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

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| **B. Design Central Water Heater System Information**  This table reports the water heating system(s specified on the registered CF1R compliance document for this project. | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Water Heating System ID  or Name | Modeled Equipment  Make and Model | # of Water Heaters/ Compressors  in System | Primary Tank Volume | Loop Tank  Volume | Loop Tank Heater Type | Tank  Location | Exterior Tank Insulation  R-value |
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| --- | --- | --- | --- | --- | --- | --- | --- |
| **C. Installed Central Water Heater System Information**  This table reports the water heating system(s) specified on the registered CF1R compliance document for this project. | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Water Heating System ID  or Name | Modeled Equipment  Make and Model | # of Water Heaters/ Compressors in System | Primary Tank Volume | Loop Tank  Volume | Loop Tank Heater Type | Tank Location | Exterior Tank Insulation  R-value |
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| **D. Design 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 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. 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 an external R-12 or combination of R-16 internal and external Insulation. (Section 110.3(c)4). |
| 04 | Recirculation loops 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. (Section 110.3(c) 4C).   + Isolation valves shall be installed on both sides of the pump, of which the valve required in 110.3(c)4C can be one. (Section 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. (Section 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. (Section 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 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 (2.5 cm) of insulation.   + Piping installed in crawlspace with a minimum of 1 inches (2.5 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. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **G. Multiple Dwelling Units – Recirculation Temperature Modulation Control Requirements** (RA4.4.11)  Systems that utilize this distribution type shall comply with these requirements. | |
| --- | --- |
| 01 | Controls have been installed that reduce the hot water supply temperature when hot water demand is determined to be low by the control system. The control system may use a fixed control schedule or dynamic control schedules based on measurements of hot water demand. |
| 02 | Daily hot water supply temperature reduction (which is defined as the sum of temperature reduction by the control in each hour within a 24-hour period) shall be more than 50°F. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **H. Multiple Dwelling Units – Recirculation Continuous Monitoring Systems Requirements** (RA4.4.12)  Systems that utilize this distribution type shall comply with these requirements. | |
| --- | --- |
| 01 | The water heating system must have a means of communicating with the remote monitoring facility. |
| 02 | The monitoring system must record no less frequently than hourly measurement of key system operation parameters; including hot water supply and return temperatures, and status of gas valve relays. |
| 03 | A current contract must be available that demonstrates the system will be monitored. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **I. Multiple Dwelling Units – Demand Recirculation** **Requirements** (RA4.4.13)  Systems that utilize this distribution type 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. |
| 02 | 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). |
| 03 | The controls shall limit pump operation to a maximum of 10 minutes following any activation. This is provided in the event that the normal means of shutting off the pump have failed. |
| 04 | 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). |
| 05 | Insulation is not required on the cold water line when it is used as the return. |
| 06 | Manual or sensor controls shall be installed and, if powered, each control has standby power of 1 Watt or less. Controls may be located in individual units or on the loop. Controls may be activated by wired or wireless mechanisms, including buttons, motion sensors, door switches and flow switches. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| **J. Multiple Dwelling Units – Non-Demand Control Recirculation Systems Requirements**  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.** | |

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| **Documentation Author's Declaration Statement** | | | |
| 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.  1. 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. 2. 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. 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: |

**A. General Information**

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

**B. Design 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. This section is for information/verification purposes only and requires no user input.

**C. Installed Central Water Heating Systems Information (for performance compliance with heat pumps only)**

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

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

02 Manufacturer/Model – User Input must be equal to or equivalent to Reference information from CF1R.

03 # of Water Heaters in System – Reference information from CF1R.

04 Tank Location – User Input must be equal to Reference

05 Exterior Insulation. 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 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 Central Water Heating Distribution Systems Information**

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

02 Central DHW System Distribution Type – User Input must equal Reference information from CF1R.

03 Dwelling Unit DHW System Distribution Type – User Input must equal Reference information from CF1R.

**F. 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.

**G. Multiple Dwelling Units – Recirculation Temperature Modulation Control Requirements**

This table only applies to systems indicated as **Recirculation Temperature Modulation Control.** In addition to the mandatory requirements in Table F, the installer must ensure the requirements on this table are met.

**H. Multiple Dwelling Units – Recirculation Continuous Monitoring Systems Requirements**

This table only applies to systems indicated as **Recirculation Continuous Monitoring Systems.** In addition to the mandatory requirements in Table F, the installer must ensure the requirements on this table are met.

**I. Multiple Dwelling Units – Demand Recirculation Requirements**

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

**J. Multiple Dwelling Units – Non-Demand Control Recirculation Systems Requirements**

This table only applies to systems indicated as **Non-Demand Control Recirculation Systems.** In addition to the mandatory requirements in Table F, the installer must ensure the requirements on this table are met.

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

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| **B. Design Central Water Heater System Information**  This table reports the water heating systems (specified on the registered CF1R compliance document for this project.  <<require one row of data for each water heater identified on the CF1R>> | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |  |
| Water Heating System ID  or Name | Modeled Equipment  Make and Model | Number of Water Heaters/  Compressors | Primary Tank Volume | Loop Tank  Volume | Loop Tank Heater Type | Tank Location | Exterior Tank Insulation R-value |  |
| <<Reference values from CF1R >> | <<Reference values from CF1R-PRF-01; else if prescriptive, report default value = Sanden>> | <<Reference values from CF1R>> | << Reference value from CF1R>> | << Reference value from CF1R>> | << Reference value from CF1R>> | <<Reference value from CF1R>> | <<Reference Value from CF1R-PRF-01;  Else = NA>> |  |
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| **C. Installed Central Water Heater System Information**  This table reports the water heating system(s specified on the registered CF1R compliance document for this project.  <<require one row of data for each water heater identified on the CF1R>> | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Water Heating System ID  or Name | Modeled Equipment  Make and Model | Number of Water Heaters/ Compressors | Primary Tank  Volume | Loop Tank  Volume | Loop Tank Heater  Type | Tank Location | Exterior Tank Insulation R-value |
| <<reference values from B01>> | << Reference values from B02>> | << User Input must equal reference values from B03 reference values from CF1R>> | <<User input, must be ≥ value  from B04>> | <<User input, must be ≥ value  from B05>> | <<Reference value from B06>> | <<reference value from B07 (allow NA if B07 = NA)>> | << User Input must ≥ Reference Value from B08; Else = NA >> |
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| **D. Design Central Water Heating Distribution Systems Information**  This table reports the water heating distribution types specified on the registered CF1R compliance document for this project.  <<require one row of data for each water heating system identified on the CF1R>> | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Central DHW System  Distribution Type | Dwelling Unit DHW System  Distribution Type |
| <<reference values from B01>> | <<reference values from CF1R-PRF. 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 >> | <<D03 =  \*Standard Distribution System >> |
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| **E. Installed Central Water Heating Distribution Systems Information**  This table reports the water heating distribution types specified on the registered CF1R compliance document for this project.  <<require one row of data for each water heating system identified on the CF1R>> | | |
| 01 | 02 | 03 |
| Water Heating System ID or Name | Central DHW System  Distribution Type | Dwelling Unit DHW System  Distribution Type |
| <<reference values from B01>> | << Reference value from D02>> | << Reference value from D03; |
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| --- | --- |
| **F. 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 an external R-12 or combination of R-16 internal and external Insulation. (Section 110.3(c)4). |
| 04 | Recirculation loops 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 bibb and the water heating equipment. (Section 110.3(c) 4C).   + Isolation valves shall be installed on both sides of the pump, of which the valve required in Section 110.3(c)4C can be one. (Section 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. (Section 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. (Section 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 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 (2.5 cm) of insulation.   + Piping installed in crawlspace with a minimum of 1 inches (2.5 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. |

| **G. Multiple Dwelling Units – Recirculation Temperature Modulation Control Requirements** (RA4.11)  Systems that utilize this distribution type shall comply with these requirements.  <<If there are no systems in D02 that have a value= “Multi-family: Recirculating with temperature modulation”, then display the "section does not apply" message; else display this entire table>> | |
| --- | --- |
| 01 | Controls have been installed that reduce the hot water supply temperature when hot water demand is determined to be low by the control system. The control system may use a fixed control schedule or dynamic control schedules based on measurements of hot water demand. |
| 02 | Daily hot water supply temperature reduction (which is defined as the sum of temperature reduction by the control in each hour within a 24-hour period) shall be more than 50°F. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **H. Multiple Dwelling Units – Recirculation Continuous Monitoring Systems Requirements** (RA4.4.12)  Systems that utilize this distribution type shall comply with these requirements.  <<If there are no systems in D02 that have a value = “Multi-family: Recirculating with temperature modulation and monitoring”, then display the "section does not apply" message; else display this entire table >> | |
| --- | --- |
| 01 | The water heating system must have a means of communicating with the remote monitoring facility. |
| 02 | The monitoring system must record no less frequently than hourly measurement of key system operation parameters; including hot water supply and return temperatures, and status of gas valve relays. |
| 03 | A current contract must be available that demonstrates the system will be monitored. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

| **I. Multiple Dwelling Units – Demand Recirculation** **Requirements** (RA4.4.13)  Systems that utilize this distribution type shall comply with these requirements.  <<If there are no systems in column D02 that have a value=“Multi-family: Recirculating demand control”, then display the "section does not apply" message; else display this entire table >> | |
| --- | --- |
| 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 val. |
| 02 | 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 value:   * 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). |
| 03 | The controls shall limit pump operation to a maximum of 10 minutes following any activation. This is provided in the event that the normal means of shutting off the pump have failed. |
| 04 | 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). |
| 05 | Insulation is not required on the cold water line when it is used as the return. |
| 06 | Manual or sensor controls shall be installed and, if powered, each control has standby power of 1 Watt or less. Controls may be located in individual units or on the loop. Controls may be activated by wired or wireless mechanisms, including buttons, motion sensors, door switches and flow switches. |
| **The responsible person’s signature on this compliance document affirms that all applicable requirements in this table have been met.** | |

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| **J. Multiple Dwelling Units – Non-Demand Control Recirculation Systems Requirements**  Systems that utilize this distribution type shall comply with these requirements  <<If there are no systems in column D02 =“Multi-family: Recirculating with no control”, then display the “section does not apply” message; else display this entire table >> | |
| 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.** | |

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| **Documentation Author's Declaration Statement** | | | |
| 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.  1. 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. 2. 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. 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: |