

Building Summary



Property
 15 Longfellow Ave
 Mayville, NY 14757
 Model: Watters Residence
 15 Longfellow Ave - 7-7-21 [JP] (2626)

Organization
 Green Building Consulting
 Jason Puffenbarger
Builder
 Chris Keefe Builders

Inspection Status
 2021-07-07
 Rater ID (RTIN): 8763306
 RESNET Registered (Confirmed)

General Building Information

Number Of Bedrooms	6
Number Of Floors	2
Conditioned Floor Area [sq. ft.]	4,862
Has Electric Vehicle Ready Space	No
Unconditioned, attached garage?	Yes
Conditioned Volume [cu. ft.]	52,396
Total Units in Building	1
Residence Type	Single family detached
Floor Number	-
Model	Watters Residence
Community	
Climate Zone	5A

Foundation Wall

Name	Library Type	Height Above Grade	Depth Below Grade	Perimeter	Location	Enclosing
Fdtn-Ambient - Fin	R-13 Finished GII + R-10	0.5	8.5	99.5	Exposed Exterior	Conditioned Space
Fdtn-Ambient unf	R-25 int + R-10 ext	0.5	8.5	25	Exposed Exterior	Conditioned Space
Fdtn-Ambient-5	R-25 int + R-10 ext	0	5	19	Exposed Exterior	Conditioned Space
Fdtn-Crawl-A	R-25 int + R-10 ext	0.5	3.5	114.5	Exposed Exterior	Conditioned Crawlspace
Fdtn-Crawl-B	R-25 int + R-10 ext	0.5	3.5	47	Exposed Exterior	Conditioned Crawlspace
Fdtn-Garage-Crawl-A	R-25 int + R-10 ext	0	4	19.5	Exposed Exterior	Conditioned Crawlspace

Foundation Wall Library List

Name	Feet From Wall Top To Continuous Insulation Top	Feet From Wall Top To Continuous Insulation Bottom	Is Fully Insulated	Continuous R-value	Cavity R-value	Effective Insulation R-value
R-13 Finished GII + R-10	N/A	N/A	Yes	10.00	13.00	N/A
R-25 int + R-10 ext	N/A	N/A	Yes	35.00	N/A	N/A

Slab

Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
slab-Bsmt	Uninsulated Concrete	143.5	Below Grade	0	1,040	1,040.0 ft²	Exposed Exterior	Conditioned Space
slab-Crawl	R-7.5 Under Slab 8"	200.5	Below Grade	0	1,391	1,391.0 ft²	Exposed Exterior	Conditioned Crawlspace

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Slab Library List

Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Thermal Break	Effective R-value
R-7.5 Under Slab 8'	Wood Frame / Other	No	8	0	0	No	7.50
Uninsulated Concrete	Wood Frame / Other	No	0	0	0	No	0.00

Framed Floor

None Present

Framed Floor Library List

None Present

Rim Joist

Name	Library Type	Surface Area	Location
Rim-Ambient	R 34 estimate	375.0 ft ²	Exposed Exterior
Rim-Attic	R 34 estimate	6.0 ft ²	Attic
Rim-Garage	R 25.0	46.0 ft ²	Unconditioned, attached garage

Rim Joist Library List

Name	Effective Insulation R-value
R 25.0	25.00
R 34 estimate	34.00

Wall

Name	Library Type	Surface Color	Surface Area	Location
AGW-x4-3.5"	2x4 CCfoam 3.5" + R10 w/ Cedar Shake Siding	Medium	186.0 ft ²	Exposed Exterior

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Name	Library Type	Surface Color	Surface Area	Location
AGW-x4-4"	2x4 CCfoam 4" + R10 w/ Cedar Shake Siding	Medium	245.0 ft ²	Exposed Exterior
AGW-x6	2x6 CCfoam to R25 ave + R10 w/ Cedar Shake Siding	Medium	3,378.0 ft ²	Exposed Exterior
AGW-x6-Garage	2x6 CCfoam to R25 ave garage	Medium	177.0 ft ²	Unconditioned, attached garage
AGW-x6-Stn	2x6 CCfoam to R25 ave + R10 w/ Stone veneer	Medium	456.0 ft ²	Exposed Exterior

Wall Library List

Name	Effective R-value
2x4 CCfoam 3.5" + R10 w/ Cedar Shake Siding	27.844
2x4 CCfoam 4" + R10 w/ Cedar Shake Siding	29.785
2x6 CCfoam to R25 ave + R10 w/ Cedar Shake Siding	30.947
2x6 CCfoam to R25 ave + R10 w/ Stone veneer	30.372
2x6 CCfoam to R25 ave garage	18.032

Glazing

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
12080 Front	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	East	96.0 ft ²
12080 Right	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	North	96.0 ft ²
16080 Front	.286, .290 wgted ave	AGW-x6-Stn		Yes	0	0	0	East	128.0 ft ²
16080 Front	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	East	128.0 ft ²
2424 Left	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	South	16.3 ft ²
2424 Rear	.286, .290 wgted ave	AGW-x6-Stn		Yes	0	0	0	West	16.3 ft ²
2424 Right	.286, .290 wgted ave	AGW-x6-Stn		Yes	0	0	0	North	5.4 ft ²
2424 Right	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	North	16.3 ft ²
2626 Left OvH	.286, .290 wgted ave	AGW-x6		Yes	2	0	2.5	South	6.3 ft ²
2626 Left OvH	.286, .290 wgted ave	AGW-x6		Yes	2	0	2.5	South	6.3 ft ²
2864 Front	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	East	118.2 ft ²

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Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
3030 Left Ov	.286, .290 wgted ave	AGW-x6-Stn		Yes	2	0	3	South	9.0 ft ²
4242 Rear	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	West	52.1 ft ²
4272 Rear	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	West	59.7 ft ²
4848 Left	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	South	21.8 ft ²
4848 Left Ov	.286, .290 wgted ave	AGW-x6		Yes	2	0	4.7	South	65.3 ft ²
4848 Right	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	North	21.8 ft ²
5070 Left	.286, .290 wgted ave	AGW-x4-3.5"		Yes	0	0	0	South	70.0 ft ²
5070 Right	.286, .290 wgted ave	AGW-x4-4"		Yes	0	0	0	North	70.0 ft ²
5070 Right	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	North	35.0 ft ²
6070 Right	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	North	42.0 ft ²
9272 Right	.286, .290 wgted ave	AGW-x6		Yes	0	0	0	North	131.4 ft ²

Glazing Library List

Name	Shgc	U-factor
.286, .290 wgted ave	0.29	0.286

Skylight

None Present

Skylight Library List

None Present

Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location
Garage Main door	1-3/4 Wd solid core	AGW-x6-Garage		0.9	0.75	Medium	18.7 ft ²	Exposed Exterior

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Opaque Door Library List

Name	Effective R-value
1-3/4 Wd solid core	2.10

Roof Insulation

Name	Library Type	Attic Exterior Area [ft ²]	Clay or Concrete	Roof Tiles	Surface Color	Surface Area	Location
Cing-Open	R-38, Vaulted Gr1 [Full Eko Assembly]	1,700		No	Medium	1,460.0 ft ²	Attic
Cing-Vaulted	R-38, Vaulted Gr1	1,029		No	Medium	1,029.0 ft ²	Vaulted Roof

Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
R-38, Vaulted Gr1	No	33.711
R-38, Vaulted Gr1 [Full Eko Assembly]	No	35.136

Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
1029 CFM at 50 Pa	Blower-door tested	4

Mechanical Ventilation

Ventilation Type	Ventilation Rate [ft ³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent
Exhaust Only	102 CFM	24	10 Watts	Yes	0

Lighting

% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	95	0	95	0	95

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Onsite Generation

None Present

Onsite Generation Library List

None Present

Solar Generation

Index	Track Mode	Nameplate Capacity (kWdc)	Derate Factor	Orientation (deg)	Tilt (deg)
1	Fixed	6.5 kW	0.82	180°	33°

Dehumidifier

None Present

Dehumidifier Library List

None Present

Conditioning Equipment

Name	Library Type	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Heat Pump/Water Heater	RE2H80T10	0%	0%	100%	Conditioned Space
Minisplits AH1	AH1	13%	13%	0%	Conditioned Space
Minisplits AH2	AH2	45%	45%	0%	Conditioned Space
Minisplits AH3	AH3	6%	6%	0%	Conditioned Space
Minisplits AH4	AH4	20%	20%	0%	Conditioned Space
Minisplits AH5	AH5	16%	16%	0%	Conditioned Space

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Equipment Type: AH1

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	ECM (Variable Speed)
Heating Efficiency	10.5 HSPF
Heating Capacity [kBtu/h]	10
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	No
Supplemental Heat [kW]	0
Cooling Efficiency	16.8 SEER
Cooling Capacity [kBtu/h]	9

Equipment Type: AH2

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	ECM (Variable Speed)
Heating Efficiency	10.5 HSPF
Heating Capacity [kBtu/h]	20.1
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	No
Supplemental Heat [kW]	0
Cooling Efficiency	16.9 SEER
Cooling Capacity [kBtu/h]	17.2

Equipment Type: AH3

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	ECM (Variable Speed)
Heating Efficiency	10.5 HSPF
Heating Capacity [kBtu/h]	13.6
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	No
Supplemental Heat [kW]	0
Cooling Efficiency	16.8 SEER
Cooling Capacity [kBtu/h]	12

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Equipment Type: AH4

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	ECM (Variable Speed)
Heating Efficiency	10.5 HSPF
Heating Capacity [kBtu/h]	10.9
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	No
Supplemental Heat [kW]	0
Cooling Efficiency	16.9 SEER
Cooling Capacity [kBtu/h]	9

Equipment Type: AH5

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	ECM (Variable Speed)
Heating Efficiency	10.5 HSPF
Heating Capacity [kBtu/h]	20
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	No
Supplemental Heat [kW]	0
Cooling Efficiency	16.8 SEER
Cooling Capacity [kBtu/h]	18

Equipment Type: RE2H80T10

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	3.605948 Energy Factor
Tank Capacity (gal.)	75

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Distribution System

Distribution Type	Forced Air
Heating Equipment	Minisplits AH1
Cooling Equipment	Minisplits AH1
Sq. Feet Served	638
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	172.26
Return Duct Area [ft²]	63.8
Leakage to Outdoors	11 CFM @ 25Pa (1.72 / 100 ft²)
Total Leakage	80 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 3	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 4	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0

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Distribution System

Distribution Type	Forced Air
Heating Equipment	Minisplits AH2
Cooling Equipment	Minisplits AH2
Sq. Feet Served	2,179
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	588.33
Return Duct Area [ft²]	217.9
Leakage to Outdoors	11 CFM @ 25Pa (0.5 / 100 ft²)
Total Leakage	80 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 3	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 4	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0

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Distribution System

Distribution Type	Forced Air
Heating Equipment	Minisplits AH3
Cooling Equipment	Minisplits AH3
Sq. Feet Served	305
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	82.35
Return Duct Area [ft²]	30.5
Leakage to Outdoors	11 CFM @ 25Pa (3.61 / 100 ft²)
Total Leakage	80 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 3	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 4	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0

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Distribution System

Distribution Type	Forced Air
Heating Equipment	Minisplits AH4
Cooling Equipment	Minisplits AH4
Sq. Feet Served	988
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft ²]	266.76
Return Duct Area [ft ²]	98.8
Leakage to Outdoors	11 CFM @ 25Pa (1.11 / 100 ft ²)
Total Leakage	80 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 3	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 4	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0

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Distribution Type	Forced Air
Heating Equipment	Minisplits AH5
Cooling Equipment	Minisplits AH5
Sq. Feet Served	752
# Return Grilles	2
Supply Duct R Value	8
Return Duct R Value	8
Supply Duct Area [ft²]	203.04
Return Duct Area [ft²]	75.2
Leakage to Outdoors	11 CFM @ 25Pa (1.46 / 100 ft²)
Total Leakage	80 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100
Duct 2	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 3	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 4	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 5	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0
Duct 6	
Duct Location	Conditioned Space
Percent Supply Area	0
Percent Return Area	0

Ceiling Fan

Has Ceiling Fan	No
Cfm Per Watt	70.42254

Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	Yes
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Recirculation System Pipe Loop Length [ft]	170
Drain Water Heat Recovery?	No

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Clothes Dryer

Cef	3.94
Fuel Type	Electric
Field Utilization	Moisture Sensing
Is Outside Conditioned Space	No
Clothes Dryer Available	Yes
Defaults Type	Custom

Clothes Washer

Label Energy Rating	165 kWh/Year
Annual Gas Cost	\$12.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	5.2
Imef	2.06
Defaults Type	Custom
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

Dishwasher

Dishwasher Efficiency	270 kWh
Dishwasher Size	Standard
Is Outside Conditioned Space	No

Appliances and Controls

Programmable thermostat?	Yes
Range/Oven Fuel	Electric
Convection Oven?	Yes
Induction Range?	Yes
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	563 kWh/Year
Refrigerator Outside Conditioned Space?	No

Notes

Note for ES: Passes but no HVAC HQUITO per LEED checklist, unchecked ES rater checklist box.

Revised with solar.

15 Longfellow Ave:

4,862 sf

- VERIFIED w/ rater. 6 BR per RESNET / LEED v4.1. (Unclear from plans. Some rooms could comply, but may have to add doors (BR5), add "closet" function (BR5, master), and/or clarify "built-in cab" (BR1, BR3, BR4) to qualify for LEED v4.1 bedroom. Follow up with GBC.)

- LL >or= 50% below grade for LEED v4.1 calculation so 4,862sf - 1,040sf = 3,822sf