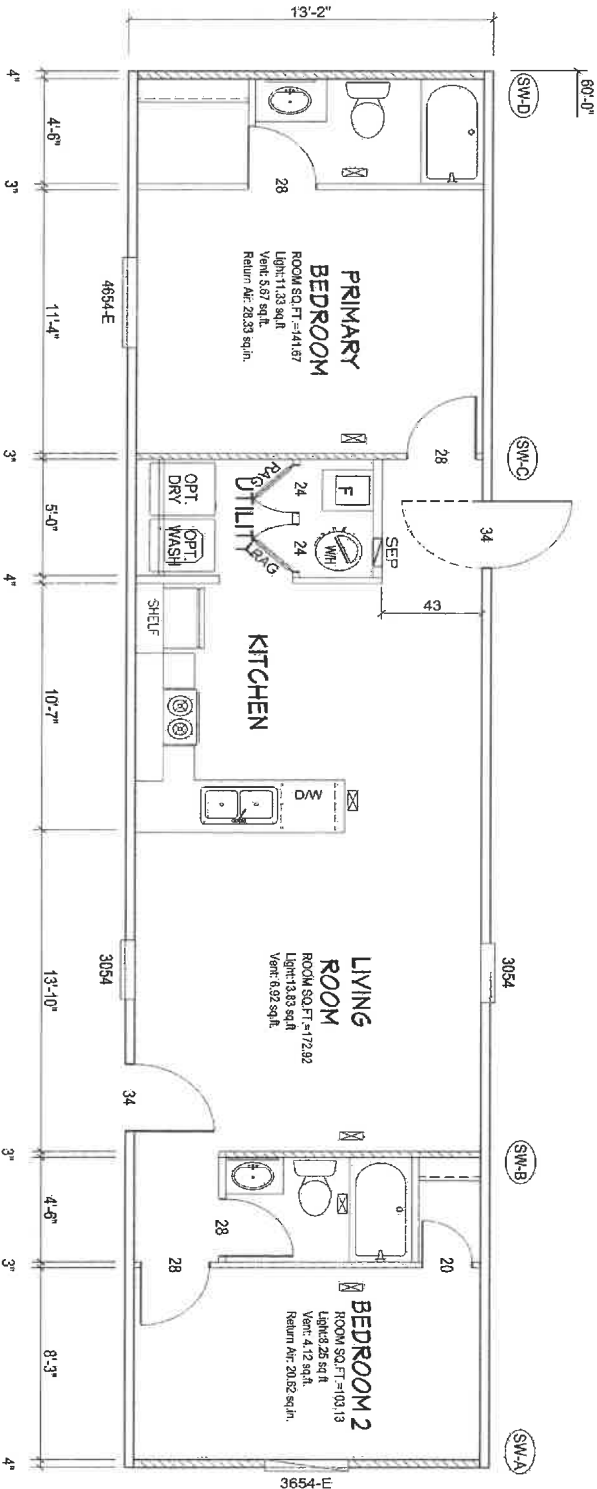




REVISION	DATE

MODEL NAME	NEED NAME
MODEL NO.	TR14602"?"
BOX SIZE	14' x 60'
MODEL SQ. FT.	790

SHEET NO.	FP-1
SHEET NAME	FLOOR PLAN
DATE PRINTED	1/17/2025
SCALE	3/16"=1'
PLAN NO.	TRU-1460-22-1
DRAWN BY	Jeremy Huiting
DATE DRAWN	2/9/2024



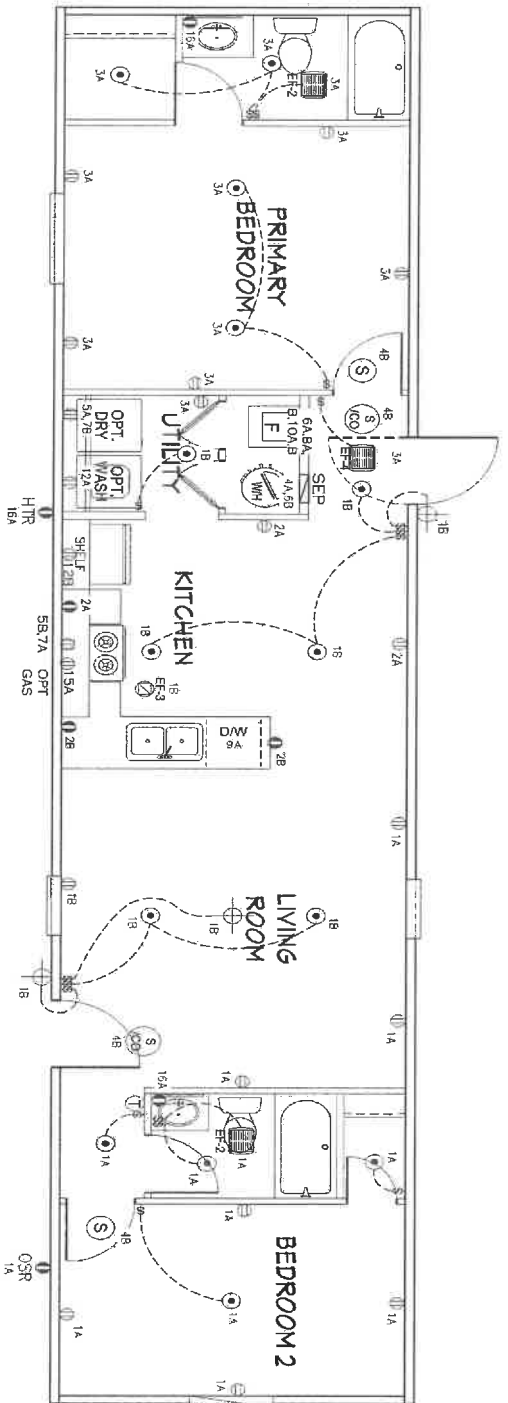
Version R13.20

WINE Zone 1 Standard Pool				
Clearspan Construction	117'0" Clearspan	24" SPT 5000	12" SPT 5000	12" SPT 5000
Shorewall Dist / Hnd	Length	PLY	# of Joists	Notes
A	0' - 108' - 210'	2	2	SW / SW2
B	13' - 48' - 104' - 415'	3	3	SW / SW2
C	43' - 48' - 112' - 210'	2	2	SW / SW2
D	60' - 88' - 210'	2	2	SW / SW2

WINE Zone 2 Standard Pool				
Clearspan Construction	117'0" Clearspan	24" SPT 5000	12" SPT 5000	12" SPT 5000
Shorewall Dist / Hnd	Length	PLY	# of Joists	Notes
A	0' - 108' - 210'	2	2	SW / SW2
B	13' - 48' - 104' - 415'	3	3	SW / SW2
C	43' - 48' - 112' - 210'	2	2	SW / SW2
D	60' - 88' - 210'	2	2	SW / SW2

MP-14-TRU-1460-22-1.1





NOTES:

1. ALL CIRCUITS SHOWN ARE FOR REFERENCE AND MAY BE CHANGED BASED ON OPTIONAL COMPONENTS INSTALLED IN THE HOME.
2. REFER TO DATA MANUAL FOR SYMBOL CHART.
3. EITHER LIGHT OR RECEPTACLE MUST CONNECT TO SWITCH.
4. EF-1-30 CPM EXHAUST FAN REQUIRED FOR THERMAL ZONE III (THERMAL ZONE III MUST USE FAN ON WINDOW WITH S.D. 11).
5. EF-2-30 CPM EXHAUST FAN REQUIRED THERMAL ZONE I, II, AND III.
6. EF-3-100 CPM RANGE EXHAUST FAN, SWITCH AT HOOD.
7. EF-4-100 CPM WHOLE HOUSE VENTILATION REQUIREMENTS PER DATA MANUAL.
8. REFER TO DATA MANUAL OR THE A.M.C. INSTALLATION INSTRUCTIONS FOR PROPER WIRE SIZE AND BREAKER SIZE FOR SPECIFIC APPLIANCE AND MODEL BEING INSTALLED.
9. ALL SMOKE ALARMS TO BE LOCATED ON THE CEILING.
10. CARBON MONOXIDE ALARMS ARE ONLY REQUIRED WHEN HOME HAS EITHER FUEL-BURNING APPLIANCES, IS GARAGE READY OR IS BASEMENT READY. REFERENCE DATA MANUAL FOR ADDITIONAL INFORMATION.
11. DIMENSIONS SHOWN ON PRINT ARE APPROXIMATE AND TO BE USED ONLY AS A GUIDE LINE.

CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER	CIRCUIT	CIRCUIT #	WIRE	BREAKER
LIGHT RECP	1A, 3A, 13B, 14A	14-2	15-SP	DRYER	5A, 7B	SEE NOTE #8		BATHROOM	1 G, A	12-2	20-SP
LIGHT RECP	1B, 3B, 14B	14-2	15-SP	WATER HEATER	4A, 6B	SEE NOTE #8		OPT GDISP	9B	SEE NOTE #8	
KITCHEN	2A, 2B	12-2	20-SP	RANGE	5B, 7A	SEE NOTE #8		OPT SPV WPLAC	11A, B	SEE NOTE #8	
WASHER	12A	12-2	20-SP	FURNACE	6A, 6A, B, 10A, B	SEE NOTE #8		FREEZER	1 J, A	SEE NOTE #8	
RANG HOOD/ MICROVAE	15B	SEE NOTE #8		OPT DWASH	9A	SEE NOTE #8		FREEZER	1 J, A	SEE NOTE #8	
OPT. GAS RANG	15A	SEE NOTE #8		SMOKED DET.	4B	SEE NOTE #8		OPT ELEC FIREPLACE	1 G, B	SEE NOTE #8	
				REFER	12B	SEE NOTE #8					

MP-14-TRU-1460-22-1.2

APPROVED BY

1/13/2025

NPI INC.

FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS

DATE PRINTED 1/13/2025

SCALE 3/16"=1'

DATE DRAWN 2/9/2024

DATE DRAWN 2/9/2024

DATE DRAWN 2/9/2024

DATE DRAWN 2/9/2024

DATE DRAWN 2/9/2024

DATE DRAWN 2/9/2024

DATE DRAWN 2/9/2024

DATE DRAWN 2/9/2024

REVISION

DATE

Clayton.

Built

MODEL NAME

NEED NAME

MODEL NO.

TRS14602"?"

BOX SIZE

14' x 60'

MODEL SQ. FT.

790

DRAWN BY

Jeremy Hulting

DATE DRAWN

2/9/2024

DATE PRINTED

1/13/2025

SCALE

3/16"=1'

DATE DRAWN

2/9/2024

DATE DRAWN

DATE DRAWN

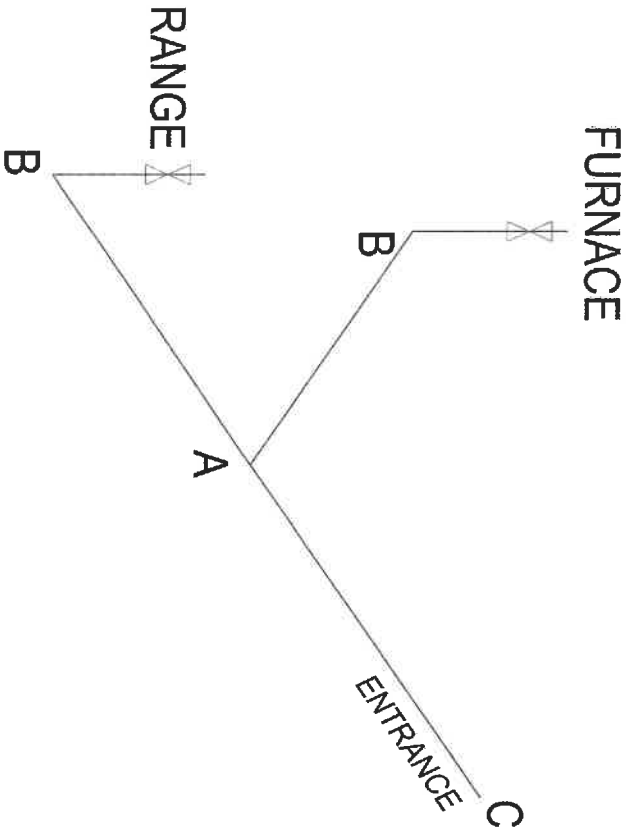
DATE DRAWN

DATE DRAWN

DATE DRAWN


$$\begin{aligned} &= 3^{10} \\ &= 2^{31} \\ &= 1/2^n \end{aligned}$$

LEGEND		APPLIANCE BTU's RATINGS MAX. INPUT		GAS LINE SIZE CHART	
SYM	FITTINGS				
A	TEE	FURNACE	60,000 BTU's		
B	90° EL	W/H RANGE	N/A BTU's		
Σ	VALVE	DRYER	52,000 BTU's		
C	CAP		N/A BTU's		



NOTES:
 ALL PIPE IS 3/4" I.D. CAST
 (EXCEPT WHERE NOTED OTHERWISE)
 MDL-MAX. DETERMINED LENGTH OF PIPE
 FITTING MAY BE ADDED OR SUBTRACTED
 TO TRAVERSE VARIATIONS IN AXLE
 QUANTITY, PLACEMENT, AND FRAME TYPE.
 INLET LOCATION MAY VARY TO STAY WITHIN
 MAY DETERMINED L EN/CTU

MDL= 20'



REVISION	DATE

MODEL NAME NEED NAME	DATE
MODEL NO. TRS14602"?"	
BOX SIZE 14' x 60'	MODEL SQ. FT. 790
DRAWN BY Jeremy Huling	DATE PRINTED 2/9/2024



APPROVED BY
1/13/2025
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

DATE PRINTED
1/7/2025

SCALE
3/16"=1'

PLAN NO.
TRU-1460-22-1

SHEET NAME
GAS LINES

SHEET NO.
PI -4

Project Information

For: TRU-1460-22-1, TRU

Web: owntru.com

Cooling Equipment

Design Conditions

Outdoor design DB:	94.7°F	Sensible gain:	10549 Btu/h	Entering coil DB:	76.6°F
Outdoor design WB:	75.7°F	Latent gain:	2682 Btu/h	Entering coil WB:	63.7°F
Indoor design DB:	75.0°F	Total gain:	13232 Btu/h		
Indoor RH:	50%	Estimated airflow:	580 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split/ASHP	Model:	R4H5S18*K*AAA*+FEVA0024**+NAVVA43601CK
Manufacturer:	Smart Comfort		
Actual airflow:	580 cfm		
Sensible capacity:	13256 Btu/h	126% of load	
Latent capacity:	3104 Btu/h	116% of load	
Total capacity:	16360 Btu/h	124% of load	SHR: 81%

Heating Equipment

Design Conditions

Outdoor design DB:	26.5°F	Heat loss:	12999 Btu/h	Entering coil DB:	66.6°F
Indoor design DB:	70.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split/ASHP	Model:	R4H5S18*K*AAA*+FEVA0024**+NAVVA43601CK
Manufacturer:	Smart Comfort		
Actual airflow:	580 cfm		
Output capacity:	12795 Btu/h	98% of load	
Supplemental heat required:	205 Btu/h		

Capacity balance:	23 °F
Economic balance:	-99 °F

Meets all requirements of ACCA Manual S.

Backup equipment type:	Elec strip	Model:	FEVA002410
Manufacturer:	Smart Comfort		
Actual airflow:	580 cfm		
Output capacity:	10.0 kW	262% of load	
Temp. rise:	54 °F		



MP-14-TRU-1460-22-1.5

Right-Suble@Universal 2024 24.0.03 RSU64301

Project Information

For: TRU-1460-22-1, TRU

Web: owntru.com
Duct Capacity: 19,333 Btu/h

APPROVED BY
NIA INC.
1/13/2025
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Design Information

Winter Design Conditions

Weather: AL52

Summer Design Conditions

Outside db 95 °F
Inside db 75 °F
Design TD 20 °F
Daily range M
Relative humidity 50 %
Moisture difference 39 gr/lb

Heating Summary

Ventilation Method MJ8
Outside db 27 °F
Inside db 70 °F
Design TD 44 °F

Sensible Cooling Equipment Load Sizing

Structure 9580 Btu/h
Ducts 0 Btu/h
Central vent (45 cfm) 970 Btu/h
Outside air Blower 0 Btu/h
Use manufacturer's data
Rate/swing multiplier 1.00
Equipment sensible load 10518 Btu/h

Latent Cooling Equipment Load Sizing

Structure 1489 Btu/h
Ducts 0 Btu/h
Central vent (45 cfm) 1193 Btu/h
Outside air Equipment latent load 2682 Btu/h
Equipment Total Load (Sens+Lat) 13200 Btu/h
Req. total capacity at 0.70 SHR 1.3 ton

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Model R4H5S18*K*AAA*
AHRI ref 210537859
Efficiency 12.0 EER2, 15 SEER2
Sensible cooling 12180 Btu/h
Latent cooling 5220 Btu/h
Total cooling 17400 Btu/h
Actual air flow 580 cfm
Air flow factor 0.061 cfm/Btu/h
Static pressure 0.30 in H2O
Load sensible heat ratio 0.80

Heating Equipment Summary

Method Construction quality
Fireplaces
Area (ft²) 787
Volume (ft³) 6292
Air changes/hour 0.61
Equip. AVF (cfm) 64
Heating 787
Cooling 6292
Simplified Average 0

Infiltration

Structure 10858 Btu/h
Ducts 0 Btu/h
Central vent (45 cfm) 2142 Btu/h
Outside air Humidification 0 Btu/h
Piping 0 Btu/h
Equipment load 12999 Btu/h

Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Model R4H5S18*K*AAA*
AHRI ref 210537859
Efficiency 7.5 HSPF2
Heating input 16800 Btu/h @ 47°F
Heating output 26 °F
Temperature rise 580 cfm
Actual air flow 0.053 cfm/Btu/h
Air flow factor 0.30 in H2O
Static pressure 0.30 in H2O
Space thermostat Capacity balance point = 23 °F
Backup: Smart Comfort FEVA002410
Input = 10 kW, Output = 34121 Btu/h, 100 AFUE

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

MP-14-TRU-1460-22-1.5.1

CLAYTON HOME BUILDING GROUP

14x60

Model Number	TRS1460	Drawing Number	TRU-1460-22-1	Version 20
Serial Number	X			

BOX SIZE: 13.17 ft. x 60 ft.

AVG. SIDEWALL HEIGHT = 7 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 40%

IN-FLOOR DUCT SYSTEM

INSULATION VALUES		U VALUE (BTUH/SQ.FT.-F)	
UNHEATED FLOOR	R-11 OR / R-11 FW / R-11 BIB	THP-335	0.0436
WALL	R-13	THP-515	0.0853
FLAT / VAULT ROOF	R-33 / R-33	THP-1972 / THP-2504	0.0306/0.0328
Combined Uo for Data Plate = 0.0315			

Area	U Value	UA
Combined Uo for Data Plate = 0.0315		

Doors:

Front	18.33	0.189	3.46
Rear	18.33	0.189	3.46
Other Door	0.00	0.300	0.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	55.00	0.300	16.50
Option	0.00	0.300	0.00
Floor	790.00	0.044	34.44
Wall	932.67	0.085	79.56
Ceiling	790.00	0.0315	24.87
Th. Zone 1:	Ext. Duct	0.00	0.00
Th. Zone 2:	Ext. Duct	0.00	0.00
Th. Zone 3:	Ext. Duct	0.00	0.00
Overhead TZ 1:	Supply	0.00	0.00
Overhead TZ 2:	Supply	0.00	0.00
Overhead TZ 3:	Supply	0.00	0.00

Window Glass Area: Net:



Overhead Duct	
Diameter	4
Length	0
	0
	0
	0
	0
	0
	0
Exterior Supply	Length
	14
	0
Exterior Return	Length
	16
	0
	0
	0
	0
	0
	0
	0
	0
	0

Energy Star v3 & ZERH	
Max Glass (sq ft)	226.3
Th. Zone 1	92.9
Th. Zone 2	0.0
Th. Zone 3	0.0

Design Temperatures	
Furnace Heating Outdoor Temp (F)	-59
Economy Heating Outdoor Temp (F)	-20
	-38
	-65
	-81
	-157
	-142

10kW
12kW
15kW
40k Gas
60k Gas
80k Gas

Outdoor Thermal Zone		Design Temp (F)		UA		Uo		ZERH Compliant		Heatloss BTUH/F	
1	11	162.30	0.062	OK	264.70	1	11	162.30	0.062	OK	264.70
2	0	162.30	0.062	OK	264.70	2	0	162.30	0.062	OK	264.70
3	-14	162.30	0.062	NG	264.70	3	-14	162.30	0.062	NG	264.70

Thermal Zone		U-Value		Thermal Zone		U-Value		Thermal Zone		U-Value	
1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079	1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.069
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071	1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.069
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059	1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.069
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065	1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.069
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056	1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.069

Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

MP-14-TRU-1460-22-1.7.1

IN-FLOOR DUCT SYSTEM

PERCENTAGE OF CEILING THAT IS VAULTED = 40%

AVG. SIDEWALL HEIGHT = 7 FEET

BOX SIZE: 13.17 ft. x 60 ft.

UNHEATED FLOOR	WALL	FLAT / VAULT ROOF
(2) R-11 OR / R-11 FW / R-22 BIB	R-15	R-35 / R-35
INSULATION VALUES		
DAPA PAGE		
THP-3027		
THP-504		
THP-1973 / THP-2505		
U VALUE (BTUH/SQ.FT.-F)		
0.0322		
0.0749		
0.0294/0.0319		

Combined Uo for Data Plate = 0.0304

Area	U Value	UA
------	---------	----

Doors:	Front	18.33	0.189	3.46
--------	-------	-------	-------	------

BY		1/13/2025		INC.		STANDARD HOME		SAFETY STANDARDS	
Doors:	Front	18.33	0.189	3.46	3.46	Other Door	0.00	0.300	0.00
	Rear	18.33	0.189	3.46	3.46	Other Door	0.00	0.300	0.00
	OSB	0.00	0.000	0.00	0.00	Skylights	0.00	0.330	0.00
	Standard	55.00	0.300	16.50	16.50	Option	0.00	0.300	0.00
Net:	Floor	790.00	0.032	25.44	69.86	Wall	932.67	0.075	0.0304
	Ceiling	790.00	0.000	24.02	0.00	Ext. Duct	0.00	0.000	0.00
	Th. Zone 1:	Ext. Duct	0.00	0.00	0.00	Ext. Duct	0.00	0.000	0.00
	Th. Zone 2:	Ext. Duct	0.00	0.00	0.00	Ext. Duct	0.00	0.000	0.00
	Th. Zone 3:	Ext. Duct	0.00	0.00	0.00	Supply	0.00	0.000	0.00
	Overhead TZ 1:	Supply	0.00	0.00	0.00	Overhead TZ 2:	Supply	0.00	0.00
	Overhead TZ 2:	Supply	0.00	0.00	0.00	Overhead TZ 3:	Supply	0.00	0.00



Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
15	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	305.3
Th. Zone 2	178.0
Th. Zone 3	85.4

Design Temperatures	
Furnace	-69
Heating	-97
Temp (F)	-139
Outdoor	-47
Temp (F)	-27
Economy	-69
80k Gas	-158
60k Gas	-175
40k Gas	-93
15kW	-76
12kW	-47
10kW	-27

MP-14-TRU-1460-22-1.7.2

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	ZERH Compliant	Heatloss BTU/H
1	11	142.74	0.055	OK	245.20
2	0	142.74	0.055	OK	245.20
3	-14	142.74	0.055	OK	245.20

Energy Star Version 2					
Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056

Energy Star Version 3 & ZERH					
1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

CLAYTON HOME BUILDING GROUP

14x60

Model Number	TRS1460	Drawing Number	TRU-1460-22-1	Version 20
Serial Number	X			

BOX SIZE: 13.17 ft. x 60 ft.

AVG. SIDEWALL HEIGHT = 7 FEET

PERCENTAGE OF CEILING THAT IS VAULTED = 40%

IN-FLOOR DUCT SYSTEM

UNHEATED FLOOR	WALL	FLAT / VAULT ROOF	INSULATION VALUES (2) R-11 OR / R-11 FW / R-22 BIB	THP-3027	THP-510	THP-1973 / THP-2505	R-35 / R-35	U VALUE (BTUH/SQ.FT.-F)	0.0322	0.0546	0.0294/0.0319
DAPIA PAGE											Combined Uo for Data Plate = 0.0304



Doors:

Area U Value UA

Front	18.33	0.189	3.46
Rear	18.33	0.189	3.46
Other Door	0.00	0.300	0.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	55.00	0.300	16.50
Option	0.00	0.300	0.00
Floor	790.00	0.032	25.44
Wall	932.67	0.055	50.92
Ceiling	790.00	0.0304	24.02
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Th. Zone 1:	0.00	0.000	0.00
Th. Zone 2:	0.00	0.000	0.00
Th. Zone 3:	0.00	0.000	0.00
Overhead TZ 1:	0.00	0.000	0.00
Overhead TZ 2:	0.00	0.000	0.00
Overhead TZ 3:	0.00	0.000	0.00
Supply	0.00	0.00	0.00

Window Glass Area:

Net:

Front	18.33	0.189	3.46
Rear	18.33	0.189	3.46
Other Door	0.00	0.300	0.00
Other Door	0.00	0.330	0.00
OSB	0.00	0.000	0.00
Skylights	0.00	0.330	0.00
Standard	55.00	0.300	16.50
Option	0.00	0.300	0.00
Floor	790.00	0.032	25.44
Wall	932.67	0.055	50.92
Ceiling	790.00	0.0304	24.02
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Th. Zone 1:	0.00	0.000	0.00
Th. Zone 2:	0.00	0.000	0.00
Th. Zone 3:	0.00	0.000	0.00
Overhead TZ 1:	0.00	0.000	0.00
Overhead TZ 2:	0.00	0.000	0.00
Overhead TZ 3:	0.00	0.000	0.00
Supply	0.00	0.00	0.00

EStar v3 &

Outdoor Design Temp (F)	11	0	-14	3	Thermal Zone
UA	123.81	123.81	123.81	0.048	Uo
ZERH	OK	OK	OK	OK	Heatloss BTUH/F
226.20	226.20	226.20	226.20	226.20	

Thermal Zone	1	2	3	Thermal Zone
U-Value	0.074	0.074	0.074	U-Value
2-EHP-S	0.080	0.080	0.080	2-EHP-S
2-GAS-S	0.080	0.080	0.080	2-GAS-S
2-ENV-S	0.067	0.067	0.067	2-ENV-S
3-EHP-M	0.074	0.074	0.074	3-EHP-M
3-GAS-M	0.074	0.074	0.074	3-GAS-M
3-ENV-M	0.064	0.064	0.064	3-ENV-M
0.079	0.071	0.059	0.074	0.065
0.056				

Thermal Zone U-Value Thermal Zone U-Value Thermal Zone U-Value

1-EHP-S	0.080	2-EHP-S	0.080	3-EHP-S	0.079
1-GAS-S	0.080	2-GAS-S	0.080	3-GAS-S	0.071
1-ENV-S	0.076	2-ENV-S	0.067	3-ENV-S	0.059
1-EHP-M	0.074	2-EHP-M	0.074	3-EHP-M	0.074
1-GAS-M	0.074	2-GAS-M	0.074	3-GAS-M	0.065
1-ENV-M	0.071	2-ENV-M	0.064	3-ENV-M	0.056

1 Single	0.076	2 Single	0.065	3 Single	0.057
1 Double	0.070	2 Double	0.063	3 Double	0.054

MP-14-TRU-1460-22-1.7.3

Furnace Heating Outdoor Temp (F)	-81	10kW	-36
Economy Outdoor Temp (F)	-57	12kW	-57
	-88	15kW	-88
	-107	40k Gas	-54
	-195	60k Gas	-116
	-284	80k Gas	-178

Energy Star v3 & ZERH	Max Glass (sq ft)	Th. Zone 1	361.7
		Th. Zone 2	245.0
		Th. Zone 3	160.1

Overhead Duct	Length	0
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
15	0	
Exterior Supply	Length	14
16	0	
Exterior Return	Length	14
16	0	
14	0	
16	0	
14	0	