

CITY OF MILPITAS

Building & Safety Department
455 E. Calaveras Blvd.
Milpitas, CA 95035
408-586-3240
www.ci.milpitas.ca.gov



INTERIOR SIGN SUBMITTAL REQUIREMENTS

1. PERMIT INFORMATION:

- This permit includes the installation of interior tenant identification signs only. Permits for all other signs including exterior and exit signs must be obtained in person at the Permit Center, Building & Safety Department, 455 E. Calaveras Blvd.
- A Building Permit may be issued only to a State of California Licensed Contractor or the Building Owner.
- If the work is performed by the Building Owner personally or by his/her workers, and an inspection indicates the work cannot be completed satisfactorily, then a licensed contractor must perform the work.
- If the Building Owner hires workers, State Law requires the Owner to obtain Worker's Compensation Insurance. Proof of this insurance is required prior to inspection.

2. INSTALLATION REQUIREMENTS:

- All work must comply with the 2010 California Building Code (CBC), 2010 California Mechanical Code (CMC), 2010 California Electrical Code (CEC), 2010 California Energy Code based upon 2008 Building Energy Efficiency Standards (CEnC) and 2011 Milpitas Municipal Code (MMC).
- All signs installed inside a Mall shall comply with CBC Section 402.16 (see the attached drawing for detailed information).
- Light-transmitting plastic interior wall signs shall be limited to the following: [CBC Section 2611]
 - The sign shall not exceed 20 percent of the wall area.
 - The sign shall not exceed 24 square feet.
 - Edges and backs of the sign shall be fully encased in metal.

ENERGY REQUIREMENTS:

- Indoor and outdoor illuminated signs must comply with the following:
 - Signs must be automatically controlled so that they are turned off during daytime hours and during other times when they are not needed. The controls must be certified by the manufacturer to the Energy Commission and listed in the Energy Commission "Directory of Automatic Lighting Control Devices". These requirements include:
 - Automatic shutoff controls,
 - Dimming controls, and
 - Demand responsive controls for electronic message centers.
 - Electronic message centers (EMCs) with a new connected lighting greater than 15 kW must have a control capable of reducing the lighting power by at least 30 percent upon receiving demand response signal sent by the local utility.
 - Signs shall comply with either of the following energy requirements:
 - Watts Per Square Foot (for double-faced signs, only the area of one face is counted):
 - Internally illuminated sign – maximum 12 watts per square foot of sign area.
 - Externally illuminated sign – maximum 2.3 watts per square foot of sign area.

- Alternate Lighting Source requires that the sign be illuminated only with one or more of the following:
 1. High pressure sodium.
 2. Pulse start or ceramic metal halide lamps served by a ballast that has a minimum efficiency of 88 percent.
 3. Pulse start metal halide lamps that are 320 watts or smaller, are not 250 W or 175 W lamps, and are served by a ballast that has a minimum efficiency of 80 percent.
 4. Neon or cold cathode lamps with transformer or power supply efficiency greater than or equal to the following:
 - a. A minimum efficiency of 75 percent when the transformer or power supply rated output current is less than 50 mA, or
 - b. A minimum efficiency of 68 percent when the transformer or power supply rated output current is 50 mA or greater.
 5. Fluorescent lamps with a minimum color rendering index (CRI) of 80.
 6. Light emitting diodes (LEDs) with a power supply having an efficiency of 80 percent or greater.
 - a. Exception: Single voltage external power supplies that are designed to convert 120 volt AC input into lower voltage DC or AC output, and have a nameplate output power less than or equal to 250 watts, shall comply with the applicable requirements of the Appliance Efficiency Regulations (Title 20).
 7. Compact fluorescent lamps that do not contain a medium base socket.
 8. Electronic ballasts with a fundamental output frequency not less than 20 kHz.
 - Exceptions to the above:
 1. Unfiltered incandescent lamps that are not part of an electronic message center (EMC), an internally illuminated sign, or an externally illuminated sign.
 2. Exit signs. Exit signs shall meet the requirements of the Appliance Efficiency Regulations.
 3. Traffic signs. Traffic signs shall meet the requirements of the Appliance Efficiency Regulations.
- All mandatory measures must be listed on the plans.

☐ ENERGY FORMS:

- Form SLTG-1C must be submitted along with the permit application for **ALL** illuminated sign permits.
- Form SLTG-INST must be completed and provided to the inspector upon final inspection.

☐ When signs identify permanent rooms and spaces of a building, they shall comply with the following: [CBC 1117B.5.1(1)]

- **Finish and contrast.** Characters, symbols and their background shall have a nonglare finish. Characters and symbols shall contrast with their background, either light on a dark background or dark on a light background. (CBC 1117B.5.2)
- **Proportions.** Characters on signs shall be selected from fonts that have a width-to-height ratio of between 3:5 (60 percent) and 1: 1 (100 percent) measured by the width of the uppercase letter "O" and height of the uppercase letter "I", and a stroke width-to-height ratio of between 1:5 (20 percent) and 1:10 (10 percent) measured by the width and height of the uppercase letter "I" (CBC 1117B.5.3).
- **Character Height.** Characters on signs required to be accessible by Section 1117B.5.1, Items 2 and 3 shall be sized according to the following table. The minimum height is measured using an uppercase letter "I". Lowercase characters are permitted. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. (CBC 1117B.5.4)

- **Raised characters and pictorial symbol signs.** When raised characters are required or when pictorial symbols (pictograms) are used on such signs, they shall conform to the following requirements: (CBC 1117B.5.5)
 - **Character type.** Characters on signs shall be raised 1/32 inch minimum and shall be sans serif uppercase characters accompanied by Grade 2 Braille complying with the Braille requirements below.
 - **Character size.** Raised characters shall be a minimum of 5/8 inch and a maximum of 2 inches high.
 - **Pictorial symbol signs (pictograms).** Pictorial symbol signs (pictograms) shall be accompanied by the verbal description placed directly below the pictogram. The outside dimension of the pictogram field shall be a minimum of 6 inches in height.
 - **Character placement.** Characters and Braille shall be in a horizontal format. Braille shall be placed a minimum of 3/8 inch and a maximum of 1/2 inch directly below the tactile characters; flush left or centered. When tactile text is multilined, all Braille shall be placed together below all lines of tactile text.
 - **Braille.** Contracted Grade 2 Braille shall be used wherever Braille is required in other portions of these standards. Dots shall be 1/10 inch on center in each cell with 2/10 inch space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of 1/40 inch above the background. Braille dots shall be domed or rounded.
 - **Mounting location and height.** Where permanent identification signs are provided for rooms and spaces, Braille signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space on the latch side, including at double leaf doors, signs shall be placed on the nearest adjacent wall, preferably on the right.
 - Where permanent identification signage is provided for rooms and spaces Braille signs shall be located on the approach side of the door as one enters the room or space. Signs that identify exits shall be located on the approach side of the door as one exits the room or space.
 - Mounting height shall be 60 inches above the finish floor to the centerline of the sign. Mounting location shall be determined so that a person may approach within 3 inches of signage without encountering protruding objects or standing within the swing of a door.
- When signs direct to or give information about permanent rooms and functional spaces of a building, they shall comply with the following: [CBC 1117B.5.1(2)]
- **Finish and contrast.** Characters, symbols and their background shall have a nonglare finish. Characters and symbols shall contrast with their background, either light on a dark background or dark on a light background. (CBC 1117B.5.2)
 - **Proportions.** Characters on signs shall be selected from fonts that have a width-to-height ratio of between 3:5 (60 percent) and 1: 1 (100 percent) measured by the width of the uppercase letter "O" and height of the uppercase letter "I", and a stroke width-to-height ratio of between 1:5 (20 percent) and 1:10 (10 percent) measured by the width and height of the uppercase letter "I" (CBC 1117B.5.3).
 - **Character Height.** Characters on signs required to be accessible by Section 1117B.5.1, Items 2 and 3 shall be sized according to the following table. The minimum height is measured using an uppercase letter "I". Lowercase characters are permitted. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. (CBC 1117B.5.4)
- Refer to CBC Section 1115B.6 for additional requirements applicable to sanitary facility signage.

3. INSPECTION PROCEDURES

- One final inspection is required for signs unless some of the work will be covered up and not accessible to the inspector. An additional inspection is required prior to any work is concealed. For each inspection, the Permit Card and the Approved Job Copy of the Drawings (if any) must be presented to the inspector. Permits expire 180 days after issuance or last inspection passed, whichever is the latest.

4. QUESTIONS:

- If you have any questions regarding your project contact the Building & Safety Department at (408) 586-3240.

2010 CALIFORNIA BUILDING CODE

INTERIOR MALL SIGNS.

402.16 Plastic signs. Plastic signs affixed to the storefront of any tenant space facing the mall shall be limited as specified in Sections 402.16.1 through 402.16.5.2.

402.16.1 Area. Plastic signs shall not exceed 20 percent of the wall area facing the mall.

402.16.2 Height and width. Plastic signs shall not exceed a height of 36 inches, except that if the sign is vertical, the height shall not exceed 96 inches and the width shall not exceed 36 inches.

402.16.3 Location. Plastic signs shall be located a minimum distance of 18 inches from adjacent tenants.

402.16.4 Plastics other than foam plastics. Plastics other than foam plastics used in signs shall be light-transmitting plastics complying with Section 2606.4 or shall have a self-ignition temperature of 650°F (343°C) or greater when tested in accordance with ASTM D 1929, and a flame spread index not greater than 75 and smoke-developed index not greater than 450 when tested in the manner intended for use in accordance with ASTM E 84 or UL 723 or meet the acceptance criteria of Section 803.1.2.1 when tested in accordance with NFPA 286.

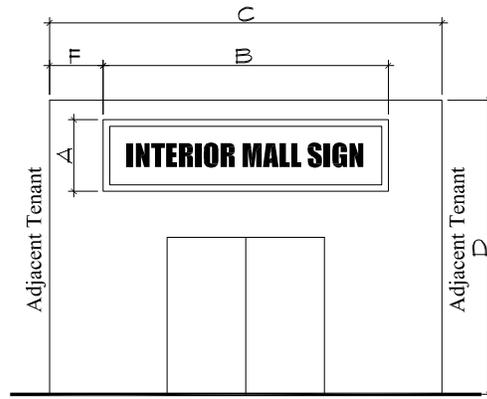
402.16.4.1 Encasement. Edges and backs of plastic signs in the mall shall be fully encased in metal.

402.16.5 Foam plastics. Foam plastics used in signs shall have flame-retardant characteristics such that the sign has a maximum heat-release rate of 150 kilowatts when tested in accordance with UL 1975 and the foam plastics shall have the physical characteristics specified in this section. Foam plastics used in signs installed in accordance with Section

402.16 shall not be required to comply with the flame spread and smoke-developed indexes specified in Section 2603.3.

402.16.5.1 Density. The minimum density of foam plastics used in signs shall not be less than 20 pounds per cubic foot (pcf) (320 kg/m³).

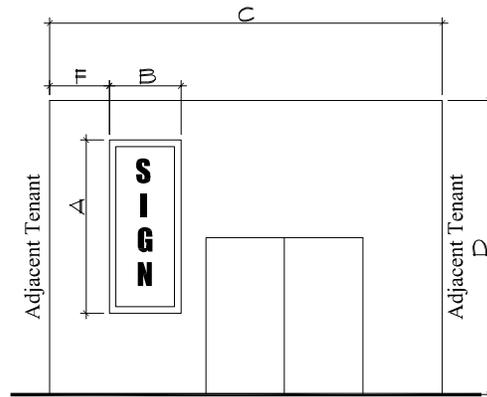
402.16.5.2 Thickness. The thickness of foam plastic signs shall not be greater than 1/2 inch.



- A = HORIZONTAL SIGN HEIGHT MAXIMUM 36"
- B = HORIZONTAL SIGN WIDTH
- C = STORE FRONT WALL WIDTH
- D = STORE FRONT WALL HEIGHT
- F = MINIMUM 18"

$$A \times B < [(C \times D) \times 20] / 100$$

LAYOUT "A"
HORIZONTAL SIGN



- A = VERTICAL SIGN HEIGHT MAXIMUM 96"
- B = VERTICAL SIGN WIDTH MAXIMUM 36"
- C = STORE FRONT WALL WIDTH
- D = STORE FRONT WALL HEIGHT
- F = MINIMUM 18"

$$A \times B < [(C \times D) \times 20] / 100$$

LAYOUT "B"
VERTICAL SIGN

| REV. | DATE | BY: | SCALE: |
|------|------|-----|--------------------|
| | | | N.T.S |
| | | | DATE: DEC. 2010 |
| | | | DRAWN BY: BK. |

City of Milpitas
Building & Safety Department
INTERIOR MALL SIGNS.

SHEET
1
OF 1 SHEETS

Certificate of Compliance (Sign Lighting)**(Page 1 of 4) SLTG-1C**

| | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|
| Project Name: | | Date: |
| Project Address: | | |
| Location of Sign | <input type="checkbox"/> Outdoor Signs | <input type="checkbox"/> Indoor Signs |
| Phase of Sign Construction | <input type="checkbox"/> New Signs | <input type="checkbox"/> Sign Alterations |
| Type of Lighting Control | <input type="checkbox"/> New Lighting Controls | <input type="checkbox"/> Replaced Lighting Controls |
| This Certificate of Compliance includes the following components (check all that apply) | | <input type="checkbox"/> Not Installing Lighting Controls |
| <input type="checkbox"/> Mandatory Measures (Lighting Controls) | <input type="checkbox"/> Maximum Allowed Lighting Power | <input type="checkbox"/> Specific Lighting Sources |

1. Certificate of Compliance Declaration Statement (this may be a C10, C45 or other eligible person)

- I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.
- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

| | | |
|-----------------|--------------------------------------------|--|
| Name: | Signature | |
| Company: | Phone | |
| Address: | License number (may be contractor's lic #) | |
| City/State/Zip: | Date | |

2. Installation Certificate (to be signed by responsible person after installation)

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Permit number (Enforcement Agency Use) | Checked by/Date (Enforcement Agency Use) |
| Installation Declaration statement | |
| <ul style="list-style-type: none"> • I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct. • I am eligible under Division 3 of the Business and Professions Code to accept responsibility for construction, or an authorized representative of the person responsible for construction. • I certify that the installed features, materials, components, or manufactured devices identified on this certificate conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency. • I certify that the requirements detailed on this Certificate of Compliance have been met. • I will ensure that a completed, signed copy of this Installation Certificate 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 signed copy of this Installation Certificate is required to be included with the documentation the builder provides to the building owner at occupancy. | |
| Company Name: | |
| Responsible Person's Name: | Responsible Person's Signature: |
| License number (may be contractor's lic #) | Date Signed: |
| Position With Company: | |

Project Name:

Date:

3. Mandatory Sign Lighting Controls

NOTES:

1. *The Mandatory Measures (sign lighting controls) are required for compliance with the sign lighting Standards. The same responsible person may install both the sign and the sign lighting controls, or a different responsible person may install the sign lighting controls than the responsible person installing the sign.*
2. *If the person responsible for installing the sign is not also responsible for the sign lighting controls, then the owner of the sign, general contractor, or architect shall be responsible to have the sign lighting controls installed.*
3. *If more than one person has responsibility for compliance, each person shall prepare and sign a Certificate of Compliance and an Installation Certificate applicable to the portion of construction for which they are responsible; alternatively, the person with chief responsibility for construction shall prepare and sign the Certificate of Compliance Declaration Statement for the entire construction.*

3a. Statements of Responsibility:

The person signing the Certificate of Compliance Declaration Statement shall check Yes or No for all of the following statements:

| | |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | I have responsibility for installing the sign lighting controls <input type="checkbox"/> Yes, complete parts 3a and 3b of this form <input type="checkbox"/> No, complete part 3a of this form |
| 2 | There are no existing sign lighting controls and I will be installing compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3 | There are no existing sign lighting controls and someone else will be responsible to install compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4 | There are existing sign lighting controls that do not comply with the applicable provision of §119 and §133 and I will be installing compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5 | There are existing sign lighting controls that do not comply with the applicable provision of §119 and §133 and someone else will be responsible to install compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No |

3b. Mandatory Sign Lighting Controls

The person signing the Certificate of Compliance Declaration Statement shall answer all of the following questions if they are responsible for complying with the sign lighting control requirements.

If there are construction documents, indicate where on the building plans the mandatory measures (sign lighting control) note block can be located:

| | | | | |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|---------------------------------|
| 1 | §133(a)1. All indoor sign lighting is controlled with an automatic time switch control that complies with the applicable requirements of §119. | Y <input type="checkbox"/> | N <input type="checkbox"/> | NA <input type="checkbox"/> |
| 2 | §133(a)1 and 2. All outdoor sign lighting is controlled with an automatic time switch control plus a photo control, or an outdoor astronomical time switch, that comply with the applicable requirements of §119. | Y <input type="checkbox"/> | N <input type="checkbox"/> | NA <input type="checkbox"/> |
| | Exception to §133(a)2. Outdoor signs in tunnels or large covered areas that require illumination during daylight hours. | Y <input type="checkbox"/> | N <input type="checkbox"/> | NA <input type="checkbox"/> |
| 3 | §133(a)3. All outdoor signs are controlled with a dimmer that provides the ability to automatically reduce sign power by a minimum of 65 percent during nighttime hours. | Y <input type="checkbox"/> | N <input type="checkbox"/> | NA <input type="checkbox"/> |
| | Exception 1 to §133(a)3. Signs illuminated for less than one hour per day during daylight hours. | Y <input type="checkbox"/> | N <input type="checkbox"/> | NA <input type="checkbox"/> |
| | Exception 2 to §133(a)3. Outdoor signs in tunnels or large covered areas that require illumination during daylight hours. | Y <input type="checkbox"/> | N <input type="checkbox"/> | NA <input type="checkbox"/> |
| | Exception 3 to §133(a)3. Only metal halide, high pressure sodium, cold cathode, or neon lamps used for illuminating signs or parts of signs. | Y <input type="checkbox"/> | N <input type="checkbox"/> | NA <input type="checkbox"/> |
| 4 | §133(a)4. An Electronic Message Center (EMC) having a new connected lighting power load greater than 15 kW has a control installed capable of reducing the lighting power by a minimum of 30 percent when receiving a demand response signal that is sent out by the local utility. | Y <input type="checkbox"/> | N <input type="checkbox"/> | N/A <input type="checkbox"/> |
| | Exception to §133(a)4. EMC required by a health or life safety statute, ordinance, or regulation, including but not limited to exit signs and traffic signs. | Y <input type="checkbox"/> | N <input type="checkbox"/> | NA <input type="checkbox"/> |

Field Inspector Notes:

Project Name:

Date:

4. Maximum Allowed Lighting Power Method of Compliance

Certificate of Compliance and Field Inspection Energy Checklist

Complete this part if there are signs using the maximum allowed lighting power method of compliance. (Complete part 5 of this Certificate of Compliance if there are signs using the Specific lighting sources method of compliance)

| A | B | C | D | E | F | G | H | I | J | |
|----------------|-------------|-----------------------------------------------------------|------------------------------|----------------------------------------------|----------------------------------------------------------------------|-----------------------|------------------------------------------------|------------------|--------------------------|-----------------------------------------------|
| Symbol or Code | Description | OPTIONAL -UL or other label (see instructions below) ✓ | Allowed Watts | | | | Design Watts Total Installed watts for sign | Complies? Y/N | Complies if $H \leq G$ | Field Inspector Check that Sign Complies ✓ |
| | | | Sign Area (ft ²) | Internally (I) or Externally (E) Illuminated | Allowed LPD (I = 12 W/ft ²) (E = 2.3 W/ft ²) | Allowed Watts = D x F | | | | |
| | | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> | |
| | | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> | |
| | | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> | |
| | | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> | |
| | | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> | |
| | | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> | |

- A** Symbol or code used on the plans (when plans are required) and other documents.
- B** A narrative description of the sign, or location of sign on the building; and the location of sign on construction documents.
- C** OPTIONAL - Check this box only if this sign has a permanent, pre-printed, factory-installed label, listed with Underwriters Laboratory (UL) or other testing laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) or International Standards Organization (ISO) 17025 in accordance with ISO/IEC 17011 with the products produced under an ongoing inspection program carried out by a Type A inspection body in accordance with ISO/IEC 17020, confirming that the sign complies with the Section 148 of the California 2008 Title 24, Part 6 Standards, using the Maximum Allowed Lighting Power method of compliance. For signs with such a label, columns 'D' through 'I' are not required to be filled out. Note: Using a label is an optional method to validate compliance. A label is not needed for compliance.
- D** The sign area in square feet.
- E** List "I" if the sign is internally illuminated. List "E" if the sign is externally illuminated.
- F** Allowed watts per square foot. Enter 12 if the sign is listed as "I" in column E. Enter 2.3 if sign is listed as "E" in column E.
- G** Multiply the square footage in column D times the allowed Lighting Power Density (LPD = watts) in column F.
- H** Show the total installed watts in the sign, as determined according to the applicable provisions of §130(d or e).
- I** Enter Y if the number in column H is less than or equal to the number in column G. Otherwise, the sign does not comply.
- J** This page doubles as a field inspection checklist.

Field Inspector Notes:

| | |
|---------------|-------|
| Project Name: | Date: |
|---------------|-------|

5. Specific Lighting Source Method of Compliance

Certificate of Compliance and Field Inspection Energy Checklist

Complete this part if there are signs using the Specific lighting source method of compliance. (Complete part 4 of this Certificate of Compliance if there are signs using the maximum allowed lighting power method of compliance)

| A | B | C | D | E |
|----------------------|-------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Symbol or Code | Description | <u>OPTIONAL</u> UL or other label (see instructions below) ✓ | Specific light source used for compliance Shall include only lighting technologies listed below List all that apply | Field Inspector Check that Sign Complies ✓ |
| | | <input type="checkbox"/> | | <input type="checkbox"/> |
| | | <input type="checkbox"/> | | <input type="checkbox"/> |
| | | <input type="checkbox"/> | | <input type="checkbox"/> |
| | | <input type="checkbox"/> | | <input type="checkbox"/> |
| | | <input type="checkbox"/> | | <input type="checkbox"/> |

A Symbol or code used on the plans (when plans are required) and other documents.

B A narrative description of the sign, or location of sign on the building; and the location of sign on construction documents

C OPTIONAL - Check this box only if this sign has a permanent, pre-printed, factory-installed label, listed with Underwriters Laboratory (UL) or other testing laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) or International Standards Organization (ISO) 17025 in accordance with ISO/IEC 17011 with the products produced under an ongoing inspection program carried out by a Type A inspection body in accordance with ISO/IEC 17020, confirming that this sign complies with the Section 148 of the California 2008 Title 24, Part 6 Standards, using the Specific Lighting Source Method of Compliance. For signs with such a label, column 'D' is not required to be filled out. Note: Using a label is an optional method to validate compliance. A label is not needed for compliance.

D Specific Light Source Compliance Method. The sign(s) identified above use only the following lighting technologies:
List all applicable numbers (1 through 10) that apply in column D above for each row.

- | | |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | High pressure sodium lamps |
| 2 | Pulse start or ceramic metal halide lamps served by a ballast with $\geq 88\%$ efficiency |
| 3 | Pulse start metal halide lamps that are ≤ 320 watts, are not 250 watt or 175 watt lamps, and are served by a ballast with $\geq 80\%$ efficiency |
| 4 | Neon or cold cathode lamps with transformer or power supply efficiency $\geq 75\%$ with rated output current < 50 mA |
| 5 | Neon or cold cathode lamps with transformer or power supply efficiency $\geq 68\%$ with rated output current ≥ 50 mA |
| 6 | Fluorescent lamps with a minimum color rendering index (CRI) of 80 (Note: when using electronic ballasts for compliance, lamps with a CRI < 80 may be used) |
| 7 | Light emitting diodes (LEDs) with a power supply with $\geq 80\%$ efficiency |
| 8 | Single voltage LED external power supplies designed to convert 120 volt AC input into lower voltage DC or AC output, having a nameplate output power less than or equal to 250 watts, and certified to the Energy Commission as complying with the applicable requirements of the Appliance Efficiency Regulations (Title 20) |
| 9 | Compact fluorescent lamps that do not contain a medium screw base sockets (E24/E26) |
| 10 | Electronic ballasts with a fundamental output frequency ≥ 20 kHz |

E This page doubles as a field inspection checklist.

Field Inspector Notes:

| | | |
|---------------------------------|---------------|------------------|
| INSTALLATION CERTIFICATE | (Part 1 of 2) | SLTG-INST |
|---------------------------------|---------------|------------------|

| | | |
|------------------|-------|------------------------------------------------------------------------------------|
| PROJECT NAME: | DATE: | _____ Building Permit _____ Checked by/Date Enforcement Agency Use |
| PROJECT ADDRESS: | | |

| |
|----------------------------|
| GENERAL INFORMATION |
|----------------------------|

| | |
|-------------------------|----------|
| DATE OF BUILDING PERMIT | PERMIT # |
|-------------------------|----------|

| | | |
|---------------|---------------------------------------|--------------------------------------|
| BUILDING TYPE | <input type="checkbox"/> Outdoor Sign | <input type="checkbox"/> Indoor Sign |
|---------------|---------------------------------------|--------------------------------------|

| | | | |
|-----------------------|-------------------------------------------|-----------------------------------|-------------------------------------|
| PHASE OF CONSTRUCTION | <input type="checkbox"/> New Construction | <input type="checkbox"/> Addition | <input type="checkbox"/> Alteration |
|-----------------------|-------------------------------------------|-----------------------------------|-------------------------------------|

If more than one person has responsibility for building construction, each person shall prepare and sign an Installation Certificate document applicable to the portion of construction for which they are responsible; alternatively, the person with chief responsibility for construction shall prepare and sign the Installation Certificate document(s) for the entire construction.

DECLARATION STATEMENT

- I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for construction, or an authorized representative of the person responsible for construction (responsible person).
- I certify that the installed features, materials, components, or manufactured devices identified on this certificate (the installation) conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency.
- I reviewed a copy of the Certificate of Compliance approved by the enforcement agency that identifies the specific requirements for the installation. I certify that the requirements detailed on the Certificate of Compliance that apply to the installation have been met.
- I will ensure that a completed, signed copy of this Installation Certificate 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 signed copy of this Installation Certificate is required to be included with the documentation the builder provides to the building owner at occupancy.

| | | |
|----------------------------|---------------------------------|------------------------|
| Company Name: | | |
| Responsible Person's Name: | Responsible Person's Signature: | |
| Lic.# | Date Signed: | Position With Company: |

| |
|--------------------------------|
| SCOPE OF RESPONSIBILITY |
|--------------------------------|

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <i>Enter the date of approval by enforcement agency of the Certificate of Compliance that provides the specifications for the energy efficiency measures for the scope of responsibility for this Installation Certificate:</i> | Date: |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility for this Installation Certificate.

| Document Title or Description | Applicable Sheets or Pages, Tables, Schedules, etc. | Date Approved By the Enforcement Agency |
|-------------------------------|-----------------------------------------------------|-----------------------------------------|
| | | |
| | | |

