

HOT WATER MDL'S
 3/4" MDL = 31
 1/2" MDL = 24.83
 VOLUME (gal) = .80



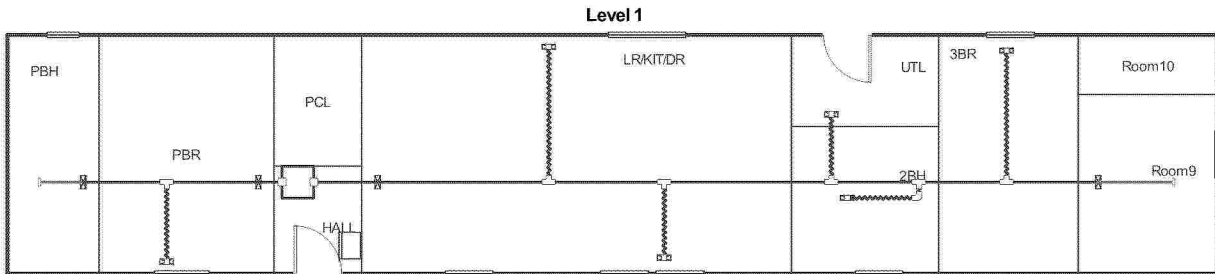
PIPE LEGEND	
	1"
	3/4"
	1/2"

HOT WATER SUPPLY PLUMBING

957-335.1

COLD WATER SUPPLY PLUMBING

BRAND CLAYTON	SERIES FS16	DRAWING TITLE SUPPLY PLUMBING		MODEL NAME 335	SO. FT. 1140
		GENERAL NOTES HOSE BIBBS PER SPECS		PLANT DESCRIPTION 16X76 3BR-2BR	MODEL NO. 335
CLAYTON HOME BUILDING GROUP		BY GDB	DATE 04/16/2024	DATE PRINTED 04/19/2024	SHEET NO. 9-1



APPROVED BY
 **4/23/2024**
NIA INC.
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

957-335.4.1

<p style="text-align: center;">Job #: 335(I) Performed by CLAYTON ROCKWELL for: MODEL NUMBER HERE ROCKWELL, NC</p>		<p style="text-align: right;">Scale: 1 : 136 Page 1 Right-Suite® Universal 2023 23.0.04 RSU28036 2024-Apr-18 09:48:07 ...Clayton Homes\Desktop\335(I).rup</p>
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Manual S Compliance Report

Entire House

Job: 335(I)
 Date: Apr 18, 2024
 By: CLAYTON ROCKWELL

Project Information

For: MODEL NUMBER HERE, CLAYTON 957
 ROCKWELL, NC

Cooling Equipment

Design Conditions

Outdoor design DB: 94.7°F	Sensible gain: 16806 Btuh	Entering coil DB: 76.5°F
Outdoor design WB: 75.9°F	Latent gain: 4169 Btuh	Entering coil WB: 63.7°F
Indoor design DB: 75.0°F	Total gain: 20975 Btuh	
Indoor RH: 50%	Estimated airflow: 813 cfm	

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
 Manufacturer: Smart Comfort Model: R4H5S24*K*AAA*+FEVA0036**+NAVA43601CK
 Actual airflow: 813 cfm
 Sensible capacity: 17080 Btuh 102% of load
 Latent capacity: 7320 Btuh 176% of load
 Total capacity: 24400 Btuh 116% of load SHR: 70%

Heating Equipment

Design Conditions

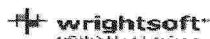
Outdoor design DB: 25.8°F	Heat loss: 19252 Btuh	Entering coil DB: 66.7°F
Indoor design DB: 70.0°F		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP
 Manufacturer: Smart Comfort Model: R4H5S24*K*AAA*+FEVA0036**+NAVA43601CK
 Actual airflow: 813 cfm
 Output capacity: 23000 Btuh 119% of load Capacity balance: 23 °F
 Supplemental heat required: 0 Btuh Economic balance: -99 °F

Backup equipment type: Elec strip
 Manufacturer: Smart Comfort Model:
 Actual airflow: 813 cfm
 Output capacity: 10.0 kW 177% of load Temp. rise: 38 °F

Meets all requirements of ACCA Manual S.





Project Summary
Entire House

APPROVED BY
NIA INC. 4/23/2024
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

Job: 335(I)
Date: Apr 18, 2024
By: CLAYTON ROCKWELL

Project Information

For: MODEL NUMBER HERE, CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 27,100 BTU/HR
REFER TO MODEL PLAN FOR THERMAL ZONE CALCULATIONS

Design Information

Weather: Fort Bragg/Simmons, NC, US

Winter Design Conditions

Outside db 26 °F
Inside db 70 °F
Design TD 44 °F

Summer Design Conditions

Outside db 95 °F
Inside db 75 °F
Design TD 20 °F
Daily range M
Relative humidity 50 %
Moisture difference 41 gr/lb

Heating Summary

Structure 12957 Btuh
Ducts 3404 Btuh
Central vent (60 cfm) **2892** Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 19252 Btuh

Sensible Cooling Equipment Load Sizing

Structure 12364 Btuh
Ducts 3153 Btuh
Central vent (60 cfm) **1289** Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 1.00
Equipment sensible load 16755 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 1934 Btuh
Ducts 591 Btuh
Central vent (60 cfm) **1644** Btuh
Outside air
Equipment latent load 4169 Btuh

	Heating	Cooling
Area (ft ²)	1140	1140
Volume (ft ³)	9120	9120
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	74	41

Equipment Total Load (Sen+Lat) 20924 Btuh
Req. total capacity at 0.70 SHR 2.0 ton

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Model R4H5S24*K*AAA*
AHRI ref 0
Efficiency 7.5 HSPF2
Heating input
Heating output 23000 Btuh @ 47°F
Temperature rise 26 °F
Actual air flow 813 cfm
Air flow factor 0.050 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat
Capacity balance point = 23 °F

Cooling Equipment Summary

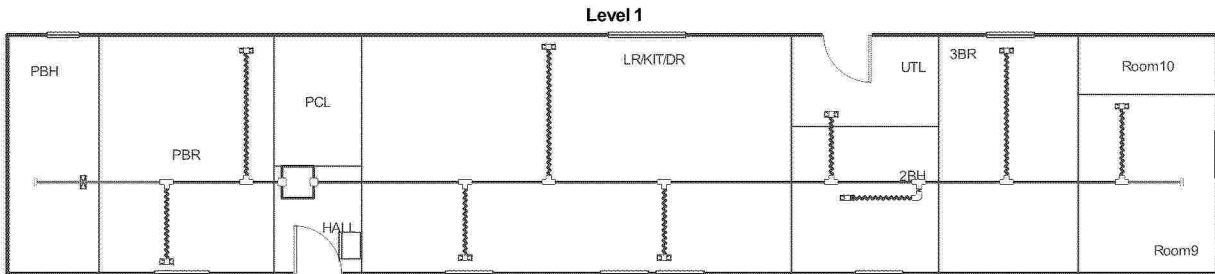
Make Smart Comfort
Trade 15 SEER2 R SERIES R410A HP
Cond R4H5S24*K*AAA*
Coil FEVA0036**+NAVA43601CK
AHRI ref 0
Efficiency 12.0 EER2, 15.2 SEER2
Sensible cooling 17080 Btuh
Latent cooling 7320 Btuh
Total cooling 24400 Btuh
Actual air flow 813 cfm
Air flow factor 0.052 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.80

Backup: Smart Comfort
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

Bold/italic values have been manually overridden

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





APPROVED BY

4/23/2024
FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

957-335.4.4

<p style="text-align: center;">Job #: 335(P) Performed by CLAYTON ROCKWELL for: MODEL NUMBER HERE ROCKWELL, NC</p>		<p style="text-align: right;">Scale: 1 : 136 Page 1 Right-Suite® Universal 2023 23.0.04 RSU28036 2024-Apr-18 09:44:37 ...Clayton Homes\Desktop\335(P).rup</p>
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Project Summary
Entire House



Job: 335(P)
Date: Apr 18, 2024
By: CLAYTON ROCKWELL

Project Information

For: MODEL NUMBER HERE, CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 27,100 BTU/HR
REFER TO MODEL PLAN FOR THERMAL ZONE CALCULATIONS

Design Information

Weather: Fort Bragg/Simmons, NC, US

Winter Design Conditions

Outside db 26 °F
Inside db 70 °F
Design TD 44 °F

Summer Design Conditions

Outside db 95 °F
Inside db 75 °F
Design TD 20 °F
Daily range M
Relative humidity 50 %
Moisture difference 41 gr/lb

Heating Summary

Structure 14058 Btuh
Ducts 3404 Btuh
Central vent (60 cfm) **2892** Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 20353 Btuh

Sensible Cooling Equipment Load Sizing

Structure 12336 Btuh
Ducts 3153 Btuh
Central vent (60 cfm) **1289** Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 1.00
Equipment sensible load 16728 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 1934 Btuh
Ducts 591 Btuh
Central vent (60 cfm) **1644** Btuh
Outside air
Equipment latent load 4169 Btuh

	Heating	Cooling
Area (ft ²)	1140	1140
Volume (ft ³)	9120	9120
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	74	41

Equipment Total Load (Sen+Lat) 20897 Btuh
Req. total capacity at 0.70 SHR 2.0 ton

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410AHP
Model R4H5S24*K*AAA*
AHRI ref 0
Efficiency 7.5 HSPF2
Heating input
Heating output 23000 Btuh @ 47°F
Temperature rise 26 °F
Actual air flow 813 cfm
Air flow factor 0.047 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat
Capacity balance point = 25 °F

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410AHP
Cond R4H5S24*K*AAA*
Coil FEVA0036**+NAVA43601CK
AHRI ref 0
Efficiency 12.0 EER2, 15.2 SEER2
Sensible cooling 17080 Btuh
Latent cooling 7320 Btuh
Total cooling 24400 Btuh
Actual air flow 813 cfm
Air flow factor 0.053 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.80

Backup: Smart Comfort
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

957-335.4.5

Bold/italic values have been manually overridden

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





Manual S Compliance Report

Entire House

Job: 335(P)
 Date: Apr 18, 2024
 By: CLAYTON ROCKWELL

Project Information

For: MODEL NUMBER HERE, CLAYTON 957
 ROCKWELL, NC

Cooling Equipment

Design Conditions

Outdoor design DB: 94.7°F	Sensible gain: 16778 Btuh	Entering coil DB: 76.5°F
Outdoor design WB: 75.9°F	Latent gain: 4169 Btuh	Entering coil WB: 63.7°F
Indoor design DB: 75.0°F	Total gain: 20947 Btuh	
Indoor RH: 50%	Estimated airflow: 813 cfm	

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP	Model: R4H5S24*K*AAA*+FEVA0036**+NAVA43601CK
Manufacturer: Smart Comfort	
Actual airflow: 813 cfm	
Sensible capacity: 17080 Btuh	102% of load
Latent capacity: 7320 Btuh	176% of load
Total capacity: 24400 Btuh	116% of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB: 25.8°F	Heat loss: 20353 Btuh	Entering coil DB: 66.7°F
Indoor design DB: 70.0°F		

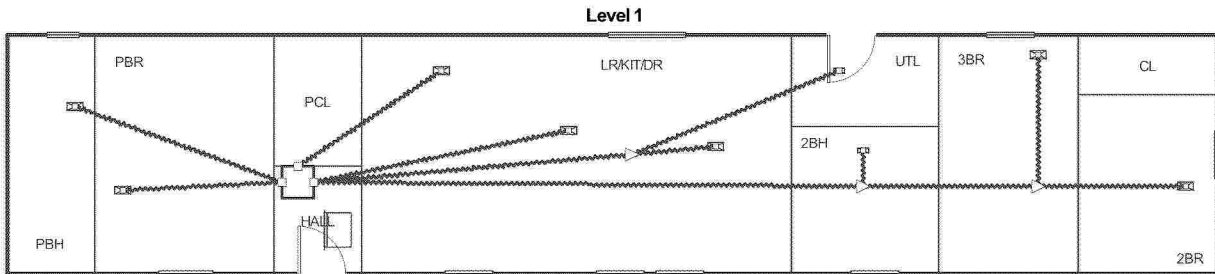
Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP	Model: R4H5S24*K*AAA*+FEVA0036**+NAVA43601CK
Manufacturer: Smart Comfort	
Actual airflow: 813 cfm	
Output capacity: 23000 Btuh	113% of load
Supplemental heat required: 0 Btuh	Capacity balance: 25 °F
	Economic balance: -99 °F

Backup equipment type: Elec strip	Model:
Manufacturer: Smart Comfort	
Actual airflow: 813 cfm	
Output capacity: 10.0 kW	168% of load Temp. rise: 38 °F

Meets all requirements of ACCA Manual S.





APPROVED BY



957-335.4.7

Job #: 335(OHVD)
Performed by CLAYTON ROCKWELL for:
335(OHVD)
ROCKWELL, NC

Scale: 1 : 136
Page 1
Right-Suite® Universal 2023
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Project Summary

Entire House



Job: 335(OHVD)
Date: Apr 18, 2024
By: CLAYTON ROCKWELL

Project Information

For: 335(OHVD), CLAYTON 957
ROCKWELL, NC

Notes: DUCT COOLING CAPACITY = 26,000 BTU/HR
REFER TO MODEL PLAN FOR THERMAL ZONE CALCULATIONS

Design Information

Weather: Gainesville Regional, FL, US

Winter Design Conditions

Outside db 33 °F
Inside db 70 °F
Design TD 37 °F

Summer Design Conditions

Outside db 92 °F
Inside db 75 °F
Design TD 17 °F
Daily range M
Relative humidity 50 %
Moisture difference 44 gr/lb

Heating Summary

Structure 10773 Btuh
Ducts 2711 Btuh
Central vent (60 cfm) **2418** Btuh
Outside air
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 15902 Btuh

Sensible Cooling Equipment Load Sizing

Structure 11715 Btuh
Ducts 2562 Btuh
Central vent (60 cfm) **1130** Btuh
Outside air
Blower 0 Btuh
Use manufacturer's data n
Rate/swing multiplier 0.97
Equipment sensible load 14976 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

Latent Cooling Equipment Load Sizing

Structure 2028 Btuh
Ducts 623 Btuh
Central vent (60 cfm) **1779** Btuh
Outside air
Equipment latent load 4429 Btuh

	Heating	Cooling
Area (ft ²)	1140	1140
Volume (ft ³)	9120	9120
Air changes/hour	0.45	0.23
Equiv. AVF (cfm)	74	41

Equipment Total Load (Sen+Lat) 19406 Btuh
Req. total capacity at 0.70 SHR 1.8 ton

Heating Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410AHP
Model R4H5S24*K*AAA*
AHRI ref 0
Efficiency 7.5 HSPF2
Heating input
Heating output 22800 Btuh @ 47°F
Temperature rise 27 °F
Actual air flow 780 cfm
Air flow factor 0.058 cfm/Btuh
Static pressure 0.30 in H2O
Space thermostat
Capacity balance point = 25 °F

Cooling Equipment Summary

Make Smart Comfort
Trade 15 SEER2 R SERIES R410AHP
Cond R4H5S24*K*AAA*
Coil FEVA0024**+NAVA43601CK
AHRI ref 0
Efficiency 12.0 EER2, 15.2 SEER2
Sensible cooling 16380 Btuh
Latent cooling 7020 Btuh
Total cooling 23400 Btuh
Actual air flow 780 cfm
Air flow factor 0.055 cfm/Btuh
Static pressure 0.30 in H2O
Load sensible heat ratio 0.78

Backup: Smart Comfort
Input = 10 kW, Output = 34121 Btuh, 100 AFUE

957-335.4.8

Bold/italic values have been manually overridden

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



Right-Suite® Universal 2023 23.0.04 RSU28036

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Page 1

Project Information

For: 335((OHVD), CLAYTON 957
ROCKWELL, NC

Cooling Equipment

Design Conditions

Outdoor design DB: 92.2°F	Sensible gain: 15408 Btuh	Entering coil DB: 76.4°F
Outdoor design WB: 75.8°F	Latent gain: 4429 Btuh	Entering coil WB: 63.7°F
Indoor design DB: 75.0°F	Total gain: 19837 Btuh	
Indoor RH: 50%	Estimated airflow: 780 cfm	

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP	Model: R4H5S24*K*AAA*+FEVA0024**+NAVA43601CK
Manufacturer: Smart Comfort	
Actual airflow: 780 cfm	
Sensible capacity: 16380 Btuh	106% of load
Latent capacity: 7020 Btuh	158% of load
Total capacity: 23400 Btuh	118% of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB: 33.2°F	Heat loss: 15902 Btuh	Entering coil DB: 67.1°F
Indoor design DB: 70.0°F		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split ASHP	Model: R4H5S24*K*AAA*+FEVA0024**+NAVA43601CK	
Manufacturer: Smart Comfort		
Actual airflow: 780 cfm		
Output capacity: 22800 Btuh	143% of load	Capacity balance: 25 °F
Supplemental heat required: 0 Btuh		Economic balance: -99 °F

Backup equipment type: Elec strip	Model:
Manufacturer: Smart Comfort	
Actual airflow: 780 cfm	
Output capacity: 10.0 kW	215% of load Temp. rise: 40 °F

Meets all requirements of ACCA Manual S.

APPROVED BY



4/23/2024

FEDERAL MANUFACTURED HOME
CONSTRUCTION AND SAFETY STANDARDS

CLAYTON HOME BUILDING GROUP

335 ZONE 1 AND 2

Model Number	57FWR16763BH24	Drawing Number	335	Version 17
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BOX SIZE: 15 ft. x 76 ft.
 AVG. SIDEWALL HEIGHT = 8 FEET
 PERCENTAGE OF CEILING THAT IS VAULTED = 0%

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-22 FW	R-13	R-38
DAPIA PAGE	THP-164	THP-552	THP-2024
U VALUE (BTUH/SQ.FT.-F)	0.0454	0.0808	0.0294

THIS INSULATION COMBINATION COMPLIES WITH ZONE 1 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
12	0
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Window Glass Area:

Doors:
 Net:
 Th. Zone 1:
 Th. Zone 2:
 Th. Zone 3:
 Overhead TZ 1:
 Overhead TZ 2:
 Overhead TZ 3:

	Area	U Value	UA
Front	22.00	0.210	4.62
Rear	22.00	0.280	6.16
Other Door	0.00	0.280	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	130.00	0.300	39.00
Option	0.00	0.300	0.00
Floor	1140.00	0.045	51.76
Wall	1282.00	0.081	103.59
Ceiling	1140.00	0.0294	33.52
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Supply	0.00	0.000	0.00
Supply	0.00	0.000	0.00
Supply	0.00	0.00	0.00

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	344.2
Th. Zone 2	156.7
Th. Zone 3	20.3

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	238.64	0.064	OK	366.00
2	0	238.64	0.064	OK	366.00
3	-14	238.64	0.064	NG	366.00

Design Temperatures	
Furnace Heating Temp (F)	Economy Outdoor Temp (F)
-23	5
-42	-8
-70	-28
-39	-7
-94	-45
-149	-83

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

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
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

335 ZONE 3

Model Number	57FWR16763BH24	Drawing Number	335	Version 17
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BOX SIZE: 15 ft. x 76 ft.
 AVG. SIDEWALL HEIGHT = 8 FEET
 PERCENTAGE OF CEILING THAT IS VAULTED = 0%

IN-FLOOR DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	(2) R-11 OR / R-33 BIB	R-21	R-38
DAPIA PAGE	THP-3004	THP-560	THP-2024
U VALUE (BTUH/SQ.FT.-F)	0.0389	0.0541	0.0294

THIS INSULATION COMBINATION COMPLIES WITH ZONE 2 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	0
6	0
7	0
8	0
9	0
12	0
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Window Glass Area:

Doors:

Net:

Th. Zone 1:

Th. Zone 2:

Th. Zone 3:

Overhead TZ 1:

Overhead TZ 2:

Overhead TZ 3:

	Area	U Value	UA
Front	22.00	0.210	4.62
Rear	22.00	0.280	6.16
Other Door	0.00	0.280	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	130.00	0.300	39.00
Option	0.00	0.300	0.00
Floor	1140.00	0.039	44.35
Wall	1282.00	0.054	69.36
Ceiling	1140.00	0.0294	33.52
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Supply	0.00	0.000	0.00
Supply	0.00	0.000	0.00
Supply	0.00	0.00	0.00

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	490.2
Th. Zone 2	323.1
Th. Zone 3	201.6

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	197.00	0.053	OK	324.40
2	0	197.00	0.053	OK	324.40
3	-14	197.00	0.053	OK	324.40

Design Temperatures		
Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-35	-4	10kW
-56	-18	12kW
-88	-40	15kW
-53	-16	40k Gas
-115	-59	60k Gas
-177	-103	80k Gas

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
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

335 ZONE 1 WITH OVERHEAD

Model Number	57FWR16763BH24	Drawing Number	335	Version 17
--------------	----------------	----------------	-----	------------

BOX SIZE: 15 ft. x 76 ft.
 AVG. SIDEWALL HEIGHT = 8 FEET
 PERCENTAGE OF CEILING THAT IS VAULTED = 0%

OVERHEAD DUCT SYSTEM

	UNHEATED FLOOR	WALL	FLAT ROOF
INSULATION VALUES	R-22 FW	R-13	R-38
DAPIA PAGE	THP-164	THP-552	THP-2024
U VALUE (BTUH/SQ.FT.-F)	0.0454	0.0808	0.0294

THIS INSULATION COMBINATION COMPLIES WITH ZONE 1 PRESCRIPTIVE ZERH REQUIREMENTS

Overhead Duct	
Diameter	Length
4	0
5	20
6	54
7	22
8	20
9	21
12	0
11	0
14	0
Exterior Supply	Length
14	0
16	0
Exterior Return	Length
14	0
16	0



Window Glass Area:

Doors:
 Net:
 Th. Zone 1:
 Th. Zone 2:
 Th. Zone 3:
 Overhead TZ 1:
 Overhead TZ 2:
 Overhead TZ 3:

	Area	U Value	UA
Front	22.00	0.210	4.62
Rear	22.00	0.280	6.16
Other Door	0.00	0.280	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	130.00	0.300	39.00
Option	0.00	0.300	0.00
Floor	1140.00	0.045	51.76
Wall	1282.00	0.081	103.59
Ceiling	1140.00	0.0294	33.52
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Ext. Duct	0.00	0.000	0.00
Supply	19.34	0.242	4.68
Supply	19.34	0.223	4.31
Supply	19.34	0.21	3.98

Energy Star v3 & ZERH Max Glass (sq ft)	
Th. Zone 1	322.8
Th. Zone 2	137.0
Th. Zone 3	2.2

Thermal Zone	Outdoor Design Temp (F)	UA	Uo	EStar v3 & ZERH Compliant	Heatloss BTUH/F
1	11	243.32	0.065	OK	370.70
2	0	242.95	0.065	OK	370.30
3	-14	242.61	0.065	NG	370.00

Design Temperatures		
Furnace Heating Temp (F)	Economy Outdoor Temp (F)	
-22	6	10kW
-40	-7	12kW
-68	-27	15kW
-38	-6	40k Gas
-92	-43	60k Gas
-146	-81	80k Gas

Thermal Zone	U-Value	Thermal Zone	U-Value	Thermal Zone	U-Value
Energy Star Version 2					
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

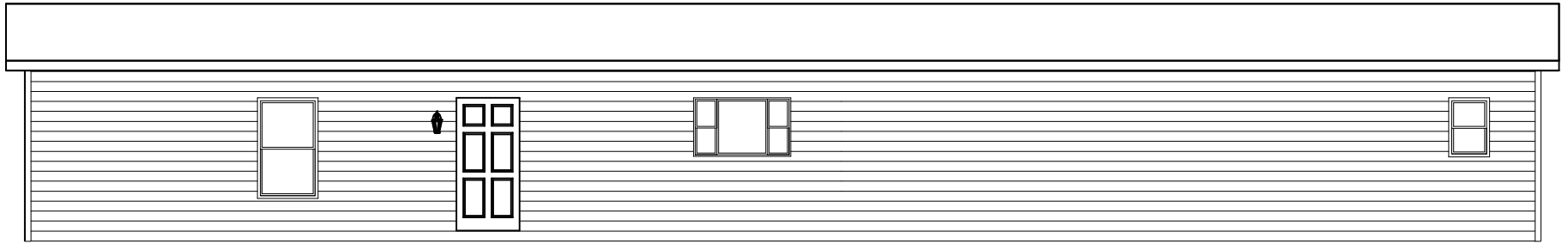


FRONT ELEVATION

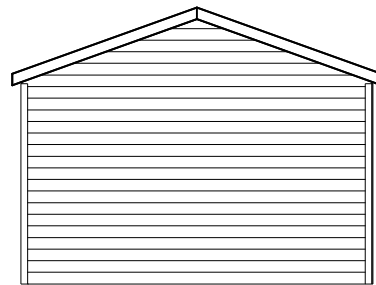


RIGHT SIDE ELEVATION

BRAND CLAYTON	SERIES FS16	REVISIONS	BY	DATE	GENERAL NOTES	DRAWING TITLE EXTERIOR ELEVATION FRONT & RIGHT SIDE	MODEL NAME 335	SQ. FT. 1140
CLAYTON HOME BUILDING GROUP							PLANT 957	DESCRIPTION 16X76 3BR-2BA
							MODEL NO. 335	SHEET NO. 20-1
							DRAWN BY GDB	ORIG. DATE 04/16/2024
							DATE PRINTED 04/24/2024	

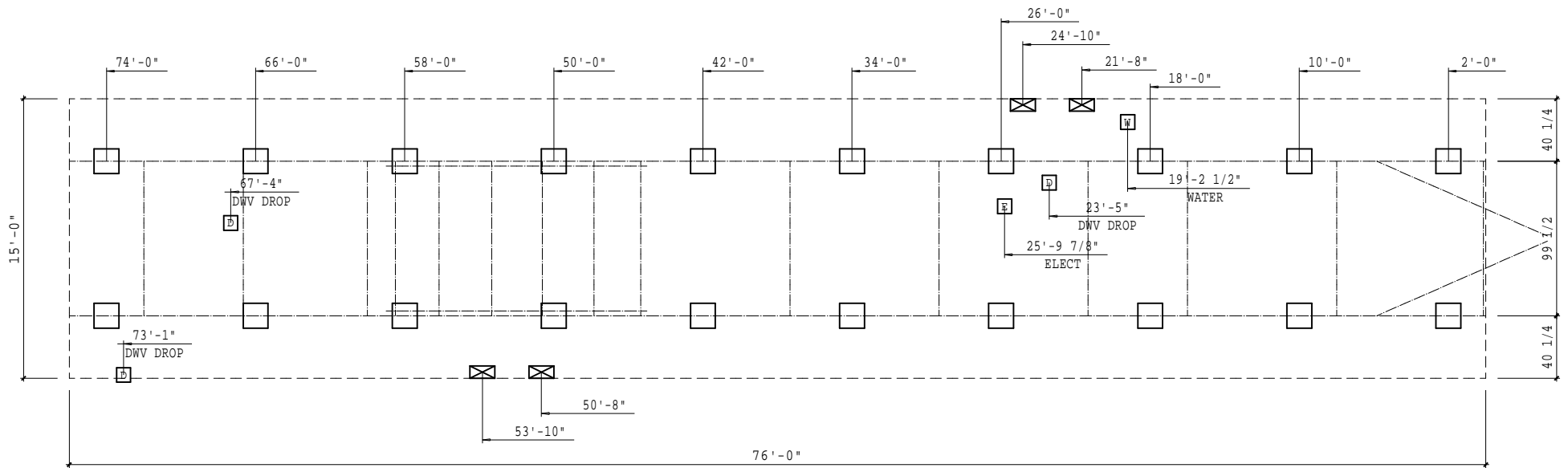


BACK ELEVATION



LEFT SIDE ELEVATION

BRAND CLAYTON	SERIES FS16	REVISIONS	BY	DATE	GENERAL NOTES	DRAWING TITLE EXTERIOR ELEVATION BACK & LEFT SIDE	MODEL NAME 335	SQ. FT. 1140
CLAYTON HOME BUILDING GROUP							PLANT 957	DESCRIPTION 16X76 3BR-2BA
							MODEL NO. 335	
							DRAWN BY GDB	ORIG. DATE 04/16/2024
							DATE PRINTED 04/24/2024	SHEET NO. 20-2



SERVICE ENTRANCE LEGEND

- E = ELECTRICAL DROP
- W = WATER INLET
- D = DWV PLUMBING DROP
- G = GAS INLET

NOTE:
ALL LOCATIONS ARE APPROXIMATE

PIER LEGEND

- = SUPPORT AT MATING COLUMN
- = SUPPORT UNDER MATING WALL
- = SUPPORT UNDER MATING OPENING
- = SUPPORT AT PORCH/RECESSED ENTRY
- = SUPPORT UNDER MAIN I-BEAM
- = SUPPORT UNDER PERIMETER WALL
- = SUPPORT AT CROSS I-BEAM BASEMENT

CRAWLSPACE VENTILATION VENTILATION IS BASED ON 144 SQ. IN. OF VENT FOR EVERY 300 SQ. FT. OF CRAWLSPACE AREA WITH APPROVED VAPOR RETARDER MATERIAL. ONE SUCH VENT MUST BE WITHIN 3 FT. OF EACH CORNER	1140 SQ. FT. OF CRAWLSPACE AREA 548 SQ. IN. OF VENT REQUIRED 11 VENTS NEEDED @ 52 SQ. IN. EACH 572 SQ. IN. VENTILATION INSTALLED MINIMUM	**FOUNDATION SLOP NOTE**
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BRAND CLAYTON	SERIES FS16	
CLAYTON HOME BUILDING GROUP		

REVISIONS	BY	DATE

GENERAL NOTES

FOOTING SIZES VARY BASED ON SOIL BEARING CAPACITY AND PIER LOADS REFER TO INSTALLATION MANUAL FOR PROPER FOOTING SIZING

() - DIMENSIONS DENOTES 2X6 WALLS OPTION

DRAWING TITLE

**PIER SET
99 1/2 BEAM SPACING**

MODEL NAME 335	SQ. FT. 1140
PLANT 957	DESCRIPTION 16X76 3BR-2BA
MODEL NO. 335	
DRAWN BY GDB	ORIG. DATE 04/16/2024
DATE PRINTED 08/22/2024	SHEET NO. 21-PS-99