



NORTHWEST ENERGY EFFICIENT MANUFACTURED HOUSING PROGRAM

Technical Specification Comparison between NEEM ver. 1.1 and ver. 2.0

| | NEEM ver. 1.1, branded as ENERGY STAR® | NEEM ver. 2.0, branded as ENERGY STAR with NEEM+ |
|----------------------------------|--|--|
| Reference Path Insulation | | |
| Ceiling | R-40 | R-44 (or R-40 with improved floor) |
| Walls | R-21 standard framing | R-21 Intermediate framing w/insulated headers |
| Floor | R-33 | R-33 (or R-33/52 with R-40 ceiling) |
| Windows | U-0.35 | U-0.25 (or U-0.28 w/ added insulation) |
| Skylights | U-0.50 | U-0.50 |
| Entry Doors | U-0.19 | U-0.19 |
| Overall Average U-value | 0.053 | 0.049 |
| Building Tightness | 5.0 ACH @ 50 Pa, via standard NEEM measures | 4.0 ACH @ 50 Pa, via expanded air sealing measures |
| HVAC Measures | | |
| Duct System | Mastic, 0.06 CFM50/ft3 total | Mastic, 0.06 CFM50/ft3 total |
| Crossover duct | R-8, elbows, tensioned straps | R-8, elbows, tensioned straps |
| Thermostat | Programmable | Wi-Fi Connected “Smart” |
| Whole house ventilation | 32 Watts, <1 Sone | 17 Watts, <1 Sone |
| Lighting | Not Specified | LED Throughout |
| Appliances, ENERGY STAR | Dishwasher | Dishwasher and Refrigerator |
| Moisture Management | Not Specified | Building wrap & door/window flashing |