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| **A. General Information** | | |
| 01 | Building Name |  |

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| **B. Design HERS Verified Central Water Heating Systems Information**  This table reports the water heating system features that were specified on the registered CF1R compliance document for this project. | | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Water Heating System ID or Name | Water Heating System Type | Water Heater Type | # of Water Heaters in System | Water Heater  Storage  Volume (gal) | Fuel Type | Rated Input Type | Rated Input Value | Heating Efficiency Type | Heating Efficiency Value | Standby Loss  (%) | Exterior Insul.  R-Value |
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| **C. Installed HERS Verified Central Water Heating Systems Information**  This table reports the water heating system features that were specified on the registered CF1R compliance document for this project. | | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Water Heating System ID or Name | Water Heating System Type | Water Heater Type | # of Water Heaters in System | Water Heater  Storage  Volume (gal) | Fuel Type | Rated Input Type | Rated Input Value | Heating Efficiency Type | Heating Efficiency Value | Standby Loss  (%) | Exterior Insul.  R-Value |
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| **D. Design HERS Verified Central Water Heating Distribution Systems Information**  This table reports the water heating distribution types specified on the registered CF1R compliance document for this project. | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Central DHW System  Distribution Type | Dwelling Unit DHW System  Distribution Type |
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| **E. Installed HERS Verified Central Water Heating Distribution Systems Information**  This table reports the water heating distribution types specified on the registered CF1R compliance document for this project. | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Central DHW System  Distribution Type | Dwelling Unit DHW System  Distribution Type |
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| **F. Installed HERS Verified Water Heater Manufacturer Information** | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Manufacturer | Model Number |
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| **G. Mandatory Requirements for All Central Domestic Hot Water Systems** | | |
| 01 | On systems that have a total capacity greater than 167,000 Btu/hr, outlets that require higher than service water temperatures as listed in the ASHRAE Handbook have separate remote heaters, heat exchangers, or boosters to supply the outlet with the higher temperature. (Section 110.3 (c)1) | |
| 02 | Systems with circulating pumps or with electrical heat trace systems shall be capable of automatically turning off the system. (Section 110.3(c) 2). | |
| 03 | Unfired storage tanks are insulated with:   * External insulation of R-12, or * Internal insulation of R-16, or * The heat loss of the tank surface based on an 80°F water-air temperature difference shall be less than 6.5 Btuh/ft2. (Section 110.3(c)3). | |
| 04 | Recirculation loop shall meet the following requirements:   * + The recirculation pump is mounted on a vertical section of the return line, OR an automatic air release valve is installed on a riser at least 12 inches in length, on the inlet side of the recirculation pump, no more than 4 feet from the pump. (Section 110.3(c) 4A).   + A check valve is located between the recirculation pump and the water heater. (Section 110.3(c) 4B).   + A hose bib is installed between the pump and the water heating equipment with an isolation valve between the hose bib and the water heating equipment. 110.3(c) 4C).   + Isolation valves shall be installed on both sides of the pump, of which the item C valve can be one. 110.3(c)4D   + The cold water piping and the recirculation loop piping shall not be connected to the hot water storage tank drain port. 110.3(c)4E   + A check valve shall be installed on the cold water supply line between the hot water system and the next closest tee on the cold water supply line. 110.3(c)4F. | |
| 05 | Instantaneous water heaters with an input greater than 6.8 kBTU/hr. (2kW) shall have isolation valves on both the cold water supply and the hot water line. (110.3 (c) 6). | |
| 06 | All sections of the recirculation loop, and the first 5 feet of all branches off the loop are insulated, to the thicknesses required by Table 120.3A. Other hot water piping shall meet the requirements of 150(j) and the installation requirements in, except for the following: (RA4.4.1). The following shall be insulated with a minimum of 1 inch of insulation.   * Piping ¾ inch or greater. * Piping from the water heater to the kitchen sink and dish-washer installed in. * All underground piping * Piping from the heating source to storage tank or between tanks. * Piping installed in the attic that are surrounded by at least 1 (10 cm) inch of insulation and covered with 4 inches of insulation need not be insulated * Piping in walls interior or exterior walls that is surrounded on all sides by at least 1 inch of insulation need not be insulated. * Piping installed in attics with a minimum of 4 inches (10 cm) of attic insulation on top * Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Metal 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. * Insulation is not required on the cold water line when it is used as the return | |
| 07 | Verification Status: | * Pass - all applicable requirements are met; or * Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or * All N/A - This entire table is not applicable |
| 08 | Correction Notes: | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.** | | |



















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| **H. HERS-Verified Multiple Recirculation Loops for DHW Systems Serving Multiple Dwelling Units Requirements**  All distribution systems listed on this form shall comply with these requirements. | | |
| 01 | All buildings with 8 or more dwelling units have a **minimum** of 2 recirculation loops. | |
| 02 | Each loop roughly serves the same number of dwellings. | |
| 03 | Verification Status: | * Pass - all applicable requirements are met; or * Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or * All N/A - This entire table is not applicable |
| 04 | Correction Notes: | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.** | | |

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| **I. Determination of HERS Verification Compliance**  All applicable sections of this document shall indicate compliance with the specified verification protocol requirements in order for this Certificate of Verification as a whole to be determined to be in compliance. | |
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| **Documentation Author's Declaration Statement** | | | |
| 1. I certify that this Certificate of Verification documentation is accurate and complete. | | | |
| Documentation Author Name: | Documentation Author Signature: | | |
| Company: | Date Signed: | | |
| Address: | CEA/HERS Certification Information (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:   1. The information provided on this Certificate of Verification is true and correct. 2. I am the certified HERS Rater who performed the verification identified and reported on this Certificate of Verification (responsible rater). 3. The installed features, materials, components, manufactured devices, or system performance diagnostic results that require HERS verification identified on this Certificate of Verification comply with the applicable requirements in Reference Appendices RA2, RA3, and the requirements specified on the Certificate of Compliance for the building approved by the enforcement agency. 4. The information reported on applicable sections of the Certificate(s) of Installation (CF2R) signed and submitted by the person(s) responsible for the construction or installation conforms to the requirements specified on the Certificate(s) of Compliance (CF1R) approved by the enforcement agency. 5. I will ensure that a registered copy of this Certificate of Verification 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 Verification is required to be included with the documentation the builder provides to the building owner at occupancy. | | | |
| **BUILDER OR INSTALLER INFORMATION AS SHOWN ON THE CERTIFICATE OF INSTALLATION** | | | |
| Company Name (Installing Subcontractor, General Contractor, or Builder/Owner): | | | |
| Responsible Builder or Installer Name: | | CSLB License: | |
| **HERS PROVIDER DATA REGISTRY INFORMATION** | | | |
| Sample Group Number (if applicable): | | | Dwelling Test Status in Sample Group (if applicable): |
| **HERS RATER INFORMATION** | | | |
| HERS Rater Company Name: | | | |
| Responsible Rater Name: | | | Responsible Rater Signature: |
| Responsible Rater Certification Number w/ this HERS Provider: | | | Date Signed: |

**CF3R-PLB-21-H User Instructions**

**A. General Information**

This table reports the building location as specified on the Registered CF1R.

**B. Design HERS Verified Central Water Heating Systems Information**

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

**C. Installed HERS Verified Central Water Heating Systems 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 CF1R.

02 Water Heating System Type – Reference information from CF1R. The different kinds of water heating system type are DHW or Combined Hydronic.

03 Water Heater Type – Information from CF1R. 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 CF1R.

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

06 Fuel Type – Reference information from CF1R. The different kinds of fuel types are natural gas, propane, oil, or electricity.

07 Rated Input Type – Reference information from CF1R. For natural gas, propane and oil fuel type the input type is Btu/Hr. For electric the input type is kW.

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

09 Heating Efficiency Type – Reference information from CF1R. Different efficiency types are Energy Factor, AFUE, UEF and Thermal Efficiency.

10 Heating Efficiency Value – User input. Numerical value of the Heating Efficiency. Must be equal to or higher efficiency than value indicated on the CF1R

11 Standby Loss – User input. Must be equal to or less than value indicated on the CF1R. Value may be N/A if CF1R value is N/A.

12 Exterior Insul. R-Value – User input. Must be equal to or higher than value indicated on the CF1R. Value may be N/A if CF1R value is N/A.

**D. Design HERS Verified Central Water Heating Distribution Systems Information**

This table reports the water heating distribution types specified on the registered CF1R compliance document for this project.

**E. Installed HERS Verified Central Water Heating Distribution Systems Information**

01 Central DHW System Distribution Type = Reference information from CF1R.

02 Dwelling Unit DHW System Distribution Type =- Reference information from CF1R.

**F. Installed HERS Verified 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.

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**G. Mandatory Requirements for All Central Domestic Hot Water Recirculation Systems**

This table lists the requirements for all central recirculation systems. Installer must ensure all the requirements in this table are met.

**H. HERS-Verified Multiple Recirculation Loops for DHW Systems Serving Multiple Dwelling Units Requirements**

This table applies to all systems identified on this compliance document. This measure requires on site HERS verification that at least two central recirculation loops are included in the system design. This credit is available to buildings with 8 or more units. The recirculation loops must be relatively equal in length and supply approximately the same number of dwelling units.







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| **A. General Information** | | | | |
| 01 | Dwelling Unit Name | <<user input>> | | |

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| **B. Design HERS Verified Central Water Heating Systems Information**  This table reports the water heating system features that were specified on the registered CF1R compliance document for this project. | | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Water Heating System ID or Name | Water Heating System Type | Water Heater Type | # of Water Heaters in System | Water Heater  Storage  Volume (gal) | Fuel Type | Rated Input Type | Rated Input Value | Heating Efficiency Type | Heating Efficiency Value | Standby Loss  (%) | Exterior Insul.  R-Value |
| <<Reference values from CF1 >> | <<If Performance reference values from CF1R-PRF-01  Allowed values=  DHW, or  Combined Hydronic; elseIf Prescriptive then NA  >> | <<If Performance reference values from CF1R-PRF-01  Allowed values =  Large Storage, Small Storage, Heat Pump, Boiler, Large Instantaneous, Small Instantaneous, Indirect, Consumer Instantaneous, Commercial Instantaneous, Consumer Storage, Commercial Storage, Residential-Duty Commercial Storage, or Residential-Duty Commercial Instantaneous. If Prescriptive then Reference Value CF-1R (M03) Input Options are limited to: Gas Fired –types include  Large Storage, Small Storage, Heat Pump, Boiler, Large Instantaneous, Small Instantaneous, Indirect, Consumer Instantaneous, Commercial Instantaneous, Consumer Storage, Commercial Storage, Residential-Duty Commercial Storage, or Residential-Duty Commercial Instantaneou s >> | <<Reference values from CF1R >> | << Reference values from CF1R >> | << Reference values from CF1R, allowed values: Natural Gas, Propane, Electric Resistance, or Heat Pump >> | <<if B06 = Heat Pump, then result = NA;  If B06 = Natural Gas or Propane, then value = Btu/Hr;  Else if B06 = Electricity then value = kW >> | <<if B03 = Heat Pump, then result = NA; If performance, reference value from CF1R-PRF; Else if prescriptive B08 = NA>> | <<If Performance reference values from CF1R-PRF-01. Allowed values are \*Energy Factor, \*AFUE  \*Thermal Efficiency  \*Uniform Energy Factor;  Else value = NA >>>> | <<If Performance reference value from CF1R-PRF-01;  Else value = NA >> | <<If Performance, reference Value from CF1R-PRF-01;  Else = NA >> | <<If Performance, reference Value from CF1R-PRF-01;  Else = NA>> |
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| **C. Installed HERS Verified Central Water Heating Systems Information**  This table reports the water heating system features that were specified on the registered CF1R compliance document for this project. | | | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Water Heating System ID or Name | Water Heating System Type | Water Heater Type | # of Water Heaters in System | Water Heater  Storage  Volume (gal) | | Fuel Type | Rated Input Type | Rated Input Value | Heating Efficiency Type | Heating Efficiency Value | Standby Loss  (%) | Exterior Insul.  R-Value |
| << Reference values from B01 >> | << Reference values from B02 >> | << Reference values from B03 >> | << Reference values from B04 >> | << Reference values from B05 >> | | << Reference values from B06 >> | << Reference values from B07>> | <<User input value which must pass the following range tests:  If C06 = Heat Pump, then C08 = NA;  If C06 = Natural Gas or Propane, then  If C03 = Commercial Storage, then value must be > 75,000 Btu/hr;  If C03 = Consumer Storage, then value must be ≤ 75,000 Btu/hr;  If C03 = Commercial Instant, then value must be > 200,000 Btu/hr;  If C03 = Consumer Instant, then value must be ≤ 200,000 Btu/hr;  Else if C03 = Residential-Duty Commercial Storage, then value must be ≤ 105,000 Btu/hr;  Else if C06 = Electric Resistance, then  If C03 = Commercial Storage or Commercial Instant, then value must be > 12 kW;  If C03 = r Consumer Storage or Consumer Instant, then value must be ≤ 12 kW;  Else if C03 = 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 C06 = Electric Resistance. Otherwise the value is stored in WaterHeaterGasFiredRatedInput>> | << Reference values from B09; If prescriptive, then user select from: AFUE, Thermal Efficiency, Energy Factor>> | << User Input must ≥ B10, value may only be NA if B10 = NA >> | << User Input must ≤ B11, value may only be NA if B11=NA>> | << User Input must ≥ B12,  Value may only be NA if B12 = NA>> |
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| 13 | Compliance Statement | | | | <<calculated field: If C08 ≤ B08, and C10 ≥ B10, and C11 ≤ B11, and C12 ≥ B12, then display result = System complies; else display result = system does not comply>> | | | | | | | |

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| **D. Design HER Verified Water Heating Distribution Systems Information**  This table reports the water heating distribution types specified on the registered CF1R compliance document for this project.  **<<**If prescriptive compliance, then display the "section does not apply" message; else display this entire table >> | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Central DHW System  Distribution Type | Dwelling Unit DHW System  Distribution Type |
| <<reference values from CF1R (see rule in header)>> | << Reference values from CF1R-PRF-01. Allowed values are  \* Multi-family: Recirculating with temperature modulation;  \* Multi-family: Recirculating with temperature modulation and monitoring;  \* Multi-family: Recirculating demand control;  \* Multi-family: Recirculating with no control (continuous pumping)  \*Multi-family: No loops or recirc pump >> | << Reference values from CF1R-PRF-01  Allowed values are  \*Standard Distribution System  \*HERS-Verified Pipe Insulation >> |
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| **E. Installed HERS Verified Water Heating Distribution Systems Information**  This table reports the water heating distribution types specified on the registered CF1R compliance document for this project. | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Central DHW System  Distribution Type | Dwelling Unit DHW System  Distribution Type |
| <<reference values from CF1R (see rule in header)>> | << Reference value from D02>> | << Reference value from D03>> |
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| **F. Installed HERS Verified Water Heater Manufacturer Information**  << require one row of data in this table for each of the Water Heaters listed in Section B04>> | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Manufacturer | Model Number |
| << Reference value from B01>> | <<User input>> | <<User input>> |
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| **G. Mandatory Requirements for All Central Domestic Hot Water Systems** | | |
| 01 | On systems that have a total capacity greater than 167,000 Btu/hr, outlets that require higher than service water temperatures as listed in the ASHRAE Handbook have separate remote heaters, heat exchangers, or boosters to supply the outlet with the higher temperature. (Section 110.3 (c)1) | |
| 02 | Systems with circulating pumps or with electrical heat trace systems shall be capable of automatically turning off the system. (Section 110.3(c) 2). | |
| 03 | Unfired storage tanks are insulated with:   * External insulation of R-12, or * Internal insulation of R-16, or * The heat loss of the tank surface based on an 80°F water-air temperature difference shall be less than 6.5 Btuh/ft2. (Section 110.3(c) 3). | |
| 04 | Recirculation loop shall meet the following requirements:   * + The recirculation pump is mounted on a vertical section of the return line, OR an automatic air release valve is installed on a riser at least 12 inches in length, on the inlet side of the recirculation pump, no more than 4 feet from the pump. (Section 110.3(c) 4A).   + A check valve is located between the recirculation pump and the water heater. (Section 110.3(c) 4B).   + A hose bib is installed between the pump and the water heating equipment with an isolation valve between the hose bib and the water heating equipment. 110.3(c) 4C).   + Isolation valves shall be installed on both sides of the pump, of which the item C valve can be one. 110.3(c)4D   + The cold water piping and the recirculation loop piping shall not be connected to the hot water storage tank drain port. 110.3(c)4E   + A check valve shall be installed on the cold water supply line between the hot water system and the next closest tee on the cold water supply line. 110.3(c)4F. | |
| 05 | Instantaneous water heaters with an input greater than 6.8 kBTU/hr (2kW) shall have isolation valves on both the cold water supply and the hot water line. (110.3 (c)6). | |
| 06 | All sections of the recirculation loop, and the first 5 feet of all branches off the loop are insulated, to the thicknesses required by Table 120.3A. Other hot water piping shall meet the requirements of 150(j) and the installation requirements in, except for the following: (RA4.4.1). The following shall be insulated with a minimum of 1 inch of insulation.   * Piping ¾ inch or greater. * Piping from the water heater to the kitchen sink and dish-washer installed in. * All underground piping * Piping from the heating source to storage tank or between tanks. * Piping installed in the attic that are surrounded by at least 1 (10 cm) inch of insulation and covered with 4 inches of insulation need not be insulated * Piping in walls interior or exterior walls that is surrounded on all sides by at least 1 inch of insulation need not be insulated. * Piping installed in attics with a minimum of 4 inches (10 cm) of attic insulation on top * Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Metal 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. * Insulation is not required on the cold water line when it is used as the return | |
| 07 | Verification Status: | * Pass - all applicable requirements are met; or * Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or * All N/A - This entire table is not applicable |
| 08 | Correction Notes: | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.** | | |

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| **H. HERS-Verified Multiple Recirculation Loops for DHW Systems Serving Multiple Dwelling Units Requirements**  All distribution systems listed on this form shall comply with these requirements. | | |
| 01 | All buildings with 8 or more dwelling units have a **minimum** of 2 recirculation loops. | |
| 02 | Each loop roughly serves the same number of dwellings. | |
| 03 | Verification Status: | * Pass - all applicable requirements are met; or * Fail - one or more applicable requirements are not met. Enter reason for failure in corrections notes field below; or * All N/A - This entire table is not applicable |
| 04 | Correction Notes: | |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met unless otherwise noted in the Verification Status and the Corrections Notes in this table.** | | |























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| **I. Determination of HERS Verification Compliance**  All applicable sections of this document shall indicate compliance with the specified verification protocol requirements in order for this Certificate of Verification as a whole to be determined to be in compliance. | |
| 01 | << if C13 result = System Complies, and results for all applicable sections G and H ≠ fail, then display: Complies: All specified verification protocol requirements on this document are met; else display: Does not comply: One or more specified verification protocol requirements on this document are not met.>> |

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| **Documentation Author's Declaration Statement** | | | |
| 1. I certify that this Certificate of Verification documentation is accurate and complete. | | | |
| Documentation Author Name: | Documentation Author Signature: | | |
| Company: | Date Signed: | | |
| Address: | CEA/HERS Certification Information (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:   1. The information provided on this Certificate of Verification is true and correct. 2. I am the certified HERS Rater who performed the verification identified and reported on this Certificate of Verification (responsible rater). 3. The installed features, materials, components, manufactured devices, or system performance diagnostic results that require HERS verification identified on this Certificate of Verification comply with the applicable requirements in Reference Appendices RA2, RA3, and the requirements specified on the Certificate of Compliance for the building approved by the enforcement agency. 4. The information reported on applicable sections of the Certificate(s) of Installation (CF2R) signed and submitted by the person(s) responsible for the construction or installation conforms to the requirements specified on the Certificate(s) of Compliance (CF1R) approved by the enforcement agency. 5. I will ensure that a registered copy of this Certificate of Verification 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 Verification is required to be included with the documentation the builder provides to the building owner at occupancy. | | | |
| **BUILDER OR INSTALLER INFORMATION AS SHOWN ON THE CERTIFICATE OF INSTALLATION** | | | |
| Company Name (Installing Subcontractor, General Contractor, or Builder/Owner): | | | |
| Responsible Builder or Installer Name: | | CSLB License: | |
| **HERS PROVIDER DATA REGISTRY INFORMATION** | | | |
| Sample Group Number (if applicable): | | | Dwelling Test Status in Sample Group (if applicable) |
| **HERS RATER INFORMATION** | | | |
| HERS Rater Company Name: | | | |
| Responsible Rater Name: | | | Responsible Rater Signature: |
| Responsible Rater Certification Number w/ this HERS Provider | | | Date Signed: |