

# Electrical Specifications

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## For Mangosteen Villas, Rawai

## Description

### Electrical Design

The complete electrical design is done with ACAD with the integration of architectural, structural, interior and furniture arrangements. The design is based on European standards.

### Electrical Installation Standards

The electrical installation standard is based on European law requirements in accordance with Thai Law requirements and specifications.

- Power cables, wires: all cables and wires are in a separate conduit
- Telephone, TV, Data cables: all cables are in a separate conduit
- Grounding: all power outlets are grounded
- Earth leakage protection: all power points and where necessary lights are protected against earth leakage with an earth leakage breaker (ELCB / FI)

### Electrical Materials used

Main aim is to use locally produced electrical products. When the quality of such products doesn't reach expectations requested imported products are used.

Material	Producer	Country
Cables, Wires	Bangkok Cable, Pirelli, Sattel	Thailand, Italy, Germany
Phone & Data	Krone	Germany
TV	Belden	USA
Breakers	ABB	Asia
Outlets, Switches	Panasonic	Asia
Light Fittings	Local	Asia
Halogen Light bulbs	Osram	Germany
Fluorescent bulbs	Philips	Asia
Conduit (HDPE)	TAP	Asia
Load Centers	Hager / Rittal	Europe / Germany