

Northwest Portable Classroom Project New Construction Commissioning Guidelines for the Pacific Northwest

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BUILDING AMERICA EFFICIENT PORTABLE CLASSROOM PROGRAM

NEW CONSTRUCTION COMMISSIONING GUIDELINES FOR THE PACIFIC NORTHWEST

Commissioning ensures the proper functioning of the classroom's mechanical systems and envelope. Prior to the commissioning process, all parties should agree on the required tasks. After the portable classroom is set up on site the commissioning shall include at least the following items:

- All mechanical equipment shall operate properly in accordance with the operation protocol provided by the HVAC manufacturer. The setback controls shall be set to ensure temperature setback and ventilation system shut down during nights, weekends, holidays and summer vacations. If provided, the 24/7/365 programmable thermostat shall be programmed for set back for nights, weekends, holidays and summer vacations.
- Outside fresh air supply flow measurements shall be taken to ensure that the correct mechanical ventilation rate is provided at the appropriate outside damper settings. Exhaust air flow measurements shall be taken to ensure correct ventilation system flow rates are achieved if exhaust ventilation is employed as part of the ventilation system.
- Supply air-flow measurements shall be conducted to ensure the correct ventilation air-flow rates of 15 cfm per designed occupancy.
- If provided, exhaust fan air flow rates shall be tested.
- During each classroom installation, the first representative classrooms shall be blower door and duct leakage tested to the values provided in the prescriptive path. Additional testing is required until prescriptive path values are achieved.