

Audit Event - QCI Diagnostic Tests

Please Note: CAZ Depressurization tests are not required in dwellings where all space and water heating plants are electric.

General Tests

- Blower Door at -50 Pa
 - A pressurization blower test will be performed if a home contains vermiculite (*BPI 1200 - 2017, 10.2*)
- Attic Zonal Pressures (with respect to outside)
- Test Existing Smoke & CO Detectors
- Pressure Pan Test (ducts outside thermal envelope)
- Gas Cookstove CO Tests and Fuel Leak Test (burners and oven, if clean and tune was called for) (*BPI 1200-2017, 7.9, Table 1*)
- Exhaust Fan Flow Test (on units that have been repaired or replaced) (*BPI 1200 - 2017, 1.3*)
- Ambient CO Test - Mechanical Room(s) & Living Space (*BPI 1200 - 2017, 7.3.3*)
- Verify dense packed insulation (*visual inspection, infrared with blower door, or chemical smoke*)

Water Heater

- Test for Fuel Leaks (*BPI 1200 - 2017, 7.5*)
- Water Heater Combustion Analysis/CO in Flue (*BPI 1200 -2017, Table 1 for CO thresholds, or AHJ whichever is more stringent*)
 - PVC test holes must be plugged with threaded, knurled screws to create a tight seal
- CAZ Depressurization Test (*BPI 1200 - 2017, 7.9*)
- Combustion Spillage Test (*BPI 1200 - 2017, 7.9*)
- Hot Water Temperature (if replaced or repaired)

Heating Plant

- Test for Fuel Leaks (*BPI 1200 - 2017, 7.5*)
- Heating Plant Combustion Analysis/CO in Flue (*BPI 1200 - 2017, Table 1 for CO thresholds or AHJ whichever is more stringent*)
 - PVC test holes must be plugged with threaded, knurled screws to create a tight seal
 - When a heating system manufacturer does not allow drilling of a metal flue, use a combustion analyzer to test ambient CO at the front of the heating system cabinet and in the closest supply register.
- CAZ Depressurization/Combustion Spillage Test. This test is required to be performed on natural draft appliances equipped with a barometric draft control or Category I appliances equipped with a draft hood or connected to a natural draft venting system. (*BPI 1200 - 2017, 7.9*)
- Test Furnace Shutoff Switch
- Heat Rise Test on Furnace
- Ambient CO Test in Mechanical Room and Living Space (*BPI 1200- 2017, 7.3.3*)
 - Smoke Test on Oil Furnace/Oil Water Heater (on units that have been repaired or replaced)
 - Room Balancing (on forced air heating plant)

Space Heater (including gas fireplaces, when work has been completed)

- Test for Fuel Leaks (*BPI 1200 - 2017, 7.5*)
- Combustion Analysis/CO in Flue (As feasible) (*1200 - 2017, Table 1 for CO thresholds or AHJ whichever is more stringent*)
- CAZ Depressurization/Combustion Spillage Test. (As feasible) This test is required to be performed on natural draft appliances equipped with a barometric draft control or Category I appliances equipped with a draft hood or connected to a natural draft venting system. (*BPI 1200 - 2017, 7.9*)