CUSTOMIZED SOLUTIONS

DISTRIBUTION BOXES

From idea to implementation and delivery to the construction site.
“With our smart system distribution box, individual rooms or even entire office stories can be reorganized, even retroactively!”

ROBERT GERHÄUSSER
Head of Building Installation Sales Germany
SYSTEM DISTRIBUTION BOXES

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System distribution boxes
WE OFFER:

+ DISTRIBUTION BOXES
+ ROOM AUTOMATION
+ BUILDING AUTOMATION
+ I&C DISTRIBUTION BOXES
+ LOAD/EXHIBITION DISTRIBUTION BOXES
+ DISTRIBUTION BOXES FOR OUTDOOR USE
+ POWER + SIGNAL DISTRIBUTION
+ MINI DISTRIBUTION BOXES

SMART DISTRIBUTION BOXES FOR FLEXIBLE BUILDINGS.

Wieland is your experienced and reliable partner for efficient + pluggable solutions for decentralized distribution boxes. Your projects benefit from smart and rational power & signal distribution solutions. Meet demanding planning and realization time lines with a flexible system capable of accommodating any future design changes.

Wieland will support you every step of the way, from planning to delivery.

• Our field sales staff will gladly offer you on-site advice.
• Our project team will help you implement your solution and meet deadlines.
• Our production team has years of experience in meeting project requirements.
• Our office sales team will answer any other questions you may have.

**PLANNING**
From conceiving the initial concept to inviting tenders, our experienced staff will accompany your project on site and in Bamberg.

**INVITING TENDERS**
We will help you to define requirements, and draw-up the tender text and cost estimate that meets your system needs.

**FINALIZING**
We will manufacture the distribution boxes according to your requirements, picked and delivered, together with other components, to your desired location.
CENTRALIZED DISTRIBUTION.

Equipment: 8 lighting groups, 8 sunblind groups, 4x local operation

CENTRALIZED SPECIFICATIONS

UTILITY ROOM (100 %):
- 8 pitch units lighting actuators
- 8 pitch units sunblind actuators

CABLE LENGTHS (100 %):
- 85 m lighting (3G1.5 mm²)
- 110 m sunblinds (4G1.5 mm²)
- 25 m bus cable (2x 2x 0.8 mm Ø)

TRAY WIDTH (100 %)
- Copper (100 %)
- Fire load (100 %)
DECENTRALIZED DISTRIBUTION.

Equipment: 8 lighting groups, 8 sunblind groups, 4x local operation

DECENTRALIZED SPECIFICATIONS

UTILITY ROOM (UP TO 50 %):
- 2 pitch units lighting protection
- 2 pitch units sunblind protection

CABLE LENGTHS (30 %):
- 15 m flat cable (5G2.5 + 2x 1.5 mm²)
- 25 m lighting (3G1.5 mm²)
- 25 m sunblinds (4G1.5 mm²)
- 4 m bus cable (2x 0.5 mm²)

TRAY WIDTH (60 %)
- Copper (50 %)
- Fire load (40 %)

ADVANTAGES
- Fast, easy, and safe installation.
- Standardized interfaces for fast replacement.
- High functional reliability through prevention of mismating.
WHAT OUR DISTRIBUTION SYSTEMS OFFER.

APPLICATIONS FOR DECENTRALIZED INSTALLATION
• Distribution tasks, such as two separate networks.
• Protection e.g. from a 10 mm² flat cable to 2.5 mm² local wiring.
• Building automation devices.
• I&C electronics.
• Overvoltage protection.
• Any combinations of the above.

PLANNING
• Small units able to be planned effectively.
• Reduced inventory with fewer different types per building.
• Customizable.
• Eliminates the need for individual wiring terminal diagrams.
• Promotes straightforward cable layouts.
• Cost savings through reduction in overall cable lengths.
• Step-by-step Support from Wieland.

SAFE INSTALLATION
• Reduced guesswork with a high degree of prefabrication.
• Short installation times.
• Less paperwork (plans are included with the delivery).
• Advance integration and clear interfaces.

YOUR BENEFITS
+ Reliable measurements of project costs & time lines
+ Easy planning – streamlined structures
+ Flexible room configurations now – in the future – safe
INTERFACES BETWEEN CONTRACTORS
• Pluggability makes cabling, installation and commissioning easy to separate.
• The boundaries between responsibilities are clear.
• Good coordination between companies is possible.
• The construction process from cabling to commissioning is easy to organize.
• In the event of an error, pluggability makes analysis simple.

OPERATION
• Changes are easy to integrate.
• Error localization is supported by pluggability.
• System failures can be rectified by quickly replacing functional units.
• With good pre-planning, extensions are easy to introduce.
FROM IDEA TO IMPLEMENTATION.

IDEA
Future-oriented building plans call for innovative solutions. An installation that is decentralized and, if appropriate, pluggable allows for design upgrades and changes after implementation.

DESIGNING THE CONCEPT
We will gladly produce a concept for you to present to building owners or decision-makers.

TECHNICAL SUPPORT: Phone +49 951 9324-996 · E-mail: bit.ts@wieland-electric.com

CONTACT YOUR DESIGNATED ON-SITE CONTACT VIA OUR HEAD OFFICE:
Phone +49 951 9324-0 · E-mail: info@wieland-electric.com
INVITING TENDERS AND TENDERING
The invitation to tender is on the market. The contractors will receive the tenders from us and will apply to execute the project.

ORDERING
The contractor will confirm the accuracy of the planned execution by signing the distribution plans. Manufacture of the distribution systems will be initiated.

DELIVERY
The individually tested distribution box, with additional picks as applicable, will be delivered to the desired address as agreed.

FURTHER SERVICE
If anything else arises, our team on site and in Bamberg will be on hand to help you whenever you need us.

WORKING OUT THE DETAILS
In the pre-planning and design development phase, we will assist you with the implementation of your plan through to the estimation of costs and, finally, the invitation to tender.
All distribution systems are custom-made, with virtually no limits on models and potential applications. We will be happy to advise you on your unique requirements.

**SYSTEM DIVERSITY FOR YOUR APPLICATIONS.**

The distribution system can accommodate all I&C technology components that are needed for a building floor. We work closely with the contractors of the I&C systems of a building project.

**I&C DISTRIBUTION SYSTEMS & BUILDING AUTOMATION**

- Inclusion of all I&C I/Os for one floor area.
- Supplementing with power supply units.
- Support point wiring.
- Pluggable or direct connections.
- Provision of electronics.

**SMART ROOM AUTOMATION**

Coverage of defined areas with I/Os to automate lighting, sunblinds and room temperature.

- Inclusion of all I/Os of a room unit.
- Supplementing with power supply units.
- Support point wiring.
- Pluggable or direct connection.
- Electronics from Wieland or third party.

**SMART POWER/SIGNAL DISTRIBUTION**

These distribution systems are used to supply installation areas with energy or data. If necessary, they also take RCB/MB on.

- Distribution of energy and data.
- Decentralized protection.
- Wiring of simple circuits.
These distribution systems enable temporary structures, such as exhibition stands, to be electrified quickly.

IP 6X DISTRIBUTION BOXES (OUTDOOR USE)

- Waterproof and damp protection for systems exposed to weather conditions.
- Plastic housing from standard product ranges.
- Pluggable with RST®.
- Integration of all necessary components.

LOAD/EXHIBITION DISTRIBUTION SYSTEMS

- Power input with CEE.
- Connection to other distribution box with RST®POWER.
- Protection with RCB/MCB.
- Outputs pluggable with gesis®CLASSIC.

SMART MINI DISTRIBUTION BOXES

- Distribution of power.
- Prefabricated models.
- Simple circuits.
- Option to realize “distribution blocks” outside the standard range.

INSTALLATION COLUMN

- Inclusion of all automation devices for a room.
- Quick and uncomplicated installation.
- No interference with the fabric of the building/other works.
- Creates the floor/ceiling link for cable routing.
What does a building installation using our products mean for you?

1. **BASIC CONSIDERATION**
   A few fundamental questions should be clarified first.
   - What functions are to be integrated?
   - What electronics will be used?
   - Which room units will be controlled?
   - What construction space is available or will be needed?
   - Will the plant installation be pluggable?

2. **CONSULTATION**
   Contact us to arrange an appointment to clarify the necessary details. The objective is to produce specifications for the system distribution box, to draw up the tender text, and to work out a cost estimate.
   - Define electronics and fixtures.
   - Determine connection type.
   - Distribution box size and materials.
   - Optimize distribution box models and quantity structures.
   - Determine any necessary accessories, such as connectors or cable assemblies.

3. **INVITING TENDERS**
   You tender for the distribution boxes and accessories.
   - You receive a cost estimate from us.
   - We draw up the tender texts together (neutrally as well).
   - We handle the queries from installers.

4. **EXECUTION**
   The selected contractor orders the necessary components.
   - Wieland project manager is appointed.
   - A layout plan and an EPLAN are created.
   - Final approval of the distribution boxes by the contractor is received.
   - The distribution boxes are manufactured and individually tested in accordance with applicable standards and guidelines.
   - Hand over of documents and plans to the contractor.
THE PROCESS FOR YOU AS THE CONTRACTOR.

What will change in the installation and in the process?

1. ANSWERING TENDERS
   You create the cost calculation.
   • A quotation is requested from Wieland Electric in line with the tender.
   • More precise specifications may be necessary based on the tender.
   • As the system distribution boxes are customized, a net quotation is produced.

2. FINAL DESIGN
   After the contract has been awarded, you order the distribution boxes.
   • A Wieland project manager is appointed.
   • Layout and wiring are agreed upon.
   • Optimizations are targeted based on the actual conditions.
   • Delivery and logistics are discussed.
   • Drawings are produced by Wieland Electric.
   • Client gives go-ahead for production.
   • Samples provided as applicable.

3. PRODUCTION AT WIELAND
   The distribution boxes are made at Wieland in line with the agreements.
   • Sheet metal (or plastic) is worked and coated if applicable.
   • Electronics or other devices are integrated and wired, and the distribution boxes is labeled accordingly.
   • The distribution boxes are tested individually.

4. DELIVERY
   The distribution boxes are delivered to the desired location as agreed ready to be installed.
   • We supply the distribution boxes picked, together with other components.
   • Delivery is made to the desired location on time by a forwarding agent.
PRE-ASSEMBLY FOR FIXTURES.

ROOM FOR ALL ELECTRONICS

We fit any electronics into the distribution boxes.

• I&C or automation devices supplied by third-party manufacturers.
• Wieland room automation devices.
• Wieland power supply units and overvoltage protection.
• Terminal blocks for wiring.
• MCB/RCB.
• Consider adequate reserve.

INTEGRATION OF DEVICES

The possibilities are endless; the design depends on the components used.

• On rails of various profiles (H, G, C) flush to the floor or raised.
• Direct mounting on the distribution plate.
• Mounting on support plates/riveted or screwed.
• Rails set on bolts.
THERMAL LOAD

Vents may be necessary for integrating devices with a higher power loss.

ACCESSIBILITY OF THE DEVICES

The fixtures must be accessible for commissioning, operation or troubleshooting.

- Opening of the cover.
- Protruding through the cover.
- Protruding and covered with a flap.
- Sealable.

ELEMENTS FOR CABLE CONNECTION

Regardless of whether distribution boxes, pluggable or with cable entries, both models require built-in elements like snap-in or screw fittings.

- Can generally be built into any outer walls.
- Type of installation depends on type of connections.
- Consider adequate reserve and furnished with blind covers.
- Elements like snap-in or screw fittings.

SPECIFY WIRING

There are a few things to bear in mind so that the wiring is practical and conforms to standards. We will be happy to advise you.

- Type of cables (PVC, halogen-free, flammability).
- Temperature range of the cables.
- Cable cross sections.
- Separation of SELV from mains.
- Laying in ducts.
HOUSING MATERIAL.

We use a wide variety of materials for the distribution box housing depending on the application, area of use, and customer wishes.

**GALVANIZED SHEET STEEL**

Allows for the most options in distribution systems design. Standard material thickness is 1 mm.

**POWDER-COATED SHEET STEEL**

Galvanized sheet steel with high-quality powder coating in the RAL color spectrum is possible.

**PLASTIC**

Here we utilize standard market housing which is worked accordingly. Higher degrees of protection are achievable.

**DIE-CAST ALUMINUM**

If it needs to be really robust, standard market housing is used and worked.

**CUSTOMIZED IMPLEMENTATION**

+ Product advice
+ Execution as desired
+ Manufacture with desired material
CUSTOMIZED DISTRIBUTION BOX SIZES.

Virtually any size can be realized! We supply distribution boxes that are the size of a pack of tissues all the way through to room-high installation columns.

FEATURES

+ Flexible implementation
+ Special forms also possible
+ Convenient installation and commissioning

SOLUTIONS

• Distribution boxes made from sheet steel are designed to be very flexible. If the space requirement for electronics and/or interfaces to the outside world exists, the installation space is also taken into account for the calculation of the dimensions.
• For distribution boxes with electronics, a sufficient reserve absolutely must be built in for later adaptations.
• For simple wiring tasks, the compact “Gray and Blackbox” distribution boxes, GST15/18, and RST® distribution boxes are often used.
• For plastic housings and larger distribution boxes, we utilize standard products.
• The largest distribution boxes are the installation columns which are usually required to be room-high or above 3 meters.
ELECTRICAL INTERFACES.

When it comes to planning electrical connections to the outside world, we will provide you with expert advice so that we can come up with the best possible solutions together. These range from 100 % pluggability to a simple strain relief, from a sensor cable to high cross sections or from data to power connections.

**gesis® CLASSIC & gesis® MINI**
- IP20/40.
- Signals and energy (20 A).
- 2 to 6-pole.
- 230 V/400 V.
- SELV (bus systems and signals).
- Mechanical coding to prevent mismating.
- Many models.

**RST®**
- IP66/IP68/IP69.
- Signals and energy.
- 2 to 7-pole.
- 230 V/400 V.
- SELV (bus systems and signals).
- Mechanical coding to prevent mismating.
- Many models.

**revos® INDUSTRIAL CONNECTORS**
- Higher pole counts.
- Very robust.
- Hybrid connectors for signals and energy possible.
• Ethernet/PoE using connectors or various cable entries.
• KNX/LON and other SELV systems using BST connectors.
• DALI/SMI and other systems to be handled like 230 V using GST15/18 or RST®.

FEATURES
+ Screw fittings in all standard sizes
+ Blind covers possible
+ Convenient installation and commissioning

DATA CONNECTIONS

CONVENTIONAL ENTRIES
• Screw fittings in all standard sizes.
• Plastic or metal
• Entry flange.
• Comb rail for fixing cable in place.

OTHER
• Cables connected directly, e.g. adapter on gesis®NRG 5G10 mm².
• Earthing connection bolts with standard setup for ring cable lugs.
• Blind covers for Wieland connector systems.
• Blind covers for cable screw fittings.
COVERS + OPENINGS.

Cover protection with chain.

Cover protection with chain and snap hook.

All sheet steel covers have a ground connection.

Cover made of sheet steel or coated.

Full transparent cover made of acrylic glass.

Vents for better heat dissipation.

With hinged cover for protected access (sealable).

Cut-outs for direct access to control elements.

22 · System distribution boxes
CLOSURES + FASTENINGS.

CLOSURES

- 90° quick lock.
- Screwed.
- Punch/stamp.

FASTENINGS

- Hole in the floor plate.

FEATURES

- Tailored to your wishes
- Optimized for local conditions
- For the quickest possible installation

ANGLE BRACKET OUTSIDE

- Raised (thermally better, room for cabling).
- Keyhole.
- Long-slot (with cable duct fastening).
MARKINGS + IDENTIFICATION.

Markings are vital for plant installation, commissioning and operation. We will devise an informative marking concept with you for your distribution boxes.

SOLUTIONS

INPUTS/OUTPUTS
• Labels make every connection individually identifiable.

ADDRESS STICKERS/BUS SYSTEMS
• To identify bus nodes, the ID number of the fitted devices can be attached externally, also as a QR code or barcode.

GROUND CONNECTIONS
• Often identified by a stamp, but also by labels.

IDENTIFICATION
• Label with article number and other details.
INDIVIDUAL AND GENERAL TESTS.

Quality goes without saying for us, and we monitor this constantly through various tests. Our distribution boxes meet the standards and regulations that are fundamental to the intended use. Wiring tests, for example, are performed in principle for every single piece. Custom tests, such as function tests, are performed upon request.

SOLUTIONS

CHECKING THE PLANS
• Before the distribution boxes are made, the plans are presented to our customers for confirmation.

TESTS
• Visual inspections of the structures and wiring continuity checks are generally performed.
• Function tests can be carried out by arrangement.
• Test reports can be drawn up.
• CE marking and corresponding conformity documents can be produced.
• Distribution box production is supported by our laboratory and development department. Wieland Electric is DIN ISO 9001 and EMAS certified.

FEATURES
+ Testing according to international standards
+ Function test
+ Standards
SPECIAL CONSTRUCTION OF INSTALLATION COLUMN.

This distribution board of room height has been designed for the modernization and renovation of schools, but also for new buildings with a similar application. It contains all of the automation devices for a room and can be integrated quickly and completely without any complications.

DISTRIBUTION BOARD
Integrated to include all the components required in a room/area unit.

PROTECTIVE/SWITCHING DEVICES
• MCB/RCB, main switch
• Overvoltage protection

AUTOMATION DEVICES
• Sunblinds/lighting
• Room automation

NETWORK DEVICES
• Router
• Switches
• Power supply units

INFRASTRUCTURE
• Switches/sockets can be integrated.
• Loudspeakers, clock and warning devices can be integrated.
• Floor/ceiling link.
• Feed-through space for cabling on several stories.

INSTALLATION/MATERIAL
• Attachment to the wall without any chiseling work.
• Integration into the wall is possible.
• Chassis available in hundreds of decors and colors.
• High degree of prefabrication enables quick modification times.
• Several opening levels can be implemented as authorized.

+ Ideal for retrofits
+ Problem-free integration in existing buildings
DISTRIBUTION SOLUTIONS FOR YOUR PLANT TECHNOLOGY.

ADVANTAGES
+ Simple planning
+ Customized equipping
+ Customized express production
+ Installation-ready cabling

PLANNING TOOL
WIEPLAN CLICK2BUY
Easy customized planning with our configuration software
wieplan CLICK2BUY
WIECON® FSC
SUPER-FAST SIGNAL DISTRIBUTION.

With the FSC system you save time and space with signal cabling in the distribution boxes. Thanks to the integrated signal distribution with and without electronics, the completely pluggable system can be adapted individually to customer needs. Cable screw fittings are a thing of the past. Coding prevents any mismating. Installation is so easy and safe that no trained personnel are required.

FEATURES
+ Mistaken connections are impossible
+ 30 % space savings
+ Installation-ready delivery
+ 80 % less assembly time
+ Minimal preparatory work – only a sheet metal cut-out is required

WIECON® FSC ON YouTube
THE FUTURE OF SIGNAL WIRING.

Scan the QR code – Experience the future live.
• Reduction in distribution box size.
• Plugging instead of wiring.
• No specialists required for plugging the external wiring.
• Replaceable, maintenance-friendly components.
• Distribution box entry, signal distribution & electronics in one product.

PATCH CABLE | Y-CABLE

• 32 coding options.
• Extruded cable to the desired length.
• 3 to 6-pole.
• Cable shield applied to pole.
• Cable and coding 100 % checked.
• Cross sections 0.14 mm² - 1 mm².
• Cable marking with text/color.

TECHNICAL DATA

• Nominal voltage 24 V DC, nominal current 3 A.
• IP54 protection class.
• 10/12 slots (more upon request).
• UL and CSA approvals.
• Article numbers available upon request.
SPECIFICATIONS
DETAILS + PROCESSING.

1. DISTRIBUTION BOX SIZE
The size of the distribution box must be defined first. This is dictated by the following key points.

- Define fixtures, e.g. using the functions.
- Define interfaces to the outside world.
- Optimize distribution box types.
- Build in reserves.
- Pay attention to structural conditions.

2. SPECIFY DISTRIBUTION BOX
The details of the mostly mechanical properties of the distribution box are hammered out here.

- Define IP protection rating.
- Distribution box material.
- Coating/lacquering.
- Type and function of the cover.
- Type of fastening.
- Type of electrical connection (terminals or plugs).
- Type of cable entry.

3. FINALIZE DISTRIBUTION BOX
Define all services.

- Distribution box marking.
- Type of documentation.
- Other data required (certificates).
- Define inspection plan.

4. ACCESSORIES + DELIVERY PACKAGE
What is needed that is peripheral to the distribution box which must be included in the invitation to tender?

- Connector sets.
- Cable assemblies.
- Pre-assembled sensors/actuators for external placement.
- Special delivery wishes, such as delivery picked based on progress of construction/area plan.

5. INVITATION TO TENDER + COST ESTIMATE
Once points 1–4 have been completed, tenders are invited/costs are estimated.

- Tender text is drawn up by Wieland and checked by the planner.
- The distribution box costs are estimated for the planner.
- The invitation to tender is finalized.

6. CONTRACT PLACEMENT + ORDERING
Wieland guarantees optimal order fulfillment.

- Tender creation in accordance with invitation to tender to the requesting companies.
- Order placement with Wieland after approval of the now issued layout and wiring plans.
- Delivery as agreed (schedule, delivery quantities, picking).
**DELIVERY OF THE DISTRIBUTION BOXES.**

**DELIVERY OPTIONS:**
- Packaging and shipping containers.
- Pallets and containers on pallet.
- To the construction site and optionally also within a preset time frame.
- To your warehouse.
- With our logistics partner.
- By the forwarding agent chosen by the customer by arrangement.

**PICKING OPTIONS:**
- Distribution box per area units.
- Plus cables.
- Plus accessories.
- Plus plug sets.

The details will be discussed with your project manager during the course of the project.

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**PLANS**

**WE DELIVER:**
- Layout plans
- Wiring plans
- Parts lists
- All in PDF format

**BY ARRANGEMENT WE DELIVER:**
- Paper
- EPLAN, wiring
- 3D data
- Layout dxf
- Inspection plans
- Test reports

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**DATA SHEET + CERTIFICATES**

**BY ARRANGEMENT WE DELIVER FOR ALL WIELAND COMPONENTS:**
- Data sheets
- CE declarations of conformity

**BY ARRANGEMENT WE DELIVER FOR THIRD-PARTY DEVICES:**
- The documents available from the original manufacturer.

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**DOCUMENTATION FOR YOU.**

**PLANS**

**WE DELIVER:**
- Layout plans
- Wiring plans
- Parts lists
- All in PDF format

**BY ARRANGEMENT WE DELIVER:**
- Paper
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- 3D data
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**DATA SHEET + CERTIFICATES**

**BY ARRANGEMENT WE DELIVER FOR ALL WIELAND COMPONENTS:**
- Data sheets
- CE declarations of conformity

**BY ARRANGEMENT WE DELIVER FOR THIRD-PARTY DEVICES:**
- The documents available from the original manufacturer.
Architects and electrical planners cannot perform their jobs without software planning tools, especially when reliable information regarding project scope, scheduling and cost estimates is required.

Wieland Electric offers the gesis®PLAN software for planning pluggable electrical installations with gesis®. This conceptual planning tool uses CAD building data to generate installation drafts as well as parts and price lists.

GESIS®PLAN OFFERS:
• Option to import DWG/DXF/JPG/PNG (PDF) files.
• Use of assembly levels.
• Placement of components in the room.
• Laying of cables in the room.
• Conflict check (voltage drop, etc.).
• Generation of parts lists.
• Animation of drawings.

GESIS®PLAN IS FREE:
Be a smart planner too and request gesis®PLAN by e-mail free of charge:

gesisplan@wieland-electric.com
SMART SERVICING + SERVICES.

PLANNING SUPPORT
From conceiving the initial concept to inviting tenders, our experienced staff will accompany your project on site and in Bamberg.

- Planning the dimensions.
- Conceiving and defining electrical interfaces.
- Planning the installation.
- Planning the fastenings.

INVITATIONS TO TENDER
Where necessary, we work with our customers to draft the necessary tender texts.

- With neutral wording for public invitations to tender.
- In text form (.txt or .docx).
- In GAEB.
- Also in other formats by arrangement.
INTEGRATION COMPONENTS
Functional components such as circuit breakers, automation devices, power supply units and so on have to be integrated into the distribution box.

PICKING OF DELIVERIES
To fit in with the building processes, we can pick the distribution boxes together with other components and deliver them to the construction site promptly.

CALCULATIONS, STANDARDS, TESTS
The distribution boxes are manufactured and individually tested in accordance with applicable standards and guidelines.

LABELING + MARKING
Marking the inputs/outputs and attaching labels or identification numbers is essential for the creation and operation of equipment.

EXECUTION DOCUMENTS
The necessary documents for the distribution boxes are provided digitally, and also in another format as an option according to customer wishes. This saves our customers a lot of detail work.