C. ELECTRICAL

2. Wire sizing and terminations shall be in conformance with the sixty-degree (60°/75°) column of CEC Article 690.31. 

3. Panels and modules installed on dwellings shall not be placed on the portion of a roof that is below an emergency escape and rescue opening. A pathway not less than 36 inches (914mm) wide shall be provided on site for emergency escape and rescue opening. 

4. All external roof outlets and output circuits shall be protected from physical damage and comply with the following:

a. The outlet(s) shall be marked with a sign engraved in a contrasting color to the placard, include the location of meter, disconnects, and critical load centers, and site. The placard shall be metal or plastic, with engraved letters in a contrasting color to the placard, include the location of meter, disconnects, and critical load centers, and site. The placard shall be metal or plastic, with engraved letters in a contrasting color to the placard, include the location of meter, disconnects, and critical load centers, and site. The placard shall be metal or plastic, with engraved letters in a contrasting color to the placard, include the location of meter, disconnects, and critical load centers, and site.

b. The outdoor, interior, and exterior DC conduit, raceway, enclosures, and cable assemblies, shall be provided with pop-rivets, machine screws, or other approved fasteners. Refer to the sample for standard equipment and disconnects in the space for further requirements.

c. Electric service panels shall be grounded with a grounding electrode(s) that complies with CEC Article 690.47. 

d. Ducts shall be provided on site.

E. GREEN BUILDING STANDARDS CODE (CALGREEN)

1. Construction waste management plan: A construction waste management plan shall be prepared and available on site during construction. Documentation demonstrating compliance with the plan shall be accessible during construction for the enforcing agency. (CalGreen 4.407.7) The plan:

a. Identification and documentation of the materials and equipment used on the project or salvaged for future use or sale.

b. Specify that construction and demolition waste materials shall be diverted and measured.

c. Specify that the amount of construction and demolition waste diverted shall be calculated by weight or volume, but not by both.

P. BATTERY BACKUP SYSTEM (BBS) AND ADVANCE ENERGY STORAGE (AES)

1. General Requirements:

a. All battery, BBS, and AES systems shall be installed in accordance with the CEC and the manufacturer’s installation instructions. Approved procedures and all reference documents shall be available on site for inspection verification. (CEC 690.53) 

b. Critical loads and critical loads centers shall be clearly identified and load calculations shall be available on site for inspection verification. The residential total battery storage system, wiring, and conductor sizing shall be calculated in accordance to CEC 690.6 (A) (4) and (690.6 (D)) and (690.6 (E)). 

c. All photovoltaic system using utility-interconnect inverters to control state-of-charge by diverting excess power into utility system shall comply with CEC 690.72 (B) (2).

d. All photovoltaic power system employing energy storage shall also be marked with the maximum operation voltage, including any equalization voltage and the polarity of the general circuit conductor per CEC 690.56.

2. Electrical Requirements:

a. All battery, BBS, and AES systems shall be protected from physical damage and comply with CEC Article 690.6 (A) through (B).

b. All battery, BBS, and AES systems shall be protected from physical damage and comply with CEC Article 690.6 (A) through (B).

SAMPLE PLACARD FOR ALTERNATE POWER SOURCE

This is a sample placard required when there is an alternate source of power connected to the primary wiring system. Specify the type of generation, such as a stationary engine generator, solar photovoltaic (PV) array, wind turbine, batteries, fuel cell, etc. The sample placard shall be attached to the service disconnect with pop-rivets, machine screws, or other approved fasteners. The sample for standard equipment and disconnects in the space for further requirements.