

Electrical Installations in Spanish Homes

A Practical Guide for Owners and Professionals (REBT Edition)

Ramón Antonio Fernández Do Campo
Advanced Expert in Electrotechnical Facilities – BTEC Level 4 (HNC)

INTRODUCTION

Why this guide?

If you own a home in Spain, whether you live here full-time or just enjoy the holidays, chances are you have thought about adding sockets, installing ceiling fans, or upgrading your electrical system. But where do you start? What does Spanish regulation require? And why does the RCD keep tripping?

This guide is here to help. It is a practical reference for anyone who wants to understand and work with electricity in Spanish homes — safely, confidently, and in full compliance with the REBT (Spain's official Low Voltage Regulation).

Who it is for?

Homeowners and DIYers who want to make improvements without relying on an electrician for every small task.

Builders and tradespeople looking to expand their services and work legally under Spanish standards.

Anyone curious about how electricity works in their Spanish property — even if they do not plan to touch a cable.

Whether you are rewiring a kitchen or just replacing a light fitting, this manual gives you the knowledge to do it right.

What Will You Learn?

- ✓ How electricity works in homes: voltage, current, power, and safety
- ✓ How to choose the right cable, breaker, and protection device
- ✓ Which circuits are mandatory under Spanish law?
- ✓ How to plan and install safely — surface-mounted or recessed
- ✓ How to create a proper earthing system
- ✓ What you can do yourself, and what must be certified by a licensed installer

This is not just theory. It has practical, field-tested knowledge — explained clearly, with real-world examples and no unnecessary jargon.

All content in this guide follows the REBT, Spain's mandatory electrical regulation. The official text is only available in Spanish, so this book offers a clear English adaptation — not a legal substitute, but a practical tool for understanding and applying the rules.

If you want to consult the official regulation, you will find it here: BOE – Spanish State Gazette

Final word

Electricity is invisible, powerful, and unforgiving. But with the right knowledge, it becomes manageable — even empowering. This guide gives you the tools. The rest is up to you.

Welcome to the journey.

Ramón Antonio Fernández Do Campo

Advanced Expert in Electrotechnical Facilities (BTEC Level 4 / HNC)

Copyright & Legal Disclaimer

Copyright © 2025 Ramón Antonio Fernández Do Campo All rights reserved. First digital edition: 2025.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means — electronic, mechanical, photocopying, recording, or otherwise — without prior written permission from the author.

Legal Disclaimer

This manual is intended for educational and informational purposes only. In Spain, electrical installations in residential buildings must be conducted and certified by authorised professionals, in accordance with the Reglamento Electrotécnico para Baja Tensión (REBT).

Only duly qualified installers can issue an official electrical installation certificate (boletín). This guide does not replace professional certification or legal compliance.

The aim of this manual is to:

- ✓ Provide technical knowledge for safe and informed electrical work.
- ✓ Help users prepare installations that can later be certified.
- ✓ Support collaboration with certified electricians.
- ✓ Expand professional skills in construction and renovation.
- ✓ Enable minor repairs and improvements with confidence.

⚠ Improper handling of electricity can cause serious injury, death, or property damage. If in doubt, always consult a certified professional.

About the Images: Some product images and diagrams in this manual have been adapted from publicly available sources, including commercial websites such as Leroy Merlin España and official regulatory documents such as the REBT. All rights belong to their respective owners. These illustrations are used for educational purposes only, to support understanding technical concepts and components. No endorsement or affiliation is implied. If any image is subject to copyright and its use is contested, it will be removed or replaced upon request.