SAMPLE - Loadpol demo project, fictitious address. Not for permit use.

MiTek WRIGHTSOFT

Project Summary
Entire House

Job: LP-SAMPLE-0001
Date: Nov 12, 2026
By: Loadpol

Project Information

For: Sample Home, Loadpol Sample
100 Sample Lane, Austin, TX 78701

Notes: SAMPLE - for illustration only, not for permit use.

Design Information

Weather: Austin, Bergstrom IAP, TX, US

Winter Design Conditions

Outside db	30	°F
Inside db	70	°F
Design TD	40	°F
Ventilation Method	ASHRAE 62.2-2010	

Summer Design Conditions

Outside db	98	°F
Inside db	75	°F
Design TD	23	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	30	gr/lb

Heating Summary

Structure	25033	Btuh
Ducts (R-8.0)	3348	Btuh
Central vent (SER=50% 52 cfm)	1115	Btuh
Energy recovery		
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	29496	Btuh

Sensible Cooling Equipment Load Sizing

Structure	15661	Btuh
Ducts (R-8.0)	3832	Btuh
Central vent (SER=50% 52 cfm)	641	Btuh
Energy recovery		
Blower	0	Btuh
Use manufacturer's data	y	
Rate/swing multiplier	1.00	
Equipment sensible load	20134	Btuh

Infiltration

Method	Blower door
Shielding / stories	3 (partial) / 2
Pressure /ACH /AVF	50 Pa / 5.0 / 1620 cfm

	Heating	Cooling
Area (ft²)	2160	2160
Volume (ft³)	19440	19440
Air changes/hour	0.48	0.30
Equiv. AVF (cfm)	156	96

Latent Cooling Equipment Load Sizing

Structure	2747	Btuh
Ducts	482	Btuh
Central vent (LER=50% 52 cfm)	525	Btuh
Energy recovery		
Equipment latent load	3755	Btuh
Equipment Total Load (Sen+Lat)	23889	Btuh
Req. total capacity at 0.70 SHR	2.4	ton

Heating Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN
Model	GLZS4BA3010A
AHRI ref	215884104

Efficiency	7.8 HSPF2	
Heating input		
Heating output	27800	Btuh @ 47°F
Temperature rise	29	°F
Actual air flow	875	cfm
Air flow factor	0.031	cfm/Btuh
Static pressure	0.50	in H2O
Space thermostat		

Capacity balance point = 33 °F

Backup: Goodman Mfg. Electric heat kit HKSX05XC
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

Cooling Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN
Cond	GLZS4BA3010A
Coil	AMVT42CP1300A
AHRI ref	215884104

Efficiency	12.0 EER2,15.2 SEER2	
Sensible cooling	19880	Btuh
Latent cooling	8520	Btuh
Total cooling	28400	Btuh
Actual air flow	875	cfm
Air flow factor	0.045	cfm/Btuh
Static pressure	0.50	in H2O
Load sensible heat ratio	0.84	

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AED Assessment
Entire House

Job: LP-SAMPLE-0001
Date: Nov 12, 2026
By: Loadpol

Project Information

For: Sample Home, Loadpol Sample
100 Sample Lane, Austin, TX 78701

Design Conditions

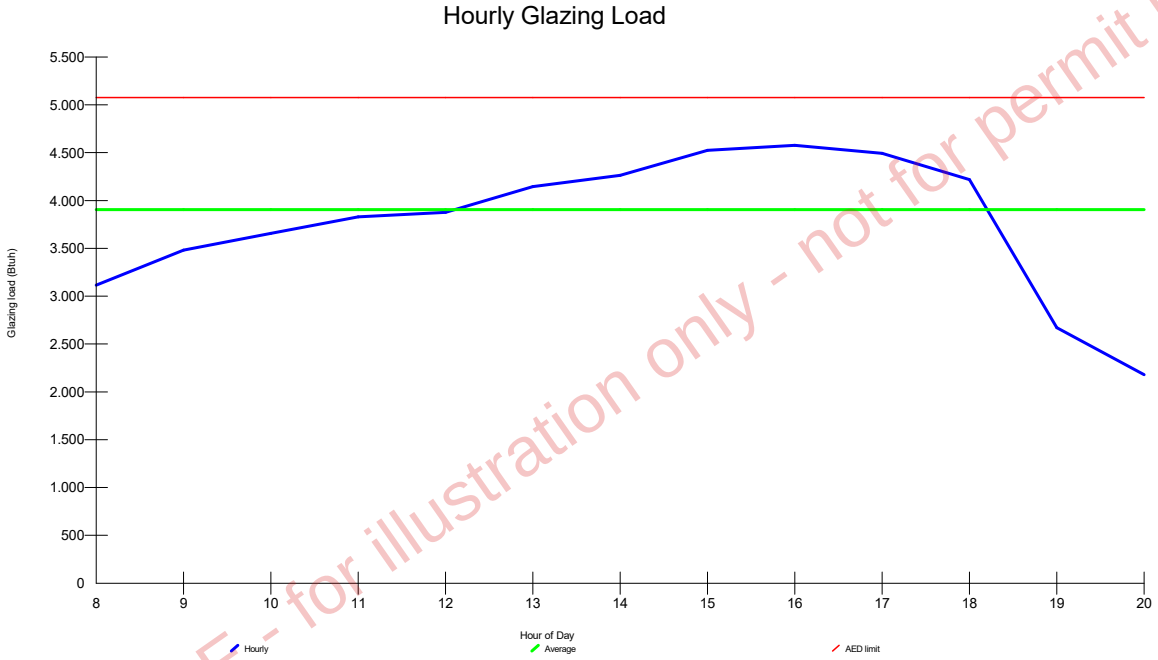
Location:
Austin, Bergstrom IAP, TX, US
Elevation: 495 ft
Latitude: 30°N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	30	98
Daily range (°F)	-	20 (M)
Wet bulb (°F)	-	75
Wind speed (mph)	15.0	7.5

Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	40	23
Relative humidity (%)	50	50
Moisture difference (gr/lb)	36.0	30.5

Infiltration:

Test for Adequate Exposure Diversity



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Maximum hourly glazing load exceeds average by 17.2%.

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

AED excursion: 0 Btuh

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MiTek WRIGHTSOFT

Right-J® Worksheet
Entire House

Job: LP-SAMPLE-0001
Date: Nov 12, 2026
By: Loadpol

1	Room name					Entire House				Living Room				
2	Exposed wall					268.0 ft				35.0 ft				
3	Room height					9.0 ft				9.0 ft		heat/cool		
4	Room dimensions									20.0 x 15.0 ft				
5	Room area					2160.0 ft²				300.0 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	12C-0sw	0.091	n	3.64	2.68	720	636	2315	1707	180	156	568	419
.	G	NFRC U-0.30 SHGC-0.2	0.300	n	12.00	10.84	84	0	1008	911	24	0	288	260
.	W	12C-0sw	0.091	e	3.64	2.68	486	429	1562	1152	0	0	0	0
.	G	NFRC U-0.30 SHGC-0.2	0.300	e	12.00	27.81	36	0	432	1001	0	0	0	0
11	D	11D0	0.390	e	15.60	13.45	21	21	328	283	0	0	0	0
	W	12C-0sw	0.091	s	3.64	2.68	720	639	2326	1715	0	0	0	0
	G	NFRC U-0.30 SHGC-0.2	0.300	s	12.00	10.84	60	60	720	651	0	0	0	0
	D	11D0	0.390	s	15.60	13.45	21	21	328	283	0	0	0	0
	W	12C-0sw	0.091	w	3.64	2.68	486	450	1638	1208	135	123	448	330
	G	NFRC U-0.30 SHGC-0.2	0.300	w	12.00	27.81	36	0	432	1001	12	0	144	334
	C	16B-50ad	0.020	-	0.80	1.16	1080	1080	864	1253	0	0	0	0
	F	22A-tpm	1.180	-	47.20	0.00	1080	134	6325	0	300	35	1652	0
6	c) AED excursion									0				25
	Envelope loss/gain								18277	11164			3100	1368
12	a) Infiltration								6757	2376			882	310
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					4			920	2			460
		Appliances/other								1200				0
	Subtotal (lines 6 to 13)								25033	15661			3982	2139
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								25033	15661			3982	2139
15	Duct loads						13%	24%	3348	3832	13%	24%	532	523
	Total room load								28381	19492			4514	2662
	Air required (cfm)								875	875			139	119

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MiTek WRIGHTSOFT

Right-J® Worksheet
Entire House

Job: LP-SAMPLE-0001
Date: Nov 12, 2026
By: Loadpol

1	Room name					Kitchen-Dining						Study			
2	Exposed wall					35.0 ft						24.0 ft			
3	Room height					9.0 ft			heat/cool			9.0 ft			heat/cool
4	Room dimensions					20.0 x 15.0 ft						12.0 x 12.0 ft			
5	Room area					300.0 ft²						144.0 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	12C-0sw	0.091	n	3.64	2.68	180	168	612	451	0	0	0	0
.	G	NFRC U-0.30 SHGC-0.2	0.300	n	12.00	10.84	12	0	144	130	0	0	0	0
.	W	12C-0sw	0.091	e	3.64	2.68	135	111	404	298	0	0	0	0
.	G	NFRC U-0.30 SHGC-0.2	0.300	e	12.00	27.81	24	0	288	667	0	0	0	0
11	D	11D0	0.390	e	15.60	13.45	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	3.64	2.68	0	0	0	0	108	108	393	290
	G	NFRC U-0.30 SHGC-0.2	0.300	s	12.00	10.84	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	15.60	13.45	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.64	2.68	0	0	0	0	108	96	349	258
	G	NFRC U-0.30 SHGC-0.2	0.300	w	12.00	27.81	0	0	0	0	12	0	144	334
	C	16B-50ad	0.020	-	0.80	1.16	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.20	0.00	300	35	1652	0	144	24	1133	0
6	c) AED excursion									-2				131
	Envelope loss/gain								3100	1545			2019	1013
12	a) Infiltration								882	310			605	213
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @	230				2			460	0			0
		Appliances/other								1200				0
	Subtotal (lines 6 to 13)								3982	3515			2624	1225
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3982	3515			2624	1225
15	Duct loads						13%	24%	532	860	13%	24%	351	300
	Total room load								4514	4375			2975	1525
	Air required (cfm)								139	196			92	68

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MiTek WRIGHTSOFT

Right-J® Worksheet
Entire House

Job: LP-SAMPLE-0001
Date: Nov 12, 2026
By: Loadpol

1	Room name					Laundry						Foyer-Stairs			
2	Exposed wall					24.0 ft						16.0 ft			
3	Room height					9.0 ft			heat/cool			9.0 ft			heat/cool
4	Room dimensions					12.0 x 12.0 ft						16.0 x 12.0 ft			
5	Room area					144.0 ft²						192.0 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	12C-0sw	0.091	n	3.64	2.68	0	0	0	0	0	0	0	0
.	G	NFRC U-0.30 SHGC-0.2	0.300	n	12.00	10.84	0	0	0	0	0	0	0	0
.	W	12C-0sw	0.091	e	3.64	2.68	108	87	317	234	0	0	0	0
.	G	NFRC U-0.30 SHGC-0.2	0.300	e	12.00	27.81	0	0	0	0	0	0	0	0
11	D	11D0	0.390	e	15.60	13.45	21	21	328	283	0	0	0	0
	W	12C-0sw	0.091	s	3.64	2.68	108	96	349	258	144	111	404	298
	G	NFRC U-0.30 SHGC-0.2	0.300	s	12.00	10.84	12	12	144	130	12	12	144	130
	D	11D0	0.390	s	15.60	13.45	0	0	0	0	21	21	328	283
	W	12C-0sw	0.091	w	3.64	2.68	0	0	0	0	0	0	0	0
	G	NFRC U-0.30 SHGC-0.2	0.300	w	12.00	27.81	0	0	0	0	0	0	0	0
	C	16B-50ad	0.020	-	0.80	1.16	0	0	0	0	0	0	0	0
	F	22A-tpm	1.180	-	47.20	0.00	144	24	1133	0	192	16	755	0
6	c) AED excursion									-32				-22
	Envelope loss/gain								2271	872			1631	689
12	a) Infiltration								605	213			403	142
	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)								2876	1085			2034	831
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2876	1085			2034	831
15	Duct loads						13%	24%	385	265	13%	24%	272	203
	Total room load								3260	1350			2306	1034
	Air required (cfm)								101	61			71	46

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Right-J® Worksheet
Entire House

Job: LP-SAMPLE-0001
Date: Nov 12, 2026
By: Loadpol

		Master Bedroom	Master Bath
1	Room name		
2	Exposed wall	31.0 ft	28.0 ft
3	Room height	9.0 ft heat/cool	9.0 ft heat/cool
4	Room dimensions	16.0 x 15.0 ft	16.0 x 12.0 ft
5	Room area	240.0 ft²	192.0 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	12C-0sw	0.091	n	3.64	2.68	144	120	437	322	0	0	0	0
.	└G	NFRC U-0.30 SHGC-0.2	0.300	n	12.00	10.84	24	0	288	260	0	0	0	0
.	W	12C-0sw	0.091	e	3.64	2.68	0	0	0	0	0	0	0	0
.	└G	NFRC U-0.30 SHGC-0.2	0.300	e	12.00	27.81	0	0	0	0	0	0	0	0
11	└D	11D0	0.390	e	15.60	13.45	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	3.64	2.68	0	0	0	0	144	132	480	354
	└G	NFRC U-0.30 SHGC-0.2	0.300	s	12.00	10.84	0	0	0	0	12	12	144	130
	└D	11D0	0.390	s	15.60	13.45	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.64	2.68	135	123	448	330	108	108	393	290
	└G	NFRC U-0.30 SHGC-0.2	0.300	w	12.00	27.81	12	0	144	334	0	0	0	0
	C	16B-50ad	0.020	-	0.80	1.16	240	240	192	278	192	192	154	223
	F	22A-tpm	1.180	-	47.20	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									37				-37
	Envelope loss/gain								1509	1562			1171	960
12	a) Infiltration								782	275			706	248
	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)								2290	1837			1877	1208
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2290	1837			1877	1208
15	Duct loads						13%	24%	306	449	13%	24%	251	296
	Total room load								2596	2286			2128	1504
	Air required (cfm)								80	103			66	68

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MiTek WRIGHTSOFT

Right-J® Worksheet
Entire House

Job: LP-SAMPLE-0001
Date: Nov 12, 2026
By: Loadpol

1	Room name					Bedroom 2						Bedroom 3			
2	Exposed wall					12.0 ft						25.0 ft			
3	Room height					9.0 ft			heat/cool			9.0 ft			heat/cool
4	Room dimensions					12.0 x 13.0 ft						12.0 x 13.0 ft			
5	Room area					156.0 ft²						156.0 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	12C-0sw	0.091	n	3.64	2.68	108	96	349	258	108	96	349	258
.	└G	NFRC U-0.30 SHGC-0.2	0.300	n	12.00	10.84	12	0	144	130	12	0	144	130
.	W	12C-0sw	0.091	e	3.64	2.68	0	0	0	0	117	105	382	282
.	└G	NFRC U-0.30 SHGC-0.2	0.300	e	12.00	27.81	0	0	0	0	12	0	144	334
11	└D	11D0	0.390	e	15.60	13.45	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	3.64	2.68	0	0	0	0	0	0	0	0
	└G	NFRC U-0.30 SHGC-0.2	0.300	s	12.00	10.84	0	0	0	0	0	0	0	0
	└D	11D0	0.390	s	15.60	13.45	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.64	2.68	0	0	0	0	0	0	0	0
	└G	NFRC U-0.30 SHGC-0.2	0.300	w	12.00	27.81	0	0	0	0	0	0	0	0
	C	16B-50ad	0.020	-	0.80	1.16	156	156	125	181	156	156	125	181
	F	22A-tpm	1.180	-	47.20	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									-26				-26
	Envelope loss/gain								618	543			1144	1158
12	a) Infiltration								303	106			630	222
	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)								921	649			1775	1380
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								921	649			1775	1380
15	Duct loads						13%	24%	123	159	13%	24%	237	338
	Total room load								1044	808			2012	1718
	Air required (cfm)								32	36			62	77

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MiTek WRIGHTSOFT

Right-J® Worksheet
Entire House

Job: LP-SAMPLE-0001
Date: Nov 12, 2026
By: Loadpol

1	Room name					Upstairs Hall						Bath 2			
2	Exposed wall					12.0 ft						26.0 ft			
3	Room height					9.0 ft			heat/cool			9.0 ft			heat/cool
4	Room dimensions					12.0 x 14.0 ft						12.0 x 14.0 ft			
5	Room area					168.0 ft²						168.0 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	12C-0sw	0.091	n	3.64	2.68	0	0	0	0	0	0	0	0
.	G	NFRC U-0.30 SHGC-0.2	0.300	n	12.00	10.84	0	0	0	0	0	0	0	0
.	W	12C-0sw	0.091	e	3.64	2.68	0	0	0	0	126	126	459	338
.	G	NFRC U-0.30 SHGC-0.2	0.300	e	12.00	27.81	0	0	0	0	0	0	0	0
11	D	11D0	0.390	e	15.60	13.45	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	3.64	2.68	108	96	349	258	108	96	349	258
	G	NFRC U-0.30 SHGC-0.2	0.300	s	12.00	10.84	12	12	144	130	12	12	144	130
	D	11D0	0.390	s	15.60	13.45	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.64	2.68	0	0	0	0	0	0	0	0
	G	NFRC U-0.30 SHGC-0.2	0.300	w	12.00	27.81	0	0	0	0	0	0	0	0
	C	16B-50ad	0.020	-	0.80	1.16	168	168	134	195	168	168	134	195
	F	22A-tpm	1.180	-	47.20	0.00	0	0	0	0	0	0	0	0
6	c) AED excursion									-15				-33
	Envelope loss/gain								628	567			1086	888
12	a) Infiltration								303	106			656	231
	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)								930	674			1742	1118
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								930	674			1742	1118
15	Duct loads						13%	24%	124	165	13%	24%	233	274
	Total room load								1055	839			1975	1392
	Air required (cfm)								33	38			61	62

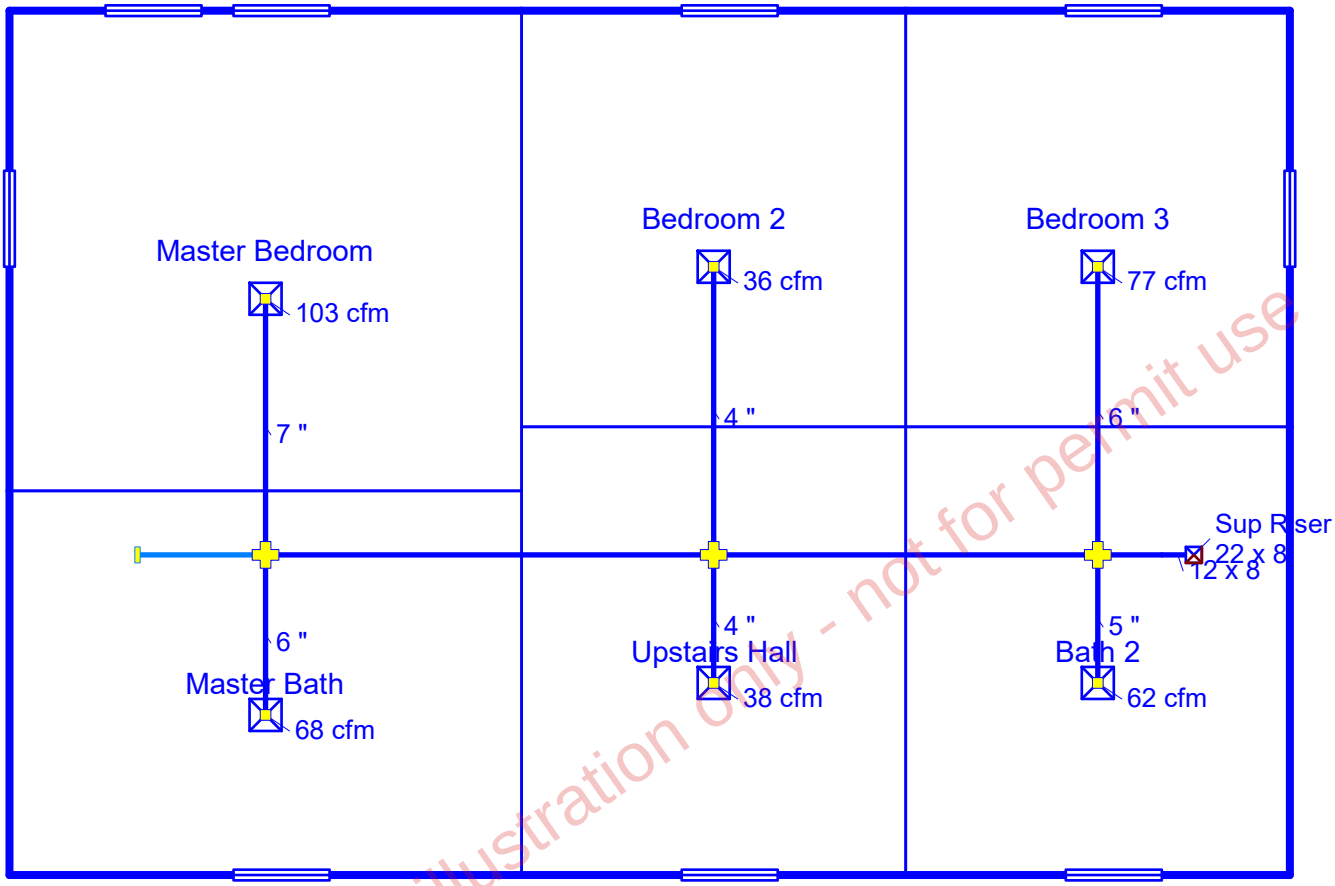
SAMPLE - for illustration only - not for permit use

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

SAMPLE - Loadpol demo project, fictitious address. Not for permit use.



Level 2



SAMPLE - for illustration only - not for permit use

Job #: LP-SAMPLE-0001
Performed by Loadpol for:
Sample Home
100 Sample Lane
Austin, TX 78701

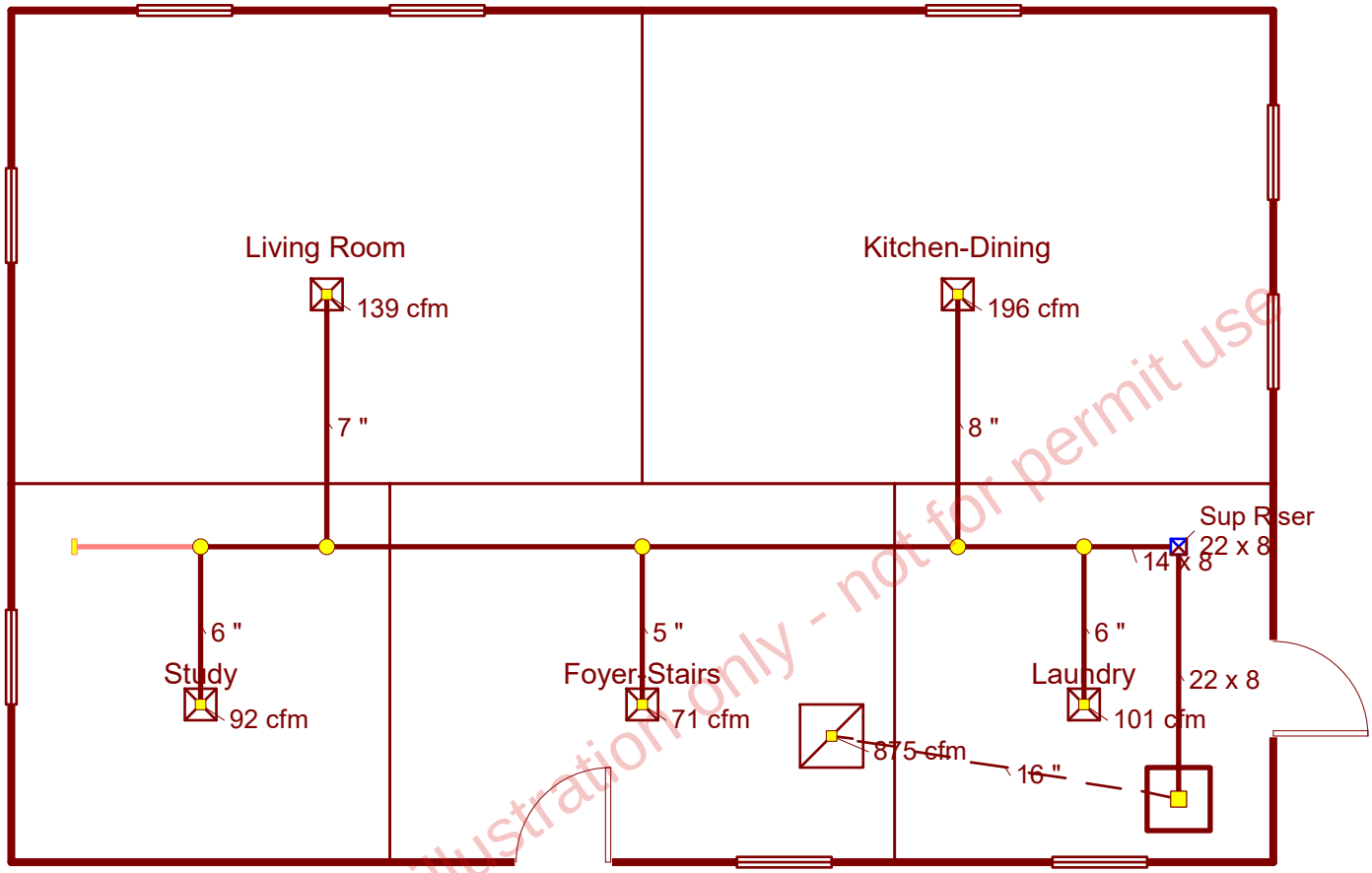
Scale: 1 : 72

Right-Suite® Universal 2026
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SAMPLE - Loadpol demo project, fictitious address. Not for permit use.



Level 1



SAMPLE - for illustration only - not for permit use

Job #: LP-SAMPLE-0001
Performed by Loadpol for:
Sample Home
100 Sample Lane
Austin, TX 78701

Scale: 1 : 72

Right-Suite® Universal 2026
26.0.04 RSU40498
2026-Nov-12 16:35:14
...ightsoft HVAC\LP-SAMPLE-0001.rup

SAMPLE - Loadpol demo project, fictitious address. Not for permit use.

Duct System Summary
Entire House

Job: LP-SAMPLE-0001
Date: Nov 12, 2026
By: Loadpol

Project Information

For: Sample Home, Loadpol Sample
100 Sample Lane, Austin, TX 78701

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.16 in H2O	0.16 in H2O
Available static pressure	0.34 in H2O	0.34 in H2O
Supply / return available pressure	0.292 / 0.048 in H2O	0.292 / 0.048 in H2O
Lowest friction rate	0.068 in/100ft	0.068 in/100ft
Actual air flow	875 cfm	875 cfm
Total effective length (TEL)	500 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	c	1392	61	62	0.108	5.0	0x 0	ShMt	24.0	245.0	st2
Bedroom 2	c	808	32	36	0.083	4.0	0x 0	ShMt	41.0	310.0	st2
Bedroom 3	c	1718	62	77	0.106	6.0	0x 0	ShMt	29.0	245.0	st2
Foyer-Stairs	h	2306	71	46	0.096	5.0	0x 0	ShMt	39.0	265.0	st3
Kitchen-Dining	c	4375	139	196	0.095	8.0	0x 0	ShMt	32.0	275.0	st3
Laundry	h	3260	101	61	0.096	6.0	0x 0	ShMt	25.0	280.0	st3
Living Room	h	4514	139	119	0.095	7.0	0x 0	ShMt	52.0	255.0	st3
Master Bath	c	1504	66	68	0.068	6.0	0x 0	ShMt	51.0	375.0	st2
Master Bedroom	c	2286	80	103	0.068	7.0	0x 0	ShMt	54.0	375.0	st2
Study	h	2975	92	68	0.098	6.0	0x 0	ShMt	53.0	245.0	st3
Upstairs Hall	c	839	33	38	0.084	4.0	0x 0	ShMt	36.0	310.0	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
st2	Peak AVF	333	384	0.068	575	10.4	8 x 12	ShtMetl	st1
st3	Peak AVF	542	491	0.095	696	11.1	8 x 14	ShtMetl	st1
st1	Peak AVF	875	875	0.068	716	14.2	8 x 22	ShtMetl	

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SAMPLE - Loadpol demo project, fictitious address. Not for permit use.

Return Branch Detail Table

Name	Min 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	0x 0	875	875	71.2	0.068	627	16.0	0x 0		ShMt	

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