIFx	49.2	115.0	st1
GREAT RM-B	c 2035	60	90	1.000	7.0	0x0	VIFx	57.2	115.0	st1
GREAT RM-C	c 2035	60	90	1.000	7.0	0x0	VIFx	50.1	115.0	st1
KITCHEN	c 2045	21	91	1.000	7.0	0x0	VIFx	56.1	155.0	st6
KITCHEN-A	c 2045	21	91	1.000	7.0	0x0	VIFx	34.7	135.0	st5
LAUNDRY	h 2966	134	75	1.000	6.0	0x0	VIFx	25.1	115.0	st2
PANTRY	c 204	8	9	1.000	4.0	0x0	VIFx	24.2	115.0	st2

## Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	350	502	1.000	639	12.0	0 x 0	VinlFix	
st7	Peak AVF	422	278	1.000	955	9.0	0 x 0	VinlFix	st6
st6	Peak AVF	778	649	1.000	990	12.0	0 x 0	VinlFix	st5
st5	Peak AVF	930	852	1.000	870	14.0	0 x 0	VinlFix	st2
st2	Peak AVF	1200	1048	1.000	859	16.0	0 x 0	VinlFix	

## Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2	0x0	1550	1550	0	0	0	0	0x 0		VIFx	

## Project Information

For: DUNLAP RESIDENCE  
6839 SW SILVERWOLF DRIVE, PALM CITY, FL 34990

	Heating	Cooling
External static pressure	1.00 in H2O	1.00 in H2O
Pressure losses	0 in H2O	0 in H2O
Available static pressure	1.00 in H2O	1.00 in H2O
Supply / return available pressure	0.500 / 0.500 in H2O	0.500 / 0.500 in H2O
Lowest friction rate	1.000 in/100ft	1.000 in/100ft
Actual air flow	627 cfm	627 cfm
Total effective length (TEL)	179 ft	

## Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
DEN	c 2033	80	94	1.000	7.0	0x0	VIFx	12.6	115.0	st3
DEN-A	c 2033	80	94	1.000	7.0	0x0	VIFx	12.6	115.0	st3
M BATH	h 3990	135	101	1.000	7.0	0x0	VIFx	17.0	115.0	st4
M TOILET	h 427	14	9	1.000	4.0	0x0	VIFx	17.2	115.0	st4
M WIC 1	h 1091	37	23	1.000	5.0	0x0	VIFx	21.6	115.0	st4
M WIC 2	c 443	3	21	1.000	5.0	0x0	VIFx	22.0	115.0	st4
MASTER BEDROOM	c 3064	139	142	1.000	8.0	0x0	VIFx	44.0	135.0	st8
MASTER BEDROOM-A	c 3064	139	142	1.000	8.0	0x0	VIFx	40.7	135.0	st8

## Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st8	Peak AVF	278	285	1.000	815	8.0	0 x 0	VinIFlx	st4
st4	Peak AVF	468	438	1.000	857	10.0	0 x 0	VinIFlx	
st3	Peak AVF	159	189	1.000	541	8.0	0 x 0	VinIFlx	

## Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	627	627	0	0	0	0	0x 0		VIFx	

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