

Legrand LEG90509

Legrand Ecobatibox Low Energy Recessed Box User Manual

Model: LEG90509

1. INTRODUCTION

The Legrand Ecobatibox Low Energy Recessed Box (Model LEG90509) is designed for secure and energy-efficient electrical installations in residential and commercial buildings. This box is specifically engineered for use with drywall and plasterboard, offering a robust and airtight solution that complies with modern thermal regulations. Its design facilitates easy installation of electrical outlets, switches, and other equipment, contributing to improved indoor air quality and energy performance.

2. SAFETY INFORMATION

WARNING: Electrical installations should only be performed by qualified personnel in accordance with all local and national electrical codes and regulations. Failure to follow these instructions can result in electrical shock, fire, or serious injury.

- Always disconnect power at the main circuit breaker or fuse box before beginning any electrical work.
- Use appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Ensure all wiring connections are secure and properly insulated.
- Do not exceed the maximum current or voltage ratings for the installed devices.
- Verify that the product is suitable for the intended application and environment.

3. PRODUCT OVERVIEW

The Legrand Ecobatibox is a recessed electrical box designed for flush mounting in walls. Key features include:

- **Material:** Durable plastic construction.
- **Dimensions:** Approximately 1.97"D x 2.83"W x 2.8"H (50mm depth, 72mm width, 71mm height).
- **Drilling Diameter:** 67mm for installation.
- **Stations:** Designed for 2 posts/stations.
- **Airtight Design:** Complies with thermal regulations for low-consumption and passive homes, improving energy efficiency and indoor air quality.
- **Cable Entries:** Features multiple inputs with detachable tabs for easy passage of electrical conduits.

- **Fixation:** Wide flange and robust locking mechanism for secure installation in plasterboard, plywood, wood, or sheet metal.



Figure 1: Front view of the Legrand Ecobatibox Low Energy Recessed Box (2 stations).



Figure 2: Side view showing cable entries and internal structure of the Ecobatibox.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the Ecobatibox recessed box:

1. Prepare the Wall:

- Ensure power is disconnected at the main circuit breaker.
- Mark the desired location for the electrical box on the drywall or plasterboard.
- Using a 67mm hole saw, carefully drill a circular opening at the marked location.

2. Prepare Cable Entries:

- Identify the required cable entry points on the Ecobatibox.
- Carefully detach the appropriate tabs to create openings for your electrical conduits. The flexible rubber seals ensure airtightness.

3. Insert Cables and Box:

- Feed the electrical conduits through the prepared cable entries into the box.
- Insert the Ecobatibox into the drilled opening in the wall, ensuring it sits flush with the wall surface.

4. Secure the Box:

- The box features a locking mechanism with screws. Tighten the screws to engage the internal clamps, securing the box firmly against the plasterboard or drywall.
- Ensure the box is level before fully tightening.

5. Wiring and Device Installation:

- Proceed with wiring your electrical device (switch, outlet, etc.) according to its specific instructions and local electrical codes.
- Mount the electrical device to the Ecobatibox using the provided screw holes. The screws are designed to be robust and of good length.

6. Final Check:

- Once the device is installed and covered, restore power at the main circuit breaker.
- Test the functionality of the installed device.

5. OPERATION

The Legrand Ecobatibox is a passive component designed to house electrical devices securely within a wall. Once installed, its primary function is to provide a safe, compliant, and airtight enclosure for electrical connections and devices. The operation of the electrical devices housed within the box (e.g., switches, outlets) is independent of the box itself and should be managed according to their respective user manuals.

6. MAINTENANCE

The Ecobatibox is designed for long-term, maintenance-free operation.

- **Periodic Inspection:** Periodically inspect the visible parts of the installation for any signs of damage, loose connections, or wear.
- **Cleaning:** If necessary, gently clean the exterior of the installed device and surrounding wall plate with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Professional Check:** For any concerns regarding the electrical installation, consult a qualified electrician.

7. TROUBLESHOOTING

The Ecobatibox itself is a static component and does not typically require troubleshooting. Issues usually arise from the electrical devices installed within it or the wiring.

- **Device Malfunction:** If an electrical device (switch, outlet) is not working, first check the circuit breaker. If the breaker is tripped, reset it. If the problem persists, consult the device's manual or a qualified electrician.
- **Loose Connections:** If an electrical device intermittently fails, there might be a loose wire connection.**WARNING:** Disconnect power before inspecting any wiring. This should only be done by a qualified electrician.
- **Air Leakage:** If you suspect air leakage around the box, ensure the box was properly installed and secured, and that all cable entries are sealed by the flexible tabs.

8. SPECIFICATIONS

Attribute	Value
Brand	Legrand
Model Number	LEG90509
Material	Plastic
Color	Yellow
Style	2 posts
Product Dimensions (D x W x H)	1.97"D x 2.83"W x 2.8"H (approx. 50mm x 72mm x 71mm)
Drilling Diameter	67mm
Installation Type	Recessed (Ecobatibox)
Item Weight	1.41 ounces
Usage	Indoor
Compliance	Compliant with new thermal regulations (Energy Class A)

9. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the official Legrand website or contact Legrand customer support directly.

Legrand Customer Support: Please visit www.legrand.us (or your regional Legrand website) for contact information, FAQs, and additional resources.

