



Manual S Compliance Report

AH1 - FIRST LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
 Sample Address, TX

Cooling Equipment

Design Conditions

Outdoor design DB:	98.2°F	Sensible gain:	13661 Btuh	Entering coil DB:	76.9°F
Outdoor design WB:	74.7°F	Latent gain:	2936 Btuh	Entering coil WB:	61.0°F
Indoor design DB:	75.0°F	Total gain:	16597 Btuh		
Indoor RH:	45%	Estimated airflow:	618 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	DAIKIN	Model:	OU1 RXSQ48TAVJUA+IU1 FXSQ24TAVJU		
Actual airflow:	618 cfm				
Sensible capacity:	13630 Btuh	100% of load			
Latent capacity:	5841 Btuh	199% of load			
Total capacity:	19471 Btuh	117% of load	SHR:	70%	

Heating Equipment

Design Conditions

Outdoor design DB:	29.8°F	Heat loss:	21744 Btuh	Entering coil DB:	62.5°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	DAIKIN	Model:	OU1 RXSQ48TAVJUA+IU1 FXSQ24TAVJU		
Actual airflow:	618 cfm				
Output capacity:	19375 Btuh	89% of load		Capacity balance:	32 °F
Supplemental heat required:	2369 Btuh			Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.





Manual S Compliance Report
AH2 SECOND LVL
Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
 Sample Address, TX

Cooling Equipment

Design Conditions

Outdoor design DB:	98.2°F	Sensible gain:	19580 Btuh	Entering coil DB:	75.6°F
Outdoor design WB:	74.7°F	Latent gain:	2131 Btuh	Entering coil WB:	61.1°F
Indoor design DB:	75.0°F	Total gain:	21711 Btuh		
Indoor RH:	45%	Estimated airflow:	950 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	DAIKIN	Model:	OU1 - RXSQ48TAVJUA+IU2 - FXTQ30TAVJUA	
Actual airflow:	950 cfm			
Sensible capacity:	19419 Btuh		99% of load	
Latent capacity:	8323 Btuh		391% of load	
Total capacity:	27742 Btuh		128% of load	SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	29.8°F	Heat loss:	18374 Btuh	Entering coil DB:	68.3°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	DAIKIN	Model:	OU1 - RXSQ48TAVJUA+IU2 - FXTQ30TAVJUA	
Actual airflow:	950 cfm			
Output capacity:	27604 Btuh		150% of load	Capacity balance: 14 °F
Supplemental heat required:	0 Btuh			Economic balance: -99 °F

Meets all requirements of ACCA Manual S.





Manual S Compliance Report
AH3 - THIRD LVL
Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
 Sample Address, TX

Cooling Equipment

Design Conditions

Outdoor design DB:	98.2°F	Sensible gain:	15490 Btuh	Entering coil DB:	75.5°F
Outdoor design WB:	74.7°F	Latent gain:	2444 Btuh	Entering coil WB:	61.2°F
Indoor design DB:	75.0°F	Total gain:	17934 Btuh		
Indoor RH:	45%	Estimated airflow:	615 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	DAIKIN	Model:	OU2 - RXSQ60TAVJUA+IU1 - FXSQ24TAVJU	
Actual airflow:	615 cfm			
Sensible capacity:	15645 Btuh		101% of load	
Latent capacity:	6705 Btuh		274% of load	
Total capacity:	22350 Btuh		125% of load	SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	29.8°F	Heat loss:	20450 Btuh	Entering coil DB:	68.9°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	DAIKIN	Model:	OU2 - RXSQ60TAVJUA+IU1 - FXSQ24TAVJU	
Actual airflow:	615 cfm			
Output capacity:	22239 Btuh		109% of load	Capacity balance: 26 °F
Supplemental heat required:	0 Btuh			Economic balance: -99 °F

Meets all requirements of ACCA Manual S.





Manual S Compliance Report
AH4 GAME DINING
Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
 Sample Address, TX

Cooling Equipment

Design Conditions

Outdoor design DB:	98.2°F	Sensible gain:	32663	Btuh	Entering coil DB:	75.9°F
Outdoor design WB:	74.7°F	Latent gain:	3541	Btuh	Entering coil WB:	61.1°F
Indoor design DB:	75.0°F	Total gain:	36204	Btuh		
Indoor RH:	45%	Estimated airflow:	1165	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP					
Manufacturer:	DAIKIN	Model:	OU2- RXSQ60TAVJUA+IU2 - FXMQ48PBVJU			
Actual airflow:	1165	cfm				
Sensible capacity:	33134	Btuh	101%	of load		
Latent capacity:	14200	Btuh	401%	of load		
Total capacity:	47334	Btuh	131%	SHR:	70%	

Heating Equipment

Design Conditions

Outdoor design DB:	29.8°F	Heat loss:	39039	Btuh	Entering coil DB:	66.8°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP					
Manufacturer:	DAIKIN	Model:	OU2- RXSQ60TAVJUA+IU2 - FXMQ48PBVJU			
Actual airflow:	1165	cfm				
Output capacity:	47099	Btuh	121%	of load		
Supplemental heat required:	0	Btuh	Capacity balance:	22 °F		
			Economic balance:	-99 °F		

Meets all requirements of ACCA Manual S.





Load Multizone Summary Report

Job: Sample
Date: August Sample 2020
By: Oby

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Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Infiltration Summary

ZONE NAME	Heating				Cooling			
	Volume ft³	ACH	AVF cfm	HTM Btuh/ft²	Volume ft³	ACH	AVF cfm	HTM Btuh/ft²
AH2 SECOND LVL	19059	0.29	91	3.2	19059	0.14	46	0.9
AH1 - FIRST LVL	12711	0.28	60	3.2	12711	0.14	30	0.9
AH3 - THIRD LVL	13170	0.46	102	3.2	13170	0.23	52	0.9
AH4 GAME DINING	27885	0.33	156	3.2	27885	0.17	79	0.9
Entire House	72825	0.34	408	3.2	72825	0.17	206	0.9

Load and AVF Summary

ROOM NAME	Area ft ²	Htg load Btuh	Clg load Btuh	Htg AVF cfm	Clg AVF cfm
2ND CATWLK1	75	0	0	0	0
2ND. LDRY	33	340	1144	19	57
BD1 CLST	33	0	0	0	0
2ND BTH EST	135	1351	587	76	29
BD1	240	2162	3086	122	152
BD2	251	3103	3429	174	169
BD2 CLST	39	0	0	0	0
BD3	233	4220	3857	237	191
BD3 CLST	47	0	0	0	0
2ND STRWY WST	56	0	0	0	0
2ND CATWLK2	278	0	0	0	0
2ND BTH WST	55	1396	1796	78	89
OFC	115	4323	5329	243	263
AH2 SECOND LVL	1588	16896	19228	950	950
1ST BTH	60	0	278	0	14
CLST5	92	1058	232	39	11
DINING STH	132	1124	247	41	12
KITCHEN	264	5125	5898	186	290
MID KIT&DINE	280	1807	607	66	30
CATWLK2	33	0	0	0	0
Private Nook	200	7869	5320	286	261
AH1 - FIRST LVL	1059	16983	12582	618	618
M. BDRM	476	5905	5468	183	219
3RD STWY WST DN	102	0	0	0	0
M. WC	18	0	0	0	0
M. CLST	247	1840	951	57	38
3RD WC1	18	168	87	5	3
3RD WC2	20	510	226	16	9
CMN BATH	49	487	230	15	9
M. SITTING	217	7952	6579	246	264
M. BATH	173	3014	1812	93	73
AH3 - THIRD LVL	1317	19877	15354	615	615
GAME RM	340	3026	6240	100	229
2ND STRY DN 1ST	60	1442	631	47	23
2ND LVL ENT OTB	175	7664	4387	252	161
OPN TO BLW	400	15500	15218	510	558
DINE OPN TO BLW	340	7745	5314	255	195
AH4 GAME DINING	1315	35377	31791	1165	1165
Entire House	5280	89132	75838	3348	3348

Bold/italic values have been manually overridden





Project Summary

Entire House

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Project Information

For: Sample Texas VRV Project
Sample Address, TX

Notes:

Design Information

Weather: Austin/Mueller Muni, TX, US

Winter Design Conditions

Outside db 30 °F
Inside db 70 °F
Design TD 40 °F

Summer Design Conditions

Outside db 98 °F
Inside db 75 °F
Design TD 23 °F
Daily range M
Relative humidity 45 %
Moisture difference 35 gr/lb

Heating Summary

Structure 79599 Btuh
Ducts 9533 Btuh
Central vent (462 cfm) 10475 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 99607 Btuh

Sensible Cooling Equipment Load Sizing

Structure 69182 Btuh
Ducts 6656 Btuh
Central vent (452 cfm) 2440 Btuh

Blower 0 Btuh

Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 78278 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 1 (Average)

Latent Cooling Equipment Load Sizing

Structure 12631 Btuh
Ducts 1337 Btuh
Central vent (452 cfm) -3151 Btuh

Equipment latent load 13968 Btuh

Equipment Total Load (Sen+Lat) 92246 Btuh
Req. total capacity at 0.70 SHR 9.3 ton

	Heating	Cooling
Area (ft ²)	5280	5280
Volume (ft ³)	72825	72825
Air changes/hour	0.34	0.17
Equiv. AVF (cfm)	408	206

Heating Equipment Summary

Make n/a
Trade n/a
Model n/a
AHRI ref. n/a

Efficiency n/a
Heating input
Heating output 0 Btuh
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Space thermostat n/a

Cooling Equipment Summary

Make n/a
Trade n/a
Cond n/a
Coil n/a
AHRI ref. n/a
Efficiency n/a
Sensible cooling 0 Btuh
Latent cooling 0 Btuh
Total cooling 0 Btuh
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0

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





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Project Information

For: Sample Texas VRV Project
Sample Address, TX

Notes:

Design Information

Weather: Austin/Mueller Muni, TX, US

Winter Design Conditions

Outside db 30 °F
Inside db 70 °F
Design TD 40 °F

Summer Design Conditions

Outside db 98 °F
Inside db 75 °F
Design TD 23 °F
Daily range M
Relative humidity 45 %
Moisture difference 35 gr/lb

Heating Summary

Structure 15314 Btuh
Ducts 1669 Btuh
Central vent (210 cfm) 4761 Btuh
Ventilating dehumidifier
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 21744 Btuh

Sensible Cooling Equipment Load Sizing

Structure 11347 Btuh
Ducts 1235 Btuh
Central vent (200 cfm) 1080 Btuh
Ventilating dehumidifier
Blower 0 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 13661 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 1 (Average)

Latent Cooling Equipment Load Sizing

Structure 4090 Btuh
Ducts 239 Btuh
Central vent (200 cfm) -1394 Btuh
Ventilating dehumidifier
Equipment latent load 2936 Btuh

	Heating	Cooling
Area (ft ²)	1059	1059
Volume (ft ³)	12711	12711
Air changes/hour	0.28	0.14
Equiv. AVF (cfm)	60	30

Equipment Total Load (Sen+Lat) 16597 Btuh
Req. total capacity at 0.70 SHR 1.6 ton

Heating Equipment Summary

Make DAIKIN
Trade
Model OU1 RXSQ48TAVJUA
AHRI ref
Efficiency 8.5 HSPF
Heating input
Heating output 19375 Btuh @ 47°F
Temperature rise 29 °F
Actual air flow 618 cfm
Air flow factor 0.036 cfm/Btuh
Static pressure 0.40 in H2O
Space thermostat
Capacity balance point = 32 °F

Cooling Equipment Summary

Make DAIKIN
Trade
Cond OU1 RXSQ48TAVJUA
Coil IU1 FXSQ24TAVJU
AHRI ref
Efficiency 12.8 EER, 15 SEER
Sensible cooling 13630 Btuh
Latent cooling 5841 Btuh
Total cooling 19471 Btuh
Actual air flow **618** cfm
Air flow factor 0.049 cfm/Btuh
Static pressure 0.40 in H2O
Load sensible heat ratio 0.82

Bold/italic values have been manually overridden

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



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A Mitac® / Beckhoff® Hardware Company

Right-Suite® Universal 2019 19.0.21 RSU09796

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Project Summary

AH2 SECOND LVL

Oby

Job: Sample
Date: August Sample 2020
By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
Sample Address, TX

Notes:

Design Information

Weather: Austin/Mueller Muni, TX, US

Winter Design Conditions

Outside db 30 °F
Inside db 70 °F
Design TD 40 °F

Summer Design Conditions

Outside db 98 °F
Inside db 75 °F
Design TD 23 °F
Daily range M
Relative humidity 45 %
Moisture difference 35 gr/lb

Heating Summary

Structure 14024 Btuh
Ducts 2872 Btuh
Central vent (65 cfm) 1479 Btuh
Ventilating dehumidifier
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 18374 Btuh

Sensible Cooling Equipment Load Sizing

Structure 17111 Btuh
Ducts 2117 Btuh
Central vent (65 cfm) 352 Btuh
Ventilating dehumidifier
Blower 0 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 19580 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 1 (Average)

	Heating	Cooling
Area (ft ²)	1588	1588
Volume (ft ³)	19059	19059
Air changes/hour	0.29	0.14
Equiv. AVF (cfm)	91	46

Latent Cooling Equipment Load Sizing

Structure 2177 Btuh
Ducts 408 Btuh
Central vent (65 cfm) -455 Btuh
Ventilating dehumidifier
Equipment latent load 2131 Btuh

Equipment Total Load (Sen+Lat) 21711 Btuh
Req. total capacity at 0.70 SHR 2.3 ton

Heating Equipment Summary

Make DAIKIN
Trade
Model OU1 - RXSQ48TAVJUA
AHRI ref
Efficiency 8.5 HSPF
Heating input
Heating output 27604 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 950 cfm
Air flow factor 0.056 cfm/Btuh
Static pressure 0.75 in H2O
Space thermostat
Capacity balance point = 14 °F

Cooling Equipment Summary

Make DAIKIN
Trade
Cond OU1 - RXSQ48TAVJUA
Coil IU2 - FXTQ30TAVJUA
AHRI ref
Efficiency 12.8 EER, 15 SEER
Sensible cooling 19419 Btuh
Latent cooling 8323 Btuh
Total cooling 27742 Btuh
Actual air flow **950** cfm
Air flow factor 0.049 cfm/Btuh
Static pressure 0.75 in H2O
Load sensible heat ratio 0.90

Bold/italic values have been manually overridden

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





Project Summary
AH3 - THIRD LVL
Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
 Sample Address, TX

Notes:

Design Information

Weather: Austin/Mueller Muni, TX, US

Winter Design Conditions

Outside db 30 °F
 Inside db 70 °F
 Design TD 40 °F

Summer Design Conditions

Outside db 98 °F
 Inside db 75 °F
 Design TD 23 °F
 Daily range M
 Relative humidity 45 %
 Moisture difference 35 gr/lb

Heating Summary

Structure 18002 Btuh
 Ducts 1874 Btuh
 Central vent (25 cfm) 573 Btuh
 Ventilating dehumidifier
 Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 20450 Btuh

Sensible Cooling Equipment Load Sizing

Structure 13990 Btuh
 Ducts 1364 Btuh
 Central vent (25 cfm) 137 Btuh
 Ventilating dehumidifier
 Blower 0 Btuh
 Use manufacturer's data y
 Rate/swing multiplier 1.00
 Equipment sensible load 15490 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

Latent Cooling Equipment Load Sizing

Structure 2357 Btuh
 Ducts 263 Btuh
 Central vent (25 cfm) -176 Btuh
 Ventilating dehumidifier
 Equipment latent load 2444 Btuh

	Heating	Cooling
Area (ft ²)	1317	1317
Volume (ft ³)	13170	13170
Air changes/hour	0.46	0.23
Equiv. AVF (cfm)	102	52

Equipment Total Load (Sen+Lat) 17934 Btuh
 Req. total capacity at 0.70 SHR 1.8 ton

Heating Equipment Summary

Make DAIKIN
 Trade
 Model OU2 - RXSQ60TAVJUA
 AHRI ref
 Efficiency 8.5 HSPF
 Heating input
 Heating output 22239 Btuh @ 47°F
 Temperature rise 33 °F
 Actual air flow 615 cfm
 Air flow factor 0.031 cfm/Btuh
 Static pressure 0.40 in H2O
 Space thermostat
 Capacity balance point = 26 °F

Cooling Equipment Summary

Make DAIKIN
 Trade
 Cond OU2 - RXSQ60TAVJUA
 Coil IU1 - FXSQ24TAVJU
 AHRI ref
 Efficiency 12.8 EER, 15 SEER
 Sensible cooling 15645 Btuh
 Latent cooling 6705 Btuh
 Total cooling 22350 Btuh
 Actual air flow **615** cfm
 Air flow factor 0.040 cfm/Btuh
 Static pressure 0.40 in H2O
 Load sensible heat ratio 0.86

Bold/italic values have been manually overridden

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





Project Summary

AH4 GAME DINING

Oby

Job: Sample
Date: August Sample 2020
By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
Sample Address, TX

Notes:

Design Information

Weather: Austin/Mueller Muni, TX, US

Winter Design Conditions

Outside db 30 °F
Inside db 70 °F
Design TD 40 °F

Summer Design Conditions

Outside db 98 °F
Inside db 75 °F
Design TD 23 °F
Daily range M
Relative humidity 45 %
Moisture difference 35 gr/lb

Heating Summary

Structure 32259 Btuh
Ducts 3118 Btuh
Central vent (161 cfm) 3662 Btuh
Ventilating dehumidifier
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 39039 Btuh

Sensible Cooling Equipment Load Sizing

Structure 29527 Btuh
Ducts 2263 Btuh
Central vent (161 cfm) 872 Btuh
Ventilating dehumidifier
Blower 0 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 32663 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 1 (Average)

Latent Cooling Equipment Load Sizing

Structure 4240 Btuh
Ducts 427 Btuh
Central vent (161 cfm) -1126 Btuh
Ventilating dehumidifier
Equipment latent load 3541 Btuh

	Heating	Cooling
Area (ft ²)	1315	1315
Volume (ft ³)	27885	27885
Air changes/hour	0.33	0.17
Equiv. AVF (cfm)	156	79

Equipment Total Load (Sen+Lat) 36204 Btuh
Req. total capacity at 0.70 SHR 3.9 ton

Heating Equipment Summary

Make DAIKIN
Trade
Model OU2- RXSQ60TAVJUA
AHRI ref
Efficiency 8.5 HSPF
Heating input
Heating output 47099 Btuh @ 47°F
Temperature rise 37 °F
Actual air flow 1165 cfm
Air flow factor 0.033 cfm/Btuh
Static pressure 0.40 in H2O
Space thermostat
Capacity balance point = 22 °F

Cooling Equipment Summary

Make DAIKIN
Trade
Cond OU2- RXSQ60TAVJUA
Coil IU2 - FXMQ48PBVJU
AHRI ref
Efficiency 12.8 EER, 15 SEER
Sensible cooling 33134 Btuh
Latent cooling 14200 Btuh
Total cooling 47334 Btuh
Actual air flow **1165** cfm
Air flow factor 0.037 cfm/Btuh
Static pressure 0.40 in H2O
Load sensible heat ratio 0.90

Bold/italic values have been manually overridden

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





AED Assessment

Entire House

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

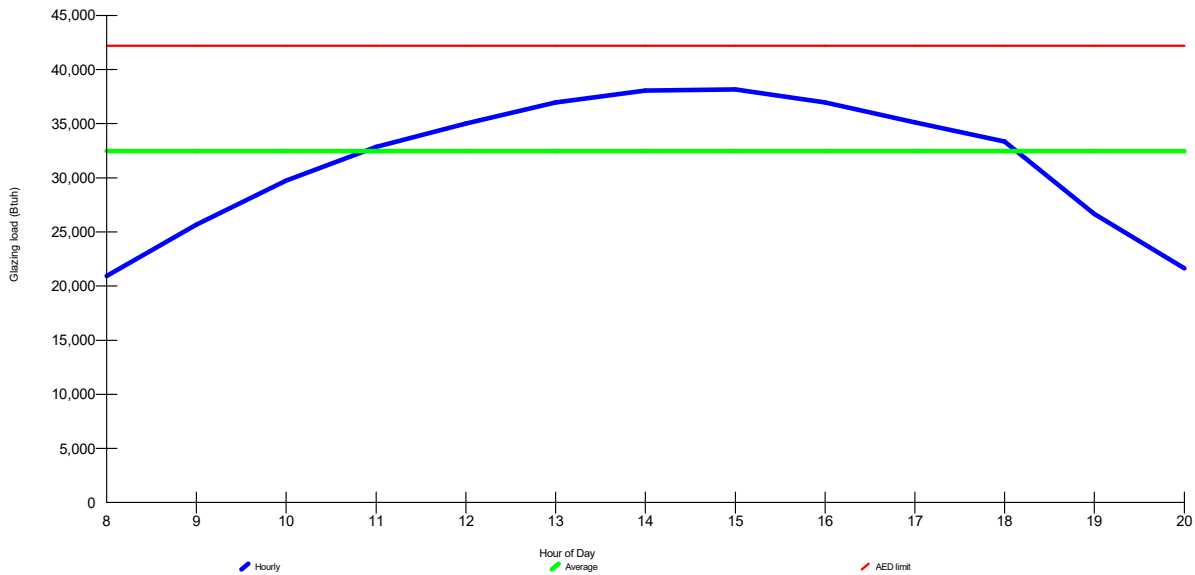
For: Sample Texas VRV Project
 Sample Address, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
Austin/Mueller Muni, TX, US		Indoor temperature (°F)		70	75
Elevation: 495 ft		Design TD (°F)		40	23
Latitude: 30°N		Relative humidity (%)		30	45
		Moisture difference (gr/lb)		13.7	35.1
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	30	98			
Daily range (°F)	-	23 (M)			
Wet bulb (°F)	-	75			
Wind speed (mph)	15.0	7.5			

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 17.6%.

House has adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 0 Btuh





AED Assessment
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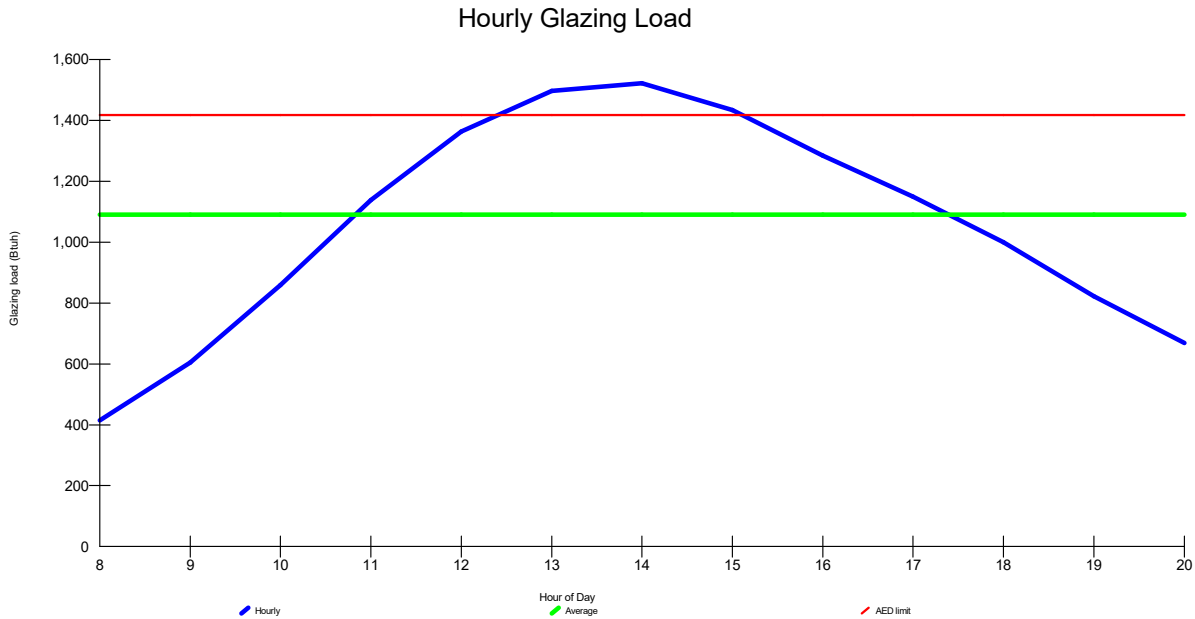
Project Information

For: Sample Texas VRV Project
 Sample Address, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
Austin/Mueller Muni, TX, US		Indoor temperature (°F)		70	75
Elevation: 495 ft		Design TD (°F)		40	23
Latitude: 30°N		Relative humidity (%)		30	45
		Moisture difference (gr/lb)		13.7	35.1
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	30	98			
Daily range (°F)	-	23 (M)			
Wet bulb (°F)	-	75			
Wind speed (mph)	15.0	7.5			

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 39.5%.

Zone does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 641 Btuh (PFG - ALP)



AED Assessment
AH2 SECOND LVL
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 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

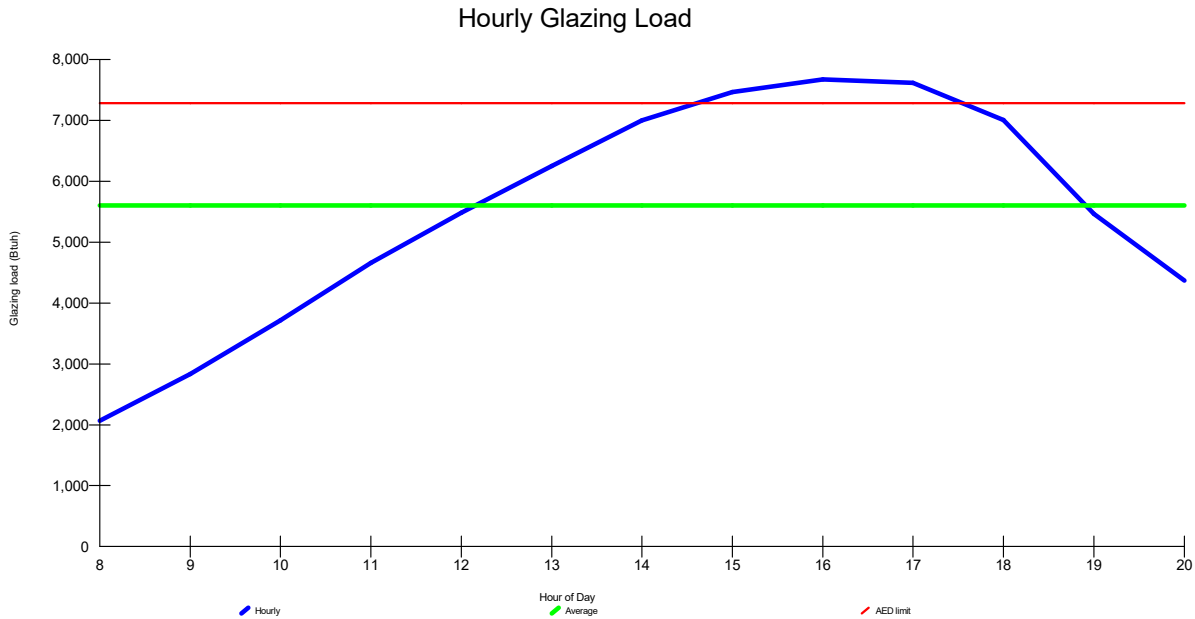
Project Information

For: Sample Texas VRV Project
 Sample Address, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
Austin/Mueller Muni, TX, US		Indoor temperature (°F)		70	75
Elevation: 495 ft		Design TD (°F)		40	23
Latitude: 30°N		Relative humidity (%)		30	45
		Moisture difference (gr/lb)		13.7	35.1
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	30	98			
Daily range (°F)	-	23 (M)			
Wet bulb (°F)	-	75			
Wind speed (mph)	15.0	7.5			

Test for Adequate Exposure Diversity



Maximum hourly glazing load exceeds average by 36.9%.

Zone does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 2152 Btuh (PFG - ALP)



AED Assessment
AH3 - THIRD LVL
Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

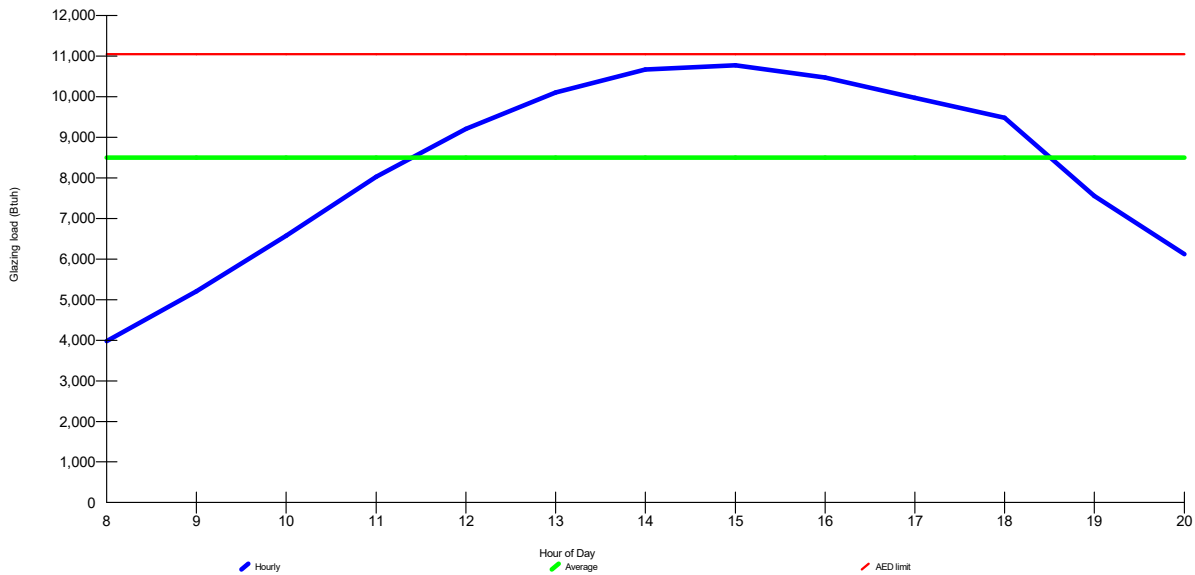
For: Sample Texas VRV Project
 Sample Address, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
Austin/Mueller Muni, TX, US		Indoor temperature (°F)		70	75
Elevation: 495 ft		Design TD (°F)		40	23
Latitude: 30°N		Relative humidity (%)		30	45
		Moisture difference (gr/lb)		13.7	35.1
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	30	98			
Daily range (°F)	-	23 (M)			
Wet bulb (°F)	-	75			
Wind speed (mph)	15.0	7.5			

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 26.7%.

Zone has adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 0 Btuh



AED Assessment
AH4 GAME DINING
Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

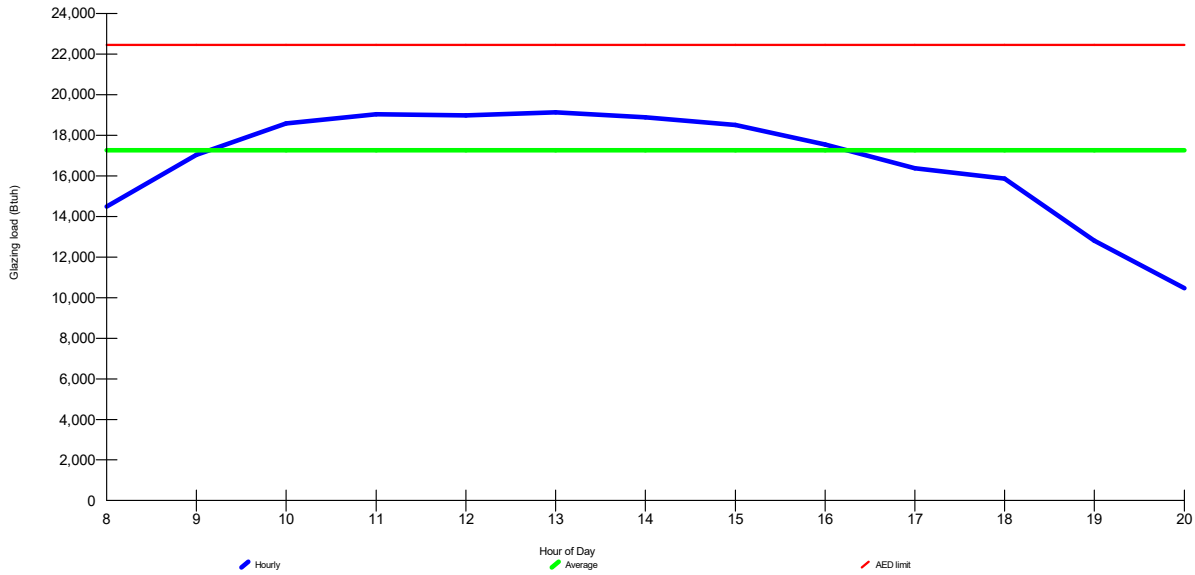
For: Sample Texas VRV Project
 Sample Address, TX

Design Conditions

Location:		Indoor:		Heating	Cooling
Austin/Mueller Muni, TX, US		Indoor temperature (°F)		70	75
Elevation: 495 ft		Design TD (°F)		40	23
Latitude: 30°N		Relative humidity (%)		30	45
		Moisture difference (gr/lb)		13.7	35.1
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	30	98			
Daily range (°F)	-	23 (M)			
Wet bulb (°F)	-	75			
Wind speed (mph)	15.0	7.5			

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 10.7%.

Zone has adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 0 Btuh



Right-J® Worksheet

Entire House

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name		Entire House				AH1 - FIRST LVL						
2		Exposed wall		552.0 ft				134.0 ft						
3		Room height		13.8 ft				12.0 ft						
4		Room dimensions		d				p						
5		Room area		5279.5 ft²				1059.3 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	12F-0sw	0.065	n	2.61	1.44	1920	1026	2681	1481	228	228	596	329
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	894	0	14376	12937	0	0	0	0
	W	12F-0sw	0.065	e	2.61	1.44	616	423	1104	610	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	194	0	3111	6436	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	413	358	993	432	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	55	0	884	1829	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	1690	1318	3655	1591	402	348	965	420
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	372	0	5986	6070	54	0	868	881
	W	12F-0sw	0.065	w	2.61	1.44	729	607	1585	875	192	192	502	277
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	122	0	1968	4072	0	0	0	0
	W	14C-5s	0.069	w	2.77	1.21	255	255	707	308	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	1617	1562	5716	2630	576	554	2028	933
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	33	0	531	478	0	0	0	0
	D	11D0	0.390	n	15.68	13.03	22	22	338	281	22	22	338	281
	P	12C-0sw	0.091	-	3.66	0.00	342	320	1172	0	210	188	689	0
	D	11D0	0.390	n	15.68	13.03	22	22	338	281	22	22	338	281
	C	16B-30ad	0.032	-	1.29	1.82	58	58	75	106	2	2	3	4
	C	16D-28td	0.034	-	1.37	1.25	2983	2983	4077	3742	26	26	36	33
	F	19C-19cscp	0.049	-	0.68	0.39	809	809	553	319	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	25	25	17	10	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	1059	134	6356	0	1059	134	6356	0
	F	22A-tpm	1.180	-	47.44	0.00	1110	112	5306	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	38	7	330	0	0	0	0	0
6	c) AED excursion									0			641	
	Envelope loss/gain								61860	44489			12720	4080
12	a) Infiltration								17739	5172			2593	756
	b) Room ventilation								0	251			0	251
13	Internal gains:		Occupants @	230		29				6670	12			2760
			Appliances/other							12600				3500
	Subtotal (lines 6 to 13)								79599	69182			15314	11347
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								79599	69182			15314	11347
15	Duct loads					12%	10%		9533	6656	11%	11%	1669	1235
	Total room load								89132	75838			16983	12582
	Air required (cfm)								3348	3348			618	618

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



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Right-J® Worksheet

Entire House

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				AH2 SECOND LVL 134.0 ft				AH3 - THIRD LVL 175.0 ft						
2 Exposed wall				12.0 ft p				10.0 ft d						
3 Room height														
4 Room dimensions														
5 Room area				1588.3 ft²				1317.0 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	12F-0sw	0.065	n	2.61	1.44	102	74	194	107	420	151	395	218
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	28	0	446	402	269	0	4326	3893
	W	12F-0sw	0.065	e	2.61	1.44	0	0	0	0	130	130	340	188
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	0	0	0	0	95	95	264	115
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	660	516	1431	623	460	294	815	355
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	144	0	2316	2348	166	0	2669	2707
	W	12F-0sw	0.065	w	2.61	1.44	492	409	1068	590	45	6	15	8
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	83	0	1339	2769	39	0	630	1303
	W	14C-5s	0.069	w	2.77	1.21	0	0	0	0	255	255	707	308
	R	12C-0sw	0.091	-	3.66	1.68	354	354	1295	596	345	345	1262	581
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	15.68	13.03	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.66	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	15.68	13.03	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	26	26	33	47	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	457	457	624	573	1317	1317	1800	1652
	F	19C-19cscp	0.049	-	0.68	0.39	661	661	452	261	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	0	0	0	0	25	25	17	10
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	101	18	871	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0	38	7	330	0
6	c) AED excursion									2152				0
	Envelope loss/gain								10068	10467			13570	11337
12	a) Infiltration								3956	1153			4432	1292
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			3			690	2		460	900
			Appliances/other							4800				
	Subtotal (lines 6 to 13)								14024	17111			18002	13990
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								14024	17111			18002	13990
15	Duct loads						20%	12%	2872	2117	10%	10%	1874	1364
	Total room load								16896	19228			19877	15354
	Air required (cfm)								950	950			615	615

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



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Page 2



Right-J® Worksheet

Entire House

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name		AH4 GAME DINING												
2 Exposed wall		109.0 ft												
3 Room height		21.2 ft		d										
4 Room dimensions														
5 Room area		1315.0 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	12F-0sw	0.065	n	2.61	1.44	1170	573	1497	826				
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	597	0	9604	8643				
	W	12F-0sw	0.065	e	2.61	1.44	486	293	764	422				
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	194	0	3111	6436				
11	W	14C-5s	0.069	e	2.77	1.21	318	263	730	318				
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	55	0	884	1829				
	W	14C-5s	0.069	s	2.77	1.21	168	160	443	193				
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	8	0	133	135				
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0				
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	0	0	0	0				
	W	14C-5s	0.069	w	2.77	1.21	0	0	0	0				
	R	12C-0sw	0.091	-	3.66	1.68	342	309	1130	520				
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	33	0	531	478				
	D	11D0	0.390	n	15.68	13.03	0	0	0	0				
	P	12C-0sw	0.091	-	3.66	0.00	132	132	483	0				
	D	11D0	0.390	n	15.68	13.03	0	0	0	0				
	C	16B-30ad	0.032	-	1.29	1.82	30	30	39	55				
	C	16D-28td	0.034	-	1.37	1.25	1183	1183	1617	1484				
	F	19C-19cscp	0.049	-	0.68	0.39	148	148	101	58				
	F	19C-19cscp	0.049	-	0.68	0.39	0	0	0	0				
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0				
	F	22A-tpm	1.180	-	47.44	0.00	1009	94	4435	0				
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0				
6	c) AED excursion									0				
	Envelope loss/gain								25501	21397				
12	a) Infiltration								6757	1970				
	b) Room ventilation								0	0				
13	Internal gains:		Occupants @	230			12			2760				
			Appliances/other							3400				
	Subtotal (lines 6 to 13)								32259	29527				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								32259	29527				
15	Duct loads						10%	8%	3118	2263				
	Total room load								35377	31791				
	Air required (cfm)								1165	1165				

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



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Page 3



Right-J® Worksheet

AH1 - FIRST LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name		AH1 - FIRST LVL					1ST BTH						
2		Exposed wall		134.0 ft					0 ft						
3		Room height		12.0 ft					12.0 ft						
4		Room dimensions		p					7.5 x 8.0 ft						
5		Room area		1059.3 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	12F-0sw	0.065	n	2.61	1.44	228	228	596	329	0	0	0	0	
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0	
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0	
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0	
	W	14C-5s	0.069	s	2.77	1.21	402	348	965	420	0	0	0	0	
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	54	0	868	881	0	0	0	0	
	W	12F-0sw	0.065	w	2.61	1.44	192	192	502	277	0	0	0	0	
	G	2 glazing, dr outr,	0.400	w	0.00	0.00	0	0	0	0	0	0	0	0	
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0	
	R	12C-0sw	0.091	-	3.66	1.68	576	554	2028	933	0	0	0	0	
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0	
	D	11D0	0.390	n	15.68	13.03	22	22	338	281	0	0	0	0	
	P	12C-0sw	0.091	-	3.66	0.00	210	188	689	0	0	0	0	0	
	D	11D0	0.390	n	15.68	13.03	22	22	338	281	0	0	0	0	
	C	16B-30ad	0.032	-	1.29	1.82	2	2	3	4	0	0	0	0	
	C	16D-28td	0.034	-	1.37	1.25	26	26	36	33	0	0	0	0	
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0	
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0	
	F	22A-tpm	1.180	-	47.44	0.00	1059	134	6356	0	60	0	0	0	
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0	
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0	
6	c) AED excursion									641				0	
	Envelope loss/gain								12720	4080			0	0	
12	a) Infiltration								2593	756			0	0	
	b) Room ventilation								0	251			0	251	
13	Internal gains:		Occupants @	230			12			2760	0			0	
			Appliances/other							3500				0	
	Subtotal (lines 6 to 13)								15314	11347			0	251	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								15314	11347			0	251	
15	Duct loads						11%	11%	1669	1235		11%	11%	0	27
	Total room load								16983	12582			0	278	
	Air required (cfm)								618	618			0	14	

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

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Right-J® Worksheet

AH1 - FIRST LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name				CLST5				DININGSTH				
2		Exposed wall				8.0 ft				8.5 ft				
3		Room height				12.0 ft				12.0 ft				
4		Room dimensions				11.5 x 8.0 ft				15.5 x 8.5 ft				
5		Room area				92.0 ft²				131.8 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	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	96	96	266	116	102	102	283	123
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	15.68	13.03	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.66	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	15.68	13.03	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	4	4	5	5	4	4	6	5
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	92	8	379	0	132	9	403	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion								0				0	
	Envelope loss/gain								651	121			692	128
12	a) Infiltration								303	88			322	94
	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)								954	209			1014	222
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								954	209			1014	222
15	Duct loads								11%	11%			11%	11%
									104	23			111	24
	Total room load								1058	232			1124	247
	Air required (cfm)								39	11			41	12

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



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Right-J® Worksheet

AH1 - FIRST LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name		KITCHEN						MID KIT&DINE					
2		Exposed wall		37.5 ft						15.0 ft					
3		Room height		12.0 ft						12.0 ft					
4		Room dimensions		15.5 x 17.0 ft						1.0 x 279.5 ft					
5		Room area		263.5 ft²						279.5 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	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0	
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0	
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0	
	W	14C-5s	0.069	s	2.77	1.21	204	150	416	181	0	0	0	0	
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	54	0	868	881	0	0	0	0	
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	0	0	0	0	
	G	2 glazing, dr outr,	0.400	w	0.00	0.00	0	0	0	0	0	0	0	0	
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0	
	R	12C-0sw	0.091	-	3.66	1.68	246	246	900	414	180	158	580	267	
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0	
	D	11D0	0.390	n	15.68	13.03	0	0	0	0	22	22	338	281	
	P	12C-0sw	0.091	-	3.66	0.00	0	0	0	0	0	0	0	0	
	D	11D0	0.390	n	15.68	13.03	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.29	1.82	2	2	3	4	0	0	0	0	
	C	16D-28td	0.034	-	1.37	1.25	9	9	12	11	0	0	0	0	
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0	
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0	
	F	22A-tpm	1.180	-	47.44	0.00	264	38	1779	0	280	15	712	0	
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0	
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0	
6	c) AED excursion									641				0	
	Envelope loss/gain								3978	2131			1629	548	
12	a) Infiltration								644	188			0	0	
	b) Room ventilation								0	0			0	0	
13	Internal gains:		Occupants @	230			0			0	0			0	
			Appliances/other							3000				0	
	Subtotal (lines 6 to 13)								4621	5319			1629	548	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								4621	5319			1629	548	
15	Duct loads						11%	11%	504	579	11%	11%	178	60	
	Total room load								5125	5898			1807	607	
	Air required (cfm)								186	290			66	30	

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



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Right-J® Worksheet

AH1 - FIRST LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				CATWLK2				Private Nook						
2 Exposed wall				13.0 ft				52.0 ft						
3 Room height				12.0 ft heat/cool				12.0 ft heat/cool						
4 Room dimensions				5.0 x 6.5 ft				16.0 x 12.5 ft						
5 Room area				32.5 ft²				200.0 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	12F-0sw	0.065	n	2.61	1.44	78	78	204	113	150	150	392	216
	└─G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0
	└─G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	└─G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	0	0	0	0	0	0	0	0
	└─G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	192	192	502	277
	└─G	2 glazing, dr outr,	0.400	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	0	0	0	0	150	150	549	253
	└─G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	└─D	11D0	0.390	n	15.68	13.03	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.66	0.00	78	56	206	0	132	132	483	0
	└─D	11D0	0.390	n	15.68	13.03	22	22	338	281	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	3	3	4	4	6	6	9	8
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	33	13	617	0	200	52	2467	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									0				0
	Envelope loss/gain								1370	398			4400	754
12	a) Infiltration								246	72			1079	315
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	12			2760
			Appliances/other							0				500
	Subtotal (lines 6 to 13)								1616	470			5479	4328
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								-1616	-470			1616	470
14	Subtotal								0	0			7095	4798
15	Duct loads						11%	11%	0	0	11%	11%	773	522
	Total room load								0	0			7869	5320
	Air required (cfm)								0	0			286	261

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



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Right-J® Worksheet

AH2 SECOND LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				AH2 SECOND LVL				2ND CATWLK1						
2 Exposed wall				134.0 ft				3.0 ft						
3 Room height				12.0 ft				12.0 ft						
4 Room dimensions				p				25.0 x 3.0 ft						
5 Room area				1588.3 ft²				75.0 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	12F-0sw	0.065	n	2.61	1.44	102	74	194	107	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	28	0	446	402	0	0	0	0
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	660	516	1431	623	36	36	100	43
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	144	0	2316	2348	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	492	409	1068	590	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	83	0	1339	2769	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	354	354	1295	596	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	26	26	33	47	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	457	457	624	573	75	75	103	94
	F	19C-19cscp	0.049	-	0.68	0.39	661	661	452	261	0	0	0	0
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	101	18	871	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									2152				-9
	Envelope loss/gain								10068	10467			202	129
12	a) Infiltration								3956	1153			114	33
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			3			690	0			0
			Appliances/other							4800				0
	Subtotal (lines 6 to 13)								14024	17111			316	162
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			-316	-162
14	Subtotal								14024	17111			0	0
15	Duct loads						20%	12%	2872	2117	20%	12%	0	0
	Total room load								16896	19228			0	0
	Air required (cfm)								950	950			0	0

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

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Right-J® Worksheet
AH2 SECOND LVL
Oby

Job: Sample
Date: August Sample 2020
By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				2ND. LDY				BD1 CLST						
2 Exposed wall				0 ft				0 ft						
3 Room height				12.0 ft heat/cool				12.0 ft heat/cool						
4 Room dimensions				6.5 x 5.0 ft				6.5 x 5.0 ft						
5 Room area				32.5 ft²				32.5 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	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	33	33	44	41	33	33	44	41
	F	19C-19cscp	0.049	-	0.68	0.39	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									-49				-2
	Envelope loss/gain								44	-8			44	39
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							900				0
	Subtotal (lines 6 to 13)								44	892			44	39
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								238	126			-44	-39
14	Subtotal								282	1018			0	0
15	Duct loads						20%	12%	58	126	20%	12%	0	0
	Total room load								340	1144			0	0
	Air required (cfm)								19	57			0	0

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

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...lobrav\Documents\Marketing\Texas Sample JSD.rup Calc = MJ8 Front Door faces: S



Right-J® Worksheet
AH2 SECOND LVL
Oby

Job: Sample
Date: August Sample 2020
By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name				2ND BTH EST				BD1				
2		Exposed wall				10.0 ft				12.0 ft				
3		Room height				12.0 ft heat/cool				12.0 ft heat/cool				
4		Room dimensions				13.5 x 10.0 ft				20.0 x 12.0 ft				
5		Room area				135.0 ft²				240.0 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	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	120	120	333	145	144	96	266	116
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	48	0	772	783
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	135	135	185	169	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									-22				428
	Envelope loss/gain									517	292		1038	1326
12	a) Infiltration									379	110		454	132
	b) Room ventilation									0	0		0	0
13	Internal gains:		Occupants @	230		0				0	1			230
			Appliances/other							0				900
	Subtotal (lines 6 to 13)									896	403		1492	2589
	Less external load									0	0		0	0
	Less transfer									0	0		0	0
	Redistribution									226	120		302	158
14	Subtotal									1122	523		1795	2746
15	Duct loads					20%	12%			230	65	20%	12%	367
	Total room load									1351	587		2162	3086
	Air required (cfm)									76	29		122	152

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



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Right-J® Worksheet
AH2 SECOND LVL
Oby

Job: Sample
Date: August Sample 2020
By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				BD2 27.0 ft				BD2 CLST 5.5 ft						
2 Exposed wall				12.0 ft heat/cool				12.0 ft heat/cool						
3 Room height				1.0 x 251.3 ft				5.5 x 7.0 ft						
4 Room dimensions				251.3 ft²				38.5 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	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	192	144	399	174	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	48	0	772	783	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	132	132	483	222	66	66	241	111
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	2	2	2	3
	C	16D-28td	0.034	-	1.37	1.25	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	119	119	81	47	39	39	26	15
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									408				-7
	Envelope loss/gain								1735	1634			270	123
12	a) Infiltration								606	177			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230	1				230	900	0			0
			Appliances/other											0
	Subtotal (lines 6 to 13)								2341	2940			270	123
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								235	111			-270	-123
14	Subtotal								2575	3051			0	0
15	Duct loads				20%	12%			527	378	20%	12%	0	0
	Total room load								3103	3429			0	0
	Air required (cfm)								174	169			0	0

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



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Right-J® Worksheet

AH2 SECOND LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				BD3 18.0 ft				BD3 CLST 0 ft						
2 Exposed wall				12.0 ft heat/cool				12.0 ft heat/cool						
3 Room height				1.0 x 232.8 ft				4.5 x 10.5 ft						
4 Room dimensions				232.8 ft²				47.3 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	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	168	120	333	145	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	48	0	772	783	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	48	48	176	81	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	233	233	159	92	47	47	32	19
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									416				-1
	Envelope loss/gain								1439	1516			32	18
12	a) Infiltration								530	155			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			1			230	0			0
			Appliances/other							900				0
	Subtotal (lines 6 to 13)								1969	2801			32	18
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								1534	632			-32	-18
14	Subtotal								3503	3432			0	0
15	Duct loads						20%	12%	717	425	20%	12%	0	0
	Total room load								4220	3857			0	0
	Air required (cfm)								237	191			0	0

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

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Right-J® Worksheet

AH2 SECOND LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				2ND STRWY WST 19.5 ft				2ND CATWLK2 10.5 ft						
2 Exposed wall				12.0 ft heat/cool				12.0 ft heat/cool						
3 Room height				16.0 x 3.5 ft				5.0 x 55.5 ft						
4 Room dimensions				56.0 ft²				277.5 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	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	192	192	502	277	60	60	157	87
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	42	42	154	71	66	66	241	111
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	24	24	31	44
	C	16D-28td	0.034	-	1.37	1.25	0	0	0	0	50	50	68	63
	F	19C-19cscp	0.049	-	0.68	0.39	56	56	38	22	130	130	89	51
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion													
	Envelope loss/gain								694	341			586	334
12	a) Infiltration								606	177			189	55
	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)								1299	518			775	389
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								-1299	-518			-775	-389
14	Subtotal								0	0			0	0
15	Duct loads						20%	12%	0	0	20%	12%	0	0
	Total room load								0	0			0	0
	Air required (cfm)								0	0			0	0

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

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Right-J® Worksheet
AH2 SECOND LVL
Oby

Job: Sample
Date: August Sample 2020
By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				2ND BTH WST				OFC						
2 Exposed wall				6.5 ft				22.0 ft						
3 Room height				12.0 ft heat/cool				12.0 ft heat/cool						
4 Room dimensions				6.5 x 8.5 ft				13.5 x 8.5 ft						
5 Room area				55.3 ft²				114.8 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	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	102	74	194	107
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	28	0	446	402
	W	12F-0sw	0.065	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	78	50	129	71	162	107	280	155
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	29	0	458	948	55	0	880	1821
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	17	17	23	21	115	115	157	144
	F	19C-19cscp	0.049	-	0.68	0.39	38	38	26	15	0	0	0	0
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	13	2	73	0	88	17	798	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									369			671	
	Envelope loss/gain								710	1425			2756	3299
12	a) Infiltration								246	72			833	243
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0			0	0			0
			Appliances/other							0				1200
	Subtotal (lines 6 to 13)								956	1496			3589	4742
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								203	102			0	0
14	Subtotal								1158	1598			3589	4742
15	Duct loads						20%	12%	237	198	20%	12%	735	587
	Total room load								1396	1796			4323	5329
	Air required (cfm)								78	89			243	263

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

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Right-J® Worksheet
AH3 - THIRD LVL
Oby

Job: Sample
Date: August Sample 2020
By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name		AH3 - THIRD LVL				M.BDRM						
2		Exposed wall		175.0 ft				27.5 ft						
3		Room height		10.0 ft				10.0 ft						
4		Room dimensions		d				1.0 x 475.5 ft						
5		Room area		1317.0 ft²				475.5 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	12F-0sw	0.065	n	2.61	1.44	420	151	395	218	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	269	0	4326	3893	0	0	0	0
	W	12F-0sw	0.065	e	2.61	1.44	130	130	340	188	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	95	95	264	115	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	460	294	815	355	220	103	286	124
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	166	0	2669	2707	117	0	1881	1908
	W	12F-0sw	0.065	w	2.61	1.44	45	6	15	8	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	39	0	630	1303	0	0	0	0
	W	14C-5s	0.069	w	2.77	1.21	255	255	707	308	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	345	345	1262	581	55	55	201	93
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	1317	1317	1800	1652	476	476	650	597
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	25	25	17	10	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	38	7	330	0	11	1	30	0
6	c) AED excursion									0				124
	Envelope loss/gain								13570	11337			3048	2846
12	a) Infiltration								4432	1292			694	202
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			2			460	2			460
			Appliances/other							900				900
	Subtotal (lines 6 to 13)								18002	13990			3742	4408
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			1606	574
14	Subtotal								18002	13990			5349	4982
15	Duct loads						10%	10%	1874	1364	10%	10%	557	486
	Total room load								19877	15354			5905	5468
	Air required (cfm)								615	615			183	219

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



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...lobrav\Documents\Marketing\Texas Sample JSD.rup Calc = MJ8 Front Door faces: S



Right-J® Worksheet

AH3 - THIRD LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				3RD STWY WST DN				M.WC						
2 Exposed wall				29.5 ft				0 ft						
3 Room height				10.0 ft heat/cool				10.0 ft heat/cool						
4 Room dimensions				102.0 ft ² 25.5 x 4.0 ft				17.5 ft ² 5.0 x 3.5 ft						
5 Room area														
	Ty	Construction number	U-value (Btuh/ft ² ·°F)	Or	HTM (Btuh/ft ²)		Area (ft ²) or perimeter (ft)		Load (Btuh)		Area (ft ²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	40	40	111	48	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	2.77	1.21	255	255	707	308	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	102	102	139	128	18	18	24	22
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	14	14	10	6	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	15	4	199	0	0	0	0	0
6	c) AED excursion									-17				0
	Envelope loss/gain									1166	473		24	21
12	a) Infiltration									931	271		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)									2097	744		24	21
	Less external load									0	0		0	0
	Less transfer									0	0		0	0
	Redistribution									-2097	-744		-24	-21
14	Subtotal									0	0		0	0
15	Duct loads						10%	10%		0	0	10%	10%	0
	Total room load									0	0		0	0
	Air required (cfm)									0	0		0	0

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

...lobrav\Documents\Marketing\Texas Sample JSD.rup Calc = MJ8 Front Door faces: S



Right-J® Worksheet

AH3 - THIRD LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				M. CLST 28.5 ft				3RD WC1 3.5 ft						
2 Exposed wall				10.0 ft heat/cool				10.0 ft heat/cool						
3 Room height				1.0 x 246.5 ft				3.5 x 5.0 ft						
4 Room dimensions				246.5 ft²				17.5 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	12F-0sw	0.065	n	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	2.61	1.44	130	130	340	188	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	2.77	1.21	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	155	155	567	261	35	35	128	59
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	247	247	337	309	18	18	24	22
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	11	11	8	4	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									-20				-2
	Envelope loss/gain									1251	742			152 79
12	a) Infiltration									410	120			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)									1661	862			152 79
	Less external load									0	0			0 0
	Less transfer									0	0			0 0
	Redistribution									5	4			0 0
14	Subtotal									1666	866			152 79
15	Duct loads						10%	10%		173	84		10%	16 8
	Total room load									1840	951			168 87
	Air required (cfm)									57	38			5 3

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

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Right-J® Worksheet

AH3 - THIRD LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name				3RD WC2				CMN BATH				
2		Exposed wall				10.0 ft 9.0 ft heat/cool				10.0 ft 6.5 ft heat/cool				
3		Room height				4.0 x 5.0 ft				7.5 x 6.5 ft				
4		Room dimensions				20.0 ft²				48.8 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	12F-0sw	0.065	n	2.61	1.44	50	50	131	72	65	65	170	94
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	e	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	2.77	1.21	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	40	40	146	67	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	20	20	27	25	49	49	67	61
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									-5				-5
	Envelope loss/gain									304	160		236	150
12	a) Infiltration									158	46		205	60
	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)									462	206		442	210
	Less external load									0	0		0	0
	Less transfer									0	0		0	0
	Redistribution									0	0		0	0
14	Subtotal									462	206		442	210
15	Duct loads						10%	10%		48	20		46	20
	Total room load									510	226		487	230
	Air required (cfm)									16	9		15	9

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

...lobrav\Documents\Marketing\Texas Sample JSD.rup Calc = MJ8 Front Door faces: S



Right-J® Worksheet

AH3 - THIRD LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name		M. SITTING 41.0 ft					M. BATH 29.5 ft					
2		Exposed wall		10.0 ft heat/cool					10.0 ft heat/cool					
3		Room height		1.0 x 216.8 ft					1.0 x 172.5 ft					
4		Room dimensions		216.8 ft²					172.5 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	12F-0sw	0.065	n	2.61	1.44	305	36	94	52	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	269	0	4326	3893	0	0	0	0
	W	12F-0sw	0.065	e	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	0	0	0	0	95	95	264	115
	G	2 glazing, dr outr,	0.400	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	0	0	0	0	200	151	419	182
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	49	0	788	799
	W	12F-0sw	0.065	w	2.61	1.44	45	6	15	8	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	16.08	33.26	39	0	630	1303	0	0	0	0
	W	14C-5s	0.069	w	2.77	1.21	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	60	60	219	101	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	217	217	296	272	173	173	236	216
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.68	0.39	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	2	0	20	0	10	2	81	0
6	c) AED excursion													57
	Envelope loss/gain								5601	5496			1787	1369
12	a) Infiltration								1104	322			931	271
	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)								6705	5818			2718	1641
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								498	177			12	11
14	Subtotal								7202	5995			2730	1651
15	Duct loads						10%	10%	750	585	10%	10%	284	161
	Total room load								7952	6579			3014	1812
	Air required (cfm)								246	264			93	73

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

...lobrav\Documents\Marketing\Texas Sample JSD.rup Calc = MJ8 Front Door faces: S



Right-J® Worksheet

AH4 GAME DINING

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name		AH4 GAME DINING					GAMERM					
2		Exposed wall		109.0 ft					17.0 ft					
3		Room height		21.2 ft					12.0 ft					
4		Room dimensions		d					20.0 x 17.0 ft					
5		Room area		1315.0 ft²					340.0 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	12F-0sw	0.065	n	2.61	1.44	1170	573	1497	826	204	121	316	174
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	597	0	9604	8643	83	0	1339	1205
	W	12F-0sw	0.065	e	2.61	1.44	486	293	764	422	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	194	0	3111	6436	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	318	263	730	318	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	55	0	884	1829	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	168	160	443	193	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	8	0	133	135	0	0	0	0
	W	12F-0sw	0.065	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	342	309	1130	520	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	33	0	531	478	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.66	0.00	132	132	483	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	30	30	39	55	0	0	0	0
	C	16D-28td	0.034	-	1.37	1.25	1183	1183	1617	1484	264	264	360	331
	F	19C-19cscp	0.049	-	0.68	0.39	148	148	101	58	148	148	101	58
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	1009	94	4435	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									0			0	
	Envelope loss/gain								25501	21397			2115	1768
12	a) Infiltration								6757	1970			644	188
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			12			2760	8			1840
			Appliances/other							3400				2000
	Subtotal (lines 6 to 13)								32259	29527			2759	5796
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								32259	29527			2759	5796
15	Duct loads						10%	8%	3118	2263	10%	8%	267	444
	Total room load								35377	31791			3026	6240
	Air required (cfm)								1165	1165			100	229

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



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Right-Suite® Universal 2019 19.0.21 RSU09796



Right-J® Worksheet

AH4 GAME DINING

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1		Room name				2ND STRY DN 1ST				2ND LVL ENT OTB				
2		Exposed wall				3.0 ft				32.0 ft				
3		Room height				23.5 ft		heat/cool		24.2 ft		heat/cool		
4		Room dimensions				20.0 x 3.0 ft				25.0 x 7.0 ft				
5		Room area				60.0 ft²				175.0 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	12F-0sw	0.065	n	2.61	1.44	36	9	24	13	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	27	0	434	391	0	0	0	0
	W	12F-0sw	0.065	e	2.61	1.44	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	0	0	0	0	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	0	0	0	0	318	263	730	318
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	0	0	0	0	55	0	884	1829
	W	14C-5s	0.069	s	2.77	1.21	0	0	0	0	168	160	443	193
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	8	0	133	135
	W	12F-0sw	0.065	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	54	54	198	91	288	255	933	429
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	33	0	531	478
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.66	0.00	132	132	483	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	12	12	15	22
	C	16D-28td	0.034	-	1.37	1.25	47	47	64	58	179	179	245	225
	F	19C-19cscp	0.049	-	0.68	0.39	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	58	0	0	0	179	33	1542	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion								0				0	
	Envelope loss/gain								1202	553			5455	3628
12	a) Infiltration								114	33			1533	447
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			0		0	0	0		0	0
			Appliances/other						0	0			0	0
	Subtotal (lines 6 to 13)								1315	586			6988	4075
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1315	586			6988	4075
15	Duct loads						10%	8%	127	45	10%	8%	675	312
	Total room load								1442	631			7664	4387
	Air required (cfm)								47	23			252	161

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



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Right-Suite® Universal 2019 19.0.21 RSU09796

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Right-J® Worksheet

AH4 GAME DINING

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

1 Room name				OPN TO BLW 40.0 ft				DINE OPN TO BLW 17.0 ft						
2 Exposed wall				24.3 ft heat/cool				24.8 ft heat/cool						
3 Room height				20.0 x 20.0 ft				20.0 x 17.0 ft						
4 Room dimensions				400.0 ft²				340.0 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	12F-0sw	0.065	n	2.61	1.44	480	223	583	322	450	220	575	317
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	257	0	4133	3719	230	0	3698	3328
	W	12F-0sw	0.065	e	2.61	1.44	486	293	764	422	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	194	0	3111	6436	0	0	0	0
11	W	14C-5s	0.069	e	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	e	16.08	33.26	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	s	2.77	1.21	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	s	16.08	16.31	0	0	0	0	0	0	0	0
	W	12F-0sw	0.065	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	14C-5s	0.069	w	0.00	0.00	0	0	0	0	0	0	0	0
	R	12C-0sw	0.091	-	3.66	1.68	0	0	0	0	0	0	0	0
	G	2 glazing, dr outr,	0.400	n	16.08	14.47	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.66	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	n	0.00	0.00	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.29	1.82	0	0	0	0	18	18	23	33
	C	16D-28td	0.034	-	1.37	1.25	420	420	574	527	274	274	374	343
	F	19C-19cscp	0.049	-	0.68	0.39	0	0	0	0	0	0	0	0
	F	19C-19cscp	0.049	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.44	0.00	410	41	1921	0	363	21	972	0
	F	22A-tpm	1.180	-	0.00	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									0				0
	Envelope loss/gain									11086	11426		5643	4022
12	a) Infiltration									3047	889		1420	414
	b) Room ventilation									0	0		0	0
13	Internal gains:		Occupants @	230			4			920	0			0
			Appliances/other							900				500
	Subtotal (lines 6 to 13)									14134	14135		7063	4936
	Less external load									0	0		0	0
	Less transfer									0	0		0	0
	Redistribution									0	0		0	0
14	Subtotal									14134	14135		7063	4936
15	Duct loads						10%	8%		1366	1084		683	378
	Total room load									15500	15218		7745	5314
	Air required (cfm)									510	558		255	195

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



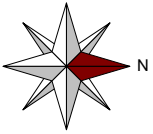
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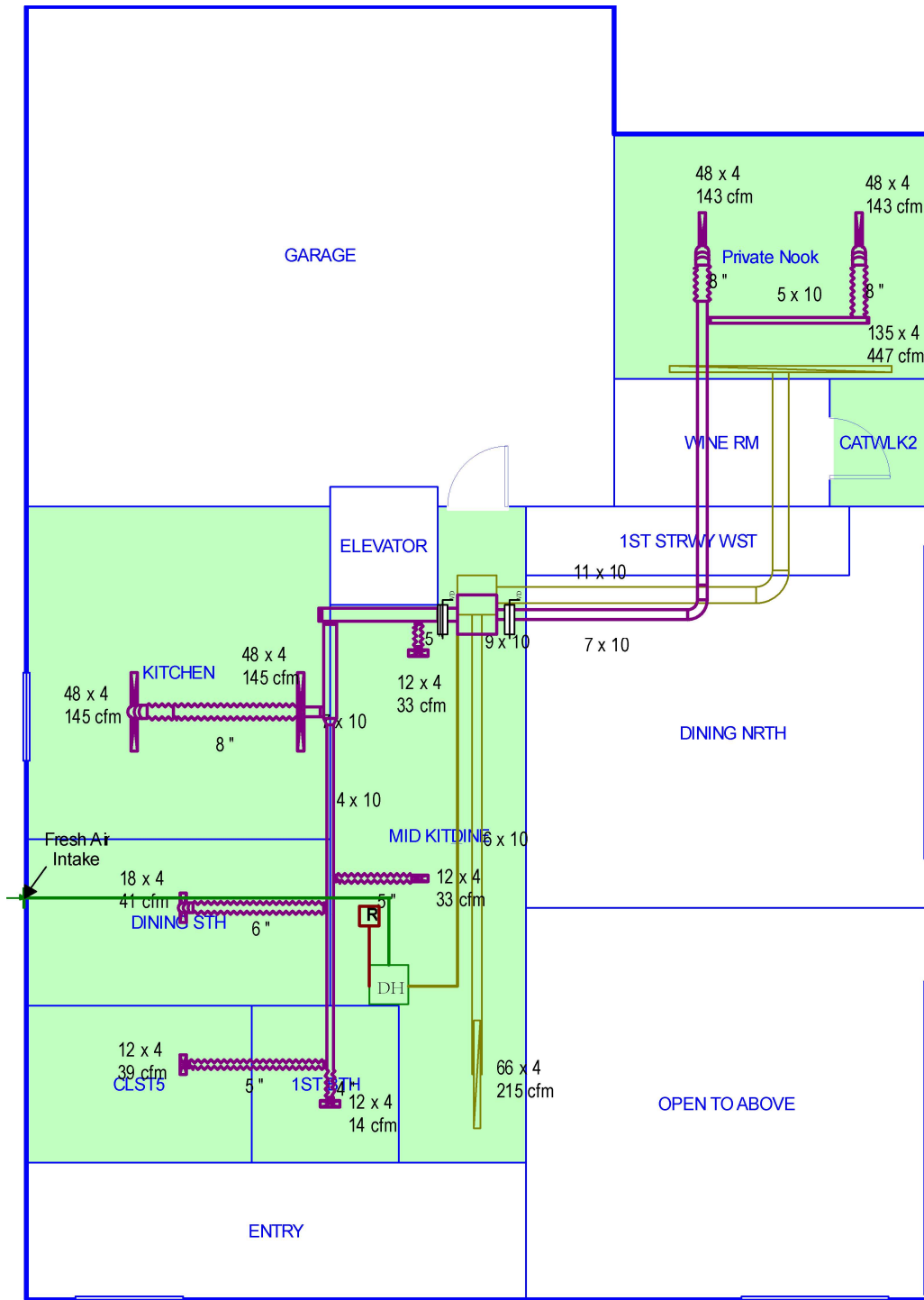
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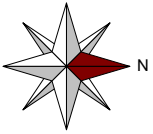
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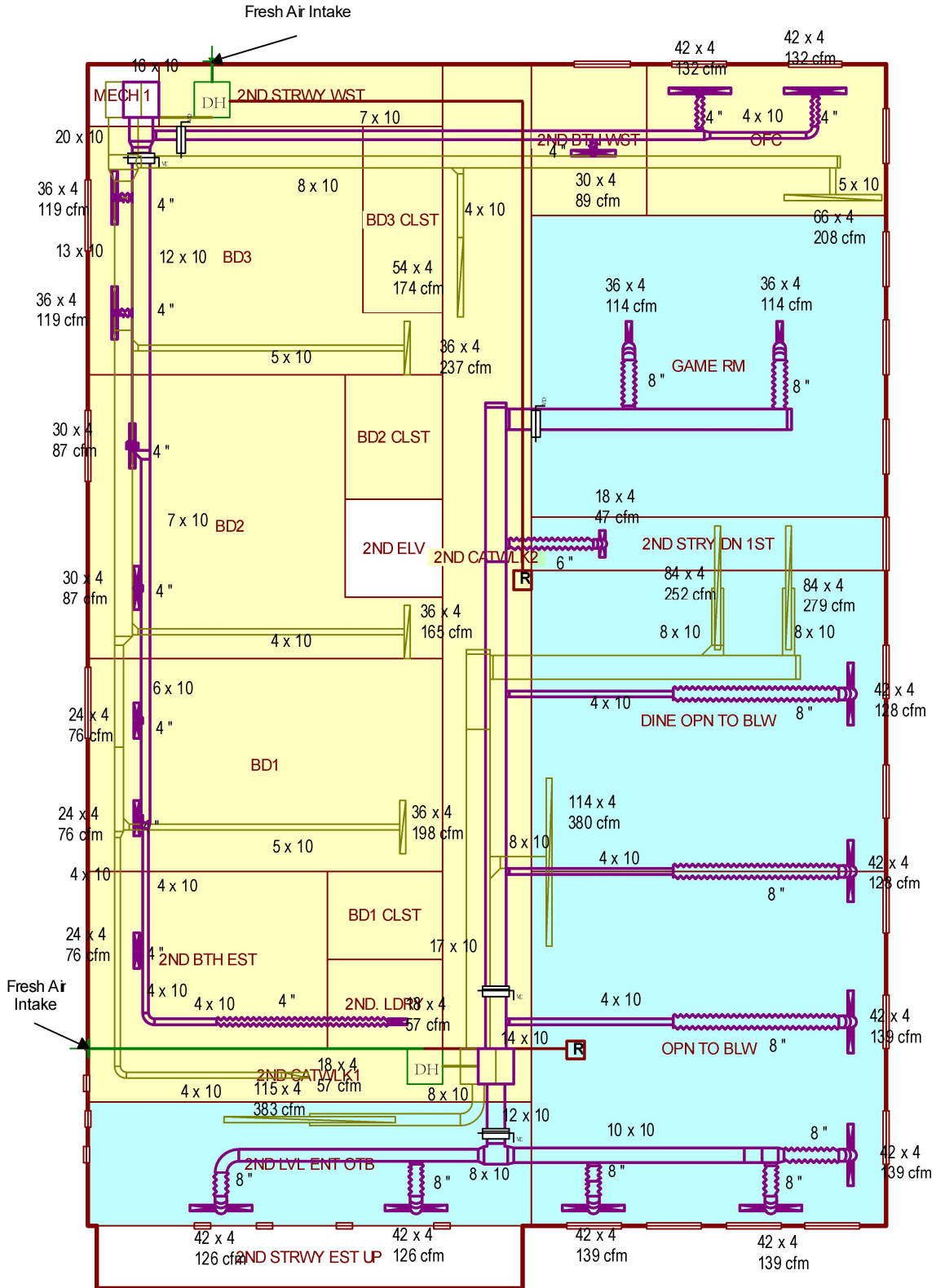
Job #: Sample
Performed by Oby for:
Sample Texas VRV Project
Sample Address
TX

Oby
Tempe, AZ 85281
Phone: 602-245-5273
www.heatload.net support@heatload.net

Scale: 1 : 106
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SECOND LEVEL



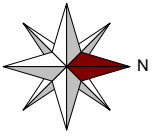
Job #: Sample
Performed by Oby for:
 Sample Texas VRV Project
 Sample Address
 TX

Oby

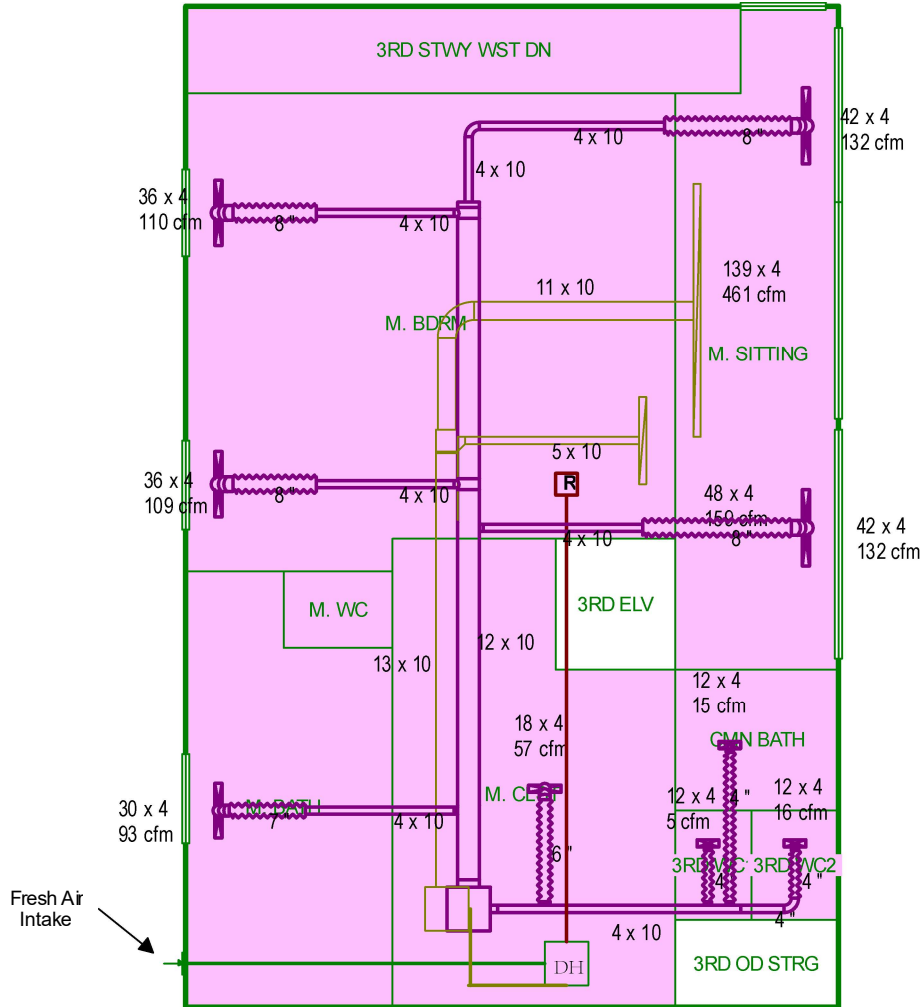
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THIRD LEVEL



Job #: Sample
Performed by Oby for:
 Sample Texas VRV Project
 Sample Address
 TX

Oby
 Tempe, AZ 85281
 Phone: 602-245-5273
 www.heatload.net support@heatload.net

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Duct System Summary

AH1 - FIRST LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
 Sample Address, TX

	Heating	Cooling
External static pressure	0.40 in H2O	0.40 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.22 in H2O	0.22 in H2O
Supply / return available pressure	0.153 / 0.067 in H2O	0.153 / 0.067 in H2O
Lowest friction rate	0.069 in/100ft	0.069 in/100ft
Actual air flow	618 cfm	618 cfm
Total effective length (TEL)		320 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
1ST BTH-A	c 278	0	14	0.070	4.0	0x0	VIFx	32.5	185.0	st27
CLST5	h 1058	39	11	0.069	5.0	0x0	VIFx	38.0	185.0	st27
DINING STH	h 1124	41	12	0.077	6.0	0x0	VIFx	30.0	170.0	st27
KITCHEN	c 2949	93	145	0.094	8.0	0x0	VIFx	22.5	140.0	st26
KITCHEN-A	c 2949	93	145	0.163	7.0	0x0	VIFx	14.0	80.0	st26
MID KIT&DINE	h 904	33	15	0.133	5.0	0x0	VIFx	5.0	110.0	st7
MID KIT&DINE-A	h 904	33	15	0.085	5.0	0x0	VIFx	25.5	155.0	st27
Private Nook	h 3934	143	131	0.091	8.0	0x0	VIFx	38.0	130.0	st25
Private Nook-A	h 3934	143	131	0.102	8.0	0x0	VIFx	30.0	120.0	st6

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st26	Peak AVF	186	290	0.094	596	8.8	10 x 7	ShtMetl	st7
st6	Peak AVF	286	261	0.091	589	8.8	10 x 7	ShtMetl	
st25	Peak AVF	143	131	0.091	412	6.8	10 x 5	ShtMetl	st6
st27	Peak AVF	112	52	0.069	404	6.6	10 x 4	ShtMetl	st7
st7	Peak AVF	332	357	0.069	571	10.1	10 x 9	ShtMetl	

Bold/italic values have been manually overridden



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	215	171	84.5	0.079	515	8.1	10x 6		ShMt	
rb6	0x0	403	447	97.0	0.069	586	11.0	10x 11		ShMt	



Duct System Summary

AH2 SECOND LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
 Sample Address, TX

	Heating	Cooling
External static pressure	0.75 in H2O	0.75 in H2O
Pressure losses	0.15 in H2O	0.15 in H2O
Available static pressure	0.60 in H2O	0.60 in H2O
Supply / return available pressure	0.295 / 0.305 in H2O	0.295 / 0.305 in H2O
Lowest friction rate	0.096 in/100ft	0.096 in/100ft
Actual air flow	950 cfm	950 cfm
Total effective length (TEL)	623 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
2ND BTH EST	h 1351	76	29	0.110	4.0	0x0	VIFx	48.5	220.0	st16B
2ND BTH WST	c 1796	78	89	0.192	4.0	0x0	VIFx	28.5	125.0	st15
2ND. LDYR	c 1144	19	57	0.096	4.0	0x0	VIFx	66.0	240.0	st17
BD1	c 1543	61	76	0.137	4.0	0x0	VIFx	35.5	180.0	st16A
BD1-A	c 1543	61	76	0.125	4.0	0x0	VIFx	41.0	195.0	st16A
BD2	h 1551	87	85	0.151	4.0	0x0	VIFx	20.0	175.0	st16
BD2-A	h 1551	87	85	0.153	4.0	0x0	VIFx	28.0	165.0	st16A
BD3	h 2110	119	95	0.192	4.0	0x0	VIFx	13.5	140.0	st16
BD3-A	h 2110	119	95	0.223	4.0	0x0	VIFx	7.0	125.0	st16
OFC-A	c 2664	122	132	0.146	4.0	0x0	VIFx	42.5	160.0	st15A
OFC-B	c 2664	122	132	0.167	4.0	0x0	VIFx	36.0	140.0	st15

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st17	Peak AVF	19	57	0.096	204	4.7	10 x 4	ShtMetl	st16C
st15	Peak AVF	322	352	0.146	724	8.6	10 x 7	ShtMetl	st3
st15A	Peak AVF	122	132	0.146	474	6.0	10 x 4	ShtMetl	st15
st3	Peak AVF	950	950	0.096	855	13.6	10 x 16	ShtMetl	
st16	Peak AVF	628	598	0.096	754	11.7	10 x 12	ShtMetl	st3
st16C	Peak AVF	19	57	0.096	204	4.7	10 x 4	ShtMetl	st16B
st16B	Peak AVF	95	86	0.096	342	5.8	10 x 4	ShtMetl	st16A
st16A	Peak AVF	304	323	0.096	664	9.1	10 x 7	ShtMetl	st16

Bold/italic values have been manually overridden



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
rb11	0x0	182	208	215.5	0.142	599	7.1	10x 5		ShMt	rt6
rb4	0x0	237	191	185.0	0.165	683	7.3	10x 5		ShMt	rt7
rb12	0x0	139	165	211.0	0.145	594	6.5	10x 4		ShMt	rt7
rb13	0x0	19	57	295.0	0.103	204	4.7	10x 4		ShMt	rt7B
rb14	0x0	174	169	199.0	0.153	628	6.6	10x 4		ShMt	rt6
rb15	0x0	198	161	317.0	0.096	569	7.6	10x 5		ShMt	rt7A

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt7	Peak AVF	593	573	0.096	657	11.4	10 x 13	ShtMetl	rt3
rt6	Peak AVF	357	377	0.142	679	8.9	10 x 8	ShtMetl	rt3
rt3	Peak AVF	950	950	0.096	684	13.6	10 x 20	ShtMetl	
rt7B	Peak AVF	19	57	0.103	204	4.7	10 x 4	ShtMetl	rt7A
rt7A	Peak AVF	217	217	0.096	521	7.8	10 x 6	ShtMetl	rt7



Duct System Summary

AH3 - THIRD LVL

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
 Sample Address, TX

	Heating	Cooling
External static pressure	0.40 in H2O	0.40 in H2O
Pressure losses	0.15 in H2O	0.15 in H2O
Available static pressure	0.25 in H2O	0.25 in H2O
Supply / return available pressure	0.164 / 0.086 in H2O	0.164 / 0.086 in H2O
Lowest friction rate	0.072 in/100ft	0.072 in/100ft
Actual air flow	615 cfm	615 cfm
Total effective length (TEL)		347 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
3RD WC1	h 168	5	3	0.119	4.0	0x0	VIFx	13.0	125.0	st5
3RD WC2	h 510	16	9	0.098	4.0	0x0	VIFx	17.0	150.0	st24
CMN BATH	h 487	15	9	0.104	4.0	0x0	VIFx	18.5	140.0	st5
M. BATH	h 3014	93	73	0.149	7.0	0x0	VIFx	15.0	95.0	st23
M. BDRM	c 2734	91	110	0.072	8.0	0x0	VIFx	42.5	185.0	st21
M. BDRM-A	c 2734	91	109	0.078	8.0	0x0	VIFx	30.0	180.0	st22
M. CLST	h 1840	57	38	0.139	6.0	0x0	VIFx	8.0	110.0	st5
M. SITTING	c 3290	123	132	0.099	8.0	0x0	VIFx	50.5	115.0	st20
M. SITTING-A	c 3290	123	132	0.129	8.0	0x0	VIFx	32.0	95.0	st18

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st18	Peak AVF	123	132	0.129	474	6.1	10 x 4	ShtMetl	st4
st4	Peak AVF	522	555	0.072	666	11.8	10 x 12	ShtMetl	
st23	Peak AVF	93	73	0.149	336	5.2	10 x 4	ShtMetl	st4
st22	Peak AVF	91	109	0.078	394	6.3	10 x 4	ShtMetl	st4
st19	Peak AVF	123	132	0.099	474	6.5	10 x 4	ShtMetl	st4
st21	Peak AVF	91	110	0.072	394	8.0	10 x 4	ShtMetl	st4
st20	Peak AVF	123	132	0.099	474	6.5	10 x 4	ShtMetl	st19
st5	Peak AVF	93	60	0.098	335	5.7	10 x 4	ShtMetl	
st24	Peak AVF	16	9	0.098	181	4.0	0 x 0	ShtMetl	st5

Bold/italic values have been manually overridden



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
rb16	0x0	159	154	110.5	0.078	458	7.3	10x 5		ShMt	rt4
rb17	0x0	456	461	119.0	0.072	604	11.0	10x 11		ShMt	rt4

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt4	Peak AVF	615	615	0.072	681	12.3	10 x 13	ShtMetl	



Duct System Summary

AH4 GAME DINING

Oby

Job: Sample
 Date: August Sample 2020
 By: Oby

Tempe, AZ 85281 Phone: 602-245-5273 Email: support@heatload.net Web: www.heatload.net

Project Information

For: Sample Texas VRV Project
 Sample Address, TX

	Heating	Cooling
External static pressure	0.40 in H2O	0.40 in H2O
Pressure losses	0.15 in H2O	0.15 in H2O
Available static pressure	0.25 in H2O	0.25 in H2O
Supply / return available pressure	0.142 / 0.108 in H2O	0.142 / 0.108 in H2O
Lowest friction rate	0.057 in/100ft	0.057 in/100ft
Actual air flow	1165 cfm	1165 cfm
Total effective length (TEL)		442 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
2ND LVL ENT OTB	h 3832	126	80	0.090	8.0	0x0	VIFx	23.5	135.0	st8
2ND LVL ENT OTB-A	h 3832	126	80	0.103	8.0	0x0	VIFx	12.5	125.0	st8
2ND STRY DN 1ST-A	h 1442	47	23	0.075	6.0	0x0	VIFx	35.5	155.0	st2
DINE OPN TO BLW	h 3873	128	97	0.091	8.0	0x0	VIFx	31.0	125.0	st13
DINE OPN TO BLW-A	h 3873	128	97	0.079	8.0	0x0	VIFx	41.0	140.0	st14
GAME RM	c 3120	50	114	0.057	8.0	0x0	VIFx	56.5	195.0	st2
GAME RM-A	c 3120	50	114	0.061	8.0	0x0	VIFx	48.0	185.0	st2
OPN TO BLW	c 3806	128	139	0.087	8.0	0x0	VIFx	23.5	140.0	st9
OPN TO BLW-A	c 3805	128	139	0.086	8.0	0x0	VIFx	25.0	140.0	st9
OPN TO BLW-B	c 3805	128	139	0.107	8.0	0x0	VIFx	22.5	110.0	st12
OPN TO BLW-C	c 3805	128	139	0.103	8.0	0x0	VIFx	13.5	125.0	st9

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st13	Peak AVF	128	97	0.091	459	6.5	10 x 4	ShtMetl	st2
st12	Peak AVF	128	139	0.107	502	6.5	10 x 4	ShtMetl	st2
st14	Peak AVF	128	97	0.079	459	6.7	10 x 4	ShtMetl	st2
st2	Peak AVF	530	586	0.057	603	12.6	10 x 14	ShtMetl	
st9	Peak AVF	383	418	0.086	602	10.2	10 x 10	ShtMetl	st1
st8	Peak AVF	252	161	0.090	454	8.4	10 x 8	ShtMetl	st1
st1	Peak AVF	635	579	0.086	762	12.0	10 x 12	ShtMetl	

Bold/italic values have been manually overridden



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
rb10	0x0	255	279	179.5	0.060	502	9.5	10x 8		ShMt	rt1
rb5	0x0	147	252	190.5	0.057	453	9.2	10x 8		ShMt	rt1
rb8	0x0	383	376	82.5	0.131	689	9.1	10x 8		ShMt	
rb9	0x0	380	258	110.5	0.098	684	9.6	10x 8		ShMt	rt1

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1	Peak AVF	782	789	0.057	668	14.1	10 x 17	ShtMetl	

