

Home Specifications for Showcase Homes Constructed Through the Low and Zero Emission Housing Innovation Project

Builders have some flexibility in how they choose to achieve LZE certification targets. The below table illustrates this flexibility, showing equipment and efficiency data by component for each of the three showcase home builders.

Showcase Home Specifications			
Building Component or Quality	Builder 1 Specs (ENERGY STAR NextGen certified)	Builder 2 Specs (ENERGY STAR NextGen and Zero Energy Ready Home certified)	Builder 3 Specs (Zero Energy Ready Home certified)
HERS Score	51	41	47
Above Grade Walls	R-23	R-31	R-28
Foundation Walls	R-11	R-19	N/A
Slab	R-0	R-0	N/A
Ceiling	R-60 ceiling/attic	R-63 ceiling/attic	R-60 ceiling/attic
Floor	N/A	R-74 framed floor	R-49 framed floor
Windows	U-value: 0.29 SHGC: 0.29	U-value: 0.23-0.25 SHGC: 0.22	U-value: 0.26 SHGC: 0.3
ACH	2.6 ACH50	1.95 ACH50	2.7 ACH50
Ventilation	ERV: 189 CFM at 90 Watts HRV	ERV: 125 CFM at 102 Watts	ERV: 40 CFM at 23 Watts
Heat Pump	HSPF2: 9.8 SEER2: 21.5	HSPF: 10.5 SEER: 22	HSPF: 12 SEER: 20
Water Heater	Electric UEF: 4.07	Heat pump water heater UEF: 4.09	ENERGY STAR hybrid water heater UEF: 3.75
Duct Leakage to Outdoors	61 CFM @ 25 Pa	38 CFM @ 25 Pa	5 CFM @ 25 Pa
Lighting	100% LED lighting	100% LED lighting	100% LED lighting
Appliances	ENERGY STAR certified dishwasher	All ENERGY STAR certified appliances	All ENERGY STAR certified appliances
EV Charging	EV-ready with 140-amp receptacle	EV-ready with 240-amp receptacle	EV-ready outlet
Solar PV	N/A	PV-ready	PV-ready
Other	Induction cooktop and electric oven	Induction cooktop	Electric cooking range

Building component specifications and efficiency ratings for each of the three showcase homes that participated in Utah Clean Energy's Low and Zero Emission Housing Initiative. Data was sourced from each home's Home Energy Rating System (HERS) report.