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| **A. Design HERS Verified Dwelling Unit Water Heating Systems Information**  This table reports the water heating system(s) features specified on the registered CF1R compliance document for this project. | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Water Heating System ID or Name | Water Heating System Type | Water Heater Type | # of Water Heaters in System | Fuel Type | Rated Input Type | Rated Input Value | Central DHW System Distribution | Dwelling Unit DHW System  Distribution Type | Compact Distrib. | Drain Water Heat Recovery |
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| **B. Installed HERS Verified Dwelling Unit Water Heating Systems Information**  This table reports the water heating system features installed in this project. | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Water Heating System ID or Name | Water Heating System Type | Water Heater Type | # of Water Heaters in System | Fuel Type | Rated Input Type | Rated Input Value | Central DHW System Distribution | Dwelling Unit DHW System  Distribution Type | Compact Distrib. | Drain Water Heat Recovery |
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| **C. Design HERS Verified Dwelling Unit Water Heating Efficiency Information**  This table reports the water heater(s) efficiency features specified on the registered CF1R compliance document for this project. (Not needed for central systems) | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Water Heating System ID or Name | Heating Efficiency Type | Heating Efficiency Value | Standby Loss  (%) | Exterior Insulation  R-Value | Water Heater Storage  Volume (gal) | Tank Location |
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| **D. Installed HERS Verified Dwelling Unit Water Heating Efficiency Information**  This table reports the water heater(s) efficiency features specified on the registered CF1R compliance document for this project. (Not needed for central systems) | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Water Heating System ID or Name | Heating Efficiency Type | Heating Efficiency Value | Standby Loss  (%) | Exterior Insulation  R-Value | Water Heater Storage  Volume (gal) | Tank Location |
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| **E. Installed Water Heater Manufacturer Information** | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Manufacturer | Model Number |
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| **F. Mandatory Measures for all Domestic Hot Water Distribution Systems** | |
| 01 | Equipment shall meet the applicable requirements of the Appliance Efficiency Regulations (Section 110.3(b)1). |
| 02 | Unfired storage tanks are insulated with an external R-12 or combination of R-16 internal and external Insulation. (Section 110.3(c)4). |
| 03 | All domestic hot water piping shall be insulated as specified in Section 609.11 of the California Plumbing Code. In addition, the following piping conditions shall have a minimum insulation wall thickness of 1 inch or a minimum insulation R-value of 7.7 (RA4.4.1)   * + The first 5 feet (1.5 meters) of cold water pipes from the storage tank.   + All piping with a nominal diameter of 3/4 inch (19 millimeter) and less than 1 inch.   + All hot water piping from the heating source to the kitchen fixtures.   + Piping from the heating source to storage tank or between tanks.   + All piping associated with a recirculation system.   + All underground piping.   + Insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.   + Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration.Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall butt securely against all framing members.   + Piping installed in interior or exterior walls that is surrounded on all sides by at least 1 inch (5 cm) of insulation.   + Piping installed in crawlspace with a minimum of 1 inches (5 cm) of crawlspace insulation above and below.   + Piping installed in attics with a minimum of 4 inches (10 cm) of attic insulation on top.   + Pipe insulation shall fit tightly and all elbows and tees shall be fully insulated. |
| 04 | For Gas or Propane Water Heaters: Ensure the following are installed (Section 150.0(n))   * A dedicated 125V, 20A electrical receptacle connected to the electric panel with a 120/240V 3 conductor, 10 AWG copper branch circuit, within 3 feet from the water heater and is accessible with no obstructions;   + The conductor shall be labeled with the word “Spare” on both ends; and   + A reserved single pole circuit breaker space next to the circuit breaker next to the branch circuit in A labeled “Future” 240V shall be provided. * A Category III or IV vent, or a Type B vent with straight pipe between outside and water heater. * A condensate drain no more than 2 inches higher than the base on water heater for natural draining. * A gas supply line with capacity of at least 200,000 Btu/hr. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| **G. HERS-Verified Compact Hot Water Distribution Expanded Credit (CHWDS-H-EX)** (RA3.6.5)  Systems that utilize this distribution type shall comply with these requirements. | | |
| 01 | Master bath distance of furthest fixture to water heater in feet |  |
| 02 | Kitchen distance from furthest fixture to water heater in feet |  |
| 03 | Furthest third furthest fixture to water heater in feet |  |
| 04 | Weighted Distance |  |
| 05 | Qualification Distance |  |
| 06 | No hot water piping >1 inch diameter is allowed. | |
| 07 | Length of 1 inch diameter piping is limited to 8 feet or less. | |
| 08 | Two and three story buildings cannot have hot water distribution piping in the attic, unless the water heater is also located in the attic. | |
| 09 | Eligible recirculating systems must be HERS-Verified Demand Recirculation: Manual Control conforming to RA4.4.17. | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | | |

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| **H. Compact Hot Water Distribution Basic (CHWDS)** (RA4.4.6)  This table reports the inputs and results for CHWD. | | |
| 01 | Master bath distance of furthest fixture to water heater in feet |  |
| 02 | Kitchen distance from furthest fixture to water heater in feet |  |
| 03 | Furthest third furthest fixture to water heater in feet |  |
| 04 | Weighted Distance |  |
| 05 | Qualification Distance |  |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met** | | |

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| **I. HERS-Verified Drain Water Heat Recovery System (DWHR-H)** (RA3.6.9)  DWHR devices shall comply with these requirements. | | | | | | | |
| 01 | | 02 | 03 | 04 | 05 | 06 | 07 |
| Manufacturer | | Model Number | Rated Effectiveness | Installation Angle | Installation Configuration | Percent of shower served by the DWHR device | DWHR System Certified by CEC  (Yes/No) |
|  | |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |
| 08 | For water heating system serving a single dwelling, the DWHR system shall, at the minimum, recover heat from the master bathroom shower and must transfer that heat either back to the respective shower(s) or the water heater. | | | | | | |
| 09 | For central water heating system serving multiple dwellings, the DWHR system shall, at the minimum, recover heat from half the showers located above the first floor and must transfer that heat either back to all the respective showers or the water heater. | | | | | | |
| 10 | The DWHR unit(s) shall be installed within 1 degree of the rated slope. Sloped DWHR shall have a minimum lengthwise slope of 1 degree. The lateral level tolerance shall be within plus or minus 1 degree. | | | | | | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | | | | | | | |

| **J. HERS-Verified Pipe Insulation Credit Requirements (PIC-H)** (RA3.6.3)  Systems that utilize this distribution type shall comply with these requirements. | |
| --- | --- |
| 01 | HERS rater shall perform a visual inspection that all hot water piping complies with the insulation requirements in 150.0(J). |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **K. HERS-Verified Parallel Piping Requirements (PP-H)** (RA3.6.4)  Systems that utilize this distribution type shall comply with these requirements. | |
| --- | --- |
| 01 | Each central manifold has 5 feet or less of pipe between manifold and water heater. |
| 02 | For manifolds that include valves, the manifold must be readily accessible in accordance with the plumbing code. |
| 03 | Hot water distribution system piping from the manifold to the fixtures and appliances must take the most direct path. For example, piping from a second story manifold cannot supply the first floor. |
| 04 | The hot water distribution piping must be separated by at least 2 inches from any other hot water supply piping, and at least 6 inches from any cold water supply piping. Alternatively, the hot water supply piping must be insulated to the thicknesses shown in Table 120.3-A. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **L. Parallel Piping Requirements (PP)** (RA4.4.4)  Systems that utilize this distribution type shall comply with these requirements. | |
| --- | --- |
| 01 | Each central manifold has 15 feet or less of pipe between manifold and water heater. |
| 02 | For manifolds that include valves, the manifold must be readily accessible in accordance with the plumbing code. |
| 03 | Hot water distribution system piping from the manifold to the fixtures and appliances must take the most direct path. For instance, piping from a second story manifold cannot supply the first floor. |
| 04 | The hot water distribution piping must be separated by at least 2 inches from any other hot water supply piping, and at least 6 inches from any cold water supply piping. Alternatively, the hot water supply piping must be insulated to the thicknesses shown in Table 120.3-A. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.**  **et.** | |

| **M. Point of Use Requirements (POU)** (RA4.4.5)  Systems that utilize this distribution type shall comply with these requirements. | |
| --- | --- |
| 01 | All hot water supply pipe run lengths are equal to or less than the maximum values shown below, based on the pipe diameter. If a combination of piping is used in a single run, then one half the allowed length of each size is the maximum installed length.  The maximum allowed length of piping for the longest run terminating in:  3/8 inch - For only one pipe size - max length allowed is 15 feet  For combination pipe sizes the max allowed length of 3/8-inch piping is 7.5 feet, of 1/2 inch piping is 5 feet, and 3/4 inch piping is 2.5 feet.  1/2 inch - For only one pipe size – max length allowed is 10 feet  For combination pipe sizes the allowed length of 1/2inch piping is 5 feet, and 3/4 inch piping is 2.5 feet.  3/4 inch - For only one pipe size = 5 feet |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **N. Mandatory Requirements for all Recirculation Systems** (RA4.4.7)  Systems that utilize a recirculation system shall comply with these requirements. | |
| --- | --- |
| 01 | A check valve located between the recirculation pump and the water heater to prevent unintentional recirculation. |
| 02 | Piping must take the most direct path between water heater and fixtures. |
| 03 | Insulation is not required on the cold water line when it is used as the return. |
| 04 | If more than one loop is installed each loop shall have its own pump and controls. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met** | |

| **O. Recirculation Non-Demand Controls Requirements (R-ND)** (RA4.4.8)  Systems that utilize this distribution type shall comply with these requirements. | |
| --- | --- |
| 01 | The active control shall be either: timer, temperature, or time and temperature. Timers shall be set to less than 24 hours. The temperature sensor shall be connected to the piping and to the controls for the pump. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **P. Demand Recirculation Manual Control (R-DRmc)** (RA4.4.9)**/Sensor Control (RDRsc)** (RA4.4.10) **Requirements**  Systems that utilize either of these distribution types shall comply with these requirements. | |
| --- | --- |
| 01 | The system operates “on-demand”, meaning that the pump begins to operate shortly before or immediately after hot water draw begins, and stops when the return water temperature reaches a certain threshold value. For Demand Recirculation Manual Control, the pump shall be turned on using a manual switch system. For Demand Recirculation Sensor Control, the pump shall be turned on using a sensor system. |
| 02 | The controls shall be located in the kitchen, bathroom, and any hot water fixture location that is at least 20 feet from the water heater. |
| 03 | Manual controls may be active by wired or wireless mechanisms. |
| 04 | Sensor controls may be activated by wired or wireless mechanisms, including buttons, motion sensors, door switches and flow switches. Each control shall have standby power of 1 Watt or less. |
| 05 | Pump and control placement shall meet one of the following criteria:   * When a dedicated return line has been installed the pump, controls and thermo-sensor are installed at the end of the supply portion of the recirculation loop; or * The pump and controls are installed on the dedicated return line near the water heater and the thermo-sensor is installed in an accessible location as close to the end of the supply portion of the recirculation loop as possible; or * When the cold water line is used as the return, the pump, demand controls and thermo-sensor shall be installed in an accessible location at the end of supply portion of the hot water distribution line (typically under a sink). |
| 06 | After the pump has been activated, the controls shall allow the pump to operate until the water temperature at the thermo-sensor rises to one of the following values:   * Not more than 10°F (5.6°C) above the initial temperature of the water in the pipe; or * Not more than 102°F (38.9°C). |
| 07 | Controls shall limit operation to no more than 5 minutes following activation. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **Q. HERS-Verified Demand Recirculation Manual Control (RDRmc-H)** (RA3.6.6)**/Sensor Control (RDRsc-H)** (RA3.6.7) **Requirements**  Systems that utilize this distribution type shall comply with these requirements | |
| --- | --- |
| 01 | HERS rater shall perform a visual inspection that to verify that the demand pump, manual/sensor controls and thermo-sensor are present and operating properly consistence with the applicable requirements of RA4.4.9 and RA4.4.10 |
| **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-PLB-22-H User Instructions**

**A. Design Dwelling Unit Water Heating Systems Information**

This table reports the water heating system features that were specified on the registered CF1R compliance document for this project. His section is for information/verification purposes only and requires no user input.

**B. Installed Dwelling Unit Water Heating Systems Information**

This table reports the water heating system information that is being installed. Require one line for each system.

01 Water Heating System ID or Name – Reference information from Table A.

02 Water Heating System Type – Reference information from Table A. The different kinds of water heating system type are DHW, or Combined Hydronic.

03 Water Heater Type – Reference information from Table A. The different kinds of water heaters are Large/Commercial Storage, Small/Consumer Storage, Residential-Duty Commercial Storage, Heat Pump, Boiler, Large/Commercial Instantaneous, Small/Consumer Instantaneous, Residential-Duty Commercial Instantaneous or Indirect.

04 # of Water Heaters in system – Reference information from Table A.

05 Fuel Type – Reference information from Table A. The different kinds of fuel types are heat pump, electric resistance, natural gas, and propane.

06 Rated Input Type – Reference information from Table A. For natural gas and propane, the input type is Btu/hr. For heat pump and electric resistance, the input type is kW.

07 Rated Input Value – User input. Numerical value of the rated input. Must be equal to or less than value indicated on the CF1R.

08 Central DHW System Distribution - Reference information from Table A.

09 Dwelling Unit DHW System Distribution Type - Reference information from Table A.

10 Compact Distribution - Reference information from Table A.

11 Drain Water Heat Recovery - Reference information from Table A.

**C. Design Dwelling Unit Water Heating Efficiency Information**

This table reports the water heating system features that were specified on the registered CF1R compliance document for this project. This section is for information/verification purposes only and requires no user input.

**D. Installed Dwelling Unit Water Heating Efficiency Information**

This table reports the water heating system information that is being installed. Require one line for each central system.

01 Water Heating System ID or Name – Reference information from Table A.

02 Heating Efficiency Type – Reference information from Table C. Different efficiency types are Energy Factor, AFUE, UEF and Thermal Efficiency.

03 Heating Efficiency Value – User input must be equal to or higher efficiency than value indicated on the CF1R.

04 Standby Loss – User input. Must be equal to or less than value indicated in Table C. Value may be N/A if CF1R value is N/A.

05 Exterior Insulation R-Value – User input. Must be equal to or higher than value indicated in Table C. Value may be N/A if CF1R value is N/A.

06 Water Heater Storage Volume (gal) – User input. Value may be N/A if water heater type is instantaneous with zero storage.

07 Tank location – User input. Must be equal to system type indicated in Table C.

**E. Installed Water Heater Manufacturer Information**

This table reports the manufacturer information of the installed water heater(s). Require one line for each installed water heater

01 Water Heating System ID or Name – Reference information from CF1R.

02 Manufacturer – User input. Enter the name of the water heater manufacturer.

03 Model Number – User input. Enter the model number of the water heater.

**F. Mandatory Measures for all Domestic Hot Water Distribution Systems**

This table lists the requirements for all DHW systems. HERS rater must ensure all the requirements in this table are met.

**G. HERS-Verified Compact Hot Water Distribution Expanded Credit and H. Compact Hot Water Distribution Basic**

If performance compliance is used, this table lists the values used in the performance calculation and require no user input.

If prescriptive compliance is used, fill out this table.

01 Enter the master bath distance of furthest fixture to water heater in feet.

02 Enter the kitchen distance from furthest fixture to water heater in feet.

03 Enter furthest third fixtures from fixture to Water Heater in feet.

04 Weighted Distance - Calculated value – no user input required.

05 Qualification Distance - Calculated value – no user input required.

**I. HERS-Verified Drain Water Heat Recovery System**

This table lists the requirements for all drain water heat recovery systems. HERS rater must ensure all the requirements in this table are met.

01 Drain Water Heat Recovery Manufacturer’s Name- Enter the name of the manufacturer.

02 Drain Water Heat Recovery Manufacturer’s Model Number – Enter the model number.

03 Rated Effectiveness – Enter the rated effectiveness of the DWHR device.

04 Installation Angle – Enter the angle of installation.

05Installation Configuration – Enter type of configuration. Available options are: Equal flow, unequal to shower, and unequal to water heater

06 Percent of showers served by the DWHR device – Enter the percent of showers served by this DWHR device.

07 DWHR System Certified by CEC – Enter “Yes” if certified or else enter “No”.

**J. HERS-Verified Pipe Insulation Credit Requirements**

This table only applies to systems indicated as HERS-Verified Pipe Insulation Credit.In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

**K. HERS-Verified Parallel Piping Requirements**

This table only applies to systems indicated as HERS-Verified Parallel Piping. In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

**L. Parallel Piping Requirements**

This table only applies to systems indicated as Parallel Piping. In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

**M. Point of Use Requirements**

This table only applies to systems indicated as Point of Use In addition to the mandatory requirements in Table F, the installer must ensure the requirements in this table are met.

**N. Mandatory Requirements for all Recirculation Systems**

The requirements of this table apply to all recirculation systems listed below.

**O. Recirculation Non-Demand Controls Requirements**

This table only applies to systems indicated as Recirculation Non-demand Controls. In addition to the mandatory requirements in Table F and N, the installer must ensure the requirements in this table are met.

**P. Demand Recirculation Manual Control/Sensor Control Requirements**

This table only applies to systems indicated as Demand Recirculation Manual Control, Demand Recirculation Senor Control, HERS-Verified Demand Recirculation Manual Control or HERS-Verified Demand Recirculation Senor Control. In addition to the mandatory requirements in Table F and N, the installer must ensure the requirements in this table are met.

**Q. HERS-Verified Demand Recirculation Manual Control/Sensor Control Requirements**

This table only applies to systems indicated as HERS-Verified Demand Recirculation Manual Control or HERS-Verified Demand Recirculation Senor Control. In addition to the mandatory requirements in Table F and N, the installer must ensure the requirements in this table are met.

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| **A. Design HERS Verified Dwelling Unit Water Heating Systems Information**  This table reports the water heating system features that were specified on the registered CF1R compliance document for this project.  <<require one row of data for each Dwelling Unit Water Heating System name identified on the CF1R report>> | | | | | | | | | | | | | | | |
| 01 | 02 | | 03 | 04 | 05 | 06 | | 07 | | 08 | 09 | 10 | | 11 |
| Water Heating System ID or Name | Water Heating System Type | | Water Heater Type | # of Water Heaters in System | Fuel Type | Rated Input Type | | Rated Input Value | | Central DHW System Distribution | Dwelling Unit DHW System  Distribution Type | Compact Distrib. | | Drain Water Heat Recovery |
| <<reference values from CF1R (see rule in header)>> | <<reference values from CF1R  allowed values=  DHW,  Combined Hydronic, Hydronic>> | | <<reference values from CF1R  Allowed values =  Boiler, Indirect, Consumer Instantaneous, Commercial Instantaneous, Consumer Storage, Commercial Storage, Residential-Duty Commercial Storage, or Residential-Duty Commercial Instantaneous >> | <<reference values from CF1R>> | <<reference values from CF1R. Allowed values are Heat Pump, Electric Resistance, Natural Gas, or Propane >> | <<reference value from CF1R;  If parent CF1R = CF1R-ADD, ALT or NCB, then value = NA;  Elseif parent CF1R = CF1R-PRF; then allowed values: if Fuel Type (A05) = Natural Gas, Propane then value = Btu/Hr;  If Fuel Type = Electric Resistance, then value= kW;  If Fuel Type = Heat Pump, then value = NA>> | | <<if A05 = Heat Pump, then result = NA;  If performance, reference value from CF1R-PRF; Elseif Prescriptive, then value = NA >> | | <<reference values from CF1R. If Central DHW System then value= Yes;  else value = NA | <<reference values from CF1R  If performance and  A08 = NA then allowed values are  \*Standard Distribution System  \* Point of Use  \* Parallel Piping  \*Recirculation System Non-Demand Control  \* Demand Recirculation Manual Control  \* Demand Recirculation Sensor Control  \*HERS-Verified Pipe Insulation Credit  \* HERS-Verified Parallel Piping  \* HERS-Verified Demand Recirculation Manual Control  \* HERS-Verified Demand Recirculation Sensor Control;  Else if A08 ≠ NA then allowed values are  \* Standard Distribution System  \*HERS-Verified Pipe Insulation Credit;  Else if prescriptive,  Allowed values are  \*Standard Distribution System  \* Demand Recirculation Manual Control>> | <<reference values from CF1R. Allowed values are  \*Basic  \*Expanded  \*None>> | | <<reference values from CF1R. Allowed values are  \*Yes  \*None>> |
|  |  |  | |  |  |  |  | |  | |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **B. Installed HERS Verified Dwelling Unit Water Heating Systems Information**  This table reports the water heating system features that were specified on the registered CF1R compliance document for this project.  <<require one row of data for each Dwelling Unit Water Heating System name identified on the CF1R report>> | | | | | | | | | | | | |
| 01 | 02 | | 03 | 04 | 05 | 06 | | 07 | 08 | 09 | 10 | 11 |
| Water Heating System ID or Name | Water Heating System Type | | Water Heater Type | # of Water Heaters in System | Fuel Type | Rated Input Type | | Rated Input Value | Central DHW System Distribution | Dwelling Unit DHW System  Distribution Type | Compact Distrib. | Drain Water Heat Recovery |
| <<Reference value from A01>> | << Reference value from A02  >> | | << Reference value from A03 >> | << Reference value A04 >> | << Reference value from A05>> | <<Reference value from A06 >> | | <<User input value which must pass the following range tests: Value may be NA if A07 is NA.  If B05 = Natural Gas or Propane, then  If B03 = Commercial Storage, then value must be > 75,000 Btu/hr;  If B03 = Consumer Storage, then value must be ≤ 75,000 Btu/hr;  If B03 = Commercial Instant, then value must be > 200,000 Btu/hr;  If B03 = Consumer Instant, then value must be ≤ 200,000 Btu/hr;  Else if B03 = Residential-Duty Commercial Storage, then value must be ≤ 105,000 Btu/hr;  Else if B06 = Electricity, then  If B03 = Commercial Storage or Commercial Instant, then value must be > 12 kW;  If B03 = Consumer Storage or Consumer Instant, then value must be ≤ 12 kW;  Else if B03 = Residential-Duty Commercial Instantaneous, then value must be ≤ 58.6 kW;  End If  If the value passes range test, it is stored in WaterHeaterElectricFiredRatedInput, if A06 = Electric Resistance Otherwise the value is stored in WaterHeaterGasFiredRatedInput  Else If A08 = NA, then NA>>  >> | << Reference value from A08>> | << Reference value from A09>> | << Reference value from A10>> | << Reference value from A11>> |
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| **C. Design HERS Verified Dwelling Unit Water Heating Efficiency Information**  This table reports the water heater(s) efficiency features specified on the registered CF1R compliance document for this project.  <<If A08 “Central DHW Distribution” ≠“NA”, then display the "section does not apply" message; else display this entire table >> | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Water Heating System ID or Name | Heating Efficiency Type | Heating Efficiency Value | Standby Loss  (%) | Exterior Insulation  R-Value | Water Heater Storage  Volume (gal) | Tank Location |
| <<Reference value A01>> | <<reference values from CF1R; if parent CF1R = CF1R-ADD, ALT or NCB, then value = NA; else if parent = CF1R-PRF, then allowed values are:  \*Uniform Energy Factor  \*AFUE  \*Thermal Efficiency>> | << reference values from CF1R-PRF-01; Else = NA>> | <<reference values from CF1R-PRF-01; Else = NA >> | <<reference values from CF1R-PRF-01;  Else = NA >> | <<reference values from CF1R. NA is allowed only if Water Heater Type = Consumer Instantaneous,  Commercial Instantaneous, or Residential-Duty Commercial Instantaneous >> | << If CF1R-PRF-01, then, if TankOutside=true, then report ‘Outside’; else report TankZone;  Else reference prescriptive CF1R>> |
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| **D. Installed HERS Verified Dwelling Unit Water Heating Efficiency Information**  This table reports the water heating system efficiency features that were installed in this project.  <<If A08 “Central DHW Distribution” ≠“NA”, then display the "section does not apply" message; else display this entire table >> | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Water Heating System ID or Name | Heating Efficiency Type | Heating Efficiency Value | Standby Loss  (%) | Exterior Insul.  R-Value | Water Heater Storage  Volume (gal) | Tank Location |
| <<Reference value from A01>> | <<Reference value from C02>> | <<User input value; check value must be ≥ value in C03 to comply, else flag non-compliant values and do not allow the doc to be registered >> | <<User input value; check value must be ≤ value in C04 to comply, else flag non-compliant values and do not allow the doc to be registered. Value may be NA if C04 is NA >> | <<User input value; check value must be ≥ value in C05 to comply, else flag non-compliant values and do not allow the doc to be registered. Value may be NA if C05 is NA >> | << User Input must equal reference values from C06. NA is allowed only if Water Heater Type = Consumer Instantaneous or Commercial Instantaneous>> | <<User input value; check value must be = value in C07 to comply, else flag non-compliant values and do not allow the doc to be registered. Value may be NA if CF1R value is NA >> |
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| **E. Installed Water Heater Manufacturer Information**  <<If A08 “Central DHW Distribution” ≠“NA”, then display the "section does not apply" message; else display this entire table >> | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Manufacturer | Model Number |
| <<reference value from A01>> | <<User input>> | <<User input>> |
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| **F. Mandatory Measures for all Domestic Hot Water Distribution Systems** | |
| 01 | Equipment shall meet the applicable requirements of the Appliance Efficiency Regulations (Section 110.3(b)1). |
| 02 | Unfired storage tanks are insulated with an external R-12 or combination of R-16 internal and external Insulation. (Section 110.3(c)4). |
| 03 | All domestic hot water piping shall be insulated as specified in Section 609.11 of the California Plumbing Code. In addition, the following piping conditions shall have a minimum insulation wall thickness of 1 inch or a minimum insulation R-value of 7.7 (RA4.4.1)   * + The first 5 feet (1.5 meters) of cold water pipes from the storage tank.   + All piping with a nominal diameter of 3/4 inch (19 millimeter) and less than 1 inch.   + All hot water piping from the heating source to the kitchen fixtures.   + Piping from the heating source to storage tank or between tanks   + All piping associated with a recirculation system.   + All underground piping.   + Insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.   + Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall butt securely against all framing members.   + Piping installed in interior or exterior walls that is surrounded on all sides by at least 1 inch (5 cm) of insulation.   + Piping installed in crawlspace with a minimum of 1 inches (5 cm) of crawlspace insulation above and below.   + Piping installed in attics with a minimum of 4 inches (10 cm) of attic insulation on top.   + Pipe insulation shall fit tightly and all elbows and tees shall be fully insulated. |
| 04 | For Gas or Propane Water Heaters: Ensure the following are installed (Section 150.0(n))   * A dedicated 125V, 20A electrical receptacle connected to the electric panel with a 120/240V 3 conductor, 10 AWG copper branch circuit, within 3 feet from the water heater and is accessible with no obstructions.   + The conductor shall be labeled with the word “Spare” on both ends; and   + A reserved single pole circuit breaker space next to the circuit breaker next to the branch circuit in A labeled “Future” 240V shall be provided. * A Category III or IV vent, or a Type B vent with straight pipe between outside and water heater. * A condensate drain no more than 2 inches higher than the base on water heater for natural draining. * A gas supply line with capacity of at least 200,000 Btu/hr. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| **G. HERS-Verified Compact Hot Water Distribution Expanded Credit (CHWDS-H-EX)** (RA3.6.5)  This table reports the inputs and results for CHWDS-H-EX.  <<If A10 “Compact Distrib.” = “Expanded”, then display this entire table; else display the "section does not apply" message>> | | |
| 01 | Master bath distance of furthest fixture to water heater in feet. | <<Reference Value from CF1R-PRF, Else if prescriptive compliance, user input>> |
| 02 | Kitchen distance from furthest fixture to water heater in feet. | <<Reference Value from CF1R-PRF, Else if prescriptive compliance, user input>> |
| 03 | Furthest third fixtures from fixture to water heater in feet | <<Reference Value from CF1R-PRF, Else if prescriptive compliance, user input>> |
| 04 | Weighted Distance | << Reference Value from CF1R-PRF, Else if prescriptive compliance, if nonrecirculating system, then Weighted Distance G04 = 0.4\*G01 + 0.4\*G02 + 0.2\*G03.  If recirculation system, then Weighted Distance G04 = G03 |
| 05 | Qualification Distance | << Reference Value from CF1R-PRF, Else if prescriptive compliance, Qualification Distance G05 = (a+b \*CFA)/n  Where:  a, b = Qualification distance coefficients see Table 4.4.6-2 below,  CFA = Conditioned floor area of the dwelling unit (ft2), and  N = Number of water heaters in the dwelling unit (unitless).  Table 4.4.6-2: Coefficients for the Qualification Distance Calculation   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **Coefficient a** | | **Coefficient b** | | | **Building Type** | **Non-Recirculating** | **Recirculating** | **Non-Recirculating** | **Recirculating** | | **Single Family** |  |  |  |  | | One story | 10 | 22.7 | 0.0095 | 0.0099 | | Two story | 15 | 11.5 | 0.0045 | 0.0095 | | Three story | 10 | 0.5 | 0.0030 | 0.014 |   >> |
| 06 | No hot water piping >1 inch diameter is allowed. | |
| 07 | Length of 1 inch diameter piping is limited to 8 feet or less. | |
| 08 | Two and three story buildings cannot have hot water distribution piping in the attic, unless the water heater is also located in the attic. | |
| 09 | Eligible recirculating systems must be HERS-Verified Demand Recirculation: Manual Control conforming to RA4.4.17. | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | | |

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| **H. Compact Hot Water Distribution Basic (CHWDS) (RA4.4.6)**  This table reports the inputs and results for CHWDS. <<If A10 “Compact Distrib.” = “Basic”, then display this entire table; else display the "section does not apply" message>> | | |
| 01 | Master bath distance of furthest fixture to water heater in feet. | <<Reference Value from CF1R-PRF, Else if prescriptive compliance, user input>> |
| 02 | Kitchen distance from furthest fixture to water heater in feet. | <<Reference Value from CF1R-PRF, Else if prescriptive compliance, user input>> |
| 03 | Furthest third fixtures from fixture to water heater in feet | <<Reference Value from CF1R-PRF, Else if prescriptive compliance, user input>> |
| 04 | Weighted Distance | << Reference Value from CF1R-PRF, Else if prescriptive compliance, if nonrecirculating system, then Weighted Distance H04 = 0.4\*H01 + 0.4\*H02 + 0.2\*H03.  If recirculation system, then Weighted Distance H04 = H03 |
| 05 | Qualification Distance | << Reference Value from CF1R-PRF, Else if prescriptive compliance, Qualification Distance H05 = (a+b \*CFA)/n  Where:  a, b = Qualification distance coefficients see Table 4.4.6-2 below,  CFA = Conditioned floor area of the dwelling unit (ft2), and  N = Number of water heaters in the dwelling unit (unitless).  Table 4.4.6-2: Coefficients for the Qualification Distance Calculation   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **Coefficient a** | | **Coefficient b** | | | **Building Type** | **Non-Recirculating** | **Recirculating** | **Non-Recirculating** | **Recirculating** | | **Single Family** |  |  |  |  | | One story | 10 | 22.7 | 0.0095 | 0.0099 | | Two story | 15 | 11.5 | 0.0045 | 0.0095 | | Three story | 10 | 0.5 | 0.0030 | 0.014 |   >> |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | | |

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| **I. HERS-Verified Drain Water Heat Recovery System (DWHR-H)** (RA3.6.9)  <<If A11 “Drain Water Heat Recovery” = “None”, then display the "section does not apply" message; else display this entire table >> | | | | | | |
| 01 | | 02 | 03 | 05 | 06 | 07 |
| Manufacturer | | Model Number | Rated Effectiveness | Installation Configuration | Percent of shower served by the DWHR device | DWHR System Certified by CEC  (Yes/No) |
| <<User input>> | | <<User input>> | <<User input, range check: 0.42≤I03<1 >> | <<user pick from list:   * Equal flow * Unequal to shower * Unequal to water heater>> | <<User input, range check: 0<I06≤100 >> | <<user select from list: Yes or No>> |
|  | |  |  |  |  |  |
| 08 | For water heating system serving a single dwelling, the DWHR system shall, at the minimum, recover heat from the master bathroom shower and must transfer that heat either back to the respective shower(s) or the water heater. | | | | | |
| 09 | For central water heating system serving multiple dwellings, the DWHR system shall, at the minimum, recover heat from half the showers located above the first floor and must transfer that heat either back to all the respective showers or the water heater. | | | | | |
| 10 | The DWHR unit(s) shall be installed within 1 degree of the rated slope. Sloped DWHR shall have a minimum lengthwise slope of 1 degree. The lateral level tolerance shall be within plus or minus 1 degree. | | | | | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | | | | | | |

| **J. HERS-Verified Pipe Insulation Credit Requirements (PIC-H)** (RA3.6.3)  Systems that utilize this distribution type shall comply with these requirements.  <<If there are no systems in column A09 that have a value = “HERS-Verified Pipe Insulation Credit”, then display the "section does not apply" message; else display this entire table >> | |
| --- | --- |
| 01 | HERS rater shall perform a visual inspection that all hot water piping complies with the insulation requirements in 150.0(J). |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **K. HERS-Verified Parallel Piping Requirements (PP-H)** (RA3.6.4)  Systems that utilize this distribution type shall comply with these requirements.  <<If A09 “Dwelling Unit DHW System Distribution Type” = “HERS-Verified Parallel Piping”, then display this entire table, else display “section does not apply" message>> | |
| --- | --- |
| 01 | Each central manifold has 5 feet or less of pipe between manifold and water heater. (RA4.4.15) |
| 02 | For manifolds that include valves, the manifold must be readily accessible in accordance with the plumbing code. (RA4.4.4) |
| 03 | Hot water distribution system piping from the manifold to the fixtures and appliances must take the most direct path. For example, piping from a second story manifold cannot supply the first floor. (RA4.4.4) |
| 04 | The hot water distribution piping must be separated by at least 2 inches from any other hot water supply piping, and at least 6 inches from any cold water supply piping. Alternatively, the hot water supply piping must be insulated to the thicknesses shown in TABLE 120.3-A. (RA 4.4.4) |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **L. Parallel Piping Requirements (PP)** (RA4.4.4)  Systems that utilize this distribution type shall comply with these requirements.  <<If A09 “Dwelling Unit DHW System Distribution Type” = “Parallel Piping”, then display this entire table, else display “section does not apply" message>> | |
| --- | --- |
| 01 | Each central manifold has 15 feet or less of pipe between manifold and water heater. |
| 02 | For manifolds that include valves, the manifold must be readily accessible in accordance with the plumbing code. |
| 03 | Hot water distribution system piping from the manifold to the fixtures and appliances must take the most direct path. For instance, piping from a second story manifold cannot supply the first floor. |
| 04 | The hot water distribution piping must be separated by at least 2 inches from any other hot water supply piping, and at least 6 inches from any cold water supply piping. Alternatively, the hot water supply piping must be insulated to the thicknesses shown in Table 120.3-A. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been m**  **et.** | |

| **M. Point of Use Requirements (POU)** (RA4.4.5)  Systems that utilize this distribution type shall comply with these requirements  <<If A09 “Dwelling Unit DHW System Distribution Type” = “Point of Use”, then display this entire table, else display “section does not apply" message>> | |
| --- | --- |
| 01 | All hot water supply pipe run lengths are equal to or less than the maximum values shown below, based on the pipe diameter. If a combination of piping is used in a single run, then one half the allowed length of each size is the maximum installed length.  The maximum allowed length of piping for the longest run terminating in:  3/8 inch - For only one pipe size - max length allowed is 15 feet  For combination pipe sizes the max allowed length of 3/8-inch piping is 7.5 feet, of 1/2 inch piping is 5 feet, and 3/4 inch piping is 2.5 feet.  1/2 inch - For only one pipe size – max length allowed is 10 feet  For combination pipe sizes the allowed length of 1/2 inch piping is 5 feet, and 3/4 inch piping is 2.5 feet.  3/4 inch - For only one pipe size = 5 feet |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **N. Mandatory Requirements for all Recirculation System** (RA4.4.7)  Systems that utilize a recirculation system shall comply with these requirements.  <<If A09 “Dwelling Unit DHW System Distribution Type” = “Recirculation System Non-Demand Control”, “Demand Recirculation Manual Control”, “Demand Recirculation Sensor Control”, “HERS-Verified Demand Recirculation Manual Control”, or “HERS-Verified Demand Recirculation Sensor Control”, then display this entire table, else display “section does not apply" message>> | |
| --- | --- |
| 01 | A check valve located between the recirculation pump and the water heater to prevent unintentional recirculation. |
| 02 | Piping must take the most direct path between water heater and fixtures. |
| 03 | Insulation is not required on the cold water line when it is used as the return. |
| 04 | If more than one loop is installed each loop shall have its own pump and controls. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met** | |

| **O. Recirculation Non-Demand Controls Requirements (R-ND)** (RA4.4.8)  Systems that utilize this distribution type shall comply with these requirements.  <<If A09 “Dwelling Unit DHW System Distribution Type” = “Recirculation System Non-Demand Control”, then display this entire table, else display “section does not apply" message >> | |
| --- | --- |
| 01 | The active control shall be either: timer, temperature, or time and temperature. Timers shall be set to less than 24 hours. The temperature sensor shall be connected to the piping and to the controls for the pump. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **P. Demand Recirculation Manual Control (R-DRmc)** (RA4.4.9)**/Sensor Control Requirements (RDRsc)** (RA4.4.10)  Systems that utilize either of these distribution types shall comply with these requirements.  <<If A09 “Dwelling Unit DHW System Distribution Type” = “Demand Recirculation Manual Control”, “Demand Recirculation Sensor Control”, “HERS-Verified Demand Recirculation Manual Control”, or “HERS-Verified Demand Recirculation Sensor Control”, then display this entire table, else display “section does not apply" message >> | |
| --- | --- |
| 01 | The system operates “on-demand”, meaning that the pump begins to operate shortly before or immediately after hot water draw begins, and stops when the return water temperature reaches a certain threshold value. For Demand Recirculation Manual Control, the pump shall be turned on using a manual switch system. For Demand Recirculation Sensor Control, the pump shall be turned on using a sensor system. |
| 02 | The controls shall be located in the kitchen, bathroom, and any hot water fixture location that is at least 20 feet from the water heater. |
| 03 | Manual controls may be activated by wired or wireless mechanisms. |
| 04 | Sensor Controls may be activated by wired or wireless mechanisms, including buttons, motion sensors, door switches and flow switches. Each control shall have standby power of 1 Watt or less. |
| 05 | Pump and control placement shall meet one of the following criteria:   * When a dedicated return line has been installed the pump, controls and thermo-sensor are installed at the end of the supply portion of the recirculation loop; or * The pump and controls are installed on the dedicated return line near the water heater and the thermo-sensor is installed in an accessible location as close to the end of the supply portion of the recirculation loop as possible; or * When the cold water line is used as the return, the pump, demand controls and thermo-sensor shall be installed in an accessible location at the end of supply portion of the hot water distribution line (typically under a sink). |
| 06 | After the pump has been activated, the controls shall allow the pump to operate until the water temperature at the thermo-sensor rises to one of the following values:   * Not more than 10°F (5.6°C) above the initial temperature of the water in the pipe; or * Not more than 102°F (38.9°C). |
| 07 | Controls shall limit operation to no more than 5 minutes following activation. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **Q. HERS-Verified Demand Recirculation Manual Control (RDRmc-H)** (RA3.6.6)**/Sensor Control (RDRsc-H)** (RA3.6.7) **Requirements**  Systems that utilize either of these distribution types shall comply with these requirements.  <<If A09 “Dwelling Unit DHW System Distribution Type” = “HERS-Verified Demand Recirculation Manual Control” or “HERS-Verified Demand Recirculation Sensor Control”, then display this entire table, else display “section does not apply" message >> | |
| --- | --- |
| 01 | HERS rater shall perform a visual inspection that to verify that the demand pump, manual/sensor controls and thermo-sensor are present and operating properly consistence with the applicable requirements of RA4.4.9 and RA4.4.10 |
| **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): | |