The entire distribution box is painted white



Overview

PG&E distribution assets are prohibited from being painted by any other than those in the employ or contracted by PG&E.

Key Takeaways

A distribution box painted entirely white provides both aesthetic appeal and functional benefits, including corrosion protection and easier inspection of components.Material and Coating

Distribution boxes can be made from metal or high-quality plastic. Metal cabinets are often constructed from cold-rolled steel with thicknesses of 1.2mm to 1.5mm and can be powder-coated or painted white for durability and corrosion resistance . Plastic boxes, such as those made from ASA (Acrylonitrile Styrene Acrylate), can also be painted or molded in white, offering weather resistance and impact protection while maintaining a clean appearance .

Functional Benefits

Painting the entire distribution box white can help in heat reflection, reducing internal temperature, which is particularly useful for metal enclosures housing sensitive electrical components . White surfaces also make it easier to spot dirt, dust, or potential leaks, aiding in maintenance and inspection.

Customization and Design

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White-painted distribution boxes can be customized in size, layout, and internal components to meet specific electrical distribution needs. This includes adjustable shelves, mounting plates, and precise cutouts for wiring and ventilation . The painting process can include powder coating or liquid paint, ensuring a uniform finish that protects against environmental factors.

Safety and Compliance

Regardless of color, distribution boxes must comply with electrical safety standards, including proper insulation, grounding, and protection against dust and moisture (e.g., IP65 rating for outdoor installations), . A white-painted box does not compromise safety but can enhance visibility of labels, warnings, and internal components.

Aesthetic Considerations

A fully white distribution box is often chosen for modern or clean interior designs, blending seamlessly with walls or ceilings. It can also serve as a neutral base for additional markings, labels, or decorative elements if required . In summary, a white-painted distribution box combines durability, safety, and visual clarity, making it suitable for both industrial and residential applications while allowing for extensive customization and maintenance efficiency .

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Each box surface is covered with a uniform and fine white electrostatic powder coating. The corners are neatly bent

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I know it''s against code to paint the interior of a distribution panel. What are the reasons? See attached picture.

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