

How to measure the dimensions of a concealed electrical box



AI Overview

Standard concealed electrical boxes typically measure 80mm in diameter and 55mm in depth, with variations depending on device type, gang count, and compliance standards.

Standard Dimensions

For European concealed wiring systems, typical box dimensions are 80mm in diameter and 55mm in depth, following EN 60670 standards to ensure safety and compatibility with switches and outlets . Depth may increase to accommodate devices that project rearward from the mounting plane, with a minimum depth requirement of 12.7mm for empty boxes . In the U.S., wall-mounted boxes are often sized by gang count, with single-gang boxes around 2×3 inches and deeper versions available for GFCIs, dimmers, or smart switches .

Material and Construction

Concealed boxes are commonly made from galvanized iron (GI), steel, or high-quality plastics like ABS/PC, providing durability, corrosion resistance, and electrical safety . Metal boxes are preferred for structural strength, while plastic boxes are lightweight and easier to install in retrofit applications.

Compliance and Ratings...

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