

## Leave a hole in the wall of the distribution box



### Overview

Cutting Boxes into Existing Walls and Ceilings If existing house wiring is in good condition and an existing circuit has the capacity for an additional outl.

### Key Takeaways

When installing a distribution box in a wall, you should leave a reserved hole slightly larger than the box dimensions to ensure proper fit, stability, and safety. Recommended Hole Dimensions and Placement

For a concealed installation, the reserved hole should be about 20mm larger than the length and width of the distribution box to allow for proper fitting and plastering on the inner wall surface. The depth of the hole should equal the thickness of the distribution box plus the thickness of the plaster layer that will cover the wall . This ensures the box sits flush with the wall surface and allows for a neat finish.

#### Installation Considerations

- Firm Fixing: The box should be secured firmly within the wall. When embedding in masonry, concrete can be filled between the box and the wall to stabilize it .
- Alignment: Ensure the box is installed horizontally and vertically, with vertical deviation not exceeding 3mm .
- No Gaps: During concealed installation, there should be no gaps around the box, and the edges should be close to the wall. The contact surfaces can be coated with anti-corrosion paint for durability .

- **Accessibility:** Even though the box is embedded, it should remain accessible for maintenance and inspection. Proper labeling and neat wiring inside the box are essential for safety and troubleshooting .

#### Safety and Wiring

- **Wire Connections:** Connect input and output wires to the designated terminals, following color coding standards. Ensure all connections are tight and secure to prevent electrical hazards .
- **Heat Dissipation:** Leave some space inside the box for heat dissipation and avoid tangling wires or contact with sharp edges .
- **Protection Devices:** Install circuit breakers, fuses, or RCDs as required for each circuit to ensure safety . By following these guidelines, leaving a properly sized hole in the wall will allow the distribution box to be securely embedded, safely wired, and easily maintained, while maintaining a clean and professional finish.

## Article Content

### Receptacle Boxes and Cable Installation Codes

By installing the appropriate electrical boxes in the right manner, you'll have a safe and great looking installation. The

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

