



CUSTOMIZED SERVICES

- **Adapted** training on the software
- **Technical support** provided by specialists
- **Personalized support** for the installation and deployment of our solutions for your company



Electrical installations
from design to operation
using digital models

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ALPI
smart electrical modeling solution

Credits : Autodesk - Stock : Easyturn / doranjdark / MarioGuti /
Claudio Ventrella / Georgijevic / TommiL / Bim - Flatiron

The **BIMelec** solution

Automated solution: electrical installations from design to operation using **digital models**



What is a digital electrical model?

The digital model of a building is a geometrical representation of all its components created using a program or 3D digital platform. It contains all the technical information required to describe, model, design, build and operate a structure. It is the end result of BIM (Building Information Modelling), a continuous enrichment process which is achieved by all those involved.

This digital electrical model provides all the information for the electrically connected systems and equipment.

What is the BIMelec solution?

The BIMelec solution proposed by ALPI, consists of a series of interconnected software that use and enrich the digital electrical model - from its generic modelling to the detailed description of all the manufacturer products and elements that it comprises.

The BIMelec solution, via the Caneco software range, automatically responds to the different particularities of an electrical installation: i.e. the laying and routing of cables, the calculation and sizing of equipment and the diagram design.

It also includes all the associated support services.

For whom is the BIMelec solution intended?

The BIMelec solution is aimed at everyone involved in electrical installations: i.e. project managers, engineers, control authorities, operator and maintenance services.

It promotes the sharing of information and collaboration amongst all these entities.

What tools are required for the BIMelec solution?

It is based on the following software tools:

- **Caneco BT**, automated **design software for low voltage electrical installations**.
- **Caneco BIM**, software for the **design and control of a digital electrical model** in Revit®.
- **Caneco Implantation**, software for **automated wiring and cable routing** in AutoCAD®.



Advantages

- **Information sharing and collaboration**, favoured by an easy access to the digital model and to its viewing.
- **Improved preparation**, development, building site monitoring and operation of the structure, thanks to the increased design quality.
- **Lower design costs** thanks to a new process and a better reusability of information.
- **Reduction of installation costs** linked to defective and faulty design, by optimizing equipment and anticipating conflicting situations.



The BIMelec solution software



Design and control of a digital electrical model in Revit®:

- Data integrity control
- Additional tools to enhance design
- Gateway for communication with the Caneco software range
- Integration of electrical data into the digital model



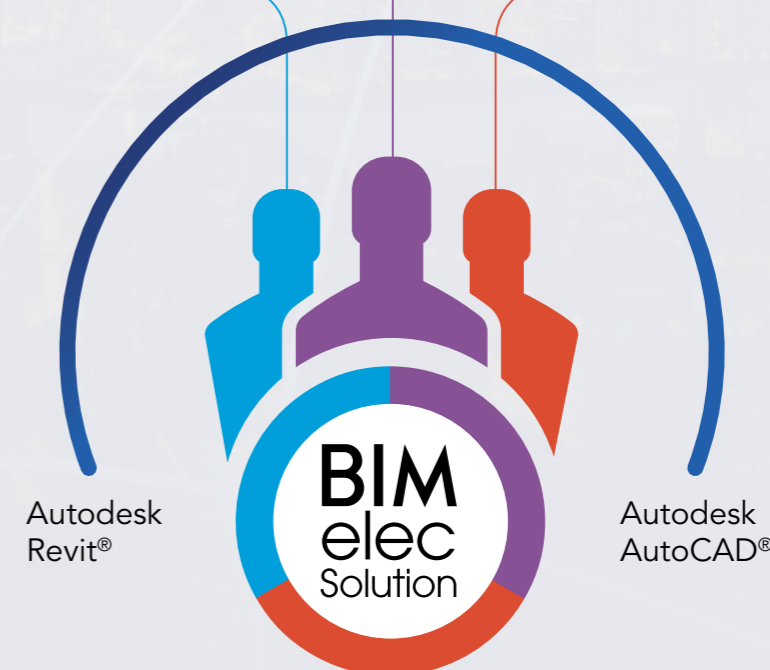
Automated design for low voltage electrical installations:

- Standard-based calculations and sizing of devices
- Discrimination and backup
- Schematic power diagrams
- Detailed technical documentation
- Effective data exchange



Automated wiring and routing in AutoCAD®:

- Installation of electrical equipment
- Managing and routing of cables
- Dimensioning of cable trays
- Production of a cable schedule for cross-section and laying
- Bill of materials



ALPI is an Autodesk AEC (Architecture, engineering and construction) Industry Partner, editor of Revit® and AutoCAD® applications.