

*Regular Meeting of the
Building Inspection Commission*

February 18, 2026

Agenda Item 8



February 11, 2026

Building Inspection Commission
49 South Van Ness Avenue
San Francisco, CA 94103

Re: Administrative Bulletin (AB-093) Implementation of Green Building Regulations

Honorable Members of the Commission:

On February 11, 2026 the full Code Advisory Committee (CAC) met to consider adoption of Administrative Bulletin (AB-093) and associated forms updated to reflect changes in the 2025 Green Building Codes. After a presentation by Barry Hooper, with the Department of the Environment, and a recommendation of adoption by the Green Building Sub-Committee, the CAC voted unanimously to recommend the Building Inspection Commission approve the adoption of AB-093 and associated forms as written.

Respectfully submitted,

Thomas Fessler
DBI Technical Services
Secretary to the Code Advisory Committee

cc. Patrick O'Riordan, C.B.O. Director
David Kane, Deputy Director
Mary Wilkinson-Church, Permit Services Manager
Christine Gasparac, Assistant Director
Tate Hanna, Legislative Affairs Manager
J. Edgar Fennie, Chair, Code Advisory Committee

Attach: AB-092 and associated forms

AB-093 - January 2026



San Francisco Green Building Code

Attachment A, Table 1: Summary of Requirements

Attachment A
Table 1

Instructions: Use the row below labelled, "Applicability" to find the column that best matches the occupancy and size of the project, and whether the project is new construction or alteration. The unshaded rows identify the green building standard that must be met, base number of points required, submittal form, and where to find additional detail in Attachment B.

| Building Type | New Construction | | | Additions and Alterations | | | | | Municipal Projects |
|--|----------------------------------|---|---|--|---------------------------------------|---|---|---|---|
| | New Large Commercial | All Other New Non-Residential | New Residential | Major Alterations to Residential ² | Large First-Time Commercial Interiors | Major Alterations to Commercial | All Other Additions & Alterations to Commercial ¹ | All Other Additions & Alterations to Residential ¹ | New Construction, Addition or Alteration |
| Applicability (Occupancy, size, valuation, or scope) | A, B, I, M, E ≥25,000 sq. ft. | F, H, L, S, U any size, or A, B, I, M, E <25,000 sq. ft. | R All sizes | R ≥25,000 sq. feet; AND significant structural upgrade; ³ AND mechanical, electrical or plumbing | B, M ≥ 25,000 sq. ft. | B, M ≥25,000 sq. feet; AND significant structural upgrade; ³ AND mechanical, electrical or plumbing | A,B,I,M,E,F,H,L,S,U ≥1,000 sq ft addition or alteration ≥\$200,000 value | R Addition of ≥1 square foot of conditioned area, volume, or size, including single freestanding ADU | All municipal projects ≥10,000 square feet, including leasehold improvements |
| Code Reference | 5.103.1 | 5.103.2 | 4.103.2 | 4.103.3 | 5.103.4 | 5.103.3 | CA Title 24 Part 11 | CA Title 24 Part 11 | SF Green Building Code and Environment Code Chapter 7 |
| Standard To Be Met | LEED Gold | None | GreenPoint Rated OR: LEED Silver | GreenPoint Rated ² OR: LEED Silver | LEED v4 Gold | LEED v4 Gold | NA (CA Code) | NA (CA Code) | LEED Gold |
| Base Number of Points Required Retention of historic features or demolition may adjust points required. See Attachment A, Tables 2 & 3 | 60 points | - | 50 LEED points OR: 75 GreenPoint Rated points | 50 LEED points OR: 75 GPR points (If project area is <80% of gross floor area: 49 GPR points) ² | 60 points | 60 points | - | - | 60 points |
| Submittal Form Required to summarize compliance | GS-2 | GS-3 | GS-2 | GS-2 | GS-2 | GS-2 | GS-3 (GS-4 for alterations, including interior tenant improvements) | GS-5 | GS-6 |
| For details, see: | Attachment B Table 1 | Attachment B Table 3 | Attachment B Table 1 for LEED OR Attachment B Table 2 for GPR | Attachment B Table 1 for LEED OR Attachment B Table 2 for GPR | Attachment B Table 1 | Attachment B Table 1 | Attachment B Table 3 | Attachment B Table 4 | Submittal GS-6 |

1. When triggered, CalGreen requirements apply to the entire area of the project, and only to the area of the project, except water fixture and fitting efficiency requirements set by California Civil Code 1101.1. For the purpose of compliance with local green building standards, construction of a single freestanding dwelling unit accessory to an existing structure is considered an addition.

2. Major alterations to residential occupancy that alter less than 80% of the building's gross floor area may apply the GreenPoint Rated Existing Multifamily Elements Rating System. In such cases, 49 points from the GreenPoint Rated Multifamily checklist must be achieved. When projects altering less than 80% of a residential building's gross floor area voluntarily seek GreenPoint Rated Existing Multifamily certification, then any number of points above the minimum of 49 will be accepted. In other words, voluntarily seeking GreenPoint Rated certification of the entire building does not raise the minimum requirement to 75 GPR points.

3. See p.6 of this bulletin for additional information about "significant structural upgrades".

See Attachment B for tables itemizing local requirements, including the California Green Building Standards Code and stricter local requirements.



San Francisco Green Building Code

Table 2: Additional Requirements in Case of Demolition

Attachment A
Table 2

| For new projects required to attain LEED certification or GreenPoint Rated | Demolished Building IS NOT a Historical Resource | | Demolished Building IS a Historical Resource | |
|--|--|----------------------------------|--|----------------------------------|
| | LEED | GreenPoint Rated | LEED | GreenPoint Rated |
| If new density will be less than 3x current density: | Obtain 6 additional LEED points | Obtain 20 additional GreenPoints | Obtain 10 additional LEED points | Obtain 25 additional GreenPoints |
| OR: If new density is $\geq 3x$ current density: | Obtain 5 additional LEED points | Obtain 17 additional GreenPoints | | |



San Francisco Green Building Code

Table 3: Reduced Requirements for Retention of

Attachment A
Table 3

| Significant Historical Architectural Feature | Percent Retained ¹ | Reduction in total required LEED points ² | Reduction in total required GreenPoints ² |
|--|-------------------------------|--|--|
| Windows on Principal Façade(s) | 100% | 4 | 15 |
| Other windows | At least 50% | 1 | 3 |
| | 100% | 2 | 6 |
| Exterior doors on principal façade(s) | 100% | 1 | 3 |
| Siding or wall finish on principal façade(s) | 100% | 1 | 4 |
| Trim & Casing on Wall Openings on Principal Façade(s) | 100% | 1 | 3 |
| Roof cornices or decorative eaves visible from right-of-way | 100% | 1 | 3 |
| Sub-cornices, belt courses, water tables, and running trim visible from right-of-way | 100% | 1 | 3 |
| Character-defining elements of significant interior spaces | 100% | 4 | 15 |
| Other exterior ornamentation (e.g. cartouches, corbels, quins, etc.) visible from right-of-way | 80% | 1 | 3 |

Where the historical resource is a portion of the total project, the LEED or GreenPoint Rated requirement is to be adjusted to equal the percentage of gross floor area of the historical resource compared to the total project gross floor area. (SFGBC 4.104.2 and 5.104.1)

¹ Retention includes the rehabilitation and repair of character-defining features that conform to the Secretary of the Interior's Standards for the Treatment of Historic Properties.

² As summarized above, these measures are afforded greater weight by the City and County of San Francisco than in the reference green building rating systems. The table is presented as a reduction in local requirements for consistency in cases where projects are both meeting local requirements and seeking LEED certification or to be GreenPoint Rated.



San Francisco Green Building Code

Table 1: Requirements for Projects Meeting a LEED Standard

Attachment B

Table 1

Where code references are provided below: "CALGreen" refers to California Green Building Standards Code (Title 24 Part 11), and "SFGBC" refers to San Francisco Green Building Code amendments. This summary is provided for convenience. See the San Francisco Green Building Code for details.

| Required Measures | LEEDv4/4.1 Credit | New Large Commercial | New Residential ^{1,2} | Large First Time Commercial Interior | Commercial Major Alteration | Residential Major Alteration |
|---|---------------------------------|---|--|--|---|----------------------------------|
| | | Code Reference | | | | |
| Construction Discards Management - 100% of mixed debris must be taken by a Permitted Transporter to a Registered Facility for recycling and recovery. Complete a Material Reduction and Recovery Plan (MRRP) demonstrating minimum recovery noted at right. For more information, see DBI Information Sheet GB-02 or contact: debrisrecovery@sfgov.org / 415-355-3799. | BD+C/ID+C: MRC5/MRC6 (2 points) | Min 75% recovery SFGBC 5.103.1.3, CalGreen 5.405.1.1, 5.408.1.4 | Min 75% for high-rise (SFGBC 4.103.2.3); 65% for low-rise (CalGreen 4.408) | Min 65% recovery: CalGreen 5.405.1.1, 5.408.1.4 | | Min 65% recovery: CalGreen 4.408 |
| All-Electric: Newly constructed buildings must be all-electric, with no gas piping systems or infrastructure. For permits filed July 1, 2026 or later, Major Renovations to existing buildings (as defined by San Francisco Building Code Section 202) must be all-electric. See Administrative Bulletin 112 for details. | EAp2, EAc2 | SFBC 106A.1.17 | SFBC 106A.1.17 | - | SFBC 106A.1.17 | SFBC 106A.1.17 |
| Energy Design: Comply with Title 24 Part 6 (2025) and meet GreenPoint Rated or LEED energy prerequisites | EAp2 | LEEDv4 EAp2 | GPR or LEED prerequisite | LEEDv4 EAp2 | | GPR or LEED prerequisite |
| Enhanced Commissioning of Building Energy Systems | EAc1, opt1 | SFGBC 5.103.1.4 | - | LEEDv4 EAp1 | | |
| Better Roofs – Photovoltaics and battery energy storage systems are prescriptively required for common nonresidential occupancies per CA Energy Code 140.10(a-b) and multifamily per 170.2(f-g). PV is prescriptively required for single family per 150.1(c)14, along with wiring for future installation of energy storage systems per 150.0(s). Each square foot of living roof contributing to Stormwater Management Ordinance compliance may reduce the Solar Access Roof Area by 1 square foot. | EAc5, EAc2 SSc4 | CA Energy Code 140.10 (a-b), SFGBC 5.201.1.2 | CA Energy Code 150.1(s), 170.2(f-g), SFGBC 4.201.2 | CA Energy Code 140.10 (a-b), SFGBC 5.201.1.2 if applicable | - | - |
| Electric Vehicle Charging - Residential: New 1 - 2 Unit Dwellings: If off-street parking is constructed, install at least one circuit dedicated to EV charging (minimum 40A 208/240V) per parking space, terminating in a receptacle or permanently installed Level 2 EV charger. New 3+ Unit Multifamily: If assigned parking, or unassigned, or both are provided, install at least one Low-Power Level 2 EV Charging Receptacle (minimum 20A 208/240V) for each dwelling unit. If dwelling units exceed parking spaces, install at 100% of parking spaces. Circuits serving assigned parking shall originate at the panel serving the dwelling unit. In addition, if unassigned parking is provided, install Level 2 EV chargers serving 25% of unassigned parking spaces that are not equipped with a receptacle; Level 2 EV chargers shall be available for use by guests and residents. New Hotel/Motel: Install Level 2 EV chargers at 25% of spaces and low-power Level 2 receptacles at 40% of spaces. (Total: 65% of spaces.) Multifamily Alterations: Each parking space altered or added shall have access to either low-power Level 2 EV charging receptacle (minimum 20A 208/240V branch circuit and receptacle) or Level 2 EV charger. An Automated Load Management System may reduce required electrical capacity if the system has capacity to deliver minimum 3.3kW simultaneously to each space served by the ALMS, each branch service has minimum 40A capacity and each installed EV charger has capacity of 30A or greater. | - | - | SFGBC 4.106.4.1 CalGreen 4.106.4 (all sections) | - | - | CalGreen 4.106.4.3 |
| Electric Vehicle Charging - Non-residential new construction, alterations and additions: Install Level 2 EV Charging Stations and EV Capable spaces. See SFGBC Table 5.106.5.3.1 for minimum quantities. At minimum provide capacity to deliver 3.3kW simultaneously to each EVSE and EV Capable Space required by SFGBC Table 5.106.5.3.1 or CalGreen Table 5.106.5.3.6-EVCS, whichever is greater. Automated Load Management Systems, DC Fast Chargers, and Low-Power Level 2 EV Charging receptacles may modify capacity and minimum number of spaces. | Relates to LTc8 | CalGreen 5.106.5.4 (all sections) and SFGBC Table 5.106.5.3.1 | - | - | CalGreen 5.106.5.4 (all sections) and SFGBC Table 5.106.5.3.1 | - |

¹ For the purpose of compliance with local green building standards, construction of a single freestanding dwelling unit accessory to an existing structure is considered an addition. See Attachment B Table 4.

² New residential projects of any size have the option to use GreenPoint Rated or LEED BD&C Homes and Multifamily Workbook (see table B2).

³ LEED v4 does not assign numbers to credits. For convenience, in this bulletin and submittals, LEED credits are numbered corresponding to the order they appear in LEEDv4 checklists and documents.

Attachment B Table 1 Continued: Requirements for projects meeting a LEED Standard

(Sheet 2 of 3)

| Required Measures | LEEDv4 Credit ² | New Large Commercial | New Residential | Large First Time Commercial Interior | Commercial Major Alteration | Residential Major Alteration |
|--|-------------------------------|--|--|---|--|------------------------------|
| Indoor Water Efficiency – Reduce overall use of potable water within the building by specified percentage for showerheads, lavatories, kitchen faucets, wash fountains, water closets, and urinals. Repair all leaks. | BD+C/ID+C: WEc2/WEc1 2 points | CalGreen 5.303.3, SFGBC 5.103.1.2 | CalGreen 4.303.1 | LEEDv4 WEp2 / CalGreen 5.303.3 | | LEED WEp2 / CalGreen 4.303.1 |
| Water Efficient Irrigation – New construction projects with aggregated landscape area ≥500 sq.ft., or existing projects with modified landscape area ≥1,000 sq.ft., shall use low water use plants or climate appropriate plants, restrict turf areas and comply with Model Water Efficient Landscape Ordinance restrictions by calculated ETAF (.55 for residential, .45 for non-residential or less) or by prescriptive compliance for projects with ≤2,500 sq.ft. of landscape area. | WEc1 | SF Admin Code 63 (See “San Francisco’s Water Efficient Irrigation Ordinance” at www.sfpuc.org.) | | | | |
| Construction Site Runoff Pollution Prevention – Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices. | SSp1 ¹ | Public Works art.4.2 sec.146 SFGBC 5.103.1.6 | CalGreen 4.103.1.2 & SFGBC 4.103.2.4.1 | - | Public Works art.4.2 sec.146 (NPDES Phase II General Permit) | |
| Enhanced Refrigerant Management – Do not install equipment that contains CFCs or Halons | EAc6 | CalGreen 5.508.1.2 | - | CalGreen 5.508.1.2 | CalGreen 5.508.1.2 | - |
| Indoor Air Quality Management During Construction – Meet SMACNA Guidelines for Occupied Buildings Under Construction, protect materials from moisture damage, protect return air grills | IEQc3 | SFGBC 5.103.1.8 | CalGreen 4.504.1 | CalGreen 5.504.3 | | CalGreen 4.504.1 |
| Low-Emitting Adhesives, Sealants, and Caulks – Adhesives and Sealants meet VOC materials meeting SCAQMD Rule 1168, aerosol adhesives meet Green Seal standard GS-36 | IEQc2, 3 points | SFGBC 5.103.1.9 | CalGreen 4.504.2.1 | SFGBC 5.103.3.2 | | SFGBC 4.103.3.2 |
| Low-Emitting Paints and Coatings – Paints and coatings meet Green Seal GS-11 standard, anti-corrosive paints meet GC-03, and other coatings meet SCAQMD Rule 1113 | | SFGBC 5.103.1.9 | CalGreen 4.504.2.2 | SFGBC 5.103.3.2 | | SFGBC 4.103.3.2 |
| Low-Emitting Flooring, including Carpet - Hard flooring must be Resilient Floor Covering Institute FloorScore certified; Carpet must meet Carpet and Rug Institute (CRI) Green Label Plus; Carpet Cushion must meet CRI Green Label. | | SFGBC 5.103.1.9 | CalGreen 4.504.3 and 4.504.4 | SFGBC 5.103.3.2 | | SFGBC 4.103.3.2 |
| Low-Emitting Composite Wood - Composite wood and agrifiber must contain no added urea-formaldehyde resins, and meet applicable CARB Air Toxics Control Measure. | | SFGBC 5.103.1.9 | CalGreen 4.504.5 | SFGBC 5.103.3.2 | | CalGreen 4.504.4 |
| Embodied Carbon: Nonresidential new construction and alterations ≥50,000 sq ft shall either: Performance (5.409.2): Conduct a whole building life cycle assessment in accord with ISO 14040 & ISO 14044 demonstrating minimum 10% reduction in global warming potential (GWP), excluding operating energy. OR: Prescriptive (5.409.3) For each applicable permanently installed product listed in Table 5.409.3, obtain Type III Environmental Product Declaration (EPD) and meet GWP limit. OR: Reuse (5.105 - alterations & additions only) Reuse a minimum of 45% of the existing building’s structure and enclosure - excluding window assemblies, insulation, and hazardous materials remediated as part of the project. | MRc1 MRc2 | CalGreen 5.409.2, 5.409.3, and 5.105 | - | CalGreen 5.409.2, 5.409.3, and 5.105 | CalGreen 5.409.2, 5.409.3, and 5.105 | - |
| Recycling by Occupants – Provide adequate space and equal access for storage, collection and loading of compostable, recyclable and landfill materials. | MRp1 | SFBC 106A.3.3 and CalGreen 5.410.1; See DBI Administrative Bulletin 088 for details. To help estimate adequate space for collection by hauler, see supporting materials including a design guide and calculator at: www.sfenvironment.org/refusecalculator. | | | | |
| Bicycle Parking – Provide short- and long-term bike parking per CalGreen or meet SF Planning Code sec.155.1-2, whichever is greater. | LTc6 | CalGreen 5.106.4 & SF Planning Code 155 | CalGreen 4.106.4.4 & Planning Code 155 | CalGreen 5.106.4 and SF Planning Code 155 | | SF Planning Code 155 |
| Light pollution reduction – Meet California Energy Code minimum for Lighting Zones 1-4 with Backlight/Uplight/Glare ratings meeting CalGreen Table 5.106.8. | SSc6 is more strict. | CalGreen 5.106.8 | - | CalGreen 5.106.8 | | - |
| Wiring for Electric Vehicle Chargers - Warehouses, grocery stores, and retail stores with planned off-street loading spaces - Indicate location(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers. Transformer(s), main service, panels, and busway(s)/raceway(s) must meet minimum power requirement to accommodate dedicated branch circuits for future EVSE specified in Table 5.106.5.5.1. Install raceway from termination to location(s) for charging dispensers and cabinets. | - | CalGreen 5.106.5.5 | - | - | - | - |

Attachment B Table 1 Continued: Requirements for projects meeting a LEED Standard

(Sheet 3 of 3)

| Required Measures | LEEDv4 Credit ² | New Large Commercial | New Residential | Large First Time Commercial Interior | Commercial Major Alteration | Residential Major Alteration |
|--|--|--|---|--------------------------------------|---|-------------------------------|
| Shade Trees - Plant trees to sufficient to provide shade within 15 years for 20% of landscape and hardscape area. Exclude shade structures covered by photovoltaics or cool roof materials from total area calculation, including surface parking covered by PV. | SSc5 | CalGreen 5.106.12 | - | - | - | - |
| Stormwater Control Plan – Projects disturbing ≥5,000 sq ft in combined or separate sewer areas, or replacing ≥2,500 impervious sq ft in separate sewer area, must implement a Stormwater Control Plan meeting SFPUC Stormwater Management Requirements. | SSc4 | SFGBC 5.103.1.6 | SFGBC 4.103.2.4 | - | SF Public Works Code 4.2 (SFPUC stormwater ordinance) | |
| NonPotable Water – New buildings ≥40,000 square feet must calculate a water budget. New development projects ≥100,000 square feet must install and operate an onsite water reuse system using available rainwater, graywater, and foundation drainage for toilet and urinal flushing and irrigation | May contribute to WEc1, WEc2, and SSc4 | SF Health Code 12C | SF Health Code 12C | - | - | - |
| Water Meters – Provide submeters or utility meters for: - Nonresidential spaces projected to consume more than 1,000 gal/day, or more than 100 gal/day if in buildings ≥ 50,000 sq. ft. AND - Each individual residential dwelling unit. | N/A | CalGreen 5.303.1 | Plumbing Code 601.2.1 | CalGreen 5.303.1 (first time) | CalGreen 5.303.1 (addition only) | - |
| Air Filtration – Provide at least MERV-13 filters in regularly occupied spaces of mechanically ventilated non-residential occupancy, and in residential buildings located in air-quality hot-spots (or LEED credit IEQ 5). | EQc5 | CalGreen 5.504.5 | Energy Code 160.2 & 180.1(1) | CalGreen 5.504.5 | | Energy Code 160.2 & 180.1(1) |
| Acoustical Control – Wall and roof-ceilings STC 50, exterior windows STC 30, party walls and floor-ceilings STC 40. | N/A | CalGreen 5.507.4 | CBC 1207 applies ³ | CalGreen 5.507.4 | - | CBC 1207 applies ³ |
| Sprinklers – Design and maintain landscape irrigation systems to prevent spray on structures. | N/A | CalGreen 5.407.2.1 | LEED prerequisites | - | - | - |
| Entries and openings – Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings. | N/A | CalGreen 5.407.2.2 | LEED-H prerequisite (IDp2.1 and IDp2.2) | CalGreen 5.407.2.2 | | - |
| Multiple showerheads serving one shower (CalGreen 5.303.3.2.1) | N/A | SF Housing Code Ch 12 and SF Building Code Ch 13A prohibit more than one showerhead per valve. | | | | |
| Outdoor potable water use – Submeter landscaping separately where landscaping covers 1,000-5,000 sq. ft. (over 5,000 sq. ft. already required.) | N/A | Met by compliance with Water Efficient Irrigation Ordinance (SFAC 63) | | | | |
| Irrigation controllers – Provide weather or soil moisture based controllers that automatically adjust in response to plants' needs as weather conditions change. | N/A | Met by compliance with Water Efficient Irrigation Ordinance (SFAC 63) | | | | |
| Fireplaces and woodstoves – Install only direct-vent or sealed-combustion appliances; comply with US EPA Phase II limits. (CalGreen 5.503.1) | N/A | If permission to install new woodburning fireplaces can be obtained, Bay Area Air District Regulation 6, Rule 3 applies and is equivalent. | | | | |
| Environmental tobacco smoke (ETS) control – Prohibits smoking in buildings and outdoor areas for smoking within 25 feet of building entries, air intakes & operable windows. | IEQp2 | Required by San Francisco Health Code 19F and 19I. | | | | |
| Moisture control – Comply with California Building Code, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). (CalGreen 5.505.1) | N/A | Comply with cited code | - | - | - | - |
| Carbon dioxide monitoring – Buildings with demand control ventilation, install CO ₂ sensors and ventilation controls in accord with Energy Code. CalGreen 5.506.2 | N/A | Comply with cited code | - | - | - | - |

San Francisco Green Building Code

Table 2: Requirements for Projects Meeting a GreenPoint Rated Standard¹

(Sheet 1 of 2)

Attachment B Table 2

This table is a summary provided for convenience. See the San Francisco Green Building Code for details. Where code references are provided below:

"CalGreen" refers to California Green Building Standards Code (Title 24 Part 11)

"SFGBC" refers to San Francisco Green Building Code amendments

| Specific Locally Required Measures | Code Reference |
|--|--|
| Measures that are mandatory in San Francisco but may be different or not required elsewhere | |
| Construction Discards Management - 100% of mixed debris must be taken by a Permitted Transporter to a Registered Facility and processed for recycling and recovery. Complete a Material Reduction and Recovery Plan (MRRP) and demonstrate minimum recovery rate was achieved. Projects of 4 or more occupied floors must recover at least 75% of total debris. Projects of 3 or fewer occupied floors must recover at least 65% of total debris. For more information contact: debrisrecovery@sfgov.org / 415-355-3799. | SF Construction and Demolition Debris Recovery Ordinance (Environment Code Ch 14), SFGBC 4.103.2.3, CalGreen 4.408.2 and 4.408.5 See Information Sheet GB-02 for details |
| Recycling by Occupants – Provide adequate space and equal access for storage, collection and loading of compostable, recyclable and landfill materials. To help estimate adequate space for collection by hauler, see supporting materials including a design guide and calculator at: www.sfenvironment.org/refusecalculator . | SFBC 106A.3.3 (See DBI Administrative Bulletin 088 for details) |
| All-Electric: Newly constructed buildings must be all-electric, with no gas piping systems or infrastructure. For permits filed July 1, 2026 or later, Major Renovations to existing buildings (as defined by San Francisco Building Code Section 202) must be all-electric. See Administrative Bulletin 112 for details. | SFBC 106A.1.17 and GreenPointRated J5 (See DBI Administrative Bulletin 112 for details) |
| Energy Design – Comply with Title 24 2025. | SFBC 106A.1.17 |
| Better Roofs – Photovoltaics and battery storage are prescriptively required by Title 24 Part 6 (2025). If SFPUC Stormwater Requirements apply, each square foot of living roof contributing to Stormwater Management Ordinance compliance may reduce the Solar Access Roof Area by 1 square foot. | Title 24 Part 6 Section 150.1(s) and 170.2(f-g) SFGBC 4.201.2 |
| Electric Vehicle Charging - Residential: New 1 - 2 Unit Dwellings: If off-street parking is constructed, install at least one circuit dedicated to EV charging (minimum 40A 208/240V) per parking space, terminating in a receptacle or permanently installed Level 2 EV charger. New 3+ Unit Multifamily: If assigned parking, or unassigned, or both are provided, install at least one Low-Power Level 2 EV Charging Receptacle (minimum 20A 208/240V) for each dwelling unit. If dwelling units exceed parking spaces, install at 100% of parking spaces. Circuits serving assigned parking shall originate at the panel serving the dwelling unit. In addition, if unassigned parking is provided, install Level 2 EV chargers serving 25% of unassigned parking spaces that are not equipped with a receptacle; Level 2 EV chargers shall be available for use by guests and residents. New Hotel/Motel: Install Level 2 EV chargers at 25% of spaces and low-power Level 2 receptacles at 40% of spaces. (Total: 65% of spaces.) Multifamily Alterations: Each parking space altered or added shall have access to either low-power Level 2 EV charging receptacle (minimum 20A 208/240V branch circuit and receptacle) or Level 2 EV charger. An Automated Load Management System may reduce required electrical capacity if the system has capacity to deliver minimum 3.3kW simultaneously to each space served by the ALMS, each branch service has minimum 40A capacity and each installed EV charger has capacity of 30A or greater. | CalGreen 4.106.4 (all sections) |
| Construction Site Runoff Pollution Prevention – Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices. | SFGBC 4.103.1.2 and 4.103.2.4, NPDES Phase II General Permit and local regulations. |
| Stormwater Control Plan – Projects disturbing ≥5,000 sq ft in combined or separate sewer areas, or replacing ≥2,500 impervious sq ft in separate sewer area, must implement a Stormwater Control Plan meeting SFPUC Stormwater Requirements. | SFGBC 4.103.1.2 and 4.103.2.4 |
| NonPotable Water – New buildings ≥40,000 square feet must calculate a water budget. New development projects ≥100,000 square feet must install and operate an onsite water reuse system using available rainwater, graywater, and foundation drainage for toilet and urinal flushing and irrigation | SF Health Code Chapter 12C (See <i>Nonpotable Water Program</i> at www.sfwater.org) |
| Water Efficient Irrigation – New construction projects with aggregated landscape area ≥500 sq.ft., or existing projects with modified landscape area ≥1,000 sq.ft., shall use low water use plants or climate appropriate plants, restrict turf areas and comply with Model Water Efficient Landscape Ordinance restrictions by calculated ETAF (.55 for residential, .45 for non-residential or less) or by prescriptive compliance for projects with ≤2,500 sq.ft. of landscape area. | SF Admin Code 63 (See <i>San Francisco's Water Efficient Irrigation Ordinance</i> : sfpub.gov/learning/gardens-and-landscapes/water-efficient-irrigation-ordinance) |
| Additional Required Measures All CALGreen requirements for new residential construction (listed below) are required, and must be verified by the Rater whether or not GreenPoint Rated certification will be obtained. | |
| Water Meters – Provide submeters or utility meters for each individual residential dwelling unit and nonresidential spaces projected to consume more than 1,000 gal/day, or more than 100 gal/day if in buildings ≥ 50,000 sq ft | Plumbing Code 601.2.1 |
| Indoor Air Quality Management During Construction – Duct openings and other air distribution component openings must be covered during construction. | CalGreen 4.504.1 |
| Air Filtration in Operation – Multifamily projects must provide MERV-13 filters on HVAC for regularly occupied, actively ventilated spaces. Single family new construction in Air Pollutant Exposure Zones must provide MERV-13 filters on HVAC. | Energy Code 160.2 & 180.1(1); SF Health Code art.38 |
| Smart Irrigation Controller | CalGreen 4.304.1 |
| All roofing has 3-year subcontractor warranty and 20-year Manufacturer Warranty | GreenPoint Rated requirement for multifamily |
| Indoor Water Efficiency – Reduce indoor water use via efficient showerheads, lavatories, kitchen faucets, wash fountains, water closets, and urinals. | CalGreen 4.301 through 4.302 |
| Mechanical Ventilation - Comply with ASHRAE 62.2 (as adopted in Title 24 Part 6) | GreenPoint Rated / Title 24 Part 6 requirement for multifamily |
| Bathroom fans - ENERGY STAR and on timer or humidistat | CalGreen 4.506.1 |
| Low-VOC Interior Wall/Ceiling Paints (<50 grams per liter VOCs regardless of sheen) | CalGreen 4.504.2.2 through 4.504.2.4 |
| Low-VOC coatings - Meet SCAQMD Rule 1113 | CalGreen 4.504.2.2 through 4.504.2.4 |

¹) GreenPoint Rated is the default standard to be met by new residential projects. However, any new residential building may choose to instead apply LEED, provided that all CalGreen requirements are met. For information about using LEED for compliance with the San Francisco Green Building Code, see Attachment B Table 1.

Attachment B Table 2 Continued: Requirements for projects meeting a GreenPoint Rated standard

(Sheet 2 of 2)

| Additional Required Measures All CALGreen requirements for new residential construction (listed below) are required, and must be verified by the Rater whether or not GreenPoint Rated certification will be obtained. | |
|--|---|
| Low VOC Caulks, Construction adhesives, and Sealants - Meet SCAQMD Rule 1168 | CalGreen 4.504.2.1 |
| Low-emitting Composite Wood - Meet California Air Resources Board Airborne Toxic Control Measure formaldehyde limits for composite wood | CalGreen 4.504.5 |
| Low-emitting flooring: All carpet systems, carpet cushion, carpet adhesive, and at least 50% of resilient flooring must be low-emitting | CalGreen 4.504.3 and CalGreen 4.504.4 |
| Incorporate GreenPoint Rated Checklist in Blueprints | GreenPoint Rated requirement |
| Operations and Maintenance Manuals and Training - Provide O&M Manual to Building Maintenance Staff | CalGreen 4.410.1 |
| Design and Install HVAC System to ACCA Manual J, D, and S | CalGreen 4.507.2 |
| Surface Drainage: Construction plans shall indicate how the site grading or drainage system will manage surface water flows. | CalGreen 4.106.3 |
| Pest Protection - Annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against rodents. | CalGreen 4.406.1 |
| Fireplaces and woodstoves - Install only direct-vent or sealed-combustion appliances; comply with US EPA Phase II limits. | CalGreen 4.503.1. If permission to install new woodburning fireplaces can be obtained, Bay Area Air District Regulation 6 Rule 3 applies and is equivalent. |
| Capillary break for concrete slab on grade - Concrete slab on grade foundations required to have a vapor retarder must also have a capillary break. | CalGreen 4.505.2.1 |
| Moisture content of building materials - Verify wall and floor framing does not exceed 19% moisture content prior to enclosure. Materials with visible signs of moisture damage shall not be installed. | CalGreen 4.505.3 |
| HVAC Installer Qualifications - HVAC system installers must be trained and certified, or under the direct supervision of a person with such training or a contractor licensed to install HVAC systems. | CalGreen 4.702.1 |



San Francisco Green Building Code
Table 3: Requirements for All Non-residential Projects
Not Required to Meet a LEED Standard
 (Sheet 1 of 2)

Attachment B
Table 3

The following itemizes requirements for new non-residential buildings that are not otherwise required to meet a green building standard (E, F, H, L, S, U occupancy of any size, or A, B, I, or M occupancy <25,000 sq. ft.), and for non-residential additions of ≥1,000 sq ft or alterations of ≥\$200,000 value. In additions and alterations, requirements apply to areas and systems within the scope of the project. This summary is provided for convenience; see the San Francisco Green Building Code for details.

| Local Requirements | All "Other" New Non-Residential | All "Other" Non-Residential Additions & Alterations |
|--|---|--|
| Measures that are mandatory in San Francisco but may be different or not required elsewhere | | |
| Construction Discards Management - 100% of mixed debris must be taken by a Permitted Transporter to a Registered Facility for recycling and recovery. Complete Material Reduction and Recovery Plan and demonstrate minimum 65% recovery rate. For more information, see Information Sheet GB-02, or contact 415-355-3799 / debrisrecovery@sfgov.org. | SF Construction and Demolition Debris Recovery Ordinance (Environment Code Ch 14) CalGreen 5.405.1.1, 5.408.1.4 (See Information Sheet GB-02 for details) | |
| Recycling by occupants – Provide adequate space and equal access for storage, collection and loading of compostable, recyclable and landfill materials. To help estimate adequate space for collection by hauler, see supporting materials including a design guide and calculator at: www.sfenvironment.org/refusecalculator . | SFBC 106A.3.3 and other local regulations (See DBI Administrative Bulletin 088 for details) | |
| All-Electric - New buildings must be all-electric, with no gas piping systems or infrastructure. For permits filed July 1, 2026 or later, Major Renovations to existing buildings (as defined by San Francisco Building Code Section 202) must be all-electric, with no gas piping systems or infrastructure. See Administrative Bulletin 112 for details. | SFBC 106A.1.17 | See Administrative Bulletin 112 for applicability |
| Energy Design: Meet Title 24 2025. | Title 24 Part 6 | Title 24 Part 6 |
| Better Roofs – Photovoltaics and battery storage are prescriptively required by Title 24 Part 6 (2025). If SFPUC Stormwater Requirements apply, each square foot of living roof contributing to Stormwater Management Ordinance compliance may reduce the Solar Access Roof Area by 1 square foot. | SFGBC 5.201.1.2 Energy Code 140.10(a-b) | n/r |
| Electric Vehicle Chargers: New Construction - Install Level 2 EV Charging Stations and EV Capable spaces (e.g. raceway capable of supporting future Level 2 EVSE - min 40A 208/240VAC). See SFGBC Table 5.106.5.3.1 for minimum quantities. Automated Load Management Systems (ALMS) may be used, and installation of higher-capacity chargers or greater quantities of lower-capacity receptacles for charging may modify minimum requirements. | SFGBC Table 5.106.5.3.1, CalGreen 5.106.5 (all sections) | see below |
| Electric Vehicle Charging: Additions and Alterations - EVSE shall be installed when EITHER: Construction scope increases power supply to an electric service panel and the parking facility is undergoing an addition or alteration; or a new photovoltaic system is installed covering parking spaces; OR Building additions of 1,000 sq ft or greater and/or alterations with \$200,000 permit valuation or greater and the scope of work includes an increase in power supply to an electric service panel. Install Level 2 EV Charging Stations and EV Capable spaces. See SFGBC Table 5.106.5.3.1 for minimum quantities for the total number of spaces added or altered. (For office and retail, requires EVSE in approx.23% of total spaces and raceway to additional 7% of spaces. For other uses, requires EVSE in approx 15% of total spaces and raceway to additional 15% of spaces.) | see above | CalGreen 5.103.3.4 (all sections) and EITHER SFGBC Table 5.106.5.3.1 or CalGreen Table 5.106.5.3.6-EVCS |
| Construction site runoff pollution prevention – Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices. | CalGreen 5.106.1, as well as NPDES Phase II General Permit and other local regulations. | |
| Stormwater Control Plan – Projects disturbing ≥5,000 sq ft in combined or separate sewer areas, or replacing ≥2,500 impervious sq ft in separate sewer area, must implement a Stormwater Control Plan meeting SFPUC Stormwater Management Requirements. | SF Public Works Code Article 4.2, Sec. 147 (See <i>Stormwater Management Requirements and Design Guidelines</i> , www.sfwater.org) | |
| NonPotable Water – New buildings ≥40,000 square feet must calculate a water budget. New development projects ≥100,000 square feet must install and operate an onsite water reuse system using available rainwater, graywater, and foundation drainage for toilet and urinal flushing and irrigation | SF Health Code Chapter 12C | n/r |
| Water efficient irrigation – New construction projects with aggregated landscape area ≥500 sq.ft., or existing projects with modified landscape area ≥1,000 sq.ft., shall use low water use plants or climate appropriate plants, restrict turf areas and comply with Model Water Efficient Landscape Ordinance restrictions by calculated ETAF ≤.45 or by prescriptive compliance for projects with ≤2,500 sq.ft. of landscape area. | SF Admin Code 63 (See "San Francisco's Water Efficient Irrigation Ordinance" at www.sfpuc.org .) | |
| Bicycle parking - For short-term visitors, provide permanent bicycle racks within 200 feet of visitor's entrance for 20% of peak daily visitors (minimum of one rack with capacity for two bicycles). In addition, provide secure bicycle parking for 10% of tenant-occupants (either covered & lockable enclosure or lockable room with permanently anchored racks, or permanent bicycle lockers), OR meet SF Planning Code sec.155.1-2, whichever is greater. | CalGreen 5.106.4 or SF Planning Code 155.1-2 | CalGreen 5.106.4 - Applicable if 10 more more parking stalls are added. |
| CalGreen Requirements California Green Building Standards Code (Title 24 Part 11) requires: | All "Other" New Non-Residential | All "Other" Non-Residential Additions & Alterations |
| Light pollution reduction - Meet California Energy Code minimum requirements for Lighting Zones 1-4, with Backlight/Uplight/Glare ratings meeting CalGreen Table 5.106.8. Provisions of California Energy Code Section 147 apply. Emergency lighting exempt. | CalGreen 5.106.8 | n/r |
| Water meters - In new buildings and additions, provide submeters for each tenant projected to consume more than 1,000 gal/day. In new buildings >50,000 sq ft and additions over 50,000 sq ft, provide submeter for each individual tenant space projected to consume more than 100 gal/day. | CalGreen 5.303.1 | CalGreen 5.303.1 (additions only) |
| Water Conserving Fixtures and Fittings - Reduce overall use of potable water within the building by installing showerheads, lavatories, kitchen faucets, wash fountains, water closets, and urinals that meet current code. | CalGreen 5.303.3 | CalGreen 5.303.3 See also SFBC 13A. |
| Commissioning - For new buildings greater than 10,000 square feet, commissioning shall be included in the design and construction of the project to verify that the building systems and components meet the owner's project requirements. OR for buildings less than 10,000 square feet, as well as newly installed equipment in additions or alterations, testing and adjusting is required. | CalGreen 5.410.2 for new buildings >10,000 square feet Calgreen 5.410.4 for buildings ≤ 10,000 square feet | CalGreen 5.410.4 for buildings ≤ 10,000 square feet, and for systems that serve additions and alterations. |
| Ventilation system protection during construction - Protect openings and mechanical equipment from dust and pollutants during construction. Do not use permanent HVAC equipment except to maintain required temperature range for material and equipment installation. | CalGreen 5.504.1.3 and 5.504.3 | CalGreen 5.504.1.3 and 5.504.3 |
| Air Filtration - Provide at least MERV-13 filters in regularly occupied spaces of mechanically ventilated buildings. Installed filters must be clearly labeled by the manufacturer indicating the MERV rating, and filter specification shall be included in the operation and maintenance manual. | CalGreen 5.504.5.3 through 5.504.5.3.1 | CalGreen 5.504.5.3 through 5.504.5.3.1 Existing equipment is exempt |
| Adhesives, sealants, and caulks - Comply with VOC limits in SCAQMD Rule 1168 VOC limits and California Code of Regulations Title 17 for aerosol adhesives. | CalGreen 5.504.4.1 | CalGreen 5.504.4.1 |
| Paints and coatings - Comply with VOC limits in the Air Resources Board Architectural Coatings Suggested Control Measure and California Code of Regulations Title 17 for aerosol paints. | CalGreen 5.504.4.3.1 | CalGreen 5.504.4.3.1 |
| Composite wood - Meet CARB Air Toxics Control Measure for Composite Wood, including meeting the emission limits in CalGreen Table 5.504.4.5. | CalGreen 5.504.4.5 | CalGreen 5.504.4.5 |

Attachment B Table 3 Continued: Requirements for Non-Residential Projects Not Required to Meet a LEED Standard
(Sheet 2 of 2)

| CalGreen Required Measures The California Green Building Standards Code (Title 24 Part 11) requires: | All "Other" New Non-Residential | All "Other" Non-Residential Additions & Alterations |
|--|---|---|
| Carpet - All carpet must meet one of the following: 1. Carpet and Rug Institute Green Label Plus Program, 2. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350), 3. NSF/ANSI 140 at the Gold level, 4. Scientific Certifications Systems Sustainable Choice, OR 5. California Collaborative for High Performance Schools EQ 7.0 and 7.1 AND carpet cushion must meet Carpet and Rug Institute Green Label, AND indoor carpet adhesive & carpet pad adhesive must not exceed 50 g/L VOC content. | CalGreen 5.504.4.4 through 5.504.4.4.2 | CalGreen 5.504.4.4 through 5.504.4.4.2 |
| Resilient flooring systems - For 80% of floor area receiving resilient flooring, install resilient flooring complying with: 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program, 2. Compliant with the VOC-emission limits and testing requirements of California Department of Public Health 2010 Standard Method for the Testing and Evaluation Chambers v.1.1, 3. Compliant with the Collaborative for High Performance Schools (CHPS) EQ2.2 and listed in the CHPS High Performance Product Database, OR 4. Certified under the Greenguard Children & Schools Program to comply with California Department of Public Health criteria. | CalGreen 5.404.4.4. and 5.504.4.6 | CalGreen 5.404.4.4. and 5.504.4.6 |
| Acoustical control - Wall and roof-ceilings STC 50, exterior windows STC 30, party walls and floor-ceilings STC 40. | CalGreen 5.507.4 | CalGreen 5.504.5.3 (Applies to addition, or alteration to envelope) |
| CFCs and halons - Do not install equipment that contains CFCs or Halons. | CalGreen 5.508.1 | CalGreen 5.508.1 |
| Sprinklers - Design and maintain landscape irrigation systems to prevent spray on structures. | CalGreen 5.407.2.1 | CalGreen 5.407.2.1 |
| Grading and Paving - Construction plans must indicate how site grading or drainage will manage all surface water flows to keep water from entering buildings. | CalGreen 5.106.10 | - |
| Entries and openings - Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings. | CalGreen 5.407.2.2 | CalGreen 5.407.2.2 |
| Supermarket refrigerant leak reduction - Applies to new commercial refrigeration systems containing refrigerants with Global Warming Potential (GWP) of 150 or greater, when installed in food stores with 8,000 square feet or more conditioned area utilizing either refrigerated display cases, walk-in coolers or freezers connected to remote compressor units or condensing units. Piping shall meet all requirements of 5.508.2 (all sections), and shall undergo pressure testing during installation prior to evacuation and charging. System shall stand unaltered for 24 hours with no more than a one pound pressure change from 300 psig. See 5.508.2 for details. | CalGreen 5.508.2 | CalGreen 5.508.2 |
| Other CALGreen Requirements The following elements of the California Green Building Standards Code (Title 24 Part 11) are superseded by stricter local requirements, or duplicate other state code as noted. To avoid duplication, no special green building documentation is required. | All "Other" New Non-Residential | All "Other" Non-Residential Additions & Alterations |
| Multiple showerheads serving one shower (CalGreen 5.303.3.3.2) | SF Housing Code Ch 12 SF Building Code Ch 13A prohibit more than one showerhead per valve. CalGreen 5.303.3.3.1 limits flow rate to 1.8 gpm | |
| Outdoor potable water use - Submeter landscaping separately where landscaping covers 1,000-5,000 sq. ft. (over 5,000 sq. ft. already required.) | Comply with Water Efficient Irrigation Ordinance (SFAC 63) | |
| Irrigation controllers - Provide weather or soil moisture based controllers that automatically adjust in response to plants' needs as weather conditions change. | Comply with Water Efficient Irrigation Ordinance (SFAC 63) | |
| Fireplaces and woodstoves - Install only direct-vent or sealed-combustion appliances; comply with US EPA Phase II limits. | If permission to install new woodburning fireplaces can be obtained, BAAQMD Regulation 6, Rule 3 applies and is equivalent. | |
| Environmental tobacco smoke (ETS) control - Smoking in buildings is prohibited, and outdoor areas provided for smoking must be >25 feet from building entries, outdoor air intakes and operable windows. | Required by San Francisco Health Code 19F and 19I. | |
| Moisture control - Comply with California Building Code, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). (CalGreen 5.505.1) | Comply with cited code | |
| Carbon dioxide monitoring - For new buildings and additions with demand control ventilation, install carbon dioxide sensors and ventilation controls in accord with California Energy Code. (CalGreen 5.506.2) | Comply with cited code | |
| Shade Trees - Plant trees sufficient to provide shade within 15 years for 20% of landscape and hardscape area. Exclude shade structures covered by photovoltaics or cool roof materials from total area calculation. | CalGreen 5.106.12 | n/r |



San Francisco Green Building Code

Table 4: Requirements for Residential Additions, and Alterations

Attachment B Table 4

The following itemizes requirements for additions to residential buildings, as well as alterations which increase the building's floor area, volume, or size. For the purpose of compliance with local green building standards, construction of a single freestanding dwelling unit accessory to an existing structure is considered an addition. Except where noted, requirements apply only to areas and systems within the scope of the project. This summary is provided for convenience; see the San Francisco Green Building Code for details.

| Specific Locally Required Measures | All "Other" Residential Additions & Alterations |
|---|---|
| Measures that are mandatory in San Francisco but may be different or not required elsewhere | |
| Construction Discards Management - 100% of mixed debris must be taken by a Permitted Transporter to a Registered facility for recycling and recovery. Submit a Material Reduction and Recovery Plan (MRRP) demonstrating ≥65% recovery. For more information, see DBI Information Sheet GB-02 or contact: debrisrecovery@sfgov.org / 415-355-3799. | SF Construction and Demolition Debris Recovery Ordinance (Environment Code Ch 14) CalGreen 4.408.2, and CalGreen 4.408.5 |
| Recycling by occupants – Provide adequate space and equal access for storage, collection and loading of compostable, recyclable and landfill materials. To help estimate adequate space for collection by hauler, see supporting materials including a design guide and calculator at: www.sfenvironment.org/refusecalculator. | SFBC 106A.3.3 and other local regulations (See DBI Administrative Bulletin 088) |
| Energy design – Comply with California Energy Standards. | Title 24 Part 6 (2025) |
| All-Electric Construction: Newly constructed buildings must be all-electric, including freestanding ADU. For permits filed July 1, 2026 or later, Major Renovations to existing buildings (as defined by San Francisco Building Code Section 202) must be all-electric. by SF Building Code 106A.1.17. | SFBC 106A.1.17 |
| Construction site runoff pollution prevention - Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices. | CalGreen 4.106.2, NPDES Phase II General Permit and other local regulations. |
| Stormwater Control Plan – Projects disturbing ≥5,000 square feet of ground surface must implement a Stormwater Control Plan meeting SFPUC stormwater design guidelines. | SF Public Works Code Article 4.2, Section. 147 |
| NonPotable Water – New buildings ≥40,000 square feet must calculate a water budget. New development projects ≥100,000 square feet must install and operate an onsite water reuse system using available rainwater, graywater, and foundation drainage for toilet and urinal flushing and irrigation | N/A |
| Water efficient irrigation – New construction projects with aggregated landscape area ≥500 sq.ft., or existing projects with modified landscape area ≥1,000 sq.ft. shall use low water use plants or climate appropriate plants, restrict turf areas and comply with Model Water Efficient Landscape Ordinance restrictions by calculated ETAF (maximum 0.55 for residential) or by prescriptive compliance for projects with ≤2,500 sq.ft. of landscape area. See www.sfpuc.org for details. | SF Admin Code 63 (See San Francisco's Water Efficient Irrigation Ordinance at www.sfpuc.org) |
| CalGreen Required Measures | All "Other" Residential Additions & Alterations |
| The California Green Building Standards Code (Title 24 Part 11) requires: | |
| Indoor Air Quality Management During Construction – Duct openings and other air distribution component openings must covered during all phases of construction. Tape, plastic, sheetmetal, or other acceptable methods may be used to reduce the amount of water, dust, and debris entering the system. | CalGreen 4.504.1 |
| Smart Irrigation Controller – Automatically adjust irrigation based on weather and soil moisture. Controllers must have either an integral or separate rain sensors that connects or communicates with the controller. | CalGreen 4.304.1 |
| Indoor Water Efficiency – Plumbing fixtures and fittings shall comply with the following: Water closets ≤1.28 gal/flush; urinals ≤0.5 gal/flush, showerheads ≤1.8 gpm @ 80 psi; residential lavatory faucet ≤1.5 gpm; lavatory faucets in common and public use areas ≤0.5 gpm @ 60 psi; metering faucets ≤0.25 gal/cycle; and kitchen faucets ≤1.8 gpm @60 psi (temporary increase to 2.2 gpm allowed, but must default to ≤1.8 gpm). | CalGreen 4.303 (all sections) |
| Electric Vehicle Charging – For multifamily alterations: Each parking space altered or added shall have access to either low-power Level 2 EV charging receptacle (minimum 20A 208/240V branch circuit and receptacle) or Level 2 EV charger. Installation of Automatic Load Management Systems (ALMS), high-capacity DC Fast chargers, or greater quantities of lower-capacity receptacles dedicated to EV charging may modify minimum requirements. Applies to alterations where off-street parking is added, OR electrical systems are altered in existing parking facilities | CalGreen 4.106.4.3 |
| Bicycle Parking for Multifamily Alterations – Within 200 feet of entrance, provide one short-term bike parking space per 10,000 sq ft (minimum 2) . In addition provide minimum one secure long-term bicycle parking space for every two dwelling units. | CalGreen 4.106.4.4 or Planning Code sec. 155.1-2 |
| Bathroom exhaust fans - Must be ENERGY STAR compliant, ducted to terminate outside the building, and controlled by humidistat capable of adjustment between relative humidity of less than 50% to maximum of 80%. Humidity control may be a separate component from the exhaust fan. | Calgreen 4.506.1 |
| Low-VOC Interior Wall/Ceiling Paints - CARB VOC limits (CalGreen Table 4.504.3) | CalGreen 4.504.2.2 |
| Low-VOC aerosol paints and coatings - Meet BAAQMD VOC limits (Regulation 8, Rule 49) and Product-Weighted MIR Limits for ROC. (CCR Title 17, Section 94520) | CalGreen 4.504.2.3 |

Attachment B Table 4 Continued: Requirements for residential additions, and alterations
(Sheet 2 of 2)

| CalGreen Required Measures The California Green Building Standards Code (Title 24 Part 11) requires: | Residential Additions & Alterations |
|--|--|
| Low VOC Caulks, Construction adhesives, and Sealants - Meet SCAQMD Rule 1168. See CalGreen Tables 4.504.1 and 4.504.2. | CalGreen 4.504.2.1 |
| Low-emitting Composite Wood - Meet California Air Resources Board Airborne Toxic Control Measure formaldehyde limits for composite wood. See CalGreen Table 4.504.5 | CalGreen 4.504.5 |
| Low-emitting flooring: All carpet systems, carpet cushion, carpet adhesive, and at least 80% of resilient flooring must be low-emitting | CalGreen 4.504.3 through 4.504.4 |
| Operations and Maintenance Manuals and Training - Provide O&M Manual to Building Maintenance Staff. Due at the time of final inspection. | CalGreen 4.410.1 |
| Design and Install HVAC System to ACCA Manual J, D, and S | CalGreen 4.507.2 |
| Surface Drainage: Construction plans shall indicate how the site grading or drainage system will manage surface water flows. | CalGreen 4.106.3 |
| Pest Protection - Annular spaces around pipes, electric cables, conduits, or other openings in sole/bottom plates at exterior walls shall be closed with cement mortar, concrete masonry, or a similar method acceptable to DBI for protection against rodents. | CalGreen 4.406.1 |
| Fireplaces and woodstoves - Install only direct-vent or sealed-combustion appliances; comply with US EPA Phase II limits. | CalGreen 4.503.1 |
| Capillary break for concrete slab on grade - Concrete slab on grade foundations required to have a vapor retarder must also have a capillary break, including at least one of the following: 1) A 4-inch (101.6 mm) thick base of 1/2-inch (12.7 mm) or larger clean aggregate shall be provided with a vapor retarder in direct contact with concrete and a concrete mix design which will address bleeding, shrinkage and curling shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. 2) A slab design specified by a licensed design professional. | CalGreen 4.505.2. |
| Moisture content of building materials - Verify wall and floor framing does not exceed 19% moisture content prior to enclosure. Materials with visible signs of moisture damage shall not be installed. Moisture content shall be verified in compliance with the following: 1) Moisture content shall be determined with either a probe-type or a contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements in Section 101.8. 2) Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade-stamped end of each piece to be verified. 3) At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Manufacturers' drying recommendations shall be followed for wet-applied insulation products prior to enclosure | CalGreen 4.505.3 |
| HVAC Installer Qualifications - HVAC system installers must be trained and certified in the proper installation of HVAC systems, such as via a state certified apprenticeship program, public utility training program (with certification as installer qualification), or other program acceptable to the Department of Building Inspection | CalGreen 702.1 |



Instructions for Green Building Submittals

Green Building Submittal Forms are provided in electronic format for your convenience via the Department of Building Inspection (DBI) website:

<https://www.sf.gov/departments--department-building-inspection>

Locating Documents

From the DBI website, navigate to “Building Permit Services”. Forms may be found via either of two options:

- Select “Building permit application forms”, and scroll to “Green Building forms”.
OR
- Select “Fill out the Green Building Forms”.

Both pages contain each Green Building Submittal Form as a single-page pre-formatted PDF file.

Green Building: Site Permit Submittal

When applying for a Site Permit, use Attachment C-2: Green Building Site Permit Submittal Form. A LEED or GreenPoint checklist is not required at Site Permit, but will be required with the superstructure addendum.

Single Page Submittal Templates (Recommended)

Pre-formatted forms are provided for single-sheet submittals. Follow the instructions on the form.

For GS-2 and GS-6, a LEED or GreenPoint checklist is required on a separate sheet.

- LEED checklists may be obtained via the USGBC ARC software platform or from usgbc.org/leed-tools/scorecard.
- A qualified GreenPoint Rater (as specified in the narrative of this bulletin) has the tools necessary to prepare a project-specific GreenPoint checklist for submittals. For more information – including guidelines and a list of all GreenPoint measures - please see: greenpointrated.com

Optional Custom Layouts

When necessary, such as cases where submittals must be split into multiple pages to maintain legibility, prepare separate electronic files containing each element of the Green Building Submittal template:

- Checklist of green building requirements with References sub-section indicating which drawings or specifications correspond to each requirement.
- “Verification” form

To be complete, a multi-page submittal must include completed versions of each of these three elements. For separate electronic files, contact the Environment Department:

greenbuilding@sfgov.org.

GS1: San Francisco Green Building Site Permit Submittal Form

Green Building Submittal (GS) Forms are part of DBI Administrative Bulletin 093 - Implementation of Green Building Regulations.

For more information visit sf.gov/departments--department-building-inspection - See: *Administrative Bulletins in the SF Building Code*
Municipal projects: Use GS6; additional Environment Code Chapter 7 requirements apply.

**CHECK THE ONE COLUMN
THAT BEST DESCRIBES YOUR PROJECT**

INSTRUCTIONS:

- Select one (1) column to identify requirements for the project. Applicability of any individual requirement may depend upon project scope.
- Fill in the Project Information box at the right.
Submittal must be a minimum of 24" x 36". A scorecard is not required with site permit application, but using such tools as early as possible is recommended.

| TITLE | | | SOURCE OF REQUIREMENT | | | DESCRIPTION OF REQUIREMENT | | | NEW CONSTRUCTION | | | | ALTERATIONS + ADDITIONS | | | | | PROJECT INFO |
|------------------------------|--|---|--|-------------|---|---|--|--|--------------------------------|--|---|-------------------------------------|---|---|---|--------------------------------------|--|--------------|
| | | | | | | | | | LOW-RISE RESIDENTIAL | HIGH-RISE RESIDENTIAL | LARGE NON-RESIDENTIAL | OTHER NON-RESIDENTIAL | RESIDENTIAL MAJOR ALTERATIONS + ADDITIONS | OTHER RESIDENTIAL ALTERATIONS + ADDITIONS | NON-RESIDENTIAL MAJOR ALTERATIONS + ADDITIONS | FIRST-TIME NON-RESIDENTIAL INTERIORS | OTHER NON-RESIDENTIAL INTERIORS, ALTERATIONS + ADDITIONS | |
| LEED/GPR | LEED/GPR | LEED/GPR | R 1-3 Floors | R 4+ Floors | A, B, E, I, M 25,000 sq. ft. or greater | F, H, L, S, U or A, B, E, I, M less than 25,000 sq. ft. | R 25,000 sq. ft. or greater | R adds any amount of conditioned area | B, M 25,000 sq. ft. or greater | A, B, I, M 25,000 sq. ft. or greater | A, B, E, F, H, L, I, M, S, U ≥1,000 sq ft addition or alteration ≥\$200,000 value | PROJECT NAME | BLOCK/LOT | ADDRESS | PRIMARY OCCUPANCY | GROSS BUILDING AREA | DESIGN PROFESSIONAL or PERMIT APPLICANT (sign & date) | |
| LEED/GPR | Required LEED or GPR Certification Level | SFGBC 4.103.1.1, 4.103.2.1, 4.103.3.1, 5.103.1.1, 5.103.3.1 & 5.103.4.1 | Project is required to achieve sustainability certification listed at right. | | | LEED SILVER (50+) or GPR (75+) CERTIFIED | LEED SILVER (50+) or GPR (75+) CERTIFIED | LEED GOLD (60+) CERTIFIED | n/r | LEED SILVER (50+) or GPR (75+) CERTIFIED | n/r | LEED GOLD (60+) CERTIFIED | LEED GOLD (60+) CERTIFIED | n/r | | | | |
| LEED/GPR | Adjustment for Retention/Demolition of Historic Features/Buildings | SFGBC 4.104, 4.105, 5.104 & 5.105 | Enter any applicable adjustments to LEED or GPR point requirements in box at right. | | | | | | n/r | | | | | n/r | | | | |
| MATERIAL EMISSIONS | LOW-EMITTING MATERIALS | CALGreen 4.504.2.1-5 & 5.504.4.1-6, SFGBC 4.103.3.2, 5.103.1.9, 5.103.3.2 & 5.103.4.2 | Use products that comply with the emission limit requirements of 4.504.2.1-5, 5.504.4.1-6 for adhesives, sealants, paints, coatings, carpet systems including cushions and adhesives, resilient flooring (80% of area), and composite wood products. Major alterations to existing residential buildings must use low-emitting coatings, adhesives and sealants, and carpet systems meeting GPR measures K2, K3 and L2 or LEED EQc2. New large non-residential interiors and major alterations to existing residential and non-residential buildings: interior paints, coatings, sealants, adhesives when applied on-site, flooring and composite wood must meet the requirements of LEED credit Low-Emitting Materials (EQc2). | | | 4.504.2.1-5 | 4.504.2.1-5 | LEED EQc2 | 5.504.4.1-6 | LEED EQc2 or GPR K2, K3 & L2 | 4.504.2.1-5 | LEED EQc2 | LEED EQc2 | LEED EQc2 | 5.504.4.1-6 | | | |
| WATER | INDOOR WATER USE REDUCTION | CALGreen 4.303.1 & 5.303.3, SFGBC 5.103.1.2, SF Housing Code sec.12A10, SF Building Code ch.13A | Meet flush/flow requirements for: toilets (1.28gpf); urinals (0.125gpf wall, 0.5gpf floor); showerheads (1.8gpm); lavatories (1.2gpm private, 0.5gpm public/common); kitchen faucets (1.8gpm); wash fountains (1.8gpm); metering faucets (0.2gpc); food waste disposers (1gpm/8gpm). Residential projects must upgrade all non-compliant fixtures per SF Housing Code sec.12A10. Large non-residential interiors, alterations & additions must upgrade all non-compliant fixtures per SF Building Code ch.13A. New large non-residential buildings must also achieve minimum 30% indoor potable water use reduction as calculated to meet LEED credit Indoor Water Use Reduction (WEC2). | | | • | • | LEED WEC2 (2 pts) | • | • | • | • | • | • | • | | | |
| | NON-POTABLE WATER REUSE | Health Code art.12C | New buildings ≥40,000 sq.ft. must calculate a water budget. New development projects ≥100,000 sq.ft. must install and operate an onsite water reuse system using available rainwater, graywater, and foundation drainage for toilet and urinal flushing and irrigation. See www.SFPUC.org for details. | | | n/r | • | • | n/r | n/r | n/r | n/r | n/r | n/r | n/r | | | |
| | WATER-EFFICIENT IRRIGATION | Administrative Code ch.63 | New construction projects with aggregated landscape area ≥500 sq. ft., or existing projects with modified landscape area ≥1,000 sq. ft. shall use low water use plants or climate appropriate plants, restrict turf areas and comply with Model Water Efficient Landscape Ordinance restrictions by calculated ETAF (maximum 0.55 for residential, 0.45 for non-residential) or by prescriptive compliance for projects with ≤2,500 sq.ft. of landscape area. See www.sfpuc.org for details. | | | • | • | • | • | • | • | • | • | • | • | | | |
| | WATER METERING | CALGreen 4.303.2, 5.303.1, Plumbing Code 601.2.1 | Provide submeters or utility meters for: Nonresidential spaces projected to consume more than 1,000 gal/day, or more than 100 gal/day if in buildings ≥ 50,000 sq. ft. AND each individual residential dwelling unit. | | | • | • | • | • | n/r | n/r | • | • | • | • | | | |
| ENERGY | ALL-ELECTRIC CONSTRUCTION | SFBC 106A.1.17 | Newly constructed buildings must be all-electric, with no gas piping systems or infrastructure. For permits filed July 1, 2026 or later, Major Renovations to existing buildings (as defined by San Francisco Building Code Section 202) must be all-electric. See Administrative Bulletin 112 for details. | | | • | • | • | • | GPR: J5 | n/r | n/r | n/r | n/r | n/r | | | |
| | ENERGY DESIGN | CA Title 24 Part 6 | Comply with Title 24 Part 6 (2025). | | | • | • | • | • | • | • | • | • | • | • | | | |
| | BETTER ROOFS | SFGBC 4.201.2 & 5.201.1.2 CA Energy Code 140.10(a-b), 150.1(s), 170.2(f-g) | Photovoltaics and battery energy storage systems are prescriptively required for common nonresidential occupancies per CA Energy Code 140.10(a-b) and multifamily per 170.2(f-g). PV is prescriptively required for single family per 150.1(c)14, along with either installation or wiring for future installation of energy storage systems per 150.0(s). If SFPUC Stormwater Requirements apply, each square foot of living roof contributing to Stormwater Management Ordinance compliance may reduce the Solar Access Roof Area by 1 square foot. | | | • | • | Applies to most types of A, B, I, E, M occupancies. See Energy Code 140.10(a). | n/r | n/r | n/r | n/r | n/r | n/r | | | | |
| | COMMISSIONING (Cx) | CALGreen 5.410.2 - 5.410.4.5.1 | For projects ≥10,000 sq. ft., include Owners Project Requirements, Basis of Design, and commissioning plan in design & construction. Perform commissioning. Alterations & additions with new HVAC equipment must test and adjust all equipment. | | | n/r | n/r | LEED Eac1 opt. 1 | • | n/r | n/r | • | • | • | • | | | |
| PARKING | BICYCLE PARKING | CALGreen 4.106.4.4, 5.106.4, Planning Code 155.1-2 | Provide short- and long-term bike parking per CalGreen or meet SF Planning Code sec.155.1-2, whichever is greater. | | | SF Planning Code sec.155.1-2 | SF Planning Code sec.155.1-2 | • | • | if applicable SF Planning Code sec.155.1-2 | if applicable SF Planning Code sec.155.1-2 | • | • | • | • | if >10 stalls added | | |
| | ELECTRIC VEHICLE CHARGING | CALGreen 4.106.4 (all sections), 5.106.5.4 (all sections) AND SFGBC Table 5.106.5.3.1 | <p>New 1 - 2 Unit Dwellings: If off-street parking is constructed, install at least one circuit dedicated to EV charging (minimum 40A 208/240V) per parking space, terminating in a receptacle or permanently installed Level 2 EV charger.</p> <p>New 3+ Unit Multifamily: If assigned parking, or unassigned, or both are provided, install at least one Low-Power Level 2 EV Charging Receptacle (minimum 20A 208/240V) for each dwelling unit. If dwelling units exceed parking spaces, install at 100% of parking spaces. Circuits serving assigned parking shall originate at the panel serving the dwelling unit. Additionally if unassigned parking is provided, install Level 2 EV chargers serving 25% of unassigned parking spaces that are not equipped with a receptacle; Level 2 EV chargers shall be available for use by guests and residents.</p> <p>New Hotel/Motel: Install Level 2 EV chargers at 25% of spaces and low-power Level 2 receptacles at 40% of spaces. (Total: 65% of spaces.)</p> <p>Multifamily Alterations: Each parking space altered or added shall have access to either low-power Level 2 EV charging receptacle (minimum 20A 208/240V branch circuit and receptacle) or Level 2 EV charger. An Automated Load Management System may reduce required electrical capacity if the system has capacity to deliver minimum 3.3kW simultaneously to each space served by the ALMS, each branch service has minimum 40A capacity and each installed EV charger has capacity of 30A or greater.</p> <p>Non-residential new construction: Install Level 2 EV Charging Stations and EV Capable spaces (See SFGBC Table 5.106.5.3.1 for minimum quantities.)</p> <p>Non-residential alterations: Install Level 2 EV Charging Stations and EV Capable spaces. See SFGBC Table 5.106.5.3.1 for minimum quantities based on the total number of spaces added or served by electrical facilities within the project scope.</p> <p>All non-residential projects: At minimum provide capacity to deliver 3.3kW simultaneously to each EVSE and EV Capable Space required by SFGBC Table 5.106.5.3.1 or CalGreen Table 5.106.5.3.6-EVCS, whichever is greater. Automated Load Management Systems, installed DC Fast Chargers, and installed Low-Power Level 2 EV Charging receptacles may modify capacity and minimum number of spaces equipped with charging.</p> | | | • | • | • | • | • | • | • | n/r | • | | | | |
| REUSE & RECOVERY | RECYCLING BY OCCUPANTS | SF Building Code 106A.3.3, CalGreen 5.410.1, AB-088 | Provide adequate space and equal access for storage, collection and loading of compostable, recyclable and landfill materials. For help estimating adequate space for collection by hauler, see supporting materials including a design guide and calculator at: www.sfenvironment.org/refusecalculator . | | | • | • | • | • | • | • | • | • | • | • | • | • | |
| | CONSTRUCTION & DEMOLITION (C&D) DISCARDS MANAGEMENT | SFGBC 4.103.2.3, 5.103.1.3.1, CalGreen, Environment Code ch.14, SF Building Code ch.13B | 100% of mixed debris must be taken by a Permitted Transporter to a Registered Facility for recycling and recovery. Complete Material Reduction and Recovery Plan and demonstrate minimum 65% or 75% recovery rate as noted at right. For more information, see DBI Information Sheet GB-02 or contact: debrisrecovery@sfgov.org / 415-355-3799. | | | ≥65% diversion | ≥75% diversion | ≥75% diversion | ≥65% diversion | ≥65% diversion | ≥65% diversion | ≥65% diversion | ≥65% diversion | ≥65% diversion | ≥65% diversion | ≥65% diversion | ≥65% diversion | |
| | EMBODIED CARBON REDUCTION | CalGreen 5.105, 5.409 | <p>New construction, alterations and additions 50,000 sq ft or greater shall either:</p> <p>Performance (5.409.2): Conduct a whole building life cycle assessment in accord with ISO 14040 & ISO 14044 demonstrating minimum 10% reduction in global warming potential (GWP), excluding operating energy. OR:</p> <p>Prescriptive (5.409.3) For each applicable permanently installed product listed in Table 5.409.3, obtain Type III Environmental Product Declaration (EPD) and meet GWP limit. OR:</p> <p>Reuse (5.105 - alterations & additions only) Reuse a minimum of 45% of the existing building's structure and enclosure - excluding window assemblies, insulation, and hazardous materials remediated as part of the project.</p> | | | n/r | n/r | if ≥50,000 sq ft | n/r | n/r | n/r | if ≥50,000 sq ft | n/r | n/r | | | | |
| HVAC | HVAC INSTALLER QUALS | CALGreen 4.702.1 | Installers must be trained and certified in best practices. | | | • | • | n/r | n/r | • | • | n/r | n/r | n/r | n/r | | | |
| | HVAC DESIGN | CALGreen 4.507.2 | HVAC shall be designed to ACCA Manual J, D, and S. | | | • | • | n/r | n/r | • | • | n/r | n/r | n/r | n/r | | | |
| | REFRIGERANT MANAGEMENT | CALGreen 5.508.1 | Use no halons or CFCs in HVAC. | | | n/r | n/r | • | • | n/r | n/r | • | • | • | • | | | |
| GOOD NEIGHBOR | LIGHT POLLUTION REDUCTION | CA Energy Code, CALGreen 5.106.8 | Comply with CA Energy Code for Lighting Zones 1-4. Comply with 5.106.8 for Backlight/Uplight/Glare. | | | n/r | n/r | • | • | n/r | n/r | • | • | • | • | | | |
| | BIRD-SAFE BUILDINGS | Planning Code sec.139 | Glass facades and bird hazards facing and/or near Urban Bird Refuges may need to treat their glass for opacity. | | | • | • | • | • | • | • | • | • | • | • | | | |
| | TOBACCO SMOKE CONTROL | CALGreen 5.504.7, Health Code art.19F | For non-residential projects, prohibit smoking within 25 feet of building entries, air intakes, and operable windows. For residential projects, prohibit smoking within 10 feet of building entries, air intakes, and operable windows and enclosed common areas. | | | • | • | • | • | • | • | • | • | • | • | | | |
| | SHADE TREES | CalGreen 5.106.12 | Plant trees to sufficient to provide shade within 15 years for 20% of landscape and hardscape area. Exclude shade structures covered by photovoltaics or cool roof materials from total area calculation, including surface parking covered by PV. | | | n/r | n/r | • | • | n/r | n/r | n/r | n/r | n/r | n/r | | | |
| POLLUTION PREVENTION | STORMWATER CONTROL PLAN | Public Works Code art.4.2 sec.147 | Projects disturbing ≥5,000 sq.ft. in combined or separate sewer areas, or replacing ≥2,500 impervious sq.ft. in separate sewer area, must implement a Stormwater Control Plan meeting SFPUC Stormwater Management Requirements. See www.sfwater.org for details. | | | • | • | • | • | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | | |
| | CONSTRUCTION SITE RUNOFF CONTROLS | Public Works Code art.4.2 sec.146 | Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices. See www.sfwater.org for details. | | | if disturbing ≥5,000 sq.ft. | • | if disturbing ≥5,000 sq.ft. | if disturbing ≥5,000 sq.ft. | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope | | |
| INDOOR ENVIRONMENTAL QUALITY | ACOUSTICAL CONTROL | CALGreen 5.507.4.1-3, SF Building Code sec.1207 | Non-residential projects must comply with sound transmission limits (STC-50 exteriors near freeways/airports; STC-45 exteriors if 65db Leq at any time; STC-40 interior walls/floor-ceilings between tenants). New residential projects' interior noise due to exterior sources shall not exceed 45dB. | | | • | • | • | • | n/r | n/r | • | • | • | • | | | |
| | AIR FILTRATION (CONSTRUCTION) | CALGreen 4.504.1-3 & 5.504.1-3 | Seal permanent HVAC ducts/equipment stored onsite before installation. | | | • | • | • | • | • | • | • | • | • | • | | | |
| | AIR FILTRATION (OPERATIONS) | CALGreen 5.504.5.3, Energy Code 160.2 & 180.1(1) SF Health Code art.38 | Multifamily and non-residential projects must provide MERV-13 filters on HVAC for regularly occupied, actively ventilated spaces. Single family new construction in Air Pollutant Exposure Zones per SF Health Code art.38 must provide MERV-13 filters on HVAC. | | | if applicable | • | • | • | • | n/r | • | • | • | • | | | |
| | CONSTRUCTION IAQ | SFGBC 5.103.1.8 | During construction, meet SMACNA IAQ guidelines; provide MERV-13 filters on all HVAC. | | | n/r | n/r | LEED EQc3 | n/r | n/r | n/r | n/r | n/r | n/r | n/r | | | |
| RESIDENTIAL | ELECTRIC READY | SF Building Code 106A.1.17 | In situations where natural gas is permitted per Admin Bulletin 112, meet San Francisco Design Guidelines for Public Safety and Electric Ready Construction. | | | • | • | • | • | n/r | n/r | n/r | n/r | n/r | n/r | | | |
| | GRADING & PAVING | CALGreen 4.106.3 | Show how surface drainage (grading, swales, drains, retention areas) will keep surface water from entering the building. | | | • | • | n/r | n/r | if applicable | if applicable | n/r | n/r | n/r | n/r | | | |
| | RODENT PROOFING | CALGreen 4.406.1 | Seal around pipe, cable, conduit, and other openings in exterior walls with cement mortar or DBI-approved similar method. | | | • | • | n/r | n/r | • | • | n/r | n/r | n/r | n/r | | | |
| | FIREPLACES & WOODSTOVES | CALGreen 4.503.1 | Install only direct-vent or sealed-combustion, EPA Phase II-compliant appliances. | | | • | • | n/r | n/r | • | • | n/r | n/r | n/r | n/r | | | |
| | CAPILLARY BREAK | CALGreen 4.505.2 | Slab on grade foundation with vapor retarder requires capillary break, such as 4 inches 1/2-in aggregate & slab design by licensed professional. | | | • | • | n/r | n/r | • | • | n/r | n/r | n/r | n/r | | | |
| | MOISTURE CONTENT | CALGreen 4.505.3 | Wall and floor wood framing must have <19% moisture content before enclosure. | | | • | • | n/r | n/r | • | • | n/r | n/r | n/r | n/r | | | |
| | BATHROOM EXHAUST | CALGreen 4.506.1 | Must be ENERGY STAR compliant, ducted to building exterior, and its humidistat shall be capable of adjusting between <50% to >80%. (Humidistat may be separate component). | | | • | • | n/r | n/r | • | • | n/r | n/r | n/r | n/r | | | |

GS2: San Francisco Green Building Submittal Form for LEED or GreenPoint Rated Projects

Green Building Submittal (GS) Forms are part of DBI Administrative Bulletin 093 - Implementation of Green Building Regulations.

For supporting resources, visit: sf.gov/departments-department-building-inspection - See: *Administrative Bulletins in the SF Building Code*

INSTRUCTIONS:

- For each applicable requirement, indicate evidence of fulfillment in the References column. For items that are not applicable, indicate "N/A".
- Fill out the project information in the Verification box at the right.
- Attach LEED or GreenPoint Rated Scorecard on separate sheet. Submittal must be a minimum of 24" x 36".
First-time tenant improvements consisting of multiple permits totalling 25,000 square feet or more must fulfill New Large Commercial Interior requirements.

CHECK THE ONE COLUMN THAT BEST DESCRIBES YOUR PROJECT →

| | | | | NEW CONSTRUCTION | | | ALTERATIONS + ADDITIONS | | | REFERENCES | VERIFICATION | | | | | | | | |
|------------------------------|---|--|------------|---|---|--|--|--|---|---|---------------------|-------------------|--|-----------------------------|----------------|-----------------------------|---|---|---|
| | | | | LOW-RISE RESIDENTIAL R 1-3 Floors | HIGH-RISE RESIDENTIAL R 4+ Floors | LARGE NON-RESIDENTIAL A,B,E,I,M 25,000 sq.ft. or greater | RESIDENTIAL MAJOR ALTERATIONS + ADDITIONS R 25,000 sq.ft. or greater | NON-RESIDENTIAL MAJOR ALTERATIONS + ADDITIONS B,M 25,000 sq.ft. or greater | NEW LARGE COMMERCIAL INTERIORS B,M 25,000 sq.ft. or greater | | PROJECT NAME | BLOCK/LOT | | | | | | | |
| | | | | LEED SILVER (50+) or GPR (75+) CERTIFIED | LEED SILVER (50+) or GPR (75+) CERTIFIED | LEED GOLD (60+) CERTIFIED | LEED SILVER (50+) or GPR (75+) CERTIFIED | LEED GOLD (60+) CERTIFIED | LEED GOLD (60+) CERTIFIED | DRAWING OR SPECIFICATION # (If not applicable, indicate "N/A".) | ADDRESS | PRIMARY OCCUPANCY | | | | | | | |
| | | | | _____ | _____ | _____ | _____ | _____ | _____ | | GROSS BUILDING AREA | | | | | | | | |
| LEED/GPR | Required LEED or GPR Certification Level | SFGBC 4.103.1.1, 4.103.2.1, 4.103.3.1, 5.103.1.1, 5.103.3.1 & 5.103.4.1 | | Project is required to achieve sustainability certification listed at right. | | | | | | | | | | | | | | | |
| | Adjustment for Retention/Demolition of Historic Features/Building | SFGBC 4.104, 4.105, 5.104 & 5.105 | | Enter any applicable adjustments to LEED or GPR point requirements in box at right. | | | | | | | | | | | | | | | |
| | Points on Current Scorecard | | | Enter current expected score in box at right as appropriate. | | | | | | | | | | | | | | | |
| MATERIAL EMISSIONS | LOW-EMITTING MATERIALS | CALGreen 4.504.2.1-5 & 5.504.4.1-6, SFGBC 4.103.3.2, 5.103.1.9, 5.103.3.2 & 5.103.4.2 | EQc2 | K2, K3, L2 | Use products that comply with the emission limit requirements of 4.504.2.1-5, 5.504.4.1-6 for adhesives, sealants, paints, coatings, carpet systems including cushions and adhesives, resilient flooring (80% of area), and composite wood products. Major alterations to existing residential buildings must use low-emitting coatings, adhesives and sealants, and carpet systems that meet the requirements for GPR measures K2, K3 and L2 or LEED EQc2, as applicable. New large non-residential interiors and major alterations to existing residential and non-residential buildings must also use interior paints, coatings, sealants, and adhesives when applied on-site, flooring and composite wood that meet the requirements of LEED credit Low-Emitting Materials (EQc2). | | | | | | | | | 4.504.2.1-5 | 4.504.2.1-5 | LEED EQc2 | LEED EQc2 or GPR K2, K3 & L2 | LEED EQc2 | LEED EQc2 |
| | INDOOR WATER USE REDUCTION | CALGreen 4.303.1 & 5.303.3, SFGBC 5.103.1.2, SF Housing Code sec.12A10, SF Building Code ch.13A | WEp2, WEc2 | G2 | Meet flush/flow requirements for: toilets (1.28 gpf); urinals (0.125 gpf wall, 0.5gpf floor); showerheads (1.8 gpm); lavatories (1.2 gpm private, 0.5 gpm public/common); kitchen faucets (1.8gpm); wash fountains (1.8 gpm); metering faucets (0.2 gpc); food waste disposers (1 gpm/8 gpm). Residential projects must upgrade all non-compliant fixtures per SF Housing Code sec.12A10. Large non-residential interiors, alterations & additions must upgrade all non-compliant fixtures per SF Building Code ch.13A and . New large non-residential buildings must also achieve minimum 30% indoor potable water use reduction as calculated to meet LEED credit Indoor Water Use Reduction (WEc2). | | | | | | | | | 4.303.1 | 4.303.1 | LEED WEc2 (2 pts) | SF Housing Code sec.12A10 | SF Building Code ch.13A if applicable, CalGreen 5.303.3 | SF Building Code ch.13A if applicable, CalGreen 5.303.3 |
| WATER | NON-POTABLE WATER REUSE | Health Code art.12C | WEc2 | | New buildings ≥40,000 sq.ft. must calculate a water budget. New development projects ≥100,000 sq.ft. must install and operate an onsite water reuse system using available rainwater, graywater, and foundation drainage for toilet and urinal flushing and irrigation. See www.SFPUC.org for details. | | | | | | | | | n/r | • | • | n/r | n/r | n/r |
| | WATER-EFFICIENT IRRIGATION | Administrative Code ch.63 | WEp1, WEc1 | | New construction projects with aggregated landscape area ≥500 sq.ft., or existing projects with modified landscape area ≥1,000 sq.ft., shall use low water use plants or climate appropriate plants, restrict turf areas and comply with Model Water Efficient Landscape Ordinance restrictions by calculated ETAF (.55 for residential, .45 for non-residential or less) or by prescriptive compliance for projects with ≤2,500 sq.ft. of landscape area. | | | | | | | | | • | • | • | • | • | • |
| | WATER METERING | CALGreen 4.303.2, 5.303.1, Plumbing Code 601.2.1 | WEc4 | | Provide submeters or utility meters for. Nonresidential spaces projected to consume more than 1,000 gal/day, or more than 100 gal/day if in buildings ≥ 50,000 sq. ft. AND each individual residential dwelling unit. | | | | | | | | | • | • | • | n/r | • | • |
| ENERGY | ALL-ELECTRIC CONSTRUCTION | SFBC 106A.1.17 | | J5 | Newly constructed buildings must be all-electric, with no gas piping systems or infrastructure. For permits filed July 1, 2026 or later, Major Renovations to existing buildings (as defined by San Francisco Building Code Section 202) must be all-electric. Where natural gas may be permitted per Administrative Bulletin 112, comply with Design Guidelines for Public Safety and Electric Ready Construction See Administrative Bulletin 112 for details. | | | | | | | | | • | • | • | See Admin Bulletin 112 | See Admin Bulletin 112 | n/r |
| | ENERGY DESIGN | CA Energy Code - In Entirety | EAp2, EAc2 | J5 | Comply with Title 24 Part 6 (2025) and meet GreenPoint Rated or LEED prerequisites. See Attachment H for details. | | | | | | | | | • | • | • | • | • | • |
| | BETTER ROOFS | SFGBC 4.201.2 & 5.201.1.2, CA Energy Code 140.10(a-b), 150.1(s), 170.2(f-g) | EAc5, EAc2 | I3 | Photovoltaics and battery energy storage systems are prescriptively required for common nonresidential occupancies per CA Energy Code 140.10(a-b) and multifamily per 170.2(f-g). PV is prescriptively required for single family per 150.1(c)14, along with wiring for future installation of energy storage systems per 150.0(s). If SFPUC Stormwater Requirements apply, each 1 square foot of living roof contributing to Stormwater Management Ordinance compliance may reduce the Solar Access Roof Area by 1 square foot. | | | | | | | | | • | • | • | n/r | n/r | n/r |
| | COMMISSIONING (Cx) | CALGreen 5.410.2 - 5.410.4.5.1, SFGBC 5.103.1.4 | EAp1, EAc1 | | For projects ≥10,000 sq.ft. include Owners Project Requirements, Basis of Design, and commissioning plan in design & construction. Perform commissioning. Alterations & additions with new HVAC equipment must test and adjust all equipment. | | | | | | | | | n/r | n/r | LEED EAc1 opt. 1 | n/r | • | • |
| PARKING | BICYCLE PARKING | CALGreen 4.106.4.4, 5.106.4, Planning Code sec.155.1-2 | LtC6 | N3.5, N3.6 | Provide short- and long-term bike parking per CalGreen or meet SF Planning Code sec.155.1-2, whichever is greater. | | | | | | | | | • | • | • | Planning Code 155.1-2 | • | • |
| | ELECTRIC VEHICLE CHARGING | CALGreen 4.106.4 (all sections), 5.106.5.4 (all sections) AND SFGBC Table 5.106.5.3.1 | LtC8 | | <p>New 1 - 2 Unit Dwellings: If off-street parking is constructed, install at least one circuit dedicated to EV charging (minimum 40A 208/240V) per parking space, terminating in a receptacle or permanently installed Level 2 EV charger.</p> <p>New 3+ Unit Multifamily: If assigned parking, or unassigned, or both are provided, install at least one Low-Power Level 2 EV Charging Receptacle (minimum 20A 208/240V) for each dwelling unit. If dwelling units exceed parking spaces, install at 100% of parking spaces. Circuits serving assigned parking shall originate at the panel serving the dwelling unit.</p> <p>Additionally if unassigned parking is provided, install Level 2 EV chargers serving 25% of unassigned parking spaces that are not equipped with a receptacle; Level 2 EV chargers shall be available for use by guests and residents.</p> <p>New Hotel/Motel: Install Level 2 EV chargers at 25% of spaces and low-power Level 2 receptacles at 40% of spaces. (Total: 65% of spaces.)</p> <p>Multifamily Alterations: Each parking space altered or added shall have access to either low-power Level 2 EV charging receptacle (minimum 20A 208/240V branch circuit and receptacle) or Level 2 EV charger. An Automated Load Management System may reduce required electrical capacity if the system has capacity to deliver minimum 3.3kW simultaneously to each space served by the ALMS, each branch service has minimum 40A capacity and each installed EV charger has capacity of 30A or greater.</p> <p>Non-residential new construction: Install Level 2 EV Charging Stations and EV Capable spaces (See SFGBC Table 5.106.5.3.1 for minimum quantities.)</p> <p>Non-residential alterations: Install Level 2 EV Charging Stations and EV Capable spaces. See SFGBC Table 5.106.5.3.1 for minimum quantities based on the total number of spaces added or served by electrical facilities within the project scope.</p> <p>All non-residential projects: At minimum provide capacity to deliver 3.3kW simultaneously to each EVSE and EV Capable Space required by SFGBC Table 5.106.5.3.1 or CalGreen Table 5.106.5.3.6-EVCS, whichever is greater. Automated Load Management Systems, installed DC Fast Chargers, and installed Low-Power Level 2 EV Charging receptacles may modify capacity and minimum number of spaces equipped with charging.</p> | | | | | | | | | • | • | • | Applies to any multifamily alteration where: Off-street parking is added, OR Electrical systems are altered in existing parking facilities | • | n/r |
| REUSE & RECOVERY | RECYCLING AND COMPOSTING BY OCCUPANTS | SF Building Code 106A.3.3, CalGreen 5.410.1, AB-088 | MRp1 | M4 | Provide adequate space and equal access for storage, collection, and loading of compostable, recyclable and landfill materials. To help estimate adequate space for collection by hauler, see supporting materials including a design guide and calculator at: www.sfenvironment.org/refusecalculator . | | | | | | | | | • | • | • | • | • | • |
| | CONSTRUCTION & DEMOLITION (C&D) DISCARDS MANAGEMENT | SFGBC 4.103.2.3 & 5.103.1.3, CalGreen 4.408.2, 5.408 Environment Code ch.14, SF Building Code ch.13B | MRp2, MRc5 | A2.1 | 100% of mixed debris must be taken by a Permitted Transporter to a Registered Facility for recycling and recovery. Complete Material Reduction and Recovery Plan and demonstrate minimum 65% or 75% recovery rate as noted at right. For more information, see DBI Information Sheet GB-02 or contact: debrisrecovery@sfgov.org / 415-355-3799. | | | | | | | | | ≥65% diversion | ≥75% diversion | ≥75% diversion | ≥65% diversion | ≥65% diversion | ≥65% diversion |
| | EMBEDDED CARBON REDUCTION | CalGreen 5.105, 5.409 | | | <p>Either: Performance (5.409.2): Conduct a whole building life cycle assessment in accord with ISO 14040 & ISO 14044 demonstrating minimum 10% reduction in global warming potential (GWP), excluding operating energy. OR: Prescriptive (5.409.3): For each applicable permanently installed product listed in Table 5.409.3, obtain Type III Environmental Product Declaration (EPD) and meet GWP limit. OR: Reuse (5.105 - alterations & additions only) Reuse a minimum of 45% of the existing building's structure and enclosure - excluding window assemblies, insulation, and hazardous materials remediated as part of the project.</p> | | | | | | | | | n/r | n/r | projects ≥50,000 sq ft | n/r | projects ≥50,000 sq ft | n/r |
| HVAC | HVAC INSTALLER QUALS | CALGreen 702.1 | | | Installers must be trained and certified in best practices. | | | | | | | | | • | • | n/r | • | n/r | n/r |
| | HVAC DESIGN | CALGreen 4.507.2 | | | HVAC shall be designed to ACCA Manual J, D, and S. | | | | | | | | | • | • | n/r | • | n/r | n/r |
| | REFRIGERANT MANAGEMENT | CALGreen 5.508.1 | EAc6 | | Use no halons or CFCs in HVAC. | | | | | | | | | n/r | n/r | • | n/r | • | • |
| GOOD NEIGHBOR | LIGHT POLLUTION | CA Energy Code | SSc6 | | Comply with CA Energy Code for Lighting Zones 1-4. | | | | | | | | | n/r | n/r | • | n/r | • | • |
| | BIRD-SAFE BUILDINGS | Planning Code sec.139 | | | Glass facades and bird hazards facing and/or near Urban Bird Refuges may need to treat their glass for opacity. | | | | | | | | | • | • | • | • | • | • |
| | TOBACCO SMOKE CONTROL | CALGreen 5.504.7, Health Code art.19F | EQp2 | | For non-residential projects, prohibit smoking within 25 feet of building entries, air intakes, and operable windows. For residential projects, prohibit smoking within 10 feet of building entries, air intakes, and operable windows and enclosed common areas. | | | | | | | | | • | • | • | • | • | • |
| | SHADE TREES | CalGreen 5.106.12 | SSc5 | | Plant trees to sufficient to provide shade within 15 years for 20% of landscape and hardscape area. Exclude shade structures covered by photovoltaics or cool roof materials from total area calculation, including surface parking covered by PV. | | | | | | | | | • | • | • | • | • | • |
| POLLUTION PREVENTION | STORMWATER CONTROL PLAN | Public Works art.4.2 sec.147 | SSc4 | A6 | Projects disturbing ≥5,000 sq.ft. in combined or separate sewer areas, or replacing ≥2,500 impervious sq.ft. in separate sewer area, must implement a Stormwater Control Plan meeting SFPUC Stormwater Management Requirements. | | | | | | | | | • | • | • | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope |
| | CONSTRUCTION SITE RUNOFF CONTROLS | Public Works art.4.2 sec.146 | SSp1 | | Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices. A Stormwater Pollution Prevention Plan is optional for GPR projects that disturb <5,000 sq.ft. | | | | | | | | | if disturbing ≥5,000 sq.ft. | • | if disturbing ≥5,000 sq.ft. | if project extends outside envelope | if project extends outside envelope | if project extends outside envelope |
| INDOOR ENVIRONMENTAL QUALITY | ACOUSTICAL CONTROL | CALGreen 5.507.4.1-3, SF Building Code sec.1207 | EQc9 | | Non-residential projects must comply with sound transmission limits (STC-50 exteriors near freeways/airports; STC-45 exteriors if 65db Leq at any time; STC-40 interior walls/floor-ceilings between tenants). New residential projects' interior noise due to exterior sources shall not exceed 45dB. | | | | | | | | | • | • | • | n/r | • | • |
| | AIR FILTRATION - CONSTRUCTION | CALGreen 4.504.1 & 5.504.1-3 | EQc3 | | Seal permanent HVAC ducts/equipment stored onsite before installation. | | | | | | | | | • | • | • | • | • | • |
| | AIR FILTRATION - OPERATIONS | CALGreen 5.504.5, Energy Code 160.2 & 180.1(1), SF Health Code art.38 | EQc1 | | Multifamily and non-residential projects must provide MERV-13 filters on HVAC for regularly occupied, actively ventilated spaces. Single family new construction in Air Pollutant Exposure Zones per SF Health Code art.38 must provide MERV-13 filters on HVAC. | | | | | | | | | if applicable | if applicable | • | if applicable | • | • |
| | CONSTRUCTION IAQ MGMT | SFGBC 5.103.1.8 | EQc3 | | During construction, meet SMACNA IAQ guidelines; provide MERV-8 filters on all HVAC. | | | | | | | | | n/r | n/r | LEED EQc3 | n/r | n/r | n/r |
| RESIDENTIAL ONLY | GRADING & PAVING | CALGreen 4.106.3 | | | Show how surface drainage (grading, swales, drains, retention areas) will keep surface water from entering the building. | | | | | | | | | • | • | n/r | if applicable | n/r | n/r |
| | RODENT PROOFING | CALGreen 4.406.1 | | | Seal around pipe, cable, conduit, and other openings in exterior walls with cement mortar or DBI-approved similar method. | | | | | | | | | • | • | n/r | • | n/r | n/r |
| | FIREPLACES & WOODSTOVES | CALGreen 4.503.1 | | | Install only direct-vent or sealed-combustion, EPA Phase II-compliant appliances. | | | | | | | | | • | • | n/r | • | n/r | n/r |
| | CAPILLARY BREAK | CALGreen 4.505.2 | | | Slab on grade foundation with vapor retarder requires capillary break, such as 4 inches 1/2-in aggregate & slab design by licensed professional. | | | | | | | | | • | • | n/r | • | n/r | n/r |
| | MOISTURE CONTENT | CALGreen 4.505.3 | | | Wall and floor wood framing must have <19% moisture content before enclosure. | | | | | | | | | • | • | n/r | • | n/r | n/r |
| | BATHROOM EXHAUST | CALGreen 4.506.1 | | | Must be ENERGY STAR compliant, ducted to exterior, and humidistat shall be capable of adjusting between <50% to >80% (Humidistat may be separate.) | | | | | | | | | • | • | n/r | • | n/r | n/r |

Option 1:
Verification of compliance for this project will be provided via USGBC/GBCI certification under the LEED rating system, or Build It Green under the GreenPoint Rated system. Green Building Compliance Professional of Record is not required.

PERMIT APPLICANT (sign & date)

Option 2: LEED GBCPR
Green Building Compliance Professional of Record will verify compliance.

NAME FIRM

ARCHITECTURAL OR ENGINEERING LICENSE

- I am a LEED Accredited Professional
 I have completed one or more LEED projects

I have been retained by the project sponsor to review all submittal documents and verify that all approved construction documents and construction fulfill the requirements of the San Francisco Green Building Code. It is my professional opinion that the requirements of the San Francisco Green Building Code will be met for the above referenced project. I will notify the Department of Building Inspection if the project will, for any reason, not substantially comply with these requirements, or if I am no longer the Green Building Compliance Professional of Record for the project.

LICENSED PROFESSIONAL AFFIX STAMP BELOW:
(sign & date)

Option 3: GreenPoint Rated GBPCR
Green Building Compliance Professional of Record will verify compliance.

NAME FIRM

ARCHITECTURAL OR ENGINEERING LICENSE

- I am a GreenPoint Rater I am not a GreenPoint Rater
 I have completed one or more GreenPoint Rated projects

If the above licensed professional is not a Certified GreenPoint Rater, additional signature by a Certified GreenPoint Rater is required:

GreenPoint Rater (print name) (contact phone #)

(sign & date)

I have been retained by the project sponsor to review all submittal documents and verify that all approved construction documents and construction fulfill the requirements of the San Francisco Green Building Code. It is my professional opinion that the requirements of the San Francisco Green Building Code will be met for the above referenced project. I will notify the Department of Building Inspection if the project will, for any reason, not substantially comply with these requirements, or if I am no longer the Green Building Compliance Professional of Record for the project.

LICENSED PROFESSIONAL AFFIX STAMP BELOW:
(sign & date)

GS3: San Francisco Green Building Submittal Form for Other Non-Residential Additions & New Construction

Green Building Submittal (GS) Forms are part of DBI Administrative Bulletin 093 - Implementation of Green Building Regulations. For supporting resources, visit: sf.gov/departments--department-building-inspection - See: *Administrative Bulletins in the SF Building Code*

INSTRUCTIONS:

- For each applicable requirement, indicate evidence of fulfillment in the References column. For items that are not applicable, indicate "N/A".
- Fill out the project information in the Verification box at the right. Submittal must be a minimum of 24" x 36".

CHECK THE ONE COLUMN THAT BEST DESCRIBES YOUR PROJECT →

| | | | | NEW CONSTRUCTION | ADDITIONS | REFERENCES | VERIFICATION |
|-------------------------------------|---|---|--|--|---|---|---|
| | | | | <input type="checkbox"/> OTHER NON-RESIDENTIAL F,H,L,S,U or A,B,E,I,M less than 25,000 sq.ft. | <input type="checkbox"/> OTHER NON-RESIDENTIAL ADDITIONS A,B,E,F,H,L,I,M,S,U addition 1,000 sq.ft. or greater or addition/alteration \$200,000 or greater | DRAWING OR SPECIFICATION # (If not applicable, indicate "N/A".) | PROJECT NAME <hr/> BLOCK/LOT <hr/> ADDRESS <hr/> PRIMARY OCCUPANCY <hr/> GROSS BUILDING AREA <hr/> <div style="text-align: center;">Green Building Compliance Professional of Record</div> <hr/> NAME <hr/> FIRM <hr/> ARCHITECTURAL OR ENGINEERING LICENSE <hr/> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> I am a LEED Accredited Professional <input type="checkbox"/> I am a GreenPoint Rater <input type="checkbox"/> I am an ICC Certified CALGreen Inspector </div> <div style="width: 45%; font-size: 0.8em;"> <p><i>To the best of my knowledge, it is my professional opinion the green building requirements of the City of San Francisco will be met for the above referenced project. I have been retained by the project sponsor to review all submittal documents and verify that approved construction documents and construction properly reflect the requirements of the San Francisco Green Building Code. I will notify the Department of Building Inspection if I believe to the best of my knowledge that the project will, for any reason, not substantially comply with these green building requirements, or if I am no longer the Green Building Compliance Professional of Record for this project.</i></p> </div> </div> <hr/> LICENSED PROFESSIONAL (sign & date) AFFIX STAMP BELOW: |
| TITLE | SOURCE OF REQUIREMENT | DESCRIPTION OF REQUIREMENT | | | | | |
| MATERIAL EMISSIONS | LOW-EMITTING MATERIALS | CALGreen 5.504.4.1-6 | Use products that comply with the emission limit requirements of 4.504.2.1-5, 5.504.4.1-6 for adhesives, sealants, paints, coatings, carpet systems including cushions and adhesives, resilient flooring (80% of area), and composite wood products. | • | • | | |
| WATER | INDOOR WATER USE REDUCTION | CALGreen 5.303.3, SF Building Code ch.13A | Meet flush/flow requirements for: toilets (1.28gpf); urinals (0.125gpf wall, 0.5gpf floor); showerheads (2.0gpm); lavatories (1.2gpm private, 0.5gpm public/common); kitchen faucets (1.8gpm); wash fountains (1.8gpm); metering faucets (0.2gpc); food waste disposers (1gpm/8gpm). Large non-residential alteration & addition projects must upgrade all non-compliant fixtures per SF Building Code ch.13A. | • | • | | |
| | WATER-EFFICIENT IRRIGATION | Administrative Code ch.63 | New construction projects with aggregated landscape area ≥500 sq.ft., or existing projects with modified landscape area ≥1,000 sq.ft., shall use low water use plants or climate appropriate plants, restrict turf areas and comply with Model Water Efficient Landscape Ordinance restrictions by calculated ETAF ≤.45 or by prescriptive compliance for projects with ≤2,500 sq.ft. of landscape area. | • | if applicable | | |
| | WATER METERING | CALGreen 5.303.1 | Provide submeters for spaces projected to consume >1,000gal/day (or >100gal/day in buildings >50,000 sq.ft). | • | • | | |
| ENERGY | ALL-ELECTRIC CONSTRUCTION | SFBC 106A.1.17 | Newly constructed buildings must be all-electric, with no gas piping systems or infrastructure. For permits filed July 1, 2026 or later, Major Renovations to existing buildings (as defined by San Francisco Building Code Section 202) must be all-electric, with no gas piping systems or infrastructure. Mixed-fuel (with natural gas); In isolated situations where natural gas may be permitted per Administrative Bulletin 112, comply with Design Guidelines for Public Safety and Electric Ready Construction, installing wiring, electrical infrastructure, ventilation where applicable, and providing space for future conversion of all mixed-fuel loads to electric. See Administrative Bulletin 112 for details. | • | n/r | | |
| | ENERGY DESIGN | Title 24 Part 6, SFGBC 5.201 | Energy Design – All projects must comply with California 2025 Energy Standards. | • | • | | |
| | BETTER ROOFS | Energy Code 140.10(a-b), SFGBC 5.201.1.2 | Photovoltaics and battery storage are prescriptively required by CA Energy Code. If SFPUC Stormwater Requirements apply, each square foot of living roof contributing to Stormwater Management Ordinance compliance may reduce the Solar Access Roof Area by 1 square foot. | Applies to common uses in A, B, I, E, M occupancies. See Energy Code 140.10. | n/r | | |
| | COMMISSIONING (Cx) | CALGreen 5.410.2-5.410.4.5.1 | For projects ≥10,000 sq.ft. include OPR, BOD, and commissioning plan in design & construction. Commission to comply. Alterations & additions with new HVAC equipment must test and adjust all equipment. | • | • | | |
| PARKING | BICYCLE PARKING | CALGreen 5.106.4, Planning Code sec.155.1-2 | For short-term visitors, provide permanent bicycle racks within 200 feet of visitor's entrance for 20% of peak daily visitors (minimum of one rack with capacity for two bicycles). In addition, provide secure bicycle parking for 10% of tenant-occupants (either covered & lockable enclosure or lockable room with permanently anchored racks, or permanent bicycle lockers), OR meet SF Planning Code sec.155.1-2, whichever is greater. | • | if >10 stalls added | | |
| | ELECTRIC VEHICLE CHARGING: NEW CONSTRUCTION | SFGBC Table 5.106.5.3.1 CALGreen 5.106.5 (all sections) | Install Level 2 EV Charging Stations and EV Capable spaces (e.g. raceway capable of supporting future Level 2 EVSE - min 40A 208/240VAC). See SF Green Building Code Table 5.106.5.3.1 for minimum quantities of EVSE based on the total number of spaces added or altered. (For office and retail, requires EVSE in approx. 23% of total spaces and raceway to additional 7% of spaces. For other uses, requires EVSE in approx 15% of total spaces and raceway to additional 15% of spaces.) Automated Load Management Systems (ALMS) may be used. At minimum, ALMS must have capacity to deliver 3.3kW simultaneously to each EVSE and EV Capable Space required by SFGBC Table 5.106.5.3.1, or the minimum power required by CalGreen Table 5.106.5.3.6-EVCS, whichever is greater. Each DCFC installed may reduce the minimum EVSE or EV Capable Spaces by five, while installation of two low-power Level 2 EV charging receptacles may reduce the minimum EV Capable Spaces by one. | • | n/r | | |
| | ELECTRIC VEHICLE CHARGING: ADDITIONS OR ALTERATIONS | CalGreen 5.106.5.4 (all sections) AND EITHER SFGBC Table 5.106.5.3.1 or CalGreen Table 5.106.5.3.6-EVCS | EVSE shall be installed when EITHER: Construction scope increases power supply to an electric service panel and the parking facility is undergoing an addition or alteration; or a new photovoltaic system is installed covering parking spaces; OR Building additions of 1,000 sq ft or greater and/or alterations with \$200,000 permit valuation or greater and the scope of work includes an increase in power supply to an electric service panel. Install Level 2 EV Charging Stations and EV Capable spaces. See SFGBC Table 5.106.5.3.1 for minimum quantities for the total number of spaces added or altered. (For office and retail, requires EVSE in approx. 23% of total spaces and raceway to additional 7% of spaces. For other uses, requires EVSE in approx 15% of total spaces and raceway to additional 15% of spaces.) | n/r | if applicable | | |
| RESOURCE RECOVERY | RECYCLING BY OCCUPANTS | SF Building Code 106A.3.3, CalGreen 5.410.1, AB-088 | Provide adequate space and equal access for storage, collection, and loading of compostable, recyclable and landfill materials. For help estimating adequate space for collection by hauler, see supporting materials including a design guide and calculator at: www.sfenvironment.org/refusecalculator . | • | • | | |
| | CONSTRUCTION & DEMOLITION (C&D) DISCARDS MANAGEMENT | SFGBC 4.103.2.3 & 5.103.1.3.1, CalGreen 5.408, Environment Code ch.14, SF Building Code ch.13B | 100% of mixed debris must be taken by a Permitted Transporter to a Registered Facility for recycling and recovery. Complete Material Reduction and Recovery Plan and demonstrate minimum 65% recovery rate. Plan must include verification of proper disposal of universal waste. For more information, see Information Sheet GB-02, or contact 415-355-3799 or debrisrecovery@sfgov.org. | • | • | | |
| HVAC | REFRIGERANT MANAGEMENT | CALGreen 5.508.1 | Use no halons or CFCs in HVAC. | • | • | | |
| GOOD NEIGHBOR | LIGHT POLLUTION REDUCTION | CA Energy Code, CALGreen 5.106.8 | Comply with CA Energy Code for Lighting Zones 1-4. Comply with 5.106.8 for Backlight/Uplight/Glare. | • | • | | |
| | BIRD-SAFE BUILDINGS | Planning Code sec.139 | Glass facades and bird hazards facing and/or near Urban Bird Refuges may need to treat glass for opacity. | • | • | | |
| | TOBACCO SMOKE CONTROL | CALGreen 5.504.7 | Prohibit smoking within 25 feet of building entries, air intakes, and operable windows. | • | • | | |
| | SHADE TREES | CalGreen 5.106.12 | Plant trees to sufficient to provide shade within 15 years for 20% of landscape and hardscape area. Exclude shade structures covered by photovoltaics or cool roof materials from total area calculation. | • | n/r | | |
| POLLUTION PREVENTION | STORMWATER CONTROL PLAN | Public Works Code art.4.2 sec.147 | Projects disturbing ≥5,000 sq.ft. in combined or separate sewer areas, or replacing ≥2,500 impervious sq.ft. in separate sewer area, must implement a Stormwater Control Plan meeting SFPUC Stormwater Management Requirements. | • | if project extends outside envelope | | |
| | CONSTRUCTION SITE RUNOFF | Public Works Code art.4.2 sec.146 | Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices. | if disturbing ≥5,000 sq.ft. | if project extends outside envelope | | |
| INDOOR ENVIRONMENTAL QUALITY | ACOUSTICAL CONTROL | CALGreen 5.507.4.1-3 | Comply with sound transmission limits (STC-50 exteriors near freeways/airports; STC-45 exteriors if 65db Leq at any time; STC-40 interior walls/floor-ceilings between tenants). | • | • | | |
| | AIR FILTRATION (CONSTRUCTION) | CALGreen 5.504.1-3 | Seal permanent HVAC ducts/equipment stored onsite before installation. | • | • | | |
| | AIR FILTRATION (OPERATIONS) | CALGreen 5.504.5.3 | Provide MERV-13 filters on HVAC for regularly occupied, actively ventilated spaces. | • | • | | |

GS4: San Francisco Green Building Submittal Form for Non-Residential Alteration Projects

Green Building Submittal (GS) Forms are part of DBI Administrative Bulletin 093 - Implementation of Green Building Regulations.
 For supporting resources, visit: sf.gov/departments--department-building-inspection - See: *Administrative Bulletins in the SF Building Code.*

INSTRUCTIONS:

- For each applicable requirement, indicate evidence of fulfillment in the References column. For items that are not applicable, indicate "N/A".
- Fill out the project information in the Verification box at the right.
 Submittal must be a minimum of 24" x 36".

MARK WHICH SCOPES ARE INCLUDED IN THIS SUBMITTAL →

| | | | | NON-RESIDENTIAL ALTERATION | | | REFERENCES | | VERIFICATION |
|------------------------------|---|---|----------------------------|---|-------------------------------------|--------------------------|---|--|--|
| | | | | A,B,E,F,H,L,I,M,S,U alteration \$200,000 or greater | | | | | |
| | | | | ARCHITECTURE | MECHANICAL | PLUMBING | DRAWING OR SPECIFICATION # (If not applicable, indicate "N/A".) | | PROJECT NAME |
| | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | BLOCK/LOT |
| TITLE | SOURCE OF REQUIREMENT | RELEVANT TO INTERIOR-ONLY SCOPES? | DESCRIPTION OF REQUIREMENT | | | | | | ADDRESS |
| MATERIAL EMISSIONS | LOW-EMITTING MATERIALS | CALGreen 5.504.4.1-6 | Interior | Use products that comply with the emission limit requirements of 5.504.4.1-6 for adhesives, sealants, paints, coatings, carpet systems including cushions and adhesives, resilient flooring (80% of area), and composite wood products. | • | | | | PRIMARY OCCUPANCY |
| WATER | INDOOR WATER USE REDUCTION | CALGreen 5.303.3, SF Building Code ch.13A | Interior | Meet flush/flow requirements for: toilets (1.28gpf); urinals (0.125gpf wall, 0.5gpf floor); showerheads (2.0gpm); lavatories (1.2gpm private, 0.5gpm public/common); kitchen faucets (1.8gpm); wash fountains (1.8gpm); metering faucets (0.2gpc); food waste disposers (1gpm/8gpm). Large non-residential interiors projects must upgrade all non-compliant fixtures per SF Building Code ch.13A. | | | | | GROSS BUILDING AREA |
| | WATER-EFFICIENT IRRIGATION | Administrative Code ch.63 | Exterior | New construction projects with aggregated landscape area ≥500 sq.ft., or existing projects with modified landscape area ≥1,000 sq.ft., shall use low water use plants or climate appropriate plants, restrict turf areas and comply with Model Water Efficient Landscape Ordinance restrictions by calculated ETAF ≤.45 or by prescriptive compliance for projects with ≤2,500 sq.ft. of landscape area. | | | | | Green Building Compliance Professional of Record for Architectural Measures <i>I have been retained by the project sponsor to verify that approved construction documents and construction fulfill the requirements of San Francisco Green Building Code. It is my professional opinion that the requirements of the San Francisco Green Building Code will be met. I will notify the Department of Building Inspection if the project will, for any reason, not substantially comply with these requirements, or if I am no longer the Green Building Compliance Professional of Record for the project.</i> |
| | WATER METERING | CALGreen 5.303.1 | Interior | Provide submeters for spaces projected to consume >1,000gal/day (or >100gal/day in buildings >50,000 sq.ft). | | | | | |
| ENERGY | ALL-ELECTRIC CONSTRUCTION | SFBC 106A.1.17 | Interior | For permits filed July 1, 2026 or later, Major Renovations to existing buildings (as defined by San Francisco Building Code Section 202) must be all-electric, with no gas piping systems or infrastructure. Where natural gas may be permitted per Administrative Bulletin 112, comply with Design Guidelines for Public Safety and Electric Ready Construction, installing wiring, electrical infrastructure, ventilation where applicable, and providing space for future conversion of all mixed-fuel loads to all-electric. Cooking equipment for commercial food facilities is exempt. See Administrative Bulletin 112 for details. | Major Renovations only | Major Renovations only | Major Renovations only | | |
| | ENERGY EFFICIENCY | CA Energy Code | Interior | Comply with all provisions of the 2025 California Energy Standards. | | • | | | |
| | COMMISSIONING | CALGreen 5.410.4 | Interior | All new HVAC equipment must be tested and adjusted. | | • | | | |
| PARKING | BICYCLE PARKING | CALGreen 5.106.4, Planning Code sec.155.1-2 | Varies | For short-term visitors, provide permanent bicycle racks within 200 feet of visitor's entrance for 20% of peak daily visitors (minimum of one rack with capacity for two bicycles). In addition, provide secure bicycle parking for 10% of tenant-occupants (either covered & lockable enclosure or lockable room with permanently anchored racks, or permanent bicycle lockers). Or meet SF Planning Code sec.155.1-2, whichever is greater. | if >10 stalls added | | | | NAME |
| | ELECTRIC VEHICLE CHARGING: ADDITIONS OR ALTERATIONS | CalGreen 5.106.5.4 (all sections) AND EITHER SFGBC Table 5.106.5.3.1 or CalGreen Table 5.106.5.3.6-EVCS | Interior | EVSE shall be installed when EITHER: Construction scope increases power supply to an electric service panel and the parking facility is undergoing an addition or alteration; or a new photovoltaic system is installed covering parking spaces; OR Building additions of 1,000 sq ft or greater and/or alterations with \$200,000 permit valuation or greater and the scope of work includes an increase in power supply to an electric service panel. Install Level 2 EV Charging Stations and EV Capable spaces. See SF Green Building Code Table 5.106.5.3.1 for minimum quantities of EVSE based on the total number of spaces added or altered. (For office and retail, requires EVSE in approx.23% of total spaces and raceway to additional 7% of spaces. For other uses, requires EVSE in approx 15% of total spaces and raceway to additional 15% of spaces.) | if applicable | | | | FIRM |
| RESOURCE RECOVERY | RECYCLING BY OCCUPANTS | SF Building Code 106A.3.3, CalGreen 5.410.1, AB-088 | Interior | Provide adequate space and equal access for storage, collection, and loading of compostable, recyclable and landfill materials. For help estimating adequate space for collection by hauler, see supporting materials including a design guide and calculator at: www.sfenvironment.org/refusecalculator . | • | | | | LICENSED PROFESSIONAL (sign & date) |
| | CONSTRUCTION & DEMOLITION (C&D) DISCARDS MANAGEMENT | SFGBC 4.103.2.3 & 5.103.1.3.1, CalGreen 5.408, Environment Code ch.14, SF Building Code ch.13B | Interior | 100% of mixed debris must be taken by a Permitted Transporter to a Registered Facility for recycling and recovery. Complete Material Reduction and Recovery Plan and demonstrate minimum 65% recovery rate. Plan must include verification of proper disposal of universal waste. For more information, see Information Sheet GB-02, or contact 415-355-3799 / debrisrecovery@sfgov.org. | • | | | | AFFIX STAMP BELOW: |
| HVAC | REFRIGERANT MANAGEMENT | CALGreen 5.508.1 | Interior | Use no halons or CFCs in HVAC. | | • | | | Green Building Compliance Professional of Record for Mechanical and/or Plumbing Measures <i>I have been retained by the project sponsor to verify that approved construction documents and construction fulfill the requirements of San Francisco Green Building Code. It is my professional opinion that the requirements of the San Francisco Green Building Code will be met. I will notify the Department of Building Inspection if the project will, for any reason, not substantially comply with these requirements, or if I am no longer the Green Building Compliance Professional of Record for the project.</i> |
| GOOD NEIGHBOR | LIGHT POLLUTION REDUCTION | CA Energy Code, CALGreen 5.106.8 | Exterior | Comply with CA Energy Code for Lighting Zones 1-4. Comply with 5.106.8 for Backlight/Uplight/Glare. | • | | | | |
| | BIRD-SAFE BUILDINGS | Planning Code sec.139 | Exterior | Glass facades and bird hazards facing and/or near Urban Bird Refuges may need to treat their glass for opacity. | • | | | | |
| | TOBACCO SMOKE CONTROL | CALGreen 5.504.7 | Exterior | Prohibit smoking within 25 feet of building entries, air intakes, and operable windows. | • | | | | |
| POLLUTION PREVENTION | STORMWATER CONTROL PLAN | Public Works Code art.4.2 sec.147 | Exterior | Projects disturbing ≥5,000 sq.ft. in combined or separate sewer areas, or replacing ≥2,500 impervious sq.ft. in separate sewer area, must implement a Stormwater Control Plan meeting SFPUC Stormwater Management Requirements. | if project extends outside envelope | | | | NAME |
| | CONSTRUCTION SITE RUNOFF | Public Works Code art.4.2 sec.146 | Exterior | Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices. | if project extends outside envelope | | | | FIRM |
| INDOOR ENVIRONMENTAL QUALITY | ACOUSTICAL CONTROL | CALGreen 5.507.4.1-3 | Envelope | Comply with sound transmission limits (STC-50 exteriors near freeways/airports; STC-45 exteriors if 65db Leq at any time; STC-40 interior walls/floor-ceilings between tenants). | • | | | | LICENSED PROFESSIONAL (sign & date) |
| | AIR FILTRATION (CONSTRUCTION) | CALGreen 5.504.1-3 | Interior | Seal permanent HVAC ducts/equipment stored onsite before installation. | | • | | | AFFIX STAMP BELOW: |
| | AIR FILTRATION (OPERATIONS) | CALGreen 5.504.5.3 | Interior | Provide MERV-13 filters on HVAC for regularly occupied, actively ventilated spaces. | | • | | | |

FOR YOUR INFORMATION: INDOOR WATER EFFICIENCY - Fixtures must not exceed CALGreen 5.303 maximum flow rates

| FIXTURE TYPE | MAXIMUM FIXTURE FLOW RATE |
|-----------------------------------|---|
| Showerheads ² | 1.8 gpm @ 80 psi |
| Lavatory Faucets: non-residential | 0.5 gpm @ 60 psi |
| Kitchen Faucets | 1.8 gpm @ 60 psi default |
| Wash Fountains | 1.8 gpm / 20 [rim space (inches) @ 60 psi] |
| Metering Faucets | .20 gallons per cycle |
| Metering Faucets: wash fountains | .20 gallons per cycle / 20 [rim space (inches) @ 60 psi] |
| Tank-type water closets | 1.28 gallons / flush ¹ and EPA WaterSense Certified |
| Flushometer valve water closets | 1.28 gallons / flush ¹ |
| Urinals | Wall mount: 0.125 gallons / flush Floor mount: 0.5 gallons / flush |

NOTES:

- For dual flush toilets, effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. The referenced standard is ASME A112.19.14 and USEPA WaterSense Tank-Type High Efficiency Toilet Specification – 1.28 gal (4.8L)
- The combined flow rate of all showerheads in one shower stall shall not exceed the maximum flow rate for one showerhead, or the shower shall be designed to allow only one showerhead to be in operation at a time (CALGreen 5.303.2.1)

Water Efficiency of Existing Non-Compliant Fixtures

All fixtures that are not compliant with the San Francisco Commercial Water Conservation Ordinance that serve or are located within the project area must be replaced with fixtures or fittings meeting the maximum flow rates at left and standards referenced above. For more information, see the Commercial Water Conservation Program Information at SFPUC.org.

NON-COMPLIANT PLUMBING FIXTURES INCLUDE:

- Any toilet manufactured to use more than 1.6 gallons/flush
- Any urinal manufactured to use more than 1 gallon/flush
- Any showerhead manufactured to have a flow capacity of more than 2.5 gpm
- Any interior faucet that emits more than 2.2 gpm

Exceptions to this requirement are limited to situations where replacement of fixture(s) would detract from the historic integrity of the building, as determined by the Department of Building Inspection pursuant to San Francisco Building Code Chapter 13A.

GS5: San Francisco Green Building Submittal Form for Residential Alteration, Addition, and Accessory Dwelling Unit Projects

Green Building Submittal (GS) Forms are part of DBI Administrative Bulletin 093 - Implementation of Green Building Regulations.

For supporting resources, visit: sf.gov/submit-out-green-building-forms and sf.gov/departments-department-building-inspection - See: *Administrative Bulletins in the SF Building Code*

INSTRUCTIONS: Fill out the project information in the Verification box at the right. Submittal must be a minimum of 11" x 17".

| TITLE | | SOURCE OF REQUIREMENT | DESCRIPTION OF REQUIREMENT | OTHER RESIDENTIAL ALTERATIONS, ADDITIONS AND ACCESSORY DWELLING UNITS |
|----------------------|---|---|---|---|
| RESIDENTIAL | GRADING & PAVING | CALGreen 4.106.3 | Show how surface drainage (grading, swales, drains, retention areas) will keep surface water from entering the building. | adds any amount of conditioned area, volume, or size, OR a single freestanding unit accessory to an existing dwelling if applicable |
| | RODENT PROOFING | CALGreen 4.406.1 | Seal around pipe, cable, conduit, and other openings in exterior walls with cement mortar or DBI-approved similar method. | |
| | FIREPLACES & WOODSTOVES | CALGreen 4.503.1 | Install only direct-vent or sealed-combustion, EPA Phase II-compliant appliances. | |
| | SLAB CAPILLARY BREAK | CALGreen 4.505.2 | Slab on grade foundation requiring vapor retarder also requires a capillary break such as: 4 inches of base 1/2-inch aggregate under retarder; slab design specified by licensed professional. | |
| | MOISTURE CONTENT | CALGreen 4.505.3 | Wall + floor <19% moisture content before enclosure. | |
| | BATHROOM EXHAUST | CALGreen 4.506.1 | Must be ENERGY STAR compliant, ducted to building exterior, and its humidistat shall be capable of adjusting between <50% to >80% (humidistat may be separate component). | |
| MATERIAL EMISSION | LOW-EMITTING MATERIALS | CALGreen 4.504.2.1-5, SFGBC 4.103.3.2 | Use products that comply with the emission limit requirements of 4.504.2.1-5, 5.504.4.1-6 for adhesives, sealants, paints, coatings, carpet systems including cushions and adhesives, resilient flooring (80% of area), and composite wood products. | • |
| WATER | INDOOR WATER USE REDUCTION | CALGreen 4.303.1, SF Housing Code sec.12A10 | Meet flush/flow requirements for: toilets (1.28 gpf); urinals (0.125 gpf wall, 0.5 gpf floor); showerheads (1.8 gpm); lavatories (1.2 gpm private, 0.5 gpm public/common); kitchen faucets (1.8 gpm); wash fountains (1.8 gpm); metering faucets (0.2 gpc); food waste disposers (1 gpm/8 gpm). Replace all non-compliant fixtures within the project area per SF Housing Code sec.12A10 and CalGreen 4.303.1. | • |
| | WATER-EFFICIENT IRRIGATION | Administrative Code ch.63 | If modified landscape area is ≥1,000 sq.ft., use low water use plants or climate appropriate plants, restrict turf areas and comply with Model Water Efficient Landscape Ordinance restrictions by calculated ETAF of ≤.55 or by prescriptive compliance for projects with ≤2,500 sq.ft. of landscape area. | • |
| ENERGY | ENERGY EFFICIENCY | CA Energy Code | Comply with all provisions of the CA Energy Code. | • |
| | ALL-ELECTRIC CONSTRUCTION | SFBC 106A.1.17 | Freestanding ADUs must be All-Electric. For permits filed July 1, 2026 or later, Major Renovations (as defined by San Francisco Building Code Section 202) must be all-electric. Where natural gas may be permitted per Administrative Bulletin 112, comply with Design Guidelines for Public Safety and Electric Ready Construction for future conversion of all mixed-fuel loads to all-electric. See Administrative Bulletin 112 for details. | Applies to freestanding ADU or Major Renovation only |
| PARKING | ELECTRIC VEHICLE CHARGING | CalGreen 4.106.4.3 | For alterations to multifamily where spaces are added or altered, each parking space altered or added shall have access to either low-power Level 2 EV charging receptacle (minimum 20A 208/240V branch circuit and receptacle) or Level 2 EV charger. An Automated Load Management System may reduce required electrical capacity if the system has capacity to deliver minimum 3.3kW simultaneously to each space served by the ALMS, each branch service has minimum 40A capacity and installed EV chargers have capacity of 30A or greater. Exception: Where work in the parking area is primarily performed to install 120V receptacles for EV charging. | Applies to alterations where: Off-street parking is added, OR Electrical systems are altered in existing parking facilities |
| | BICYCLE PARKING | CalGreen 4.106.4.4, Planning Code sec.155.1-2 | Multifamily: Within 200 feet of entrance, provide one short-term bike parking space per 10,000 sq ft (minimum 2). In addition provide minimum one secure long-term bicycle parking space for every two dwelling units. OR Meet requirements of SF Planning Code sec.155.1-2, whichever is greater. | if applicable |
| RESOURCE RECOVERY | RECYCLING BY OCCUPANTS | SF Building Code 106A.3.3, CalGreen 5.410.1, AB-088 | Provide adequate space and equal access for storage, collection, and loading of compostable, recyclable and landfill materials. For help estimating adequate space for collection by hauler, see supporting materials including a design guide and calculator at: www.sfenvironment.org/refusecalculator . | • |
| | CONSTRUCTION & DEMOLITION (C&D) DISCARDS MANAGEMENT | Environment Code ch. 14 SFGBC 4.103.2.3 CalGreen 4.408.2, 4.408.5 | 100% of mixed debris must be taken by a Permitted Transporter to a Registered Facility for recycling and recovery. Complete Material Reduction and Recovery Plan and demonstrate minimum 65% recovery rate. For more information, see DBI Information Sheet GB-02 or contact: debrisrecovery@sfgov.org or 415-355-3799. | • |
| HVAC | HVAC INSTALLER QUALS | CALGreen 4.702.1 | Installers must be trained in best practices. | • |
| | HVAC DESIGN | CALGreen 4.507.2 | HVAC shall be designed to ACCA Manual J, D, and S. | • |
| GOOD NEIGHBOR | BIRD-SAFE BUILDINGS | Planning Code sec.139 | Glass facades and bird hazards facing and/or near Urban Bird Refuges may need to treat their glass for opacity. | • |
| | TOBACCO SMOKE CONTROL | Health Code art.19F | Prohibit smoking within 10 feet of building entries, air intakes, and operable windows and enclosed common areas. | • |
| POLLUTION PREVENTION | STORMWATER CONTROL PLAN | Public Works Code art.4.2 sec.147 | Projects disturbing ≥5,000 sq.ft. in combined or separate sewer areas, or replacing ≥2,500 impervious sq.ft. in separate sewer area, must implement a Stormwater Control Plan meeting SFPUC Stormwater Management Requirements. | if project extends outside envelope |
| | CONSTRUCTION SITE RUNOFF | Public Works Code art.4.2 sec.146 | Provide a construction site Stormwater Pollution Prevention Plan and implement SFPUC Best Management Practices. | if project extends outside envelope |
| INDOOR AIR QUALITY | AIR FILTRATION (CONSTRUCTION) | CALGreen 4.504.1 | Seal permanent HVAC ducts/equipment stored onsite before installation. | • |
| | AIR FILTRATION (OPERATION) | Energy Code 160.2 & 180.1(1) | Multifamily must provide MERV-13 filters on HVAC for regularly occupied, actively ventilated spaces. (Excludes existing equipment that is not replaced.) | multifamily alterations and additions |

Indicate below who is responsible for ensuring green building requirements are met. Projects that increase total conditioned floor area by ≥1,000 sq. ft. are required to have a Green Building Compliance Professional of Record as described in Administrative Bulletin 93. For projects that increase total conditioned floor area by <1,000 sq. ft., the applicant or design professional may sign below, and no license or special qualifications are required. FINAL COMPLIANCE VERIFICATION form will be required prior to Certificate of Completion

PROJECT NAME

BLOCK/LOT

ADDRESS

PRIMARY OCCUPANCY

GROSS BUILDING AREA

INCREASE IN CONDITIONED FLOOR AREA

I have been retained by the project sponsor to verify that approved construction documents and construction fulfill the requirements of San Francisco Green Building Code. It is my professional opinion that the requirements of the San Francisco Green Building Code will be met. I will notify the Department of Building Inspection if the project will, for any reason, not substantially comply with these requirements, if I am no longer the Green Building Compliance Professional of Record for the project, or if I am otherwise no longer responsible for assuring the compliance of the project with the San Francisco Green Building Code.

LICENSED PROFESSIONAL (sign & date)
May be signed by applicant when <1,000 sq. ft. is added.

AFFIX STAMP BELOW:

Projects that increase total conditioned floor area by ≥1,000 sq.ft.: Green Building Compliance Professional of Record will verify compliance.

GREEN BUILDING COMPLIANCE PROFESSIONAL (name & contact phone #)

FIRM

I am a LEED Accredited Professional

I am a GreenPoint Rater

I am an ICC Certified CALGreen Inspector

GREEN BUILDING COMPLIANCE PROFESSIONAL (sign & date)

Signature by a professional holding at least one of the above certifications is required. If the Licensed Professional does not hold a certification for green design and/or inspection, this section may be completed by another party who will verify applicable green building requirements are met.

Each fixture must not exceed CALGreen 4.303 maximum flow rates:

| FIXTURE TYPE | MAXIMUM FIXTURE FLOW RATE |
|---------------------------------|---|
| Showerheads ² | 1.8 gpm @ 80 psi |
| Lavatory Faucets: residential | 1.2 gpm @ 60 psi |
| Kitchen Faucets | 1.8 gpm @ 60 psi default |
| Wash Fountains | 1.8 gpm / 20 [rim space (inches) @ 60 psi] |
| Metering Faucets | .20 gallons per cycle |
| Tank-type water closets | 1.28 gallons / flush ¹ and EPA WaterSense Certified |
| Flushometer valve water closets | 1.28 gallons / flush ¹ |
| Urinals | Wall mount: 0.125 gallons / flush Floor mount: 0.5 gallons / flush |

| NOTES: | Water Efficiency of Existing Non-Compliant Fixtures |
|---|--|
| 1. For dual flush toilets, effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. The referenced standard is ASME A112.19.14 and USEPA WaterSense Tank-Type High Efficiency Toilet Specification – 1.28 gal (4.8L) 2. The combined flow rate of all showerheads in one shower stall shall not exceed the maximum flow rate for one showerhead, or the shower shall be designed to allow only one showerhead to be in operation at a time (CALGreen 5.303.2.1) | All fixtures that are not compliant with the San Francisco Residential Water Conservation Ordinance that serve or are located within the project area must be replaced with fixtures or fittings meeting the maximum flow rates and standards at left. For more information, see "Comply with water conservation requirements" available at SFGOV. NON-COMPLIANT PLUMBING FIXTURES INCLUDE: 1. Any toilet manufactured to use more than 1.6 gallons/flush 2. Any urinal manufactured to use more than 1 gallon/flush 3. Any showerhead manufactured to have a flow capacity of more than 2.5 gpm 4. Any interior faucet that emits more than 2.2 gpm Exceptions to this requirement are limited to situations where replacement of fixture(s) would detract from the historic integrity of the building, as determined by the Department of Building Inspection pursuant to San Francisco Building Code Chapter 13A. |



Supplementary Energy Compliance Documentation

Attachment D

Special Energy Compliance Form

PRF-1-GB0

This attachment is reserved. It is not necessary to prepare a separate form to document compliance with San Francisco Green Building Code 2025 energy requirements.

Photovoltaic and battery energy storage systems are addressed by Title 24 rules.

GreenPoint Rated and LEED for Homes each provide guidance on documentation of design energy performance.



Green Building: Final Compliance Verification

This form is required prior to issuance of a Certificate of Final Completion and Occupancy for New Construction and Major Alterations.

Address: _____

Permit Application Numbers: _____

Verification that the above referenced project has been constructed to comply with the requirements of the San Francisco Green Building Code is based upon one of the following:

- Option 1:** This project has submitted for certification under LEED or GreenPoint Rated ("Option 1" on the green building submittal). As the Design Professional of Record, I verify that, to the best of my knowledge, the project has been constructed to substantially comply with the green building requirements of San Francisco's building codes.

Signed: _____ Date: _____

Affix professional stamp:

Project is: Certified Not Yet Certified

Mandatory follow-up for Option 1: Submit evidence of LEED or GreenPoint Rated certification to the Department of Building Inspection once the project is certified.

Staff Use Only: Proof of LEED or GreenPoint Rated certification received:

Sign & Date: _____

- Option 2:** This project will not utilize LEED or GreenPoint Rated certification to demonstrate compliance with the San Francisco Green Building Code. As the Green Building Compliance Professional of Record for this project, I verify that to the best of my knowledge the above referenced project has been constructed to substantially comply with the green building requirements of San Francisco's building codes. **[Affix stamp below.]**

Signed: _____ Date: _____

Affix professional stamp:



Recommended Project Implementation Procedures

Introduction

LEED and GreenPoint Rated were selected by the Green Building Task Force for reference in San Francisco Green Building Code primarily because of their credibility, existing program infrastructure, and verification performed by qualified review bodies. Certification under these rating systems is not required but recommended.

For more information: www.usgbc.org, www.builditgreen.org

LEED Projects

1. Incorporate green building considerations from the beginning of project development.
2. Identify a Project Administrator who is a LEED Accredited Professional (reports to Green Building Compliance Professional of Record)
3. Register project with Green Building Certification Institute using the Arc website (arc-app.gbci.org/home)
4. Develop Responsibility Matrix and assign credits to responsible team member(s)
5. Detailed design
6. Submit Design Credits to Green Building Certification Institute for review
7. Construction
8. Submit Construction Credits to Green Building Certification Institute for review
9. Maintain detailed project records showing that green building requirements have been met.

GreenPoint Rated Projects

1. Identify Project Administrator who is a Certified GreenPoint Rater (reports to Green Building Compliance Professional)
2. Register Project with Build It Green
3. As early in design process as possible, work with GreenPoint Rater to fill out GreenPoint Rated Checklist
4. Design
5. Plan Review Assessment by GreenPoint Rater is a required by the rating system
6. Construction
7. Rough Inspection (pre-drywall) by GreenPoint Rater is a required by the rating system
8. Construction
9. Final Inspection by GreenPoint Rater
10. Maintain detailed project records showing that green building requirements have been met



Selected Green Building Resources

- **SF Dept of Building Inspection** – sf.gov/departments/departments-building-inspection
- **SF Environment Dept** – sfenvironment.org
- **SF Public Utilities Commission** – See sfpuc.org for information on water-related policies such as:
 - Stormwater Management Ordinance and Stormwater Design Guidelines
 - Water Efficient Irrigation Ordinance
 - Construction site runoff requirements
 - Recycled Water
 - Commercial water conservation
 - Onsite use of alternative water sources for nonpotable applications
- **US Green Building Council** (LEED Rating System) – Numerous resources, including Reference Guides to the LEED Rating System(s), and workshops. usgbc.org
- **US Green Building Council California** – Network with local green building professionals and obtain training. usgbc-ca.org
- **Build It Green** – Learn the GreenPoint Rated System, identify opportunities to network, learn more about green building, obtain a GreenPoint Rated Home Rating Manual, and identify local Certified GreenPoint Raters builditgreen.org/greenpoint-rated/



San Francisco Green Building Code
Attachment H: Review of Energy Performance Requirements
 (Page 1 of 2)

Attachment H

This table reviews minimum energy efficiency requirements for projects subject to San Francisco's green building requirements, which are based on the city and state requirements in effect at the date of application for building permit. For additional information, please see "Compliance Guidelines: Energy" starting on page 5 of Administrative Bulletin 93 (this bulletin).

| Building Type | New Construction | | | | Additions and Alterations | | | Municipal Projects |
|--|---|---|---|--|--|---|---|---|
| | New Large Commercial ≥25,000 sq. ft. A, B, I, M, E Occupancy | All Other New Non-Residential | New High-Rise Residential ≥ 4 occupied floors | New Low-Rise Residential 1 - 3 occupied floors | Major Alteration to Commercial or Residential | Large First-Time Commercial Interiors | All Other Additions & Alterations, including single freestanding unit accessory to existing dwelling | New Construction, Addition or Alteration |
| Date of Application for Building Permit | From January 1, 2026 - December 31, 2028 | All-Electric is required by SF Building Code 106A.1.17 All-Electric: Comply with Title 24 2025 OR Mixed Fuel (natural gas): In limited situations where natural gas may be permitted, comply with Electric Ready Design Guidelines (wiring for future conversion to all-electric). Electric Vehicles: Install EV Charging and EV Capable Spaces per CalGreen and SFGBC Table . | | | Comply with Title 24 2025 All-Electric: Major Renovations as defined by SFBC 202: All-Electric Electric Vehicles: Install EV Charging and EV Capable Spaces per CalGreen, where applicable | Comply with Title 24 2025 Electric Vehicles: Install EV Charging and EV Capable Spaces per CalGreen, where applicable | Comply with Title 24 2025 All-Electric: Major Renovations as defined by SFBC 202, or Freestanding ADU Electric Vehicles: Install EV Charging and EV Capable Spaces per CalGreen, where applicable | Comply with Title 24 2025 All-Electric Required: New construction, renovations, and equipment replacement AND: Install EV Charging and EV Capable Spaces per CalGreen |
| | From January 1, 2023 - December 31, 2025 | All-Electric is required by SF Building Code 106A.1.17. All projects (including limited situations where natural gas may be permitted): comply with Electric Ready Design Guidelines (wiring for future conversion to all-electric). Electric Vehicles: Wiring for EV Charging | | | Comply with Title 24 2022 Electric Vehicles: Wiring for EV Charging | Comply with Title 24 2022 Electric Vehicles: Wiring for EV Charging, where applicable | Comply with Title 24 2022 Freestanding ADU only: All-Electric is required by SF Building Code 106A.1.17. | Comply with Title 24 2022 All-Electric Required: New construction, renovations, and equipment replacement Electric Vehicles: Wiring for EV Charging |
| | June 1, 2021 - December 31, 2022 | All-Electric is required by SF Building Code 106A.1.17 Energy Performance: All-Electric: Comply with Title 24 2019 OR Mixed Fuel (natural gas): In limited situations where natural gas may be permitted, demonstrate a 10% Reduction compared to Title 24 2019, and comply with Electric Ready Design Guidelines (wiring for future conversion to all-electric). Roofs: Better Roofs or Commercial Renewable Energy provision Electric Vehicles: Wiring for EV Charging | | All-Electric is required by SF Building Code 106A.1.17 Energy Performance: All-Electric: Comply with Title 24 2019 OR Mixed Fuel (natural gas): In isolated situations where natural gas may be allowed, Total Energy Design Rating of 14 or less, and comply with Electric Ready Design Guidelines (wiring for future conversion to all-electric). Roofs: Better Roofs Electric Vehicles: Wiring for EV Charging | Meet rating system prerequisite: GreenPoint Rated - All-Electric: Comply with Title 24 2019 - Mixed Fuel: 10% Reduction compared to Title 24 2019 LEED: Title 24 2019 only. Electric Vehicles: Wiring for EV Charging | Comply with Title 24 2019 Electric Vehicles: Wiring for EV Charging, where applicable | Title 24 2019 only | All-Electric Required, Comply with Title 24 2019 AND: Better Roofs and Wiring for EV Charging |
| | February 17, 2020 - May 31, 2021 | All-Electric: Comply with Title 24 2019 OR Mixed Fuel (natural gas): 10% Reduction compared to Title 24 2019 Roofs: Better Roofs or Commercial Renewable Energy provision Electric Vehicles: Wiring for EV Charging | | All-Electric: Comply with Title 24 2019 OR Mixed Fuel (natural gas): Total Energy Design Rating of 14 or less, and Electric Ready wiring for appliances Roofs: Better Roofs Electric Vehicles: Wiring for EV Charging | Meet rating system prerequisite: GreenPoint Rated - All-Electric: Comply with Title 24 2019 - Mixed Fuel: 10% Reduction compared to Title 24 2019 LEED: Title 24 2019 only. Electric Vehicles: Wiring for EV Charging | Comply with Title 24 2019 Electric Vehicles: Wiring for EV Charging, where applicable | Title 24 2019 only | All-Electric Required, Comply with Title 24 2019 Roofs: Better Roofs Electric Vehicles: Wiring for EV Charging |

Attachment H: Review of Energy Performance Requirements (Page 2 of 2)

| Building Type | New Construction | | | | Additions and Alterations | | | Municipal Projects | |
|---|---|---|--|---|---|---|---|--|--|
| | New Large Commercial ≥25,000 sq. ft. A, B, I, M, E Occupancy | All Other New Non-Residential | New High-Rise Residential ≥ 4 occupied floors | New Low-Rise Residential 1 - 3 occupied floors | Major Alteration to Commercial or Residential | Large First-Time Commercial Interiors | All Other Additions & Alterations, including single freestanding unit accessory to an existing dwelling | New Construction, Addition or Alteration | |
| Date of Application for Building Permit | January 1, 2020 - February 16, 2020 | Comply with Title 24 2019 Roofs: Better Roofs or Commercial Renewable Energy Electric Vehicles: Wiring for EV Charging | Meet rating system prerequisite: <i>GreenPoint Rated</i> - All-Electric: Comply with Title 24 2019 - Mixed Fuel (natural gas): 10% Reduction compared to Title 24 2019, and Electric Ready wiring for appliances <i>LEED:</i> Title 24 2019 only. AND: Better Roofs, and Wiring for EV Charging | Meet rating system prerequisite: <i>GreenPoint Rated</i> - All-Electric: Comply with Title 24 2019 - Mixed Fuel (natural gas): Total Energy Design Rating of 14 or less, and Electric Ready wiring for appliances <i>LEED:</i> Title 24 2019 only. AND: Better Roofs, and Wiring for EV Charging | Meet rating system prerequisite: <i>GreenPoint Rated</i> - All-Electric: Comply with Title 24 2019 - Mixed Fuel (natural gas): 10% Reduction compared to Title 24 2019, and Electric Ready Wiring <i>LEED:</i> Title 24 2019 only. AND: Wiring for EV Charging | Comply with Title 24 2019 AND: Wiring for EV Charging, where applicable | Title 24 2019 only | All-Electric Required, Comply with Title 24 2019 AND: Better Roofs and Wiring for EV Charging | |
| | January 1, 2017 - December 31, 2019 | Comply with Title 24 2019 AND: Better Roofs or Commercial Renewable Energy, and Wiring for EV Charging | Meet rating system prerequisite: <i>GreenPoint Rated</i> - All-Electric: Comply with Title 24 2016 - Mixed Fuel (natural gas): 10% Reduction compared to Title 24 2016 OR <i>LEED:</i> See rating system AND: Better Roofs and Wiring for EV Charging | Meet rating system prerequisite: <i>GreenPoint Rated</i> - All-Electric: Comply with Title 24 2016 - Mixed Fuel (natural gas): 10% Reduction compared to Title 24 2016 <i>LEED:</i> See rating system AND: Wiring for EV Charging | Comply with Title 24 2016 AND: Wiring for EV Charging, where applicable | Comply with Title 24 2016 | Title 24 2016 only | Comply with Title 24 2016 AND: Better Roofs and Wiring for EV Charging | |
| | July 1, 2014 – December 31, 2016 | Comply with Title 24 2013 AND Commercial Renewable Energy | Comply with Title 24 2013 | Meet rating system prerequisite: GreenPoint Rated or LEED for Homes (including Mid-rise) 15% Reduction compared to Title 24 2013 | Comply with Title 24 2013 | Comply with Title 24 2013 | Comply with Title 24 2013 | Comply with Title 24 2013 | Comply with Title 24 2013 AND: Renewable Energy provision of Environment Code Chapter 7 |
| | January 1, 2014 – June 30, 2014 | Comply with Title 24 2008 AND Commercial Renewable Energy | Comply with Title 24 2008 | Meet rating system prerequisite: GreenPoint Rated or LEED for Homes (including Mid-rise) 15% Reduction compared to Title 24 2008 | Comply with Title 24 2008 | Comply with Title 24 2008 | Comply with Title 24 2008 | Comply with Title 24 2008 | Comply with Title 24 2008 AND: Renewable Energy provision of Environment Code Chapter 7 |
| | January 1, 2011 – December 31, 2013 | | 15% Reduction compared to Title 24 2008 | | Meet rating system prerequisite: - <i>LEED BD+C 2009:</i> T24 (2008) only - <i>GreenPoint Rated:</i> 15% Reduction compared to Title 24 (2008) | 15% Reduction compared to Title 24 2008 | Title 24 2008 only | 15% Reduction compared to Title 24 2008 AND: Renewable Energy provision of Environment Code Chapter 7 | |

AB-093 - Attachments

Red line with CAC Updates

2-11-26

AB-093 Implementation of Green Building Regulations

NO. AB-093:

DATE: Effective January 1, ~~2023~~2026,
Revised December 13, 2023

SUBJECT: Administration and General Design

TITLE: **Implementation of Green Building Regulations**

PURPOSE: The purpose of this Administrative Bulletin is to detail standards and procedures for the implementation of the Green Building requirements of the San Francisco Green Building Code, effective January 1, ~~2023~~2026.

REFERENCES: ~~2022-2025~~ San Francisco Green Building Code

San Francisco Administrative Bulletins:

- 005: Procedures for Approval of Local Equivalencies
- 112: Implementation of Regulations for All Electric New Construction and Major Renovations

~~2022-2025~~ California Green Building Standards Code

San Francisco Environment Code, Chapter 7

~~2022-2025~~ San Francisco Building Code

DISCUSSION: Approved construction documents and completed projects must conform to the Green Building requirements established in the San Francisco Green Building Code, which combines all mandatory elements of the ~~2022~~2025 California Green Building Standards Code (“CALGreen”) and stricter local requirements.

Herein, “locally required measures” refers to the combination of prescriptive measures required by the California Green Building Standards Code, local amendments, and other relevant local requirements.

At various project milestones, particularly at the conclusion of construction, the Department of Building Inspection must verify that Green Building requirements have been met. Under these implementation procedures, the majority of verification is required to be provided to the Department of Building Inspection via a formal third-party certification under the green building rating systems referenced in the San Francisco Green Building Code, or by a third-party licensed design professional.

Note: Future local, state or other regulations may change the scope and implementation of Green Building requirements. Projects that submit a complete application for a building permit must meet the requirements in effect at that time. Project sponsors should verify that they are meeting all applicable code requirements, which may modify the standards and procedures addressed in this Administrative Bulletin.

IMPLEMENTATION:

Green Building Requirements to be Applied

The San Francisco Green Building Code applies to all new construction in San Francisco, as well as most alterations and additions. To identify the green building requirements that apply to a project:

- Use Attachment A, Table 1 of this bulletin to find the overall green building standard [Leadership in Energy and Environmental Design (LEED), GreenPoint Rated, or ‘Locally Required Measures Only’] that applies, based on occupancy, project size, and whether the project is new construction or alteration. Attachment A, Table 1 also identifies the submittal required in order to confirm compliance with local requirements.
- Attachment B consists of four tables that summarize specific required measures:¹
 - Table 1: Requirements for projects meeting a LEED standard
 - Table 2: Requirements for projects meeting a GreenPoint Rated standard
 - Table 3: Requirements for all non-residential projects that are not required to meet a LEED standard (includes certain new construction as well as certain additions and alterations)
 - Table 4: Requirements for residential additions and alterations

Mixed Occupancy Buildings

For mixed occupancy buildings where local standards reference a green building rating system (Attachment A, Table 1), the project sponsor may apply a single green building rating system to the entire building. Each portion of the building must meet the Local Requirements applicable to that occupancy.

Applicability of Green Building Regulations Based on Date of Building Permit Application

Application of Green Building requirements is based on the date of submittal of a building permit application. The applicable date of the San Francisco Green Building Code ~~2022~~2025 is January 1, ~~2026~~2023. In the case of Site Permits, the effective date shall be the date that the Site Permit application (not an addendum) is filed with the Department of Building Inspection.

Table 1 summarizes the green building requirements that apply based on the date a complete application is submitted. Addenda to site permits and revisions to permit applications received before January 1, ~~2023~~2026 are required to meet the green building requirements that applied on the date a complete application for site permit was submitted. If a site permit addendum or revision changes the scope of the project such that current codes are generally applicable, then current green building requirements are also applicable.

For details, see the appropriate version of Administrative Bulletin 93: “Implementation of Green Building Regulations,” as summarized in the following table:

Table 1: Applicability of green building requirements based on date of application for building permit in San Francisco

| Green Building Requirements | Effective Dates | Administrative Bulletin 93 Version |
|---|--|--|
| <u>San Francisco Green Building Code (2025)</u> | <u>January 1, 2026 through December 31, 2028</u> | <u>This bulletin</u> |
| San Francisco Green Building Code (2022) | January 1, 2023 through December 31, 2025 | This bulletin <u>December 2023 Revision</u> |
| San Francisco Green Building Code (2019) | January 1, 2020 through December 31, 2022 | April 2021 Revision |
| San Francisco Green Building Code (2016) | January 1, 2017 through December 31, 2019 | January 2018 Revision |
| San Francisco Green Building Code (2013) | January 1, 2014 through December 31, 2016 | January 1, 2014 |
| San Francisco Building Code 13C (2010) | July 18, 2012 through December 31, 2013 | July 18, 2012 |
| San Francisco Building Code 13C (2010) | January 1, 2011 through July 17, 2012 | January 1, 2011 |
| San Francisco Building Code 13C (2007) | November 3, 2008 through December 31, 2010 | September 24, 2008 |

PROJECT SUBMITTAL REQUIREMENTS

Applicability

Attachment A, Table 1 should be used to determine which green building requirements may apply to the project. Department of Building Inspection staff will screen all building permit applications to confirm which Green Building regulations apply, as summarized in Attachment A, Table 1. Every application for a Site Permit subject to these regulations must include a completed Green Building Site Permit Submittal (GS-1). Permit applications for new construction projects will not be accepted for processing without Green Building Site Permit Submittal GS-1, and permit applications for an addition or alteration will not be accepted without submittal GS-2, GS-3, GS-4, GS-5, or GS-6 as applicable.

At the time of the first architectural or superstructure addendum, whichever comes first, the submittal package for all applicable projects must include a checklist incorporated into the project plans indicating the required green building measures.² This checklist must reference, as appropriate, location of green building features in the submittal documents. The Green Building Submittal (GS-1, GS-2, GS-3, GS-4, GS-5, or GS-6) shall include this checklist, shall detail the green building requirements to be met, and shall indicate which addendum or other document will provide compliance details for each required performance measure or credit.

The Green Building Submittal may be reformatted as needed to conform to plan submittal size if all the required information is provided.

Compliance with the Green Building Requirements may be documented in any of the following methods:

- 1) Registration and submittal for certification under LEED. For buildings that propose this option, the permit applicant must provide submittal documentation showing that the project will meet the appropriate LEED certification requirements. See the “Energy Compliance Guidelines for LEED projects” section below for details.
- 2) Registration and achievement of GreenPoint Rated status. For buildings that propose this option, the permit applicant must submit documentation showing that the project meets all requirements necessary to GreenPoint Rated certification.
- 3) Documentation of compliance with either LEED or GreenPoint Rated standards without registration and certification from those systems. The Green Building Compliance Professional of Record must provide submittal documentation showing that the project will meet the appropriate standards.
- 4) Registration and submittal for another rating system or documentation of equivalency as approved by the Director. For buildings that propose to meet such alternate standards, the Green Building Compliance Professional of Record must provide submittal documentation detailing compliance with the proposed standards.
- 5) Where neither LEED nor GreenPoint Rated is required, submit documentation of compliance with Locally Required Measures in effect at the time of permit submittal, as indicated.

Municipal projects³ of 10,000 square feet or larger are required to obtain LEED Gold certification by San Francisco Environment Code, Chapter 7. For such projects, only method 1) above may be used.

Green Building Compliance Professional of Record

For methods 3), 4), and 5) above, the owner or owner’s agent must employ a Green Building Compliance Professional of Record who personally reviews and verifies compliance with San Francisco Green Building Code requirements, or who directly supervises persons providing on-site review or verification thereof.

For methods 3), 4), and 5) above, the qualifications for Green Building Compliance Professional of Record include a license or registration as an Architect or Engineer, and specialized understanding of Green Building standards and technologies:

- For LEED projects, such specialized understanding shall include LEED accreditation and successful completion of at least one LEED certified project
- For GreenPoint Rated projects, such specialized understanding shall include the GreenPoint Rater designation, or the project team shall include a person who is a GreenPoint Rater.
- For projects solely required to meet Locally Required Measures, such specialized understanding shall include either: International Code Council (ICC) Certified CalGreen Inspector certification, the GreenPoint Rater designation, LEED accreditation, or equivalent training and certification as approved by the Director.

For residential alteration and addition projects where the area of the project is less than 25,000 square feet and which increase total conditioned floor area of the building by no more than 1,000 square feet, a Green Building Compliance Professional of Record is not required.⁴ In such cases, the applicant may complete the green building submittal. In all cases, applicable green building requirements apply to the entire project, and are not limited to the area of addition.

The Department of Building Inspection may request verification of such training or experience and may make an administrative determination as to the qualification of a person to act as such a Green Building Compliance Professional of Record.

A Green Building Compliance Professional of Record is responsible for providing verification to the Department of Building Inspection that all Green Building design and construction requirements are met. Where a Green Building Compliance Professional of Record is responsible for verifying compliance with

the requirements of the San Francisco Green Building Code, and no ~~third-party~~ green building certification is to be achieved, project documents may be reviewed in detail in plan review and inspection, at standard hourly rates for staff time.

Compliance Guidelines: Energy

The ~~2022~~2025 San Francisco Green Building Code requires building permit submittals to show that they meet the compliance margin required by the applicable rating system or local code, and comply with the California Building Energy Efficiency Standards in effect at the time of permit submittal. In each case below, standard California Energy Standards documentation must be prepared using software approved by the California Energy Commission for demonstrating compliance with the applicable provisions and version of the California Energy Code. The following guidelines explain when additional calculations and documentation are required.

- Buildings meeting a LEED for Building Design and Construction (BD+C), or LEED Core and Shell standard for compliance with the San Francisco Green Building Code must prepare and submit all standard documentation required by the California Energy Commission to demonstrate compliance with the California Energy Standards (Title 24, Part 6) in effect on the date of permit application.⁶
- Where calculations based on Title 24 Part 6 California Energy Standards are used to document that ‘points’ are earned for energy efficient design and construction, the compliance margin cited in the applicable certificate of compliance (~~CF1R-PRF-01E for single family and NRCC-PRF-01 for commercial and multifamily~~) submitted for compliance may be utilized without modification. Residential all-electric buildings which demonstrate prescriptive compliance and apply GreenPoint Rated J5.1 Option Two: All-Electric Compliance may submit the applicable ~~CF1R or NRCC report~~ certificate of compliance.
- Where the ASRHAE 90.1 option in LEED v4 or v5 (~~or subsequent~~) rules is used to document ‘points’ being voluntarily earned for energy-efficient design and construction, the supporting analysis must be submitted, and must include a detailed accounting of all on-site building energy use, including all: exterior and security lighting; elevators; process loads; and receptacle loads. Documentation to be retained in the records of the project must include all information required for LEED certification by the ~~US Green Building Council~~ Green Building Certification Institute.

Buildings meeting a LEED for Homes or GreenPoint Rated standard must use California Energy Commission-approved compliance software and submit documentation to demonstrate that the proposed building both:

- Complies with the California Energy Efficiency Standards in effect on the date of application for building permit, AND
- Meets the minimum energy performance requirements of the applicable green building rating system.

Where California Energy Commission-approved compliance software is used to document the minimum energy efficiency requirements of the green building rating, all submittals related to compliance and the green rating system must be generated in a manner consistent with the guidance of the applicable green building rating system, and must faithfully represent the design as proposed. The most straightforward way to demonstrate compliance calculations are consistent with the calculations of the green building rating system is to use a single simulation run, so that the compliance run number is consistent throughout the compliance documentation.

Compliance Guidelines: All-Electric ~~New~~ Construction

San Francisco Building Code 106A.1.17.1 requires all-electric design and construction for all projects that submit an initial application for permit to construct new buildings on or after June 1, 2021, and for projects

that apply on or after July 1, 2026 for a permit for major renovation to an existing building. See Administrative Bulletin 112 for details.

-All space-conditioning, water heating, cooking, and clothes drying systems must be all-electric, and installation of infrastructure, piping systems, or piping for distribution of natural gas or propane to such uses indoors or outdoors is prohibited. The ordinance allows limited installation of gas piping systems for commercial food preparation, and if, after exhausting all options, all-electric construction is determined to be physically or technically infeasible. ~~See Administrative Bulletin 112 for details.~~

Compliance Guidelines: Construction Site Runoff Pollution Prevention

Construction site runoff pollution prevention requirements depend upon project size, occupancy, and location in areas served by combined or separate sewer systems. Projects required to meet a LEED standard (see Attachment A, Table 1) must, at a minimum, prepare an erosion and sedimentation control plan per LEED Sustainable Sites prerequisite 1. However, more stringent local requirements may apply to any project, whether or not LEED is to be applied, such as a stormwater soil loss prevention plan or a Stormwater Pollution Prevention Plan (SWPPP). To confirm the construction site runoff pollution prevention requirements applicable to your project, please contact the SFPUC: sfpuc.org/programs/pretreatment-program/construction-site-runoff.

Compliance Guidelines: Design for Post-Construction Stormwater Management

Projects that disturb 5,000 square feet or more of ground surface in the separate and combined sewer areas, or that create or replace 2,500 square feet or more of impervious surface in separate sewer areas, must meet Stormwater Management Requirements as determined by the San Francisco Public Utilities Commission (SFPUC), and must submit a Stormwater Control Plan to the SFPUC for approval. The SFPUC has developed San Francisco Stormwater Management Requirements and Design Guidelines to aid project teams in meeting local requirements for stormwater controls, which are available online at: ~~sfpuc.org/smr/sfpuc.org/construction-contracts/design-guidelines-standards/water-efficient-landscape~~.

Compliance Guidelines: Water Efficient Irrigation

Projects that include at least 500 square feet of new or modified landscape are subject to the San Francisco Water Efficient Irrigation Ordinance.⁷ Details are available online at: ~~sfpuc.org/construction-contracts/design-guidelines-standards/water-efficient-landscape~~.

~~sfpuc.org/smr~~.

New Large Commercial Interiors and Major Alterations to Existing Buildings

The application of San Francisco Green Building Code Sections 5.103.3 or 4.103.3 to Major Alterations to Existing Buildings is based on a determination as to whether a “significant upgrade” is proposed to both the structural system and to one or more of the mechanical, electrical and/or plumbing systems in an area of more than 25,000 gross square feet in a Group B, M or R occupancy. For the purpose of enforcement of the San Francisco Green Building Code, a significant structural upgrade shall be determined to take place when a structural alteration takes place in thirty percent or more of the area of proposed construction. Areas to be counted toward such a determination include areas tributary to the vertical load carrying components (joists, beams, columns, walls and other structural components) that have been or will be removed, added or altered.

The application of Section 5.103.4 to New Large Commercial Interiors requires that the first-time tenant improvement work in an area of at least 25,000 square feet must meet the green building standards detailed in the ordinance. This requirement applies regardless of the date of construction of the building, including the first time a space undergoes a tenant improvement after or concurrent with a major alteration as defined in San Francisco Green Building Code Section 202. Note that all first-time commercial tenant interior improvement work of less than 25,000 square feet must comply with all applicable CALGreen requirements; see Attachment B Table 3 or Green Submittal Form GS-3 for details.

Accessory Dwelling Units

The construction of an accessory dwelling unit within an existing structure or attached to an existing structure is an alteration or addition. For the purpose of compliance with local amendments to California Green Building Standards, construction of a single freestanding dwelling unit accessory to an existing structure is considered an addition. See Green Submittal Form GS-5 for details.

Historic Building Requirements for “Historic Resources” Based on Planning Department Determination

For purposes of applying the specific provisions of San Francisco Green Building Code related to historic buildings, the Planning Department shall determine whether a building is an historical resource. This Planning Department review applies a standard based on the California Environmental Quality Act (CEQA) as to whether a structure is or might be considered an “historic resource”. Based on such information, the Green Building Compliance Professional of Record shall confirm that submittal documents properly reflect the requirements of the Code.

Projects which retain, rehabilitate or repair significant historical architectural features may receive credit toward Green Building requirements, per Attachment A, Table 3.

Alternate Building Code Applicability Under the California Historical Building Code Based on Department of Building Inspection Qualification

For buildings that are qualified to use the California Historical Building Code, project sponsors may apply the alternate provisions of that code. Buildings are determined to be qualified to use the California Historical Building Code upon specific request to the Department of Building Inspection. Buildings that qualify to use the California Historical Building Code include buildings that are on federal, state or local adopted lists or surveys, or buildings that are determined by the City to be eligible for such a list or survey, or buildings that have otherwise been determined by the City to be potential historic resources. The applicant must confirm with the Department of Building Inspection whether code provisions for historic buildings will be applied to the entire building, specific items, or specific areas.

Eligibility to use the California Historical Building Code is a separate process from the determination by the Planning Department that a building is an “historic resource,” but the Department of Building Inspection coordinates with the Planning Department on the review of requests for qualification to use the California Historical Building Code.

Demolition

For a replacement building which is to be constructed on a site on which one or more buildings were demolished after the effective date of this ordinance, the Planning Department, during the course of permit review, shall confirm applicable Green Building requirements, as found in Attachment A, Table 2.

Requests for Approval of Equivalencies

Project sponsors wishing to propose alternates or equivalencies for the specific requirements referenced in the San Francisco Green Building Code or its referenced standards may do so as described in Administrative Bulletin 5, “Procedures for Approval of Local Equivalencies.” Note that related state and local requirements continue to apply, including but not limited to: California Green Building Standards Code (Title 24 Part 11); SFPUC Stormwater Management Ordinance; and SFPUC Water Efficient Irrigation Ordinance.

A proposal for an alternate or equivalent method of compliance may be submitted with initial permit application or at a later date. Proposals for alternate or equivalency to San Francisco Green Building Code must include:

1. Proposed approach. If more than one equivalency is proposed, each alternate must be presented separately.

2. Requests must be accompanied by a complete analysis of Green Building Code and other code-related issues, and must be recommended by and signed by the Green Building Compliance Professional of Record for the project. The analysis must include calculations or other documentation for each specific element, confirming that the proposal meets or exceeds the applicable requirements.
3. The Department of Building Inspection staff will review the proposal and may, at its discretion, request review by other City staff or outside professionals expert in the matter under review. The project sponsor will be responsible for all additional costs incurred for such review, including review time by City staff, charged at the hourly rate as set forth in the San Francisco Building Code, or direct costs for other consultant review.
4. The Department of Building Inspection staff may request additional information as part of the review.
5. The Department of Building Inspection will issue a decision to approve, deny or require modifications to any submitted alternate or equivalency.
6. Project sponsors may appeal any decision to the Deputy Director, Director, and appeal bodies as detailed in the San Francisco Building Code.

~~Note that the 2022 San Francisco Green Building Code recognized GreenPoint Rated v.9 and all LEED v4 rating systems (see SFGBC 101.10) and allows the application of more recent versions of these rating systems. New residential projects of any size may therefore utilize LEED for Homes Midrise, LEED BD+C, or GreenPoint Rated without triggering the above process for confirming equivalency. Similarly, major alterations to residential buildings may use LEED for Building Design and Construction, GreenPoint Rated Multifamily New Home, or GreenPoint Rated Multifamily Existing Home to comply, provided applicable local requirements are met.~~

Project Completion: Verification that Green Building Requirements are Met in New Construction and Major Alterations

Verification that green building requirements for new construction and major alterations have been met requires submittal of Attachment E, Green Building: Final Compliance Verification prior to final inspection. Attachment E may be completed using any of the following methods:

- 1) If the project has been submitted for certification under LEED, once certification is awarded project shall provide documentation to the Department of Building Inspection Green Building Certification Institute has certified the project.
- 2) If the project has been submitted to be GreenPoint Rated, project shall provide to the Department of Building Inspection documentation that Build It Green has provided a GreenPoint Rated certificate to the project.
- 3) If the project is built to meet LEED or GreenPoint Rated standards but will not be certified, then Attachment E must be signed by the Green Building Compliance Professional of Record.
- 4) If the Director has approved an equivalency per Administrative Bulletin 005 (*Procedures for Approval of Local Equivalencies*) to satisfy green building requirements for new construction or a major alteration, provide documentation the approved approach has been applied. For such buildings, Attachment E must be signed by the Green Building Compliance Professional of Record.

Temporary Certificate of Occupancy

A Temporary Certificate of Occupancy may be issued pending final compliance certification. However, no final Certificate of Completion may be issued until Green Building Final Compliance Verification (Attachment E of this bulletin) has been received, reviewed and accepted by the Department of Building Inspection.

Quality Assurance and Compliance Review

Attachments:

Attachment A, Table 1: Summary of Requirements

Attachment A, Table 2: Additional Requirements in Case of Demolition

Attachment A, Table 3: Reduced Requirements for Retention of Significant Historical Architectural Features

Attachment B, Table 1: Requirements for Projects Meeting a LEED Standard

Attachment B, Table 2: Requirements for Projects Meeting the GreenPoint Rated Standard

Attachment B, Table 3: Requirements for All Non-residential Projects Not Required to Meet a LEED Standard

Attachment B, Table 4: Requirements for Residential Additions and Alterations

Attachment C: Instructions for Green Building Submittals

Forms for Submittal:

GS-1: Green Building Site Permit Submittal Form

GS-2: Green Building Submittal Form for LEED or GreenPoint Rated Projects

GS-3: Green Building Submittal Form for Other Non-Residential ~~Alterations,~~ Additions & New Construction

GS-4: Green Building Submittal Form for Non-residential ~~Interior-only~~ Alteration Projects

GS-5: Green Building Submittal Form for Residential Alteration, ~~+~~ Addition, and Accessory Dwelling Unit Projects

GS-6: Green Building Submittal Form for Municipal Projects

Attachment D: Supplementary Energy Compliance Documentation

Attachment E: Final Compliance Verification

Attachment F: Recommended Project Implementation Procedures

Attachment G: Selected Green Building Resources

Attachment H: Review of Energy Performance Requirements



Green Building Regulations : AB-93

Barry Hooper

February 18, 2026

SAN FRANCISCO

ENVIRONMENT

DEPARTMENT

Regulations Administrative Bulletin 93

Adopted in 2008, regularly updated

- References state codes and San Francisco amendments

Proposed revisions

- Update references to codes and standards
- Update website links

AB-093 Implementation of Green Building Regulations

NO. AB-093:

DATE: Effective January 1, ~~2023~~2026,
Revised December 13, 2023

SUBJECT: Administration and General Design

TITLE: **Implementation of Green Building Regulations**

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San Francisco Administrative Bulletins:

- 005: Procedures for Approval of Local Equivalencies
- 112: Implementation of Regulations for All Electric New Construction and Major Renovations

~~2022-2025~~ California Green Building Standards Code

San Francisco Environment Code, Chapter 7

~~2022-2025~~ San Francisco Building Code

DISCUSSION: Approved construction documents and completed projects must conform to the

**SFGBC 2025
harmonized with
California 2022
codes**



Image: SFE staff

CalGreen 2023: EV Charging Expands

New residential

- One 20A 208/240V receptacle per parking space or per unit, whichever is less.
- Circuit shall originate at the panel serving the unit
- Level 2 EV chargers at 25% of unassigned parking spaces

New hotel/motel

- Level 2 EV chargers at 25% of spaces
- 20A 208/240V receptacles at 40% of spaces



CalGreen 2023: EV Charging Expands

Residential Alterations

- Each parking space altered or added shall have minimum 20A 208/240V receptacle or Level 2 charger

Non-residential New Construction and Alterations

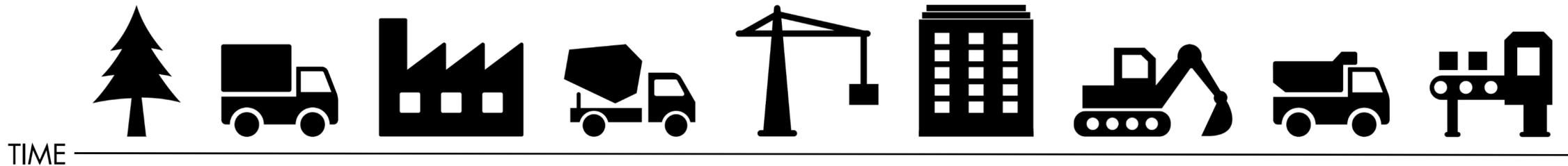
- 15% of spaces: EV Capable (40A 240V circuit)
- 5% of spaces: Install EV charger



CalGreen 2025

Embodied Carbon

The sum impact of all the greenhouse gas emissions attributed to materials throughout their life cycle.



CalGreen 2025: Embodied Carbon

Non-residential New Construction $\geq 50,000$ sq ft shall either:

- Conduct a life cycle assessment demonstrating minimum 10% reduction in global warming potential (GWP), excluding operating energy.

OR

- Use Environmental Product Declaration(s) to select common materials that meet GWP limit (Table 5.409.3) .

OR

- Reuse 45% or more of the existing building's structure and enclosure - excluding window assemblies, insulation, and hazardous materials. (Alterations & additions only)



5.409.3 Product GWP Compliance—Prescriptive Path

Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

**TABLE 5.409.3
PRODUCT GWP LIMITS**

| BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY ¹ | MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) (GWP _{allowed}) | UNIT OF MEASUREMENT |
|--|---|---------------------------------------|
| Hot-rolled structural steel sections | 1.77 | MT CO ₂ e/MT |
| Hollow structural sections | 3.00 | MT CO ₂ e/MT |
| Steel plate | 2.61 | MT CO ₂ e/MT |
| Concrete reinforcing steel | 1.56 | MT CO ₂ e/MT |
| Flat glass | 2.50 | kg CO ₂ e/MT |
| Light-density mineral wool board insulation | 5.83 | kg CO ₂ e/1 m ² |
| Heavy-density mineral wool board insulation | 14.28 | kg CO ₂ e/1 m ² |
| Concrete, Ready-Mixed^{2, 3} | | |
| CONCRETE PRODUCT CATEGORY | MAXIMUM GWP ALLOWED VALUE (GWP _{allowed}) | UNIT OF MEASUREMENT |
| up to 2499 psi | 450 | kg CO ₂ e/m ³ |
| 2500-3499 psi | 489 | kg CO ₂ e/m ³ |
| 3500-4499 psi | 566 | kg CO ₂ e/m ³ |
| 4500-5499 psi | 661 | kg CO ₂ e/m ³ |
| 5500-6499 psi | 701 | kg CO ₂ e/m ³ |
| 6500 psi and greater | 799 | kg CO ₂ e/m ³ |
| Concrete, Lightweight Ready-Mixed² | | |
| CONCRETE PRODUCT CATEGORY | MAXIMUM GWP ALLOWED VALUE (GWP _{allowed}) | UNIT OF MEASUREMENT |
| up to 2499 psi | 875 | kg CO ₂ e/m ³ |
| 2500-3499 psi | 956 | kg CO ₂ e/m ³ |
| 3500-4499 psi | 1039 | kg CO ₂ e/m ³ |



Thank you!

Barry Hooper

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San Francisco Environment Department

SFEnvironment.org



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ENVIRONMENT
DEPARTMENT

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