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| **A. Ducted Cooling System Information** | | |
| 01 | Space Conditioning System Identification or Name |  |
| 02 | Space Conditioning System Description of Area Served |  |
| 03 | Indoor Unit Name |  |
| 04 | System Installation Type |  |
| 05 | Nominal Cooling Capacity (tons) |  |
| 06 | Condenser Speed Type |  |
| 07 | Cooling System Zonal Control Type |  |
| 08 | Central Fan Integrated (CFI) Ventilation System Status |  |
| 09 | System Bypass Duct Status |  |
| 10 | Date of System Airflow Rate Measurement |  |
| 11 | Airflow Rate Protocol Utilized |  |
| 12 | Central Fan Ventilation Cooling System Status |  |

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| **B. Hole for the placement of a Static Pressure Probe (HSPP), and Permanently Installed Static Pressure Probe (PSPP) in the Supply Plenum**  Procedures for installing HSPP or PSPP are specified in RA3.3.1.1. | | |
| 01 | Method Used to Demonstrate Compliance with the HSPP/PSPP Requirement |  |

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| **C. Airflow Rate Measurement Apparatus and Procedure Information**  Instrument Specifications are given in RA3.3.1.1, and system airflow rate measurement apparatus information is given in RA3.3.2. | | |
| 01 | Airflow Rate Measurement Type Used for this Airflow Rate Verification |  |
| 02 | Manufacturer of Airflow Measurement Apparatus |  |
| 03 | Model number of Airflow Measurement Apparatus |  |
| 04 | Certification Status of the Airflow Measurement Apparatus Accuracy |  |

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| **MCH-23e Forced Air System Airflow Rate Measurement – Newly Installed Non-Zoned Systems or Zoned Multi-Speed Compressor with Central Fan Ventilation Cooling System** |

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| **D. Forced Air System Airflow Rate Measurement**  The procedures for System Airflow Rate Verification are specified in Reference Residential Appendix RA3.3. | | |
| 01 | Required Minimum System Airflow Rate (cfm/ton) |  |
| 02 | Required Minimum System Airflow Target (cfm) |  |
| 03 | Actual System Airflow Rate Measurement (cfm) |  |
| 04 | Compliance Statement: |  |

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| **E. Central Fan Ventilation Cooling System Airflow Rate Measurement**  The procedures for central fan ventilation cooling system airflow rate verification are specified in Reference Residential Appendix RA3.3.4 | | |
| 01 | Required Ventilation System Airflow Rate (cfm) |  |
| 02 | Actual System Ventilation Airflow Rate Measurement (cfm) |  |
| 03 | Compliance Statement: |  |

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| **F. Additional Requirements** | |
| 01 | Air filters that meet the applicable requirements of Standards Section 150.0(m)12 or 150.0(m)13 were properly installed in the system during system airflow rate measurement identified on this Certificate of Installation. |
| 02 | The airflow rate measurement apparatus used to perform the airflow rate measurement identified on this Certificate of Installation was calibrated in accordance with the apparatus manufacturer's specifications and conforms to the instrumentation specifications given in RA3.3.1. |
| 03 | A visual inspection shall confirm that bypass ducts that deliver conditioned supply air directly to the space conditioning system return duct airflow are not used on newly constructed zonally controlled systems unless the Performance Certificate of Compliance indicates an allowance for use of a bypass duct. When a bypass duct is accounted for on the Performance Certificate of Compliance, the airflow rate shall conform to the specifications listed on the Certificate of Compliance. |
| 04 | All registers were fully open during the diagnostic test. |
| 05 | System fan was set at maximum speed during the diagnostic test. |
| 06 | If fresh air duct is part of the HVAC system it was not closed during the diagnostic test. |
| 07 | Airflow rate and fan watt draw shall be simultaneous measurements when used to calculate the Fan Efficacy tested value. |
| 08 | Multi-speed compressor space cooling systems or variable speed compressor systems shall verify airflow (cfm/ton) and fan efficacy (Watt/cfm) with system operating in cooling mode at the maximum compressor speed and the maximum air handler fan speed. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| **Documentation Author's Declaration Statement** | | | |
| 1. I certify that this Certificate of Installation documentation is accurate and complete. | | | |
| Documentation Author Name: | | Documentation Author Signature: | |
| Documentation Author Company Name: | | Date Signed: | |
| Address: | | CEA/HERS Certification Identification (if applicable): | |
| City/State/Zip: | | Phone: | |
| **Responsible Person's Declaration statement** | | | |
| I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Installation is true and correct.I am either: a) a responsible person eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation and attest to the declarations in this statement, or b) I am an authorized representative of the responsible person and attest to the declarations in this statement on the responsible person’s behalf.  1. The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations and the installation conforms to the requirements given on the Certificate of Compliance, plans, and specifications approved by the enforcement agency. 2. I understand that a HERS rater will check the installation to verify compliance and if such checking determines the installation fails to comply, I am required to offer any necessary corrective action at no charge to the building owner. 3. I will ensure that a registered copy of this Certificate of Installation shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a registered copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy. | | | |
| Responsible Builder/Installer Name: | Responsible Builder/Installer Signature: | | |
| Company Name: (Installing Subcontractor or General Contractor or Builder/Owner) | Position With Company (Title): | | |
| Address: | CSLB License: | | |
| City/State/Zip: | Phone: | | Date Signed: |
| Third Party Quality Control Program (TPQCP) Status: | Name of TPQCP (if applicable): | | |

**CF2R-MCH-23e-H User Instructions**

**Section A. Ducted Cooling System Information**

1. System Identification or Name: This field is filled out automatically. It is referenced from the CF2R-MCH-01, which must be completed prior to this document.
2. System Location or Area Served: This field is filled out automatically. It is referenced from the CF2R-MCH-01, which must be completed prior to this document.
3. Indoor Unit Name: This field is filled out automatically. It is referenced from the CF2R-MCH-01, which must be completed prior to this document.
4. System Installation Type: Select the appropriate System Installation Type from the following choices:
   1. New: Use this choice for newly constructed buildings, additions with all-new systems dedicated to the addition, or new systems installed in existing homes where the equipment and ducts are all newly installed (aka, "Cut-in").
   2. Replacement: Use this choice if the system is a complete replacement space-conditioning system installed as part of an alteration, and includes all the system heating or cooling equipment plus a replacement duct system (150.2(b)1Diia) where the ducts are at least 75% or more newly installed duct material (up to 25% of the finished system may consist of reused parts from the dwelling unit’s previously existing duct system, such as registers, grilles, boots, air handler, coil, plenums, duct material); plus a replacement air handler.
   3. Alteration: Use this choice for existing buildings where any of the following are newly installed or replaced as part of the project and the system does not meet one of the other compliance categories above:
      1. 40 feet or more of space-conditioning system ducts are installed in unconditioned space or indirectly conditioned space.
      2. Air conditioning or heat pump condenser
      3. Heating or cooling coil
      4. Air handler (e.g., furnace, fan coil, package unit)
5. Nominal Cooling Capacity (tons): This field is filled out automatically. It is referenced from the CF2R-MCH-01, which must be completed prior to this document. If the number of indoor units connected to the outdoor unit is equal to one or the system is a packaged system then this field is equal to the nominal cooling capacity of the condenser. If the number of indoor units connected to the outdoor unit is greater than one this field is equal to the indoor unit nominal cooling capacity.
6. Condenser Speed Type: This field is filled out automatically. It is referenced from the CF2R-MCH-01, which must be completed prior to this document.
7. Cooling System Zonal Control Type: This field is filled out automatically. It is referenced from the CF2R-MCH-01, which must be completed prior to this document.
8. Central Fan Integrated (CFI) Ventilation System Status: If the system has Central Fan Integrated System, then select “CFI System”, otherwise select “Not a CFI system”.
9. System Bypass Duct Status: This field is filled out automatically. It is referenced from the CF2R-MCH-01, which must be completed prior to this document.
10. Date of System Airflow Rate Measurement: Enter the date that the airflow test was performed.
11. Airflow Rate Protocol Utilized: If the system installation type is “New” or “Replacement” then only the RA3.3 airflow methods may be used. If the system installation type is “Alteration”, the RA3.3 airflow methods may be used, but the Alternative to Compliance with Minimum System Airflow Requirements (“Best I Can Do” airflow) is an option for existing systems that may require substantial modification to improve the airflow.
12. Central Fan Ventilation Cooling System (CFVCS) Status: This field is filled out automatically. It is referenced from the CF2R-MCH-01, which must be completed prior to this document.

**Section B. Hole for the placement of a Static Pressure Probe (HSPP), and Permanently Installed Static Pressure Probe (PSPP) in the Supply Plenum.**

1. A hole for a static pressure probe (HSPP) or a permanent static pressure probe (PSPP) is required when system airflow verification is required, whether the airflow test method used requires one or not. Select the appropriate choice from the following options using a dropdown box, the Static Pressure Measurement Method:
2. If an Hole Static Pressure Probe is installed then select “HSPP Installed”
3. If a Permanent Static Pressure Probe is installed then select “PSPP Installed”
4. If the system is configured such that an HSPP nor PSPP can be installed, an alternate location that provides access for making supply plenum pressure measurement may be used. Select “An alternative location has been provided and clearly labeled.”
5. If the system is such that an HSPP or PSPP is not applicable, select “HSPP/PSPP are not applicable to this system”.

**Section C. Airflow Rate Measurement Apparatus and Procedure Information**

1. Airflow Rate Measurement Type Used for this Airflow Rate Verification: Select the appropriate airflow test procedure from the following options for the method used to determine actual fan airflow:
   1. Diagnostic Fan Flow Using Fan Flow Meter (aka Plenum Pressure Matching) according to the procedures in RA3.3.3.1.1
   2. Diagnostic Fan Flow Using Flow Grid Measurement according to the procedures in RA3.3.3.1.2
   3. Diagnostic Fan Flow Using Powered Flow Capture Hood according to the procedures in RA3.3.3.1.3
   4. Diagnostic Fan Flow Using Traditional Flow Capture Hood according to the procedures in RA3.3.3.1.4
2. Manufacturer of Airflow Measurement Apparatus: Enter the name of the manufacturer of the airflow measurement tool used to measure the airflow for this test.
3. Model Number of Airflow Measurement Apparatus: Enter the model number of the airflow measurement tool used to measure the airflow for this test.
4. Certification Status of the Airflow Measurement Apparatus Accuracy: The measurement apparatus used to perform airflow verification measurements must appear on the CEC list of approved devices found at <http://www.energy.ca.gov/title24/equipment_cert/ama_fas/index.html>, if this is true, select “Certified”, otherwise select “Not Certified”. The latter choice will not allow the system to pass until a certified device is used.
5. (not visible to user)

**Section D. Forced Air System Airflow Rate Measurement**

1. Required Minimum System Airflow Rate (cfm/ton): This field is filled automatically. The target is based on whether the system is new or altered and whether a value was specified on the CF2R-MCH-01.
2. Required Minimum System Airflow Target (cfm): This field is calculated automatically. It is the product of the minimum airflow rate per ton and the tonnage of the system condenser.
3. Actual System Airflow Rate Measurement (cfm): Enter the actual tested value of the airflow measured using the apparatus specified above.
4. Compliance Statement: This field is filled automatically. Compliance requires that the measured airflow meets the minimum airflow target.

**Section E. Central Fan Ventilation Cooling System Airflow Rate Measurement**

1. Required Ventilation System Airflow Rate (cfm): This field is filled automatically. The target is based on the airflow rate specified on the CF2R-MCH-01.
2. Actual System Ventilation Airflow Rate Measurement (cfm): Enter the actual tested value of the airflow measured using the apparatus specified above.
3. Compliance Statement: This field is filled automatically. Compliance requires that the measured airflow meets the airflow target.

**Section F. Additional Requirements**

1. This field must be a true statement (or not applicable) for the system to comply.
2. This field must be a true statement (or not applicable) for the system to comply.
3. This field must be a true statement (or not applicable) for the system to comply.
4. This field must be a true statement (or not applicable) for the system to comply.
5. This field must be a true statement (or not applicable) for the system to comply.
6. This field must be a true statement (or not applicable) for the system to comply.
7. This field must be a true statement (or not applicable) for the system to comply.
8. This field must be a true statement (or not applicable) for the system to comply.

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| **A. Ducted Cooling System Information** | | |
| 01 | Space Conditioning System Identification or Name | <<auto filled text: referenced from MCH01>> |
| 02 | Space Conditioning System Description of Area Served | <<auto filled text: referenced from MCH01>> |
| 03 | Indoor Unit Name | <<auto filled text: referenced from MCH01>> |
| 04 | System Installation Type | <<if the parent is a MCH-01B and a “yes” answer was given in B08 or B09, then A04 ≠ “alteration”; else User pick from complete list:  \*New; or  \*Replacement; or  \*Alteration>> |
| 05 | Nominal Cooling Capacity (tons) | <<calculated field:  If Cooling System Type on MCH-01 = ‘NoCooling’,  then, result in this field = ‘N/A - Heating-only system’;  Elseif, parent is **MCH-01a:**  **if** the duct system in MCH-01a field M03 has a value in MCH-01a field D06 > 1,  **then** value in this field = Indoor Unit Nominal Cooling Capacity value referenced from MCH-01a field G10,  **else** value in this field = Condenser Nominal Cooling Capacity value referenced from one of the following two locations:  1: [MCH-01a field F09 (if SC system is not a HP)]  2: [MCH-01a field I10 (if SC system is a HP)]  Elseif parent is **MCH-01b**:  **if** the duct system in MCH-01b field J03 has a value in MCH-01b field C12 > 1,  **then** value in this field = Indoor Unit Nominal Cooling Capacity value referenced from one of the following two locations:  1: [MCH-01b field F12 (if < 75% of duct system altered)]  2: [MCH-01b field G15 (if new or completely replaced duct system)]  **else** value in this field = Condenser Nominal Cooling Capacity value referenced from MCH-01b field E09  Elseif parent is **MCH-01c**:  **if** the duct system in MCH-01c field L03 has a value in MCH-01c field C11 > 1,  **then** value in this field = Indoor Unit Nominal Cooling Capacity value reference from MCH-01c field F10  **else** value in this field = Condenser Nominal Cooling Capacity value referenced from one of the following two locations:  1: [MCH-01c field E09 (if SC system is not a HP)]  2: [MCH-01c field H10 (if SC system is a HP)]  Elseif parent is **MCH-01d**:  **if** the duct system in MCH-01d field O03 has a value in MCH-01d field D06 > 1  **then** value in this field = Indoor Unit Nominal Cooling Capacity value referenced from one of the following two locations  1: [MCH-01d field K12 (if < 75% of duct system altered)]  2: [MCH-01d filed L15 (if new or completely replaced duct system)]  **else** value in this filed = Condenser Nominal Cooling Capacity value referenced from one of the following two locations:  1: [MCH-01d field G09 (if SC system is not a HP)]  2: [MCH-01d field J10 (if SC system is a HP)]  >> |
| 06 | Condenser Speed Type | <<calculated field: If cooling system type=NoCooling then display text result= n/a - Heating-only system;  elsif the condenser speed type is not given on the MCH-01,  then display text n/a –Condenser Speed requirements do not apply;  elsif the condenser speed type is given on the MCH-01,  then display value for Condenser Speed Type  (note on applicable MCH-01 docs the options are: MultiSpeed; or SingleSpeed)>> |
| 07 | Cooling System Zonal Control Type | <<calculated field:If cooling system type=NoCooling then display text result= n/a - Heating-only system;  elseif the Cooling System Zonal Control Type is not given on the MCH-01,  then display text: n/a –Cooling System Zonal Control requirements do not apply;  elsif the Cooling System Zonal Control Type is given on the MCH-01,  then display value for Cooling System Zonal Control Type  (note on applicable MCH-01 docs the options are: ZonallyControlled and NotZonal)>> |
| 08 | Central Fan Integrated (CFI) Ventilation System Status | <<calculated field:  reference value from MCH-01;  note: allowable values =  \*CFI System  \*Not CFI>> |
| 09 | System Bypass Duct Status | <<calculated field:  If parent is MCH-01b, MCH-01c, MCH-01d then value=N/A;  elseif parent is MCH-01a, reference value from MCH-01a section J10;  (note: on the MCH01a the options are: Has Bypass Duct; or No bypass duct)>> |
| 10 | Date of System Airflow Rate Measurement | <<user input: date: use validated date format>> |
| 11 | Airflow Rate Protocol Utilized | <<Calculated field:  If A04=(New or Replacement), then display result = RA3.3 procedures for airflow rate measurement;  elseif A04=Alteration then allow user to pick from list:  \*\*RA3.3.3.1.5 Alternative to Compliance with Minimum System Airflow Requirements, or  \*\* RA3.3 procedures for airflow rate measurement>> |
| 12 | Central Fan Ventilation Cooling System Status | <<Calculated Field:  Referenced from MCH-01, if MCH-01 variant is b or c, then display ‘Not a CFVCS’,  If B05 Central Fan Ventilation Cooling System Type = Variable, then display ‘Variable CFVCS’,  ElseIf Type = Fixed, then display ‘Fixed CFVCS’,  otherwise display ‘Not a CFVCS’.>> |

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| **B. Hole for the placement of a Static Pressure Probe (HSPP), and Permanently Installed Static Pressure Probe (PSPP) in the Supply Plenum**  Procedures for installing HSPP or PSPP are specified in RA3.3.1.1. | | |
| 01 | Method Used to Demonstrate Compliance with the HSPP/PSPP Requirement | <<user select one of the options from list:  \*\*HSPP installed and labeled consistent with Figure RA3.3-1;  or  \*\*PSPP installed and labeled consistent with Figure RA3.3-1,  or  \*\*HSPP/PSPP cannot be installed consistent with Figure RA3.3-1. An alternative location has been provided and clearly labeled,  or  \*\* HSPP/PSPP are not applicable to this system >> |

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| **C. Airflow Rate Measurement Apparatus and Procedure Information**  Instrument Specifications are given in RA3.3.1.1, and system airflow rate measurement apparatus information is given in RA3.3.2. | | |
| 01 | Airflow Rate Measurement Type Used for this Airflow Rate Verification | << user select one from list:   * Fan Flowmeter according to procedure in RA3.3.3.1.1 * Flow Grid according to procedure in RA3.3.3.1.2 * Powered Flow Capture Hood according to procedure in RA3.3.3.1.3 * Traditional Flow Capture Hood according to procedure in RA3.3.3.1.4>> |
| 02 | Manufacturer of Airflow Measurement Apparatus | <<user entry : text (or consider referencing from a data registry user profile)>> |
| 03 | Model number of Airflow Measurement Apparatus | <<user entry: text (or consider referencing from a data registry user profile)>> |
| 04 | Certification Status of the Airflow Measurement Apparatus Accuracy | <<user select from list:   * Certified by Manufacturer and listed on CEC Website at   <http://www.energy.ca.gov/title24/equipment_cert/ama_fas/index.html>, or   * Not Certified (do not continue)>> |
| 05 | Determination of MCH23 type (this field not visible to user) | <<calculated field:  If A11 = RA3.3.3.1.5 Then  If A04 = alteration Then Use variant MCH-23c;  ElseIf A11 = RA3.3 procedures Then  If A04=alteration then  if A12 = Variable CFVCS or Fixed CFVCS, Then use variant MCH-23e,  Else use variant MCH-23a  End  If A07 = ZonallyControlled Then  If A06 = SingleSpeed then  if A12 = Variable CFVCS or Fixed CFVCS, Then use variant MCH-23f  Else use variant MCH-23b;  ElseIf A06 = MultiSpeed then  if A12 = Variable CFVCS or Fixed CFVCS, Then use variant MCH-23e,  Else use variant MCH-23a;  ElseIf A07 = NotZonal Then  If cooling system type on MCH-01 = No Cooling And A08 = CFI System or A12 = Variable CFVCS or Fixed CFVCS, Then use variant MCH-23d,  Elseif A04 = New or Replacement then  if A12 = Variable CFVCS or Fixed CFVCS, Then use variant MCH-23e,  Else use variant MCH-23a;  ElseIf A07 = N/A Then  if A04 = New or Replacement, Then  If cooling system type on MCH-01 = No Cooling And A08 = CFI System or A12 = Variable CFVCS or Fixed CFVCS, Then use variant MCH-23d;  if A12 = Variable CFVCS or Fixed CFVCS, then use variant MCH-23e,  Else use variant MCH-23-a  End  End>> |

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| **MCH-23e Forced Air System Airflow Rate Measurement – Newly Installed Non-Zoned Systems or Zoned Multi-Speed Compressor with Central Fan Ventilation Cooling System** |

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| **D. Forced Air System Airflow Rate Measurement**  The procedures for System Airflow Rate Verification are specified in Reference Residential Appendix RA3.3. | | |
| 01 | Required Minimum System Airflow Rate (cfm/ton) | <<calculated field:  If MCH-01 – ResidentialCoolingSystemType = Small Duct High Velocity AC or Small Duct High Velocity HP, then value = 250  Elseif, A04 = Alteration, then value = 300;  Elseif parent is MCH-01a, and B10 ≠ D09, then value = 350;  Elseif parent is MCH-01a, and C08 ≠ NA, then reference value from MCH-01a C08;  Else value = 350>> |
| 02 | Required Minimum System Airflow Target (cfm) | <<calculated field: = A05 multiplied by value in D01>> |
| 03 | Actual System Airflow Rate Measurement (cfm) | <<user input numeric value: xxxx>> |
| 04 | Compliance Statement: | <<If D03≥D02, the display text "system airflow rate complies", else display text "system does not comply with minimum airflow rate requirement">> |

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| **E. Central Fan Ventilation Cooling System Airflow Rate Measurement**  The procedures for central fan ventilation cooling system airflow rate verification are specified in Reference Residential Appendix RA3.3.4 | | |
| 01 | Required Ventilation System Airflow Rate (cfm) | <<calculated field:  Reference MCH-01 C11, Central Fan Ventilation Cooling Airflow>> |
| 02 | Actual System Ventilation Airflow Rate Measurement (cfm) | <<user input numeric value: xxxx>> |
| 03 | Compliance Statement: | <<If A12 = ‘Fixed CFVCS’, then if E02≥E01, result = "System ventilation airflow rate complies"  ElseIf A12 = ‘Variable CFVCS’, then if E02≤E01, result = "System ventilation airflow rate complies"  Else display text "System does not comply with ventilation airflow rate requirement" >> |

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| **F. Additional Requirements** | |
| 01 | Air filters that meet the applicable requirements of Standards Section 150.0(m)12 or 150.0(m)13 were properly installed in the system during system airflow rate measurement identified on this Certificate of Installation. |
| 02 | The airflow rate measurement apparatus used to perform the airflow rate measurement identified on this Certificate of Installation was calibrated in accordance with the apparatus manufacturer's specifications and conforms to the instrumentation specifications given in RA3.3.1. |
| 03 | A visual inspection shall confirm that bypass ducts that deliver conditioned supply air directly to the space conditioning system return duct airflow are not used on newly constructed zonally controlled systems unless the Performance Certificate of Compliance indicates an allowance for use of a bypass duct. When a bypass duct is accounted for on the Performance Certificate of Compliance, the airflow rate shall conform to the specifications listed on the Certificate of Compliance. |
| 04 | All registers were fully open during the diagnostic test. |
| 05 | System fan was set at maximum speed during the diagnostic test. |
| 06 | If fresh air duct is part of the HVAC system it was not closed during the diagnostic test. |
| 07 | Airflow rate and fan watt draw shall be simultaneous measurements when used to calculate the Fan Efficacy tested value. |
| 08 | Multi-speed compressor space cooling systems or variable speed compressor systems shall verify airflow (cfm/ton) and fan efficacy (Watt/cfm) with system operating in cooling mode at the maximum compressor speed and the maximum air handler fan speed. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |