wieland

gesis® INS

Distribution box for room solutions – Installation and automation

User manual

Doc. No. BA001283
Last Update: 06/2022 (Rev. A)

NOTES

TABLE OF CONTENTS

1 ABOUT THIS MANUAL

Please read this chapter carefully before using the user manual or the products.

1.1 Scope of application

This manual is valid for the following product family: Distribution box - gesis® INS.

1.2 Function of this document

This manual supports you in the project planning electrical systems and the assembly, installation, commissioning, maintenance and disposal of the distribution boxes. You will find notes on how the devices can be implemented.

This document contains the information required for the intended use of the device as well as technical data. It describes the technical characteristics and how to use the system components.

Hand over the documentation to the owner after successful installation and/or initial commissioning.

1.3 Target group

This manual is intended for:

- Those who can prove that they have the corresponding training and already have corresponding basic knowledge of project planning and commissioning electrical installations.
- System integrators
- Electricians
- Operator of the electrical system

1.4 Function and structure of this manual

This user manual provides technical staff with information about the installation, operation and functionality of the gesis® INS distribution box.

NOTE You can find further information on our website www.wieland-electric.com or via the QR code.

1.5 Symbols and notations

DANGER

The symbol "DANGER" indicates an immediate danger. Failure to observe this symbol may result in serious injury or death.
"DANGER" is used to warn against risks that already apply at the time of the warning (e.g. hot surfaces, sharp edges, pinch points, etc.).
It is used exclusively in danger of personal injury!

WARNING

The "WARNING" symbol indicates a possible danger. Failure to observe this symbol may result in serious injury.

CAUTION

The "CAUTION" symbol indicates a potential danger. Ignoring this symbol can result in minor injuries.

NOTE

Notes concerning the special functions of the device.

Instructions also advise you of a potentially dangerous situation. If the symbol is not observed, it can lead to damage to the system or the system environment.

2 SAFETY

To avoid personal injury and/or material damage, please read the following safety instructions and follow them at all times:

- This manual is part of the product. It must be read and followed.
- As the operator of the electrical system, keep the manual accessible at all times or, as the installer, hand over the document to the operator of the electrical system after successful installation and commissioning.
- Damaged products must neither be installed nor put into operation.
- Protective measures and mechanisms must correspond to applicable regulations.
- All international, national and regional guidelines, standards, safety instructions and safety regulations must be observed throughout the entire life cycle of the product.
- The distribution box (distribution unit panel) complies with IEC 61439 low-voltage switching device combinations.
- Never use components from third-party manufacturers. No guarantee shall be offered for damage resulting from a combination with third-party components.
- The name plate must not be removed and must be permanently attached to the distribution box.
- This distribution box has been designed, produced and tested in accordance with the applicable safety requirements. Despite the greatest care, it can pose a safety risk - as can all electrotechnical / electronic components and products.

2.1 Intended use

gesis® INS distribution boxes are designed exclusively for operation in dry indoor areas. Flush mounted or surface mounted installation is required, depending on the model.

Flush mounted installation:

- gesis® INS Basic flush mounted

Surface mounted installation:

- gesis® INS Basic surface mounted
- gesis® INS Comfort

Observe the safety instructions and technical data listed in this manual.

3 GENERAL PRODUCT INFORMATION

3.1 Product description

The gesis® INS is available in three variants. A Comfort version is also available in addition to the two Basic versions (surface mounted and flush mounted).

3.1.1 Surface mounted Basic

The installation column manufactured in joiner quality serves primarily as a facility for installing electrical equipment for room installation and automation, but can also accommodate technical equipment from other trades. The standard decor color is pearl white or plain white. It is designed for surface mounted installation. In order to minimize the complexity of the logistics and installation process, the column is delivered in two sections. It comprises a lower and upper section, each of which consists of a body and front elements. The fixed front elements or doors attached to the body can only be opened by authorized personnel and give access to the interior for operation purposes or access to integral components or cable entries. Recesses for cavity wall sockets, for example, are integrated into the front elements according to customer specifications. An adjustable base and ceiling compensation feature are integrated to secure the unit to the floor and adjust the height.

The 5-row (18 pitch units) distribution unit panel meets the requirements of IEC 61439 and is assembled, wired, individually tested, and delivered together with the necessary documentation.

Switches and socket material, as well as the necessary flush mounted sockets and locking cylinders, must be provided and fitted on site.

Figure 1: Installation column Basic, surface mounted installation

3.1.2 Flush mounted Basic

The installation column manufactured in joiner quality serves as a facility for installing electrical equipment for room installation and automation, but can also accommodate technical equipment from other trades. The standard decor color is pearl white or plain white. It is designed for flush mounted installation. In order to minimize the complexity of the logistics and installation process, the column is delivered in two sections. It comprises a lower and upper section, each of which consists of a body and front elements. The fixed front elements or doors attached to the body can only be opened by authorized personnel and give access to the interior for operation purposes or access to integral components or cable entries. Recesses for cavity wall sockets, for example, are integrated into the front elements according to customer specifications. The installation box for flush mounted installation must be ordered separately. It is made of a waterproof, glued wooden material and allows installation of the installation column Basicin the wall. There are cable entry openings at the top and bottom of the installation box integrated in the brick wall or drywall. The box is secured at the sides or rear wall using screws. A wraparound aluminum edge serves as a finishing element around the unit in a drywall or plaster wall. The plaster cover, which also sets the exact diagonal dimension, and the milled meter line allow for easier installation.

The 5-row (18 pitch units) distribution unit panel meets the requirements of IEC 61439 and is assembled, wired, individually tested, and delivered together with the necessary documentation.

Switches and socket material, as well as the necessary flush mounted sockets and locking cylinders, must be provided and fitted on site.

Figure 2: Installation column Basic, flush mounted installation

3.1.3 Comfort column

The installation column manufactured in joiner quality serves primarily as a facility for installing electrical equipment for room installation and automation, but can also accommodate technical equipment from other trades. The standard decor color is pearl white or plain white, but special decors are available on request. It is designed for surface mounted installation. A three-level design concept has been implemented. Ordinary personnel (everyday users) can operate readily accessible elements. Instructed personnel are permitted to open locked doors, e.g. to access protection/switching devices. Electricians can swing open the entire front of the lockable column to gain sufficient access to the installation level for installation and maintenance purposes, etc. In order to minimize the complexity of the logistics and installation process, the column is delivered in two sections. It comprises a lower and upper section, each of which consists of a rear wall and the body. Doors and front elements are fastened to the pivoting body. The front is divided into door elements and fixed elements. Recesses for cavity wall sockets, for example, are integrated into the front elements according to customer specifications. An adjustable base and ceiling compensation feature are integrated to secure the unit to the floor and adjust the height. The 5, 6, or 7-row (18 pitch units) distribution unit panel meets the requirements of IEC 61439 and is assembled, wired, individually tested, and delivered together with the necessary documentation. Switches and socket material, as well as the necessary flush mounted sockets and locking cylinders, must be provided and fitted on site.

Figure 3: Installation column Comfort

3.2 Symbols on the product

The following symbols can be found on the product.

Conductor identification yellow/green conductor earth

CE marking

For disposal, this product should be treated as electrical and electronic equipment waste and should not be disposed of as household waste.
EAK: 16 02 16

4 OVERVIEW OF INSTALLATION COLUMNS

	BASIC flush mounted	BASIC surface mounted	COMFORT
Installation type			
Surface mounted (plaster)	–	X	X
Flush mounted (fully or partially recessed)	X	–	–
Operating concept			
Elements placed on the front and in the phone compartment accessible to	User	User	User
Open locked doors, e.g. to access protection/switching devices	Instructed person (caretaker)	Instructed person (caretaker)	Instructed person (caretaker)
Open locked doors and remove panels, e.g. to access protection/switching devices and the installation level	Qualified electrician	Qualified electrician	Qualified electrician
Swing the entire column up and open the installation level	–	–	Qualified electrician
Equipment			
3 combinable column heights	X	X	X
Height-variable	–	X	X
Room height compensation	–	Integrated	Integrated
Distributor with 18 pitch units per row*	5-row	5-row	5 … 7-row
Optional lockable door in lower section, e.g. media connections, additional sockets, etc.	–	–	X
Standard colors: white pearl or white matt	X	X	X
Customizable decor	–	–	X
Dimensions (W × D × H)	450 × 215 × 2580 … 3610 mm *		

* Depending on the configuration

5 POSSIBLE SYSTEM LAYOUT

Figure 4: Possible system layout

The gesis® CLASSIC or gesis® MINI components and other integral components transform gesis® INS distribution boxes into a holistic system for room installation and automation in functional buildings.

The following sample list of items can be added to gesis® INS distribution boxes to create a pluggable electrical installation:

- gesis® CLASSIC h-distributor, 3-pole (1 input, 2 outputs)
- gesis® CLASSIC h-distributor, 3-pole (1 input, 3 outputs)
- gesis® CLASSIC extension cable 3G1.5 or 3G2.5
- gesis® cascadable multiple socket
- gesis® CLASSIC T-distributor, 3-pole (1 input, 2 outputs)
- gesis® CLASSIC connection cable 3G1.5 or 3G2.5

6 DESIGN OF THE INSTALLATION COLUMN

Each model of column has a different design.

NOTE Internal devices in the body, such as cavity wall sockets, loudspeakers, etc., must be installed on site and are not provided by Wieland Electric GmbH.

6.1 Design of the installation column Basic surface mounted

The installation column Basic surface mounted is manufactured from a wooden material with a white coated surface and side walls. It is designed for surface mounting and consists of a two-piece base column and a distribution unit panel.

Total dimensions of the installation column Basic surface mounted:

- Dimensions of body S (W × D × H): 450 × 215 × 2630 … 2700 mm, can be adjusted via base
- Dimensions of body M (W × D × H): 450 × 215 × 2880 … 2950 mm, can be adjusted via base
- Dimensions of body L (W × D × H): 450 × 215 × 3130 … 3200 mm, can be adjusted via base

Lower section:

- Adjustable base element (50 … 120 mm) made from powder-coated steel
- Rear wall element made from wooden material with predrilled holes for mounting internal devices
- Preinstalled C 30 rail for cable routing according to DIN EN 60715
- Front made from wooden material, hinged
- Recesses according to customer specifications
- Dimensions (W × D × H): 450 × 215 × 1050 mm
- Installation space (W × D × H): approx. 360 × 194 × 765 mm

Upper section:

- Adjustable ceiling connection element made from powder-coated steel, available in three heights
  - H1: 30 … 170 mm
  - H2: 150 … 290 mm
  - H3: 270 … 410 mm
- Rear wall element made from wooden material with predrilled holes for mounting internal devices
- Two preinstalled C 30 rails for cable routing according to DIN EN 60715
- Three-piece front
  - Bottom 325 mm: Rotating door, push to open (for additional compartment) or fixed front with recesses according to customer specifications
  - 325 … 1045 mm: Installation space for distribution unit panel, rotating door with left/right stop
  - Top section: Fixed front with recesses according to customer specifications, hinged
- Dimensions:
  - Size S (W × D × H): 450 × 215 × 1530 mm
  - Size M (W × D × H): 450 × 215 × 1780 mm
  - Size L (W × D × H): 450 × 215 × 2030 mm

Distribution unit panel:

- 5-row distribution unit panel, each row 18 pitch units wide
- Assembled according to specifications, prewired, individually tested, and documented
- IP30 during normal use

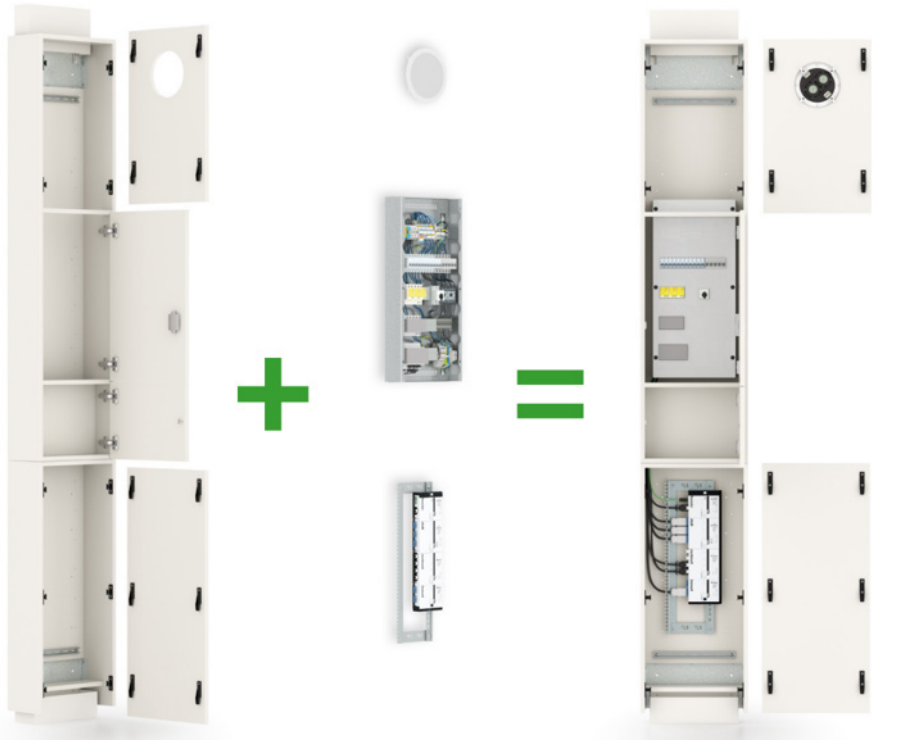

Figure 5: Example design of installation column Basic surface mounted

6.2 Design of the installation column Basic flush mounted

The installation column Basic flush mounted consists of an installation box and the installation column Basic surface mounted. Unlike the column Basic surface mounted, the flush-mounted model does not have an adjustable base element or an adjustable ceiling connection element. The installation box for flush mounted installation must be ordered separately.

Total dimensions of the installation column Basic flush mounted:

- Dimensions of body S (W × D × H): 450 × 215 × 2580 mm
- Dimensions of body M (W × D × H): 450 × 215 × 2830 mm
- Dimensions of body L (W × D × H): 450 × 215 × 3080 mm

Lower section:

- Rear wall element made from wooden material with predrilled holes for mounting internal devices
- Preinstalled C 30 rail for cable routing according to DIN EN 60715
- Front made from wooden material, hinged
- Recesses according to customer specifications
- Dimensions (W × D × H): 450 × 215 × 1050 mm
- Installation space (W × D × H): approx. 360 × 194 × 765 mm

Upper section:

- Rear wall element made from wooden material with predrilled holes for mounting internal devices
- Two preinstalled C 30 rails for cable routing according to DIN EN 60715
- Three-piece front
  - Bottom 325 mm: Rotating door, push to open (for additional compartment) or fixed front with recesses according to customer specifications
  - 325 … 1045 mm: Installation space for distribution unit panel, rotating door with left/right stop
  - Top section: Fixed front with recesses according to customer specifications, hinged
- Dimensions:
  - Size S (W × D × H): 450 × 215 × 1530 mm
  - Size M (W × D × H): 450 × 215 × 1780 mm
  - Size L (W × D × H): 450 × 215 × 2030 mm

Distribution unit panel:

- 5-row distribution unit panel, each row 18 pitch units wide
- Assembled according to specifications, prewired, individually tested, and documented
- IP30 during normal use

Installation box:

The flush mounted column is available in two installation types:

- Flush mounted: Recessed 195 mm in the wall. Flush mounted body, protruding front
- Partially recessed: min. 105 mm recessed into the wall

The correct installation box must be selected according to the installation type.

Table 1: Dimensions and item numbers for the installation box Basic flush mounted

Installation type/ size of upper section		**Flush mounted (195 mm recessed) W × D × H**	**Partially recessed (min. 105 mm recessed) W × D × H**
S	External diameter	490 × 214 × 2704 mm	490 × 124 × 2704 mm
	Internal diameter	452 × 195 × 2584 mm	452 × 105 × 2584 mm
	Article number	98.541.0000.0	98.541.0000.1
M	External diameter	490 × 214 × 2954 mm	490 × 124 × 2954 mm
	Internal diameter	452 × 195 × 2834 mm	452 × 105 × 2834 mm
	Article number	98.541.0001.0	98.541.0001.1
L	External diameter	490 × 214 × 3204 mm	490 × 124 × 3204 mm
	Internal diameter	452 × 195 × 3084 mm	452 × 105 × 3084 mm
	Article number	98.541.0002.0	98.541.0002.1

- Wraparound aluminum angle as a plastering rail for plasterboard or plaster
- Mounting aid and protective plate in the form of a clip-in front plate made from wooden material
- Cable entry possible from below and above
- Dimensions depend on the selected size of the upper column section and the installation type

Figure 6: Example design of Basic flush mounted consisting of installation box and Basic surface mounted

6.3 Design of installation column Comfort

The installation column Comfort with side walls, which consists of a two-piece base column and distribution unit panel, is designed for surface mounting and is manufactured from wooden material with a white coated surface. A special feature of the installation column Comfort is the triple operating level concept. Ordinary personnel (everyday users) can operate readily accessible elements. Instructed personnel are permitted to open locked doors, e.g. to access protection/switching devices. Electricians can swing open the entire front of the lockable column to gain sufficient access to the installation level for installation and maintenance purposes, etc.

Total dimensions of the installation column Comfort:

- Dimensions of body S (W × D × H): 450 × 215 × 2630 … 2700 mm, can be adjusted via base
- Dimensions of body M (W × D × H): 450 × 215 × 2880 … 2950 mm, can be adjusted via base
- Dimensions of body L (W × D × H): 450 × 215 × 3130 … 3200 mm, can be adjusted via base

Lower section:

- Adjustable base element (50 … 120 mm) made from powder-coated steel
- Rear wall element made from wooden material with predrilled holes for mounting internal devices
- Preinstalled C 30 rail for cable routing according to DIN EN 60715
- Front made from wooden material, hinged
- Recesses according to customer specifications
- Dimensions (W × D × H): 450 × 215 × 1050 mm
- Installation space (W × D × H): approx. 360 × 194 × 765 mm

Upper section:

- Adjustable ceiling connection element made from powder-coated steel, available in three heights
  - H1: 30 … 170 mm
  - H2: 150 … 290 mm
  - H3: 270 … 410 mm
- Rear wall element made of multi-folded, powder-coated steel with a row of retracted threaded bolts on both sides for installing internal devices
- Two preinstalled C 30 rails for cable routing according to DIN EN 60715
- Three-piece front
  - Bottom 325 mm: Rotating door, push to open (for additional compartment) or fixed front with recesses according to customer specifications
  - 325 … 1045 mm: Installation space for distribution unit panel, rotating door with left/right stop
  - Top section: Fixed front with recesses according to customer specifications, hinged
- Dimensions:
  - Size S (W × D × H): 450 × 215 × 1530 mm
  - Size M (W × D × H): 450 × 215 × 1780 mm
  - Size L (W × D × H): 450 × 215 × 2030 mm

Distribution unit panel:

- In three sizes:
  - 5-row distribution unit panel, each row 18 pitch units wide
  - 6-row distribution unit panel, each row 18 pitch units wide
  - 7-row distribution unit panel, each row 18 pitch units wide
- Assembled according to specifications, prewired, individually tested, and documented
- IP30 during normal use

NOTE For distribution unit panels with more than 5 rows, please note that a maximum of 5 rows can be used for built-in devices. The top row of a 6-row distribution unit panel and the top two rows of a 7-row distribution unit panel are only intended for terminals.

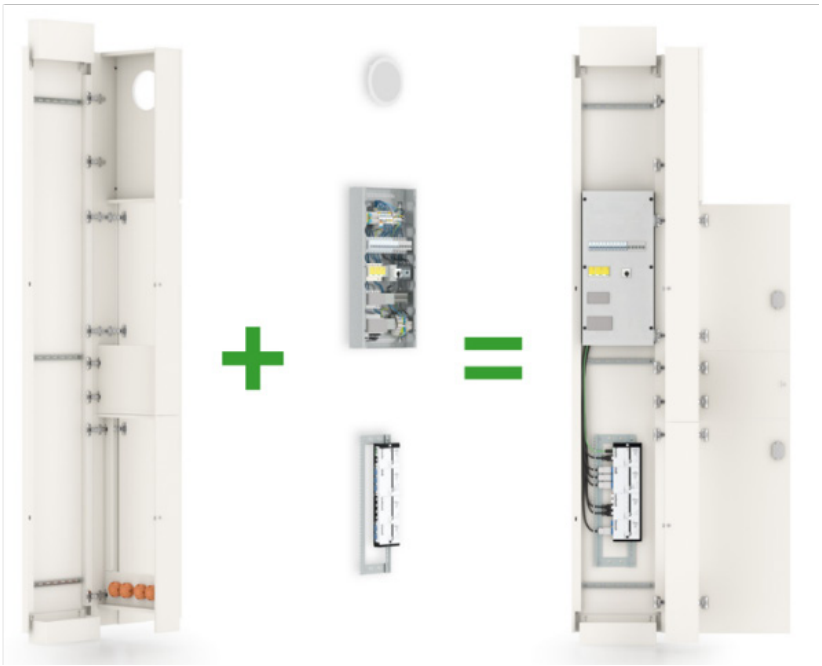

Figure 7: Example design of installation column Comfort

7 DRAWINGS

This section contains example drawings for the Basic and Comfort models of installation columns. The recesses at the front vary according to the project and the ones shown here are only examples.

The clearance dimensions for the doors are approx. 3 mm.

7.1 Basic drawings

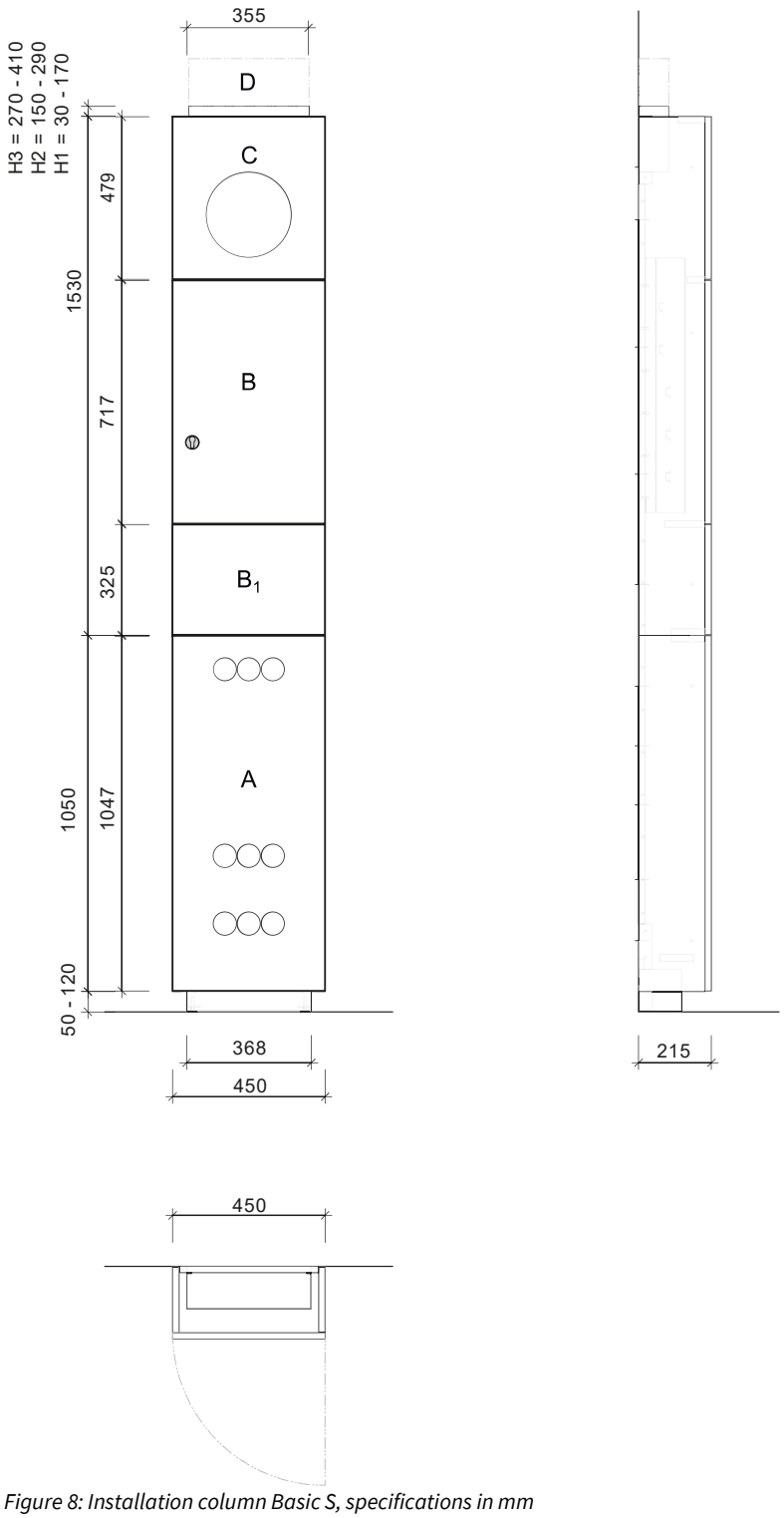

Figure 8: Installation column Basic S, specifications in mm

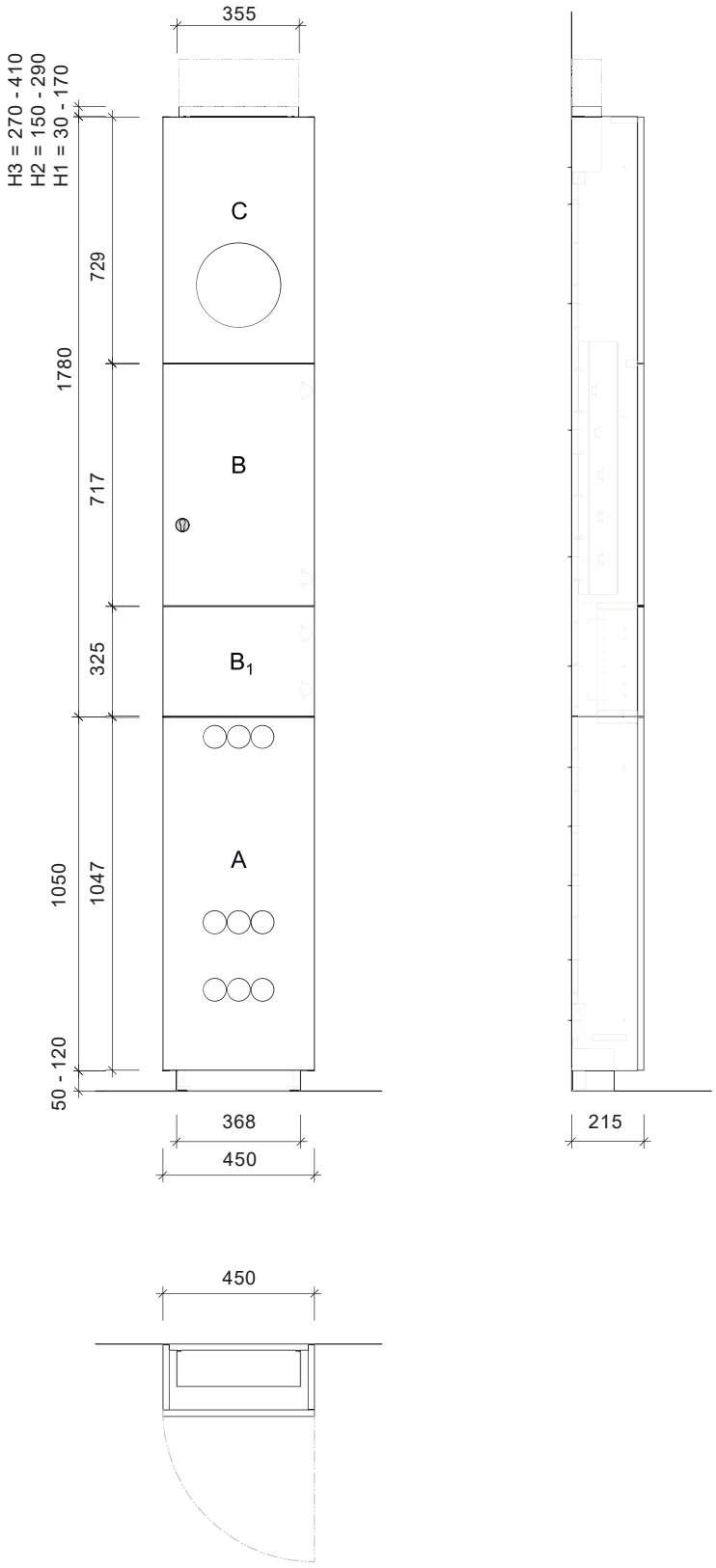

Figure 9: Installation column Basic M, specifications in mm

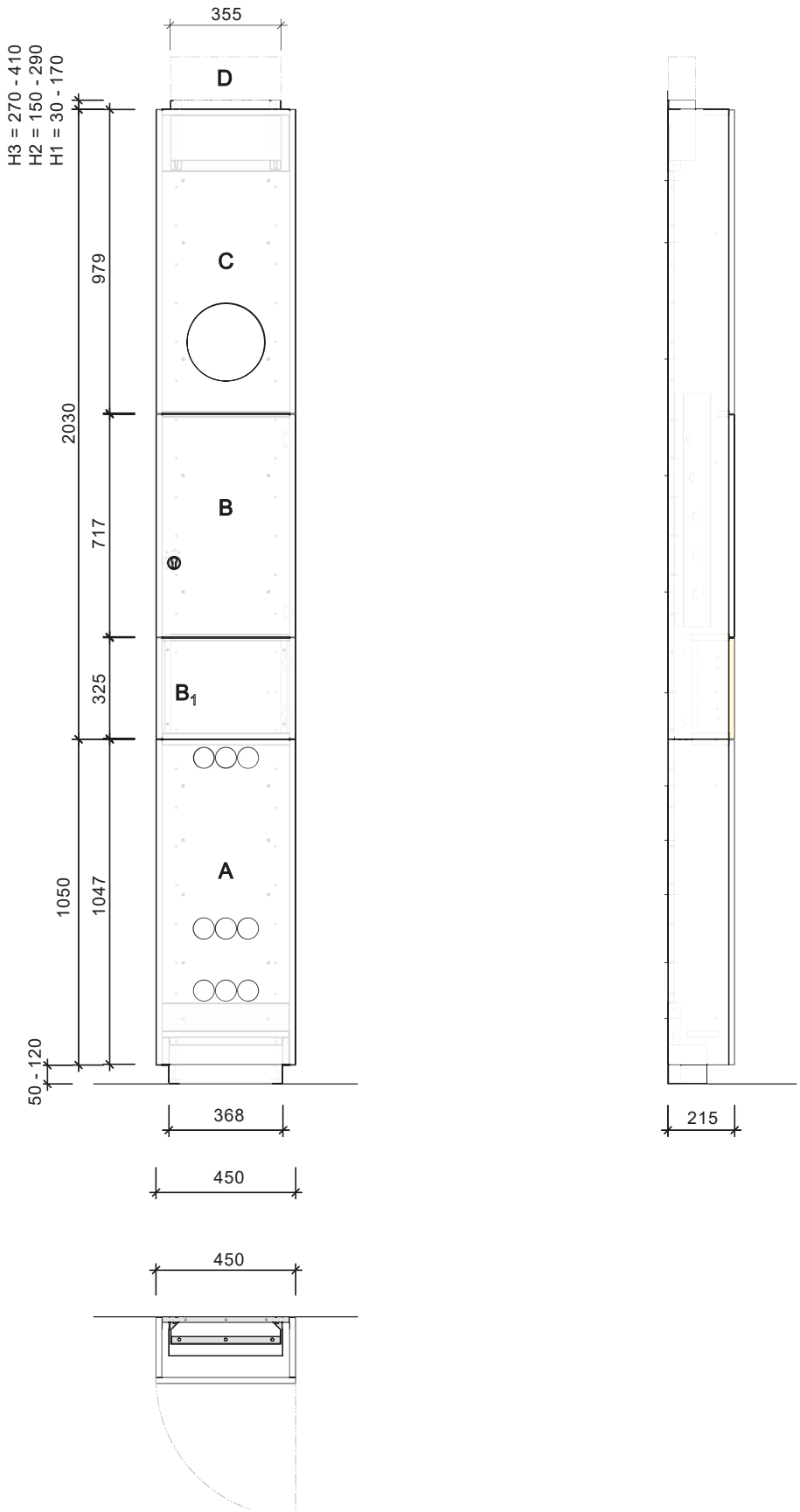

Figure 10: Installation column Basic L, specifications in mm

7.2 Comfort drawings

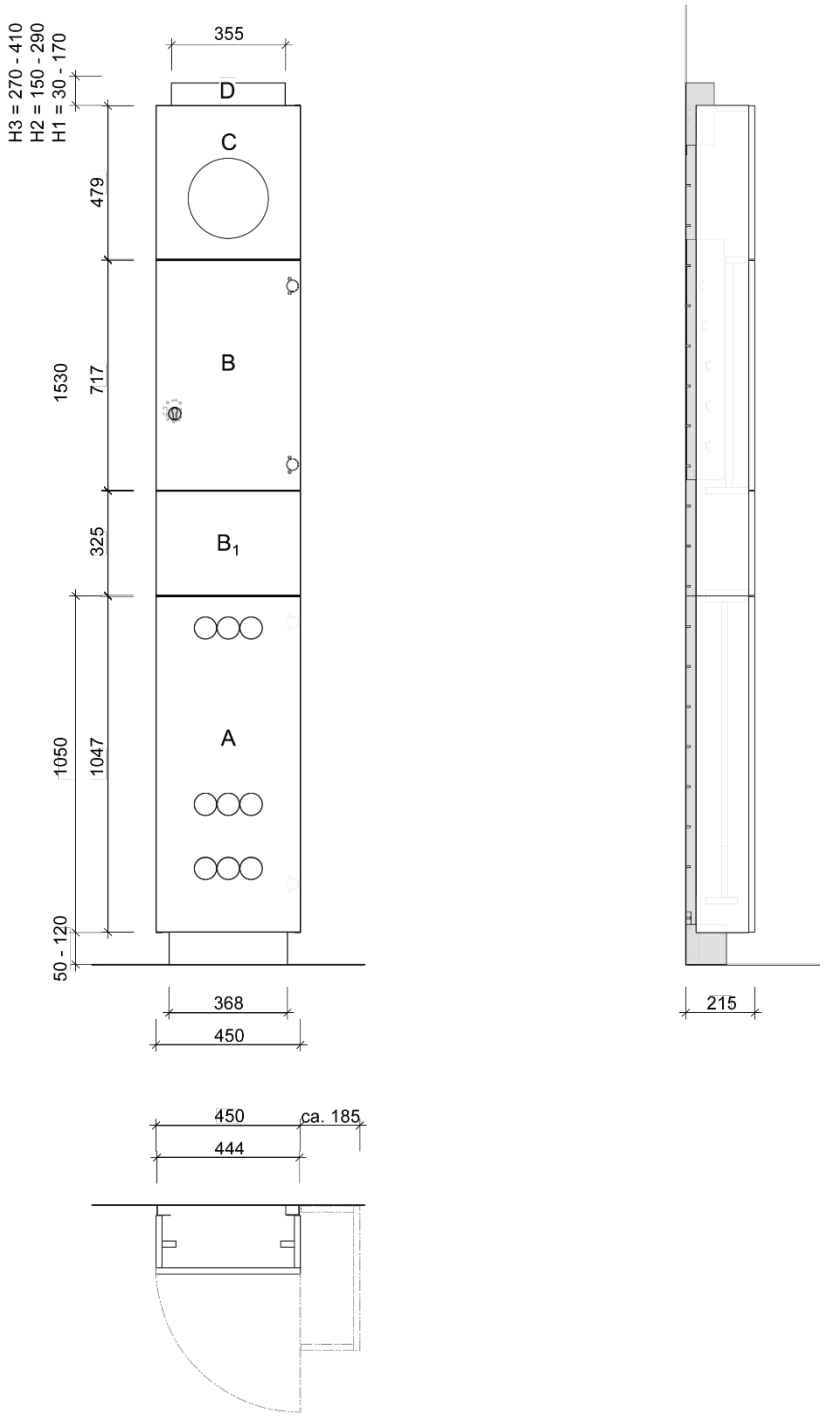

Figure 11: Installation column Comfort S, specifications in mm

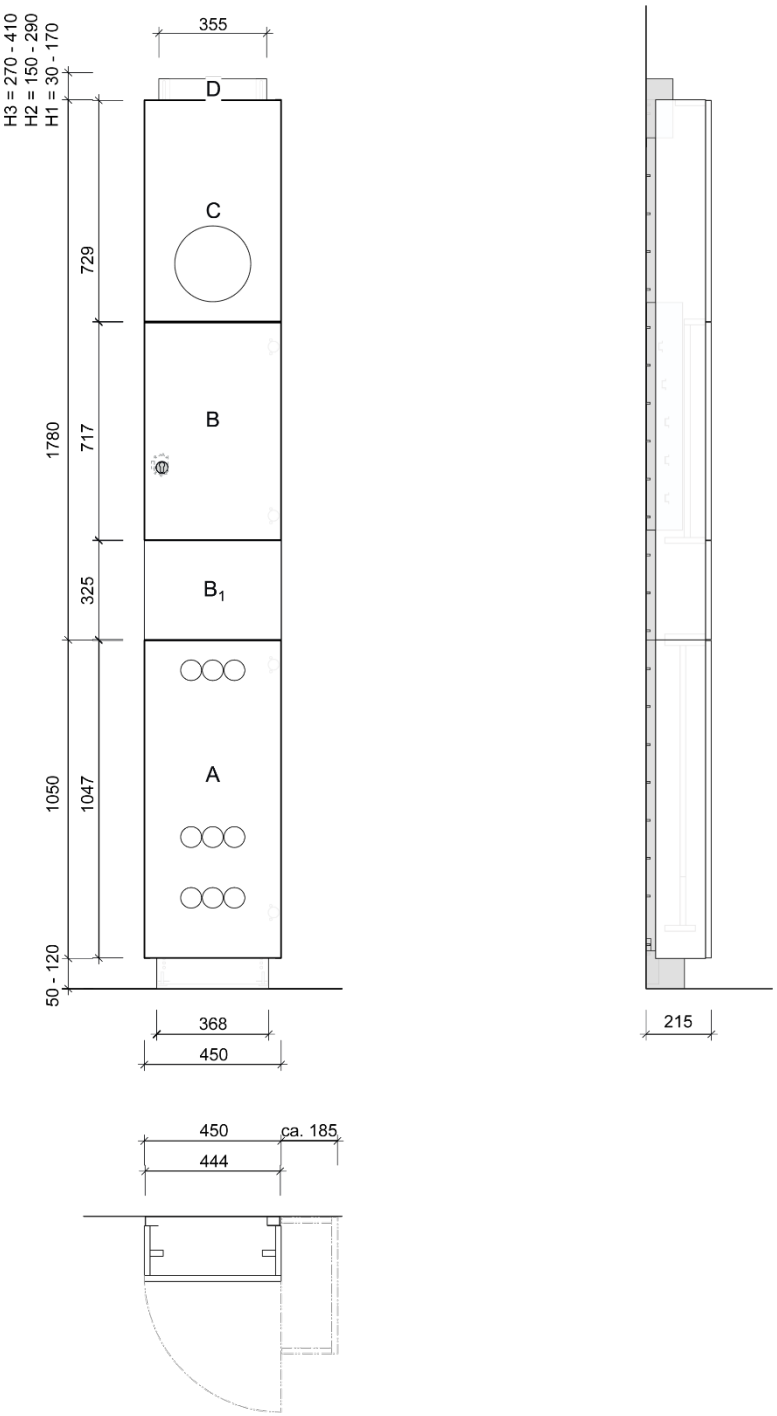

Figure 12: Installation column Comfort M, specifications in mm

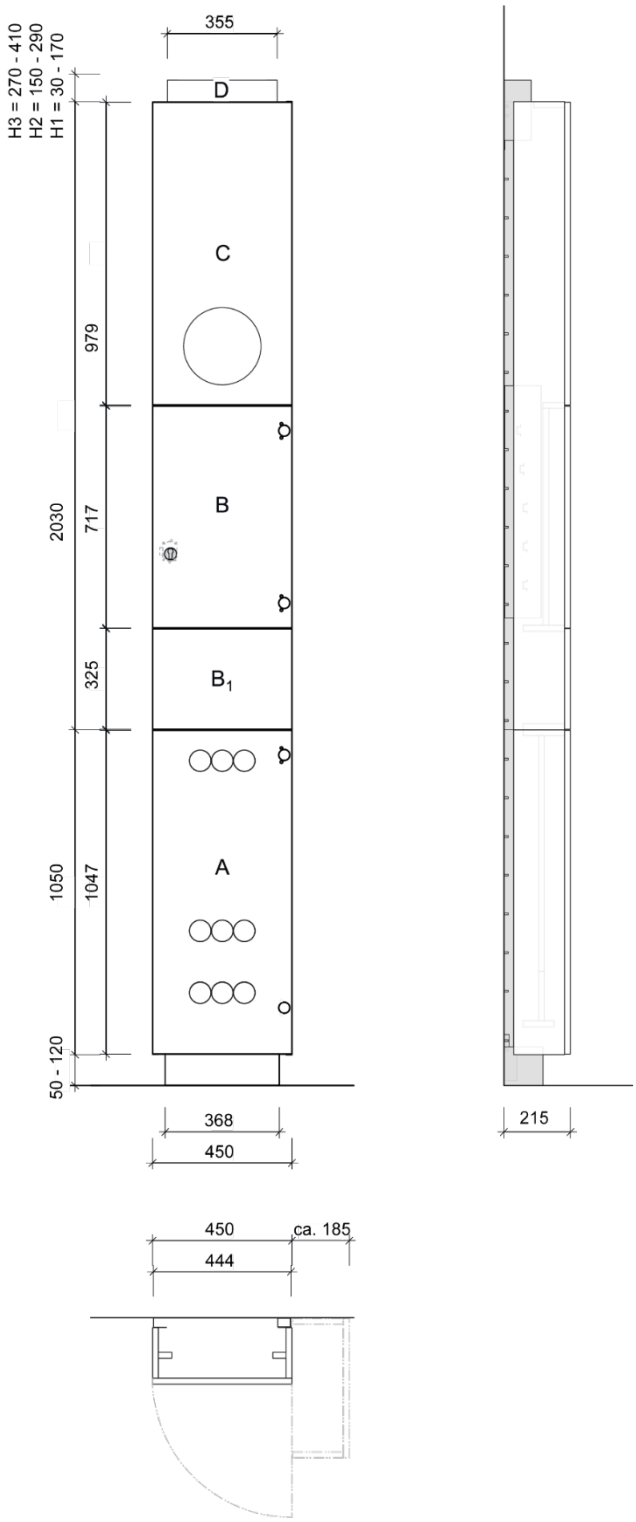

Figure 13: Installation column Comfort L, specifications in mm

7.3 Installation box drawings

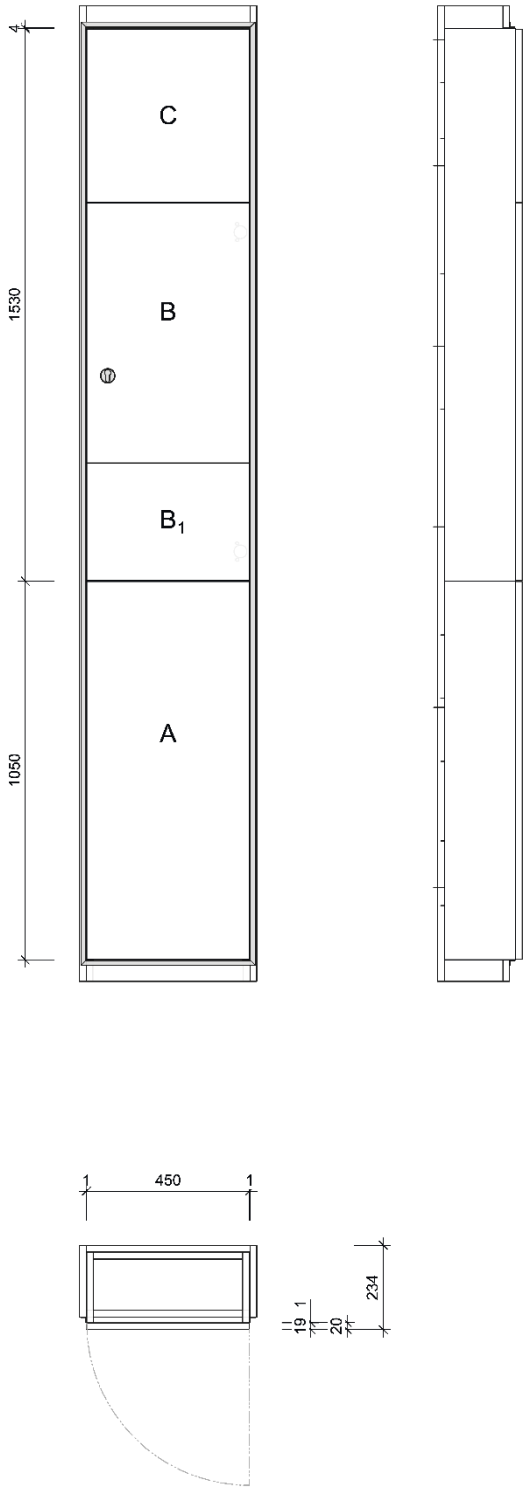

Figure 14: Installation box dimension drawing, size S, with installation column

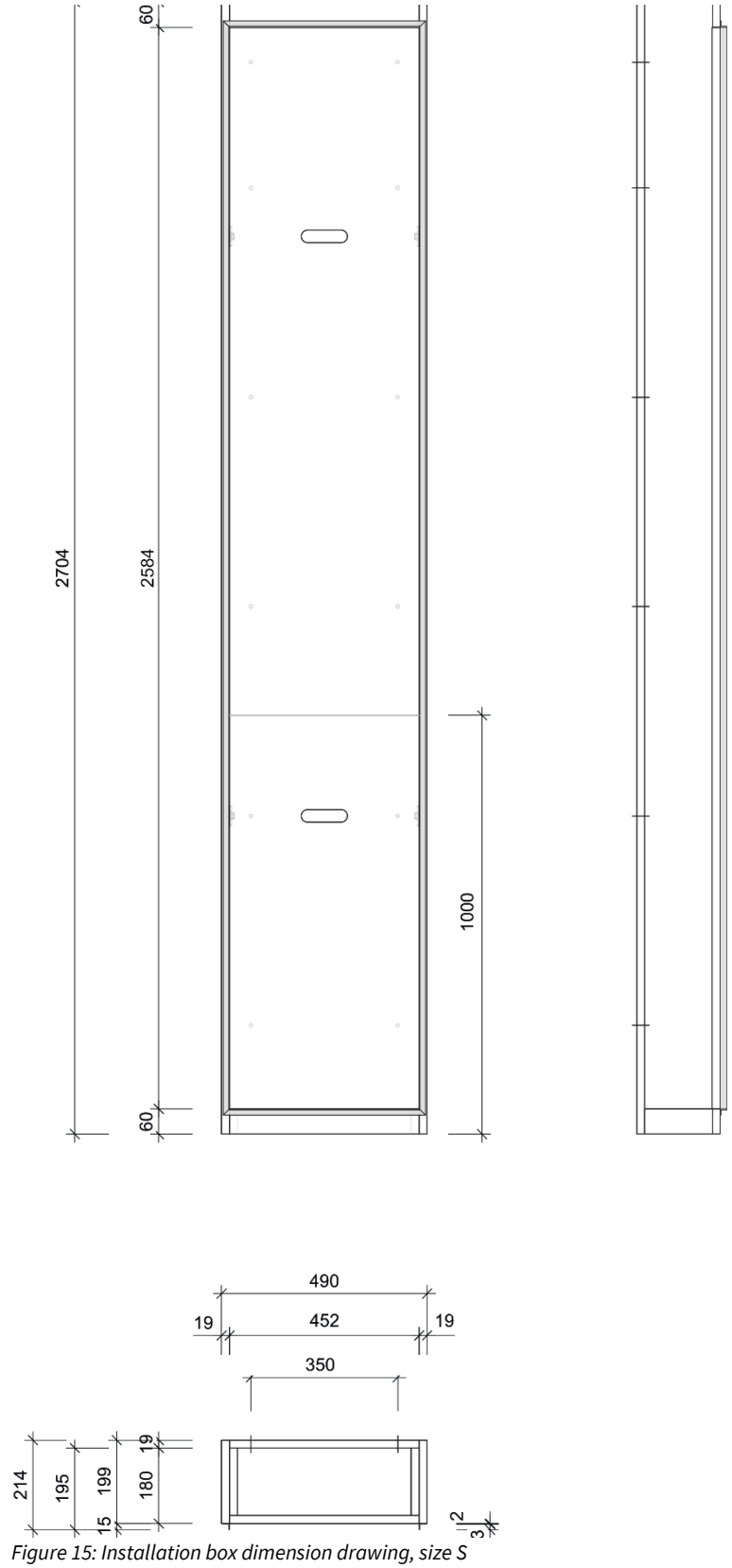

Figure 15: Installation box dimension drawing, size S

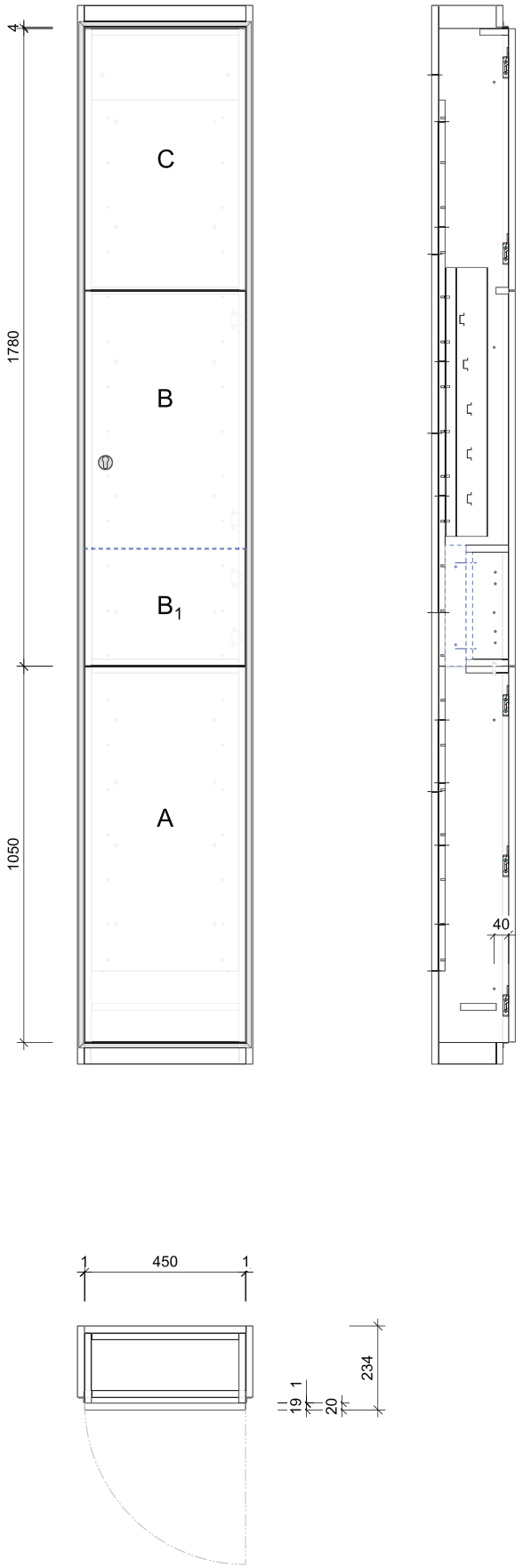

Figure 16: Installation box dimension drawing, size M, with installation column

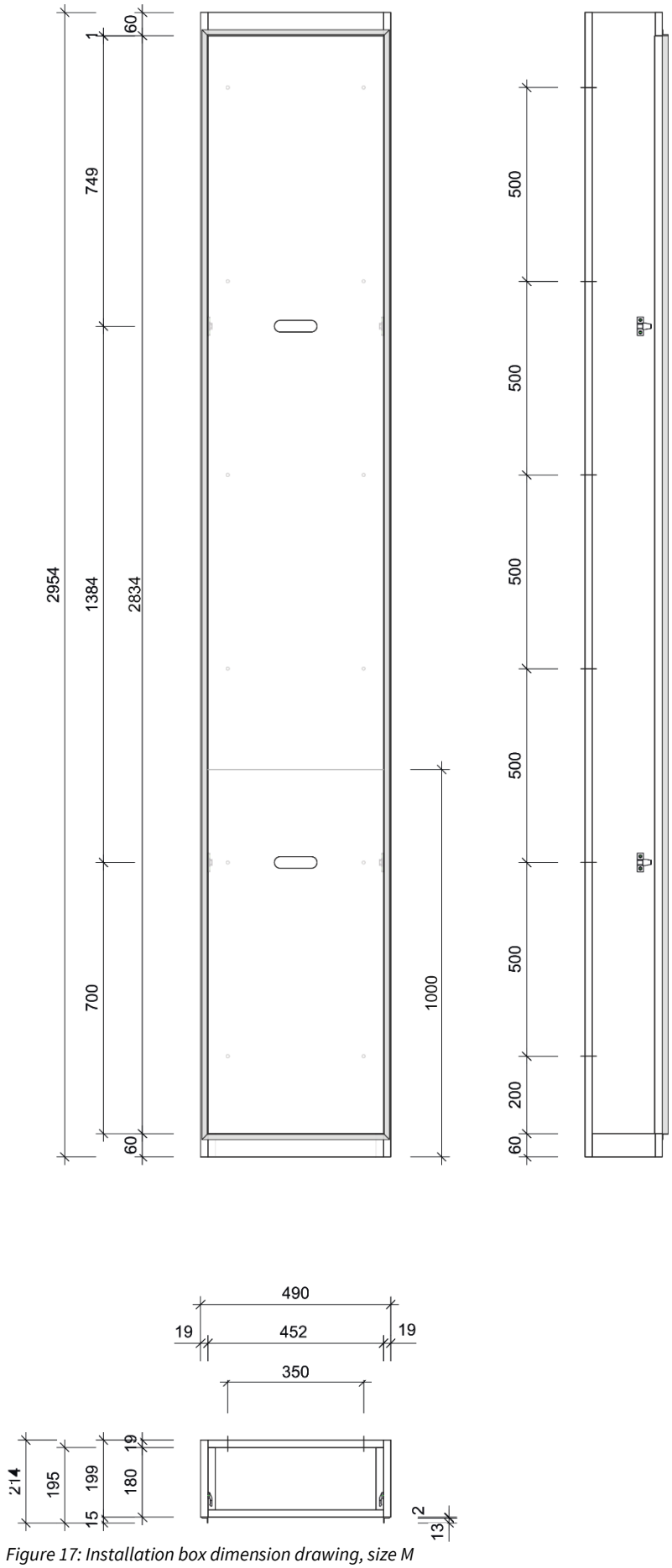

Figure 17: Installation box dimension drawing, size M

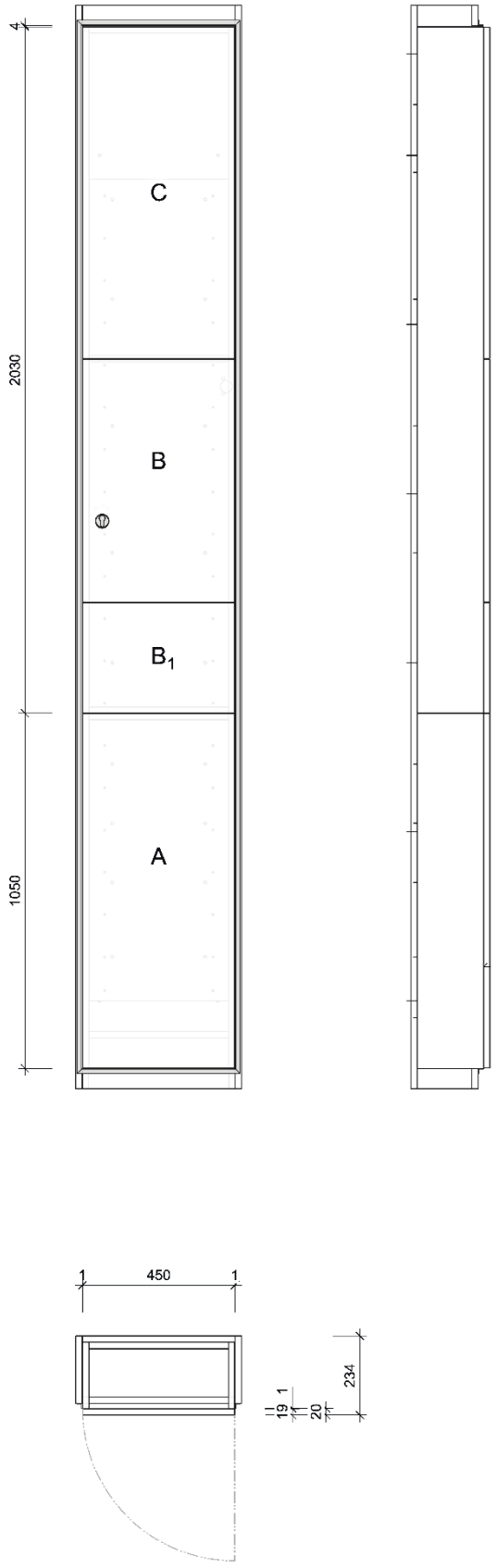

Figure 18: Installation box dimension drawing, size L, with installation column

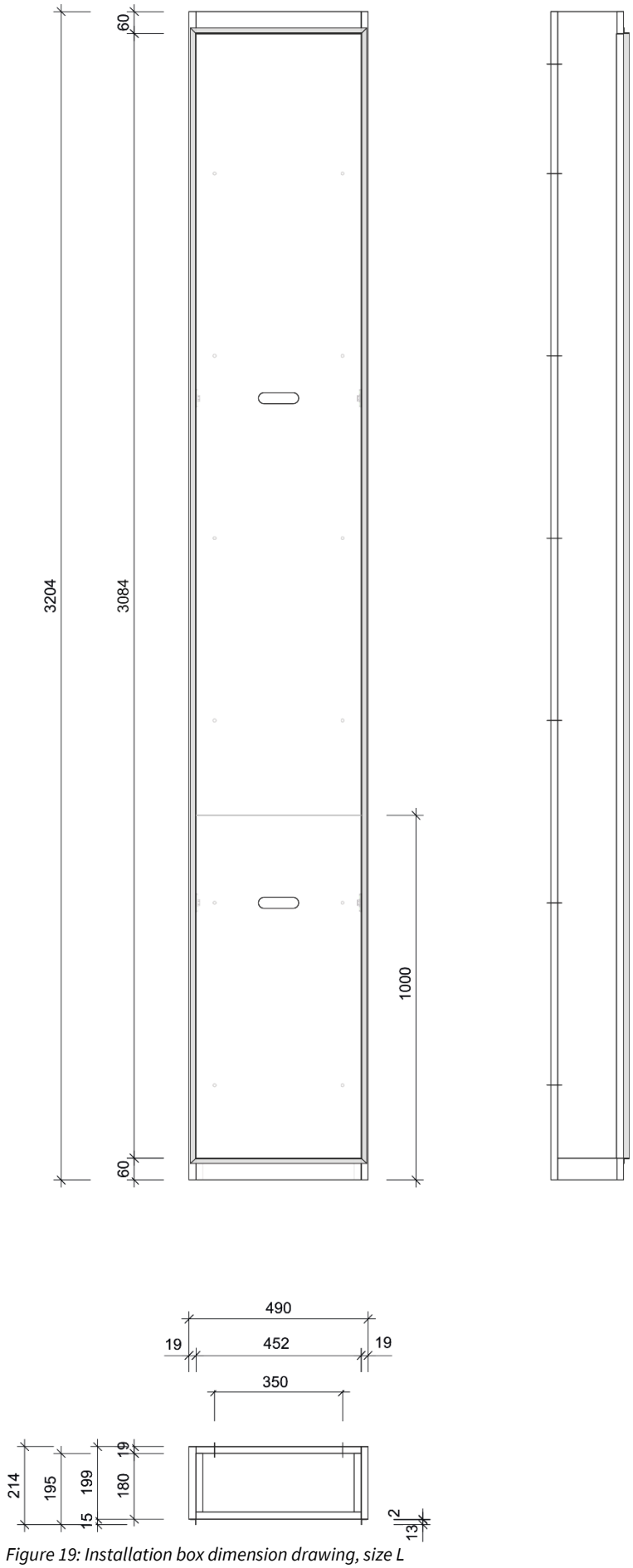

Figure 19: Installation box dimension drawing, size L

8 MOUNTING

8.1 Preparation

Check that the distribution boxes are undamaged before starting installation. Do not use and install any damaged distributors and components.

Observe all necessary safety precautions and carry out all work preparations before proceeding with mounting. All international, national and regional directives, standards, safety instructions and safety rules must be observed when installing the product.

Read all the relevant data sheets and manuals before starting installation.

When installing the equipment, only use installation materials that are suitable for the relevant mounting surface.

8.2 Installation of surface mounted Basic

The installation column Basic for surface mounting is installed in several steps.

8.2.1 Installing the body

A suitable mounting surface must be selected before the body can be installed.

Installation steps:

➡ Position the lower section on the mounting surface provided.

Use adjusting feet on the base element for fine adjustment and plumb installation:

➡ Loosen the screw connection on the base cover and then remove the base cover.
➡ A row of holes allows the adjustable feet to be set to different heights. To do so, unscrew the hexagon connection and move the adjustable feet to the required hole.
➡ The adjustable feet must be adjusted to a height where they are stable and can be fine adjusted. Turn the adjustable feet in a clockwise or counterclockwise direction.

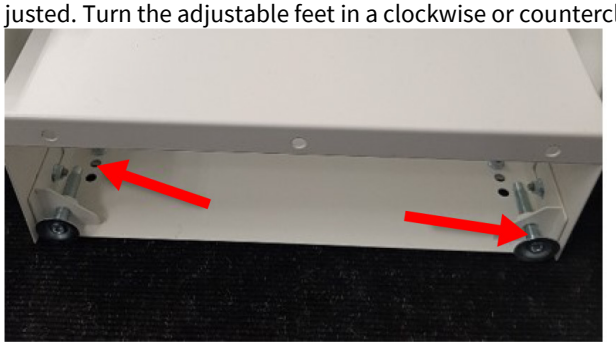

Figure 20: Adjustable feet

➡ Then attach the panel back onto the base element.
➡ If necessary, establish a seal between the base element and the floor (silicone lip) so that water cannot enter the column from below.

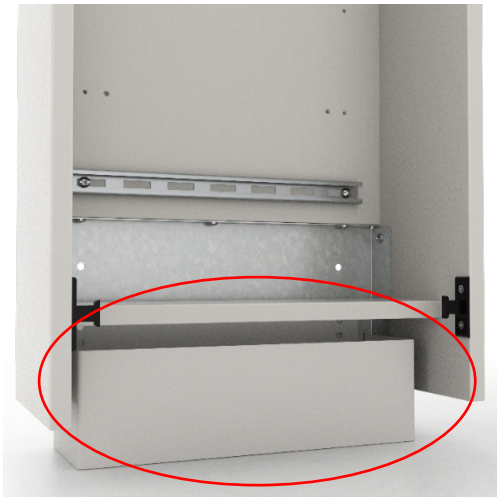

Figure 21: Base element

➡ Secure the lower section through the rear wall.
➡ Join the upper and lower sections together. A positioning pin ensures a precise fit between the upper and lower sections. The upper and lower sections do not have to be bolted together. Securing the unit to the mounting surface establishes a permanent, stable connection.

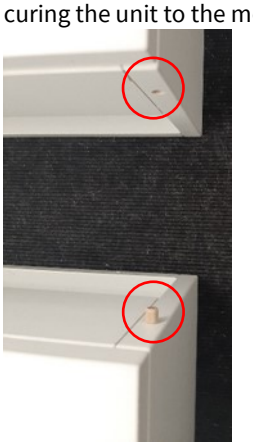

Figure 22: Positioning pin ensures a precise fit

➡ Secure the upper section to the mounting surface through the rear wall. The upper section must not be secured to the mounting surface in area B (see chapter 7.1 "Basic drawings", p. 19).

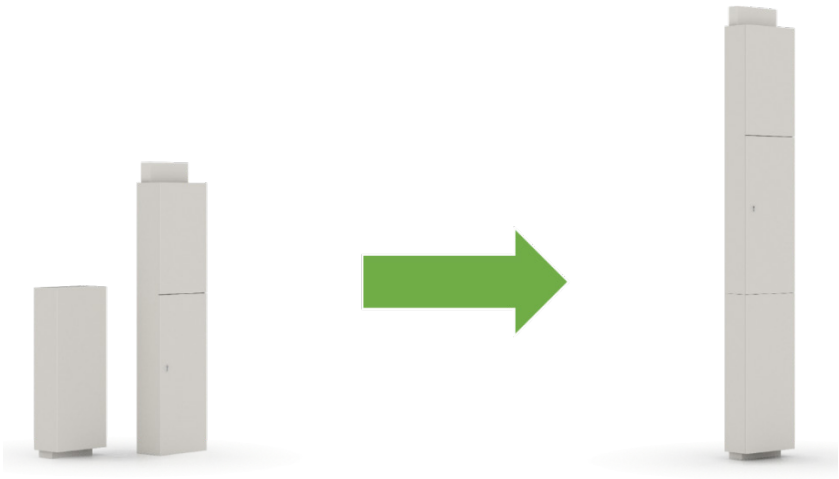

Figure 23: Joining the lower and upper sections of the body together

DANGER

Risk of fatal injury from improperly secured column tipping over

- The installation column may tip over if not secured properly. If the installation column tips over, it may result in serious or even fatal injuries.
- The installation column must be secured to the wall properly using sufficiently strong screws and anchors.
- The person installing the installation column is responsible for providing the necessary mechanical fastening.

Attach the ceiling connection element for installing the column flush with the ceiling:

➡ Loosen the butterfly screws.
➡ Adjust the height of the ceiling connection element so that it is flush with the ceiling.
➡ Tighten the butterfly screws again.
➡ Seal the ceiling connection element so that water cannot enter the column.

Figure 24: Ceiling compensation element

8.2.2 Adjusting the doors

See chapter 8.5.1 "Adjusting the doors", p. 48.

8.2.3 Cable entry in the installation column Basic surface mounted

Once the body has been installed successfully, the cables can be routed. All incoming and outgoing cables can be fed in from above or below and routed via the preinstalled C 30 rails. One C 30 rail is located in the lower section and two are located in the upper section of the column. The accessories required for the C 30 rails are not included in the delivery and must be provided by the customer.

Figure 25: Cable routing via preinstalled C 30 rails

The wiring between the floor and ceiling is laid centrally behind the distribution unit panel. All international, national and regional directives, standards, safety instructions and safety rules must be observed when installing the wiring for internal devices.

8.2.4 Installing internal devices

Internal devices such as room automation devices, devices for network technology or similar are secured in area A (see chapter 7.1 "Basic drawings", p. 19) of the installation column. Read the manuals and assembly instructions provided by the manufacturer to install internal devices.

The following installation space is available: see chapter 6.1 "Design of the installation column Basic surface mounted", p. 13.

Predrilled holes for mounting and securing internal devices are integrated in the rear wall of the column.

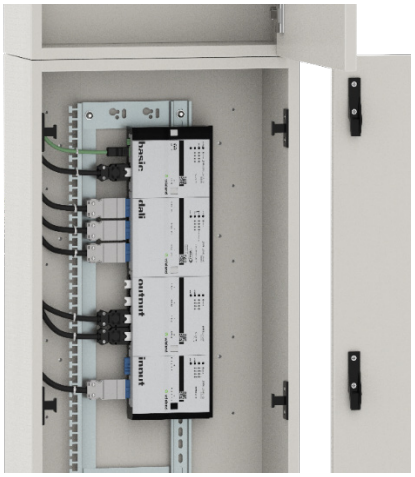

Figure 26: Installing internal devices, e.g. gesis® FLEX

Flush mounted sockets, loudspeakers, and clocks as well as switches, sockets, and multimedia connections, etc. are installed on site in areas A, and possibly B1 and C (see chapter 7.1 "Basic drawings", p. 19). The fixed front in area A or B1 can only be detached if the door/front in the area above is unhinged/removed.

8.2.5 Unhinging doors/removing the fixed front

See chapter 8.5.2 "Unhinging doors / removing the fixed front", p. 48.

8.2.6 Attaching and connecting the distribution unit panel

The empty or assembled distribution unit panel is inserted and fixed in the installation space provided in area B (see chapter 7.1 "Basic drawings", p. 19) of the installation column.

- ➡ Make sure that no rear wall fastenings are protruding into the installation space.
- ➡ Use the enclosed screws and the attachment points provided to secure the unit.
- ➡ Establish all the required electrical connections to the distribution unit panel. Make sure that the earthing connection of the distribution unit panel complies with standards and that the contact protection is attached following successful installation.

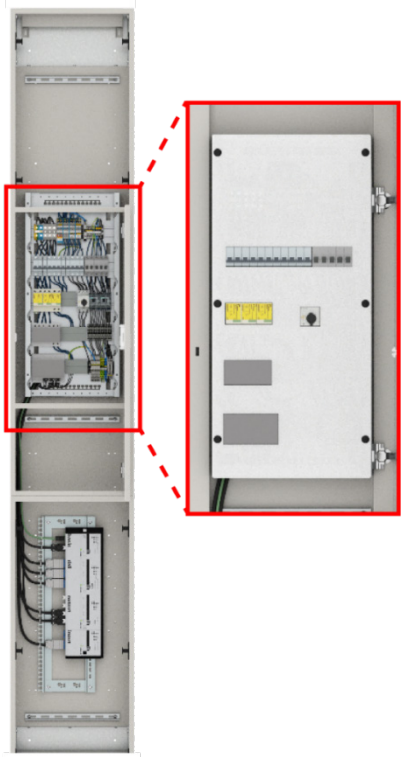

Figure 27: Attaching the distribution unit panel and the contact protection

8.3 Installation of Basic flush mounted

The installation column Basic for flush mounting is installed in several steps.

8.3.1 Installing the installation box

A distinction is made between flush mounted and partially recessed installations. The correct installation box must be selected for each model, see chapter 6.2 "Design of the installation column Basic flush mounted", p. 15.

A recess in the brick wall or drywall is required to install the installation box.

Dimensions (W × D × H) of the recess for the installation box in mm:

Body size / Installation type	**Size S**	**Size M**	**Size L**
Flush mounted (plaster)	490 × 214 × 2704 mm	490 × 214 × 2954 mm	490 × 214 × 3204 mm
Partially recessed	490 × 124 × 2704 mm	490 × 124 × 2954 mm	490 × 124 × 3204 mm

DANGER

Risk of fatal injury from tipping

- The installation column may tip over if not secured properly. If the installation column tips over, it may result in serious or even fatal injuries.
- The minimum depth of the installation recess must be 124 mm to install partially recessed installation boxes. If the minimum depth cannot be guaranteed, the surface mounted version must be selected.
- Secure the installation box in the recess in line with local conditions. When installing the equipment, only use installation materials that are suitable for the relevant mounting surface and do not protrude into the installation box.

CAUTION

Screws must be countersunk and must not protrude into the interior. Countersinking the screws is required primarily when installing the installation box. If a screw head is not flush, it will not be possible to install the body flush or install the body at all.

After assembly, the cover must be inserted. It must be possible to insert the cover into the installation box without jamming. If not, the installation column cannot be installed in the installation box. There is a meter line on the cover for checking the build in height.

The cover serves as a plaster and dirt shield and must remain installed until the surrounding construction has hardened and the installation column can be installed.

Figure 28: Plastering edge on installation box

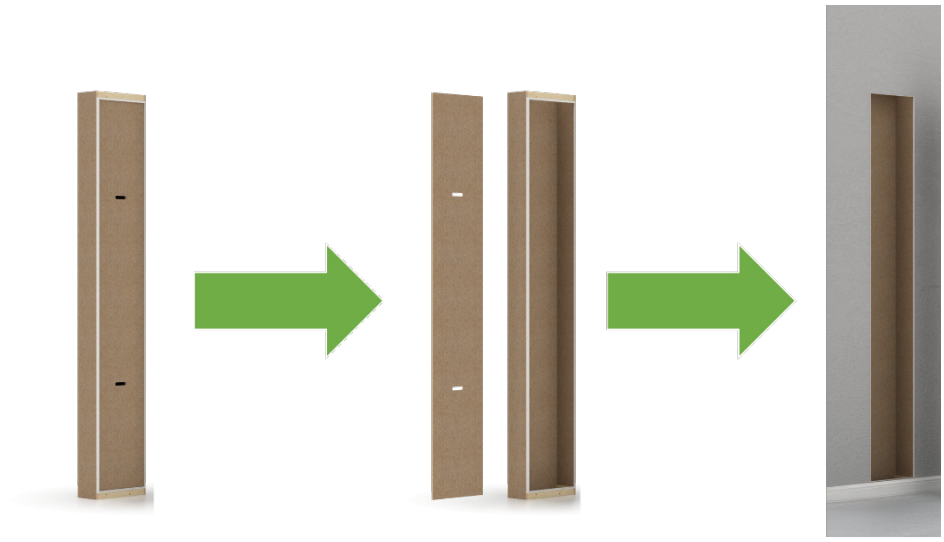

Figure 29: Steps for installing the installation box

8.3.2 Installing the body

NOTE Check that the installation box has been installed correctly before installing the installation column. Make sure that the box is seated firmly and installed plumb. Make sure that there are no foreign objects such as plaster residues or protruding screws.

Installation steps:

➡ Join the upper and lower sections together. A positioning pin ensures a precise fit between the upper and lower sections. The upper and lower sections do not have to be bolted together. Securing the unit to the mounting surface establishes a permanent, stable connection.

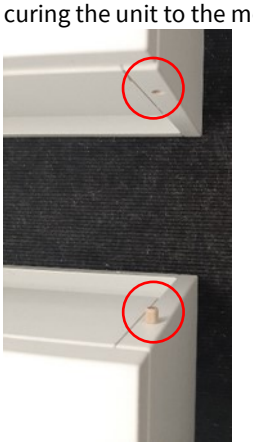

Figure 30: Positioning pin ensures a precise fit

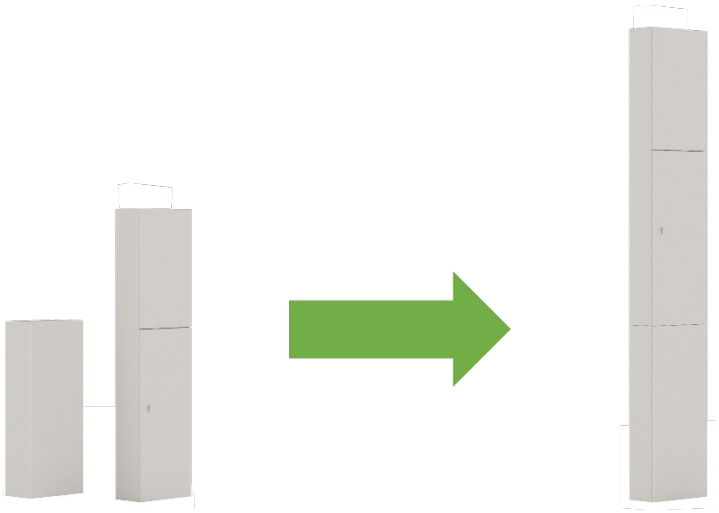

Figure 31: Joining the lower and upper sections of the body together

➡ Insert the body into the installation box and screw to the side or rear wall.
Caution: Screws must be countersunk and must not protrude into the interior. Countersinking the screws is required primarily when installing the installation box. If a screw head is not flush, it will not be possible to install the body flush.

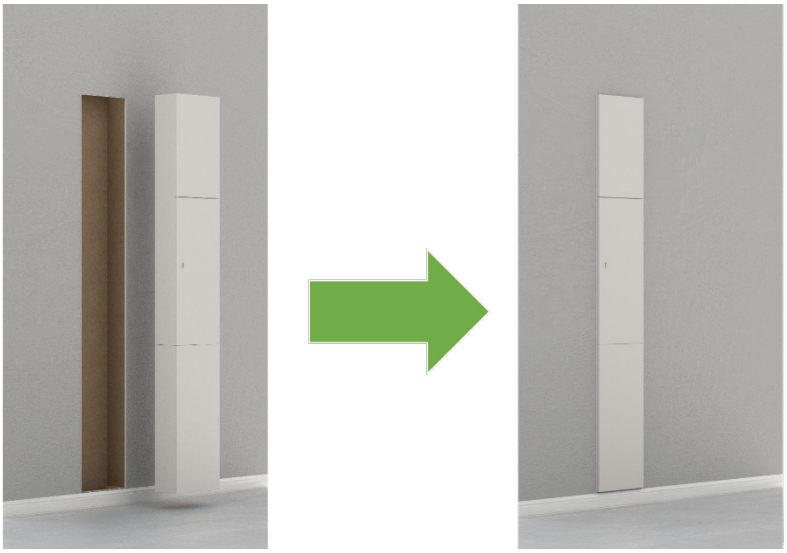

Figure 32: Installation of body in flush mounted installation box

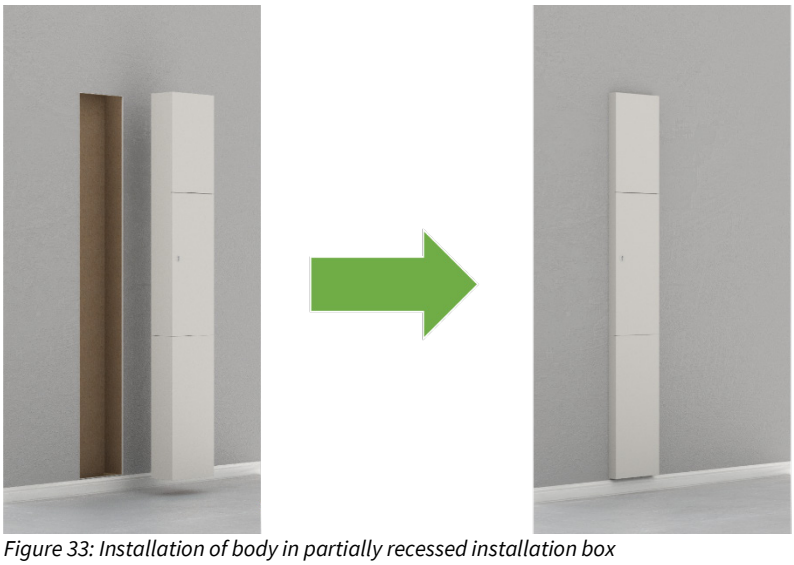

Figure 33: Installation of body in partially recessed installation box

8.3.3 Adjusting the doors

See chapter 8.5.1 "Adjusting the doors", p. 48.

8.3.4 Cable entry in the installation column Basic flush mounted

Once the body has been installed successfully, the cables can be routed. All incoming and outgoing cables can be fed in from above or below and are routed via the preinstalled C 30 rails. One C 30 rail is located in the lower section of the installation column and two are located in the upper section of the column.

Figure 34: Cable routing via preinstalled C 30 rails

The wiring between the floor and ceiling is laid centrally behind the distribution unit panel. All international, national and regional directives, standards, safety instructions and safety rules must be observed when installing the wiring for internal devices.

8.3.5 Installing internal devices

Internal devices such as room automation devices, devices for network technology or similar devices are secured in area A (see chapter 7.1 "Basic drawings", p. 19) of the installation column. Read the manuals and assembly instructions provided by the manufacturer to install internal devices.

Predrilled holes for mounting and securing internal devices are integrated in the rear wall of the column.

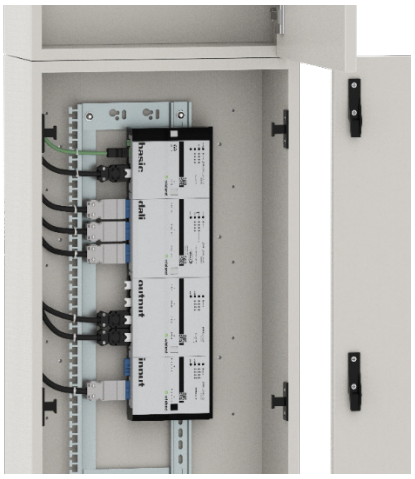

Figure 35: Installing internal devices, e.g. gesis® FLEX

Products provided by the customer, such as flush mounted sockets, loudspeakers, and clocks, as well as switches, sockets, and multimedia connections, etc., are installed on site in areas A, and possibly B1 and C (see chapter 7.1 "Basic drawings", p. 19). The fixed front in area A or B1 can only be detached if the door/front in the area above is unhinged/removed.

8.3.6 Unhinging doors / removing the fixed front

See chapter 8.5.2 "Unhinging doors / removing the fixed front", p. 48.

8.3.7 Attaching and connecting the distribution unit panel

The empty or assembled distribution unit panel is inserted and fixed in the installation space provided in area B (see chapter 7.1 "Basic drawings", p. 19) of the installation column. Use the enclosed screws and the attachment points provided to secure the unit.

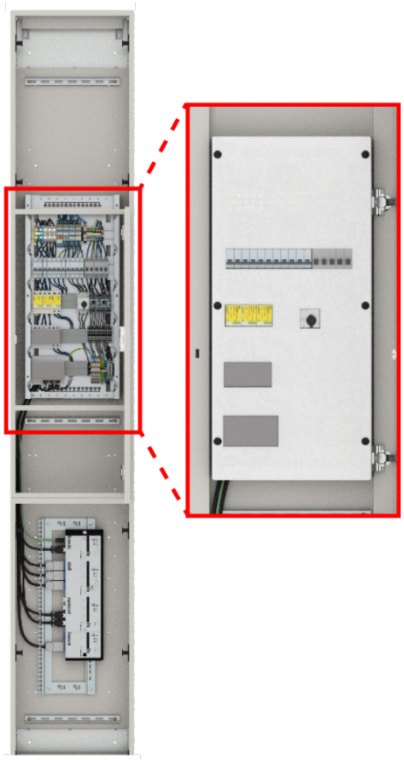

Figure 36: Attaching the distribution unit panel and the contact protection

Establish all the required electrical connections to the distribution unit panel. Make sure that the ground connection of the distribution unit panel complies with standards. Attach the contact protection following successful installation.

8.4 Installation Comfort

The installation column Comfort is installed in several steps.

8.4.1 Installing the body

A suitable mounting surface must be selected before the body can be installed.

Installation steps:

- ➡ Open the upper and lower parts, the two interlocks in area A and two interlocks in area B (see chapter 7.2 "Comfort drawings", p. 22) to the installation level can then be released using a hexagon socket.
- ➡ Separate the body and rear wall by swiveling up the upper and lower sections and opening the hinges.
- ➡ Position the rear wall on the mounting surface provided.

Use adjusting feet on the base element for fine adjustment and plumb installation:

- ➡ Loosen the screw connection on the base cover and then remove the base cover.
- ➡ A row of holes allows the adjustable feet to be set to different heights. To do so, unscrew the hexagon connection and move the adjustable feet to the required hole.
- ➡ The adjustable feet must be adjusted to a height where they are stable and can be fine adjusted. Turn the adjustable feet in a clockwise or counterclockwise direction.

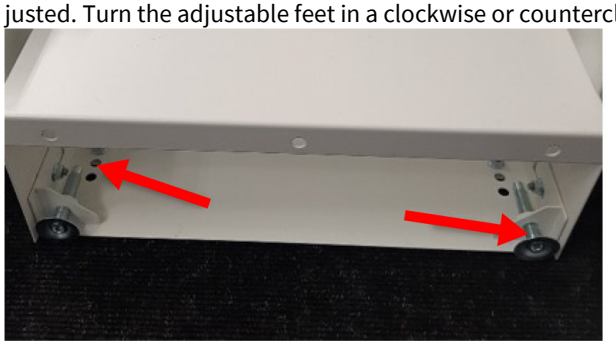

Figure 37: Adjustable feet

- ➡ Then attach the panel back onto the base element.
- ➡ If necessary, establish a seal between the base element and the floor (silicone lip) so that water cannot enter the column from below.

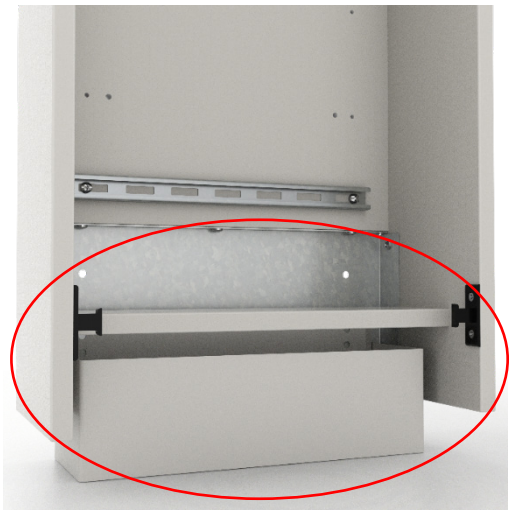

Figure 38: Base element

➡ Install the rear wall on the mounting surface provided.
➡ Fix the lower section to the rear wall.
➡ Join the upper and lower sections and fix to the rear wall.

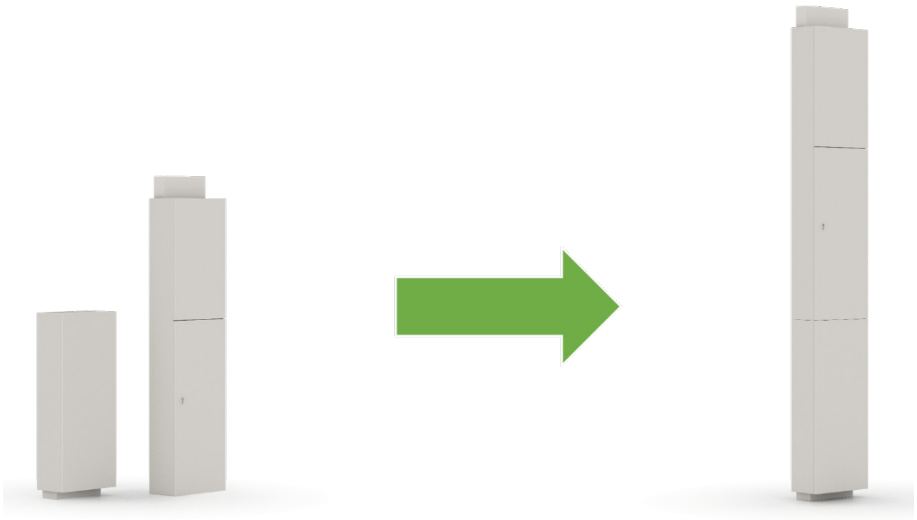

Figure 39: Joining the lower and upper sections of the body together

Attach the ceiling connection element for installing the column flush with the ceiling:

➡ Loosen the butterfly screws.
➡ Adjust the height of the ceiling connection element so that it is flush with the ceiling.
➡ Tighten the butterfly screws again.

Figure 40: Ceiling connection element

8.4.2 Adjusting the doors

See chapter 8.5.1 "Adjusting the doors", p. 48.

8.4.3 Cable entry in the installation column Comfort

Once the body has been installed successfully, the cables can be routed. All incoming and outgoing cables can be fed in from above or below and are routed via the preinstalled C 30 rails. One C 30 rail is located in the lower section of the installation column and two are located in the upper section of the column.

Figure 41: Cable routing via preinstalled C 30 rails

The wiring leading from the floor to the ceiling or vice versa is laid centrally behind the distribution unit panel. All international, national and regional directives, standards, safety instructions and safety rules must be observed when installing the wiring for internal devices.

8.4.4 Installing internal devices

Internal devices such as room automation devices, devices for network technology or similar devices are secured in area A (see chapter 7.2 "Comfort drawings", p. 22) of the installation column. Read the manuals and assembly instructions provided by the manufacturer to install internal devices.

Predrilled holes for mounting and securing internal devices are integrated in the rear wall of the column.

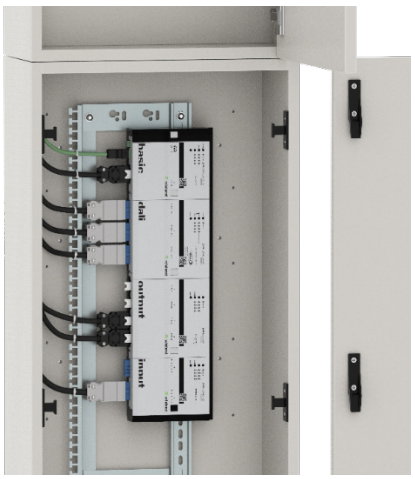

Figure 42: Installing internal devices, e.g. gesis® FLEX

Flush mounted sockets, loudspeakers, and clocks as well as switches, sockets, and multimedia connections, etc. are installed on site in areas A, and possibly B1 and C (see chapter 7.2 "Comfort drawings", p. 22). The fixed front in area A or B1 can only be detached if the door/front in the area above is unhinged/removed.

8.4.5 Unhinging doors / removing the fixed front

See chapter 8.5.2 "Unhinging doors / removing the fixed front", p. 48.

8.4.6 Attaching and connecting the distribution unit panel

The empty or assembled distribution unit panel is inserted and fixed in the installation space provided in area B (see chapter 7.2 "Comfort drawings", p. 22) of the installation column. Use the enclosed screws and the attachment points provided to secure the unit.

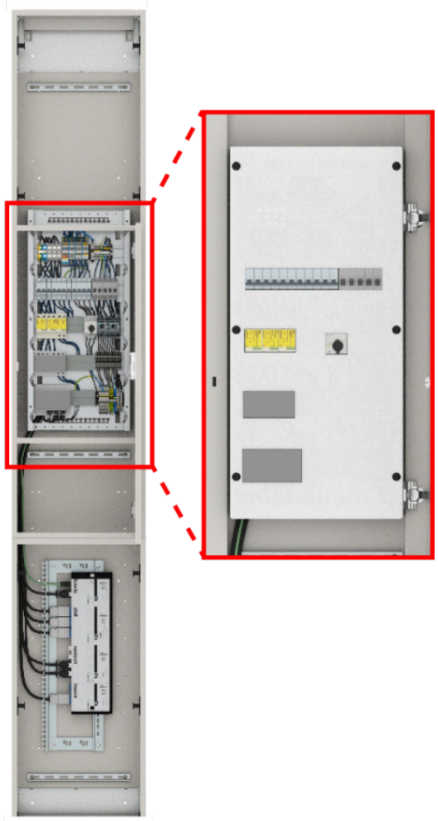

Figure 43: Attaching the distribution unit panel and the contact protection

Establish all the required electrical connections to the distribution unit panel. Make sure that the ground connection of the distribution unit panel complies with standards. Attach the contact protection following successful installation.

8.5 Adapting the doors

8.5.1 Adjusting the doors

The doors have already been adjusted. However, the doors may have to be readjusted on site. This is possible using the door hinges as follows.

Visit https://www.blum.com/us/en/products/hingesystems/clip-top-blumotion/assembly/ for detailed information on adjustment options for the hinges.

8.5.2 Unhinging doors / removing the fixed front

- ➡ Check that the doors/fronts have been removed from the area above.
- ➡ The hinge must be opened for the door to be unhinged. Visit https://www.blum.com/us/en/products/hingesystems/clip-top-blumotion/assembly/ for detailed information on adjustment options for the hinges.
- ➡ To remove the fixed front, push the front upward, applying slight pressure until the hinge system becomes detached.

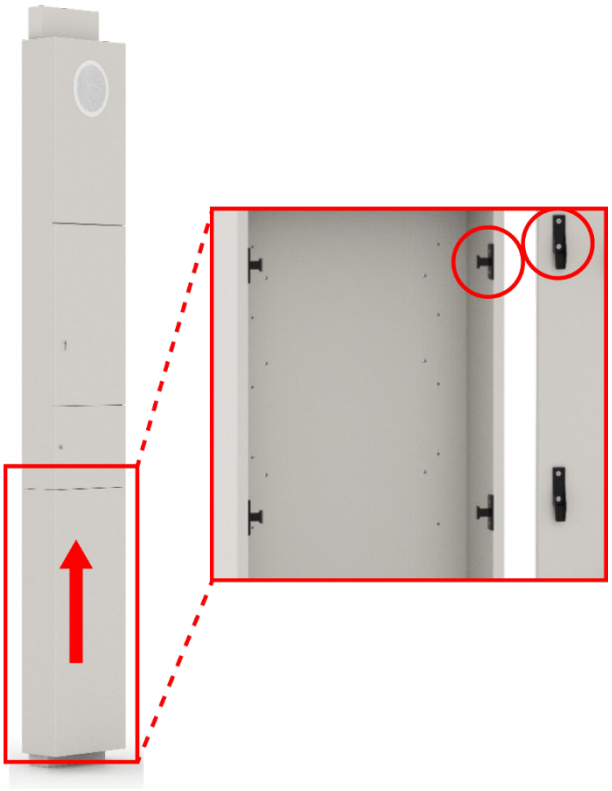

Figure 44: Removing the fixed front

8.6 Installation column checklist

DANGER

Risk of fatal injury from improperly secured column tipping over

- The installation column may tip over if not secured properly. If the installation column tips over, it may result in serious or even fatal injuries.
- The installation column must be secured to the wall properly using sufficiently strong screws and anchors.
- The person installing the installation column is responsible for providing the necessary mechanical fastening.
- Make sure that:
  - a suitable mounting surface is used.
  - the installation column is installed upright.
  - the installation column is adequately mechanically secured.

DANGER

Danger to life from electric shock

Make sure that:

- all the necessary tests have been conducted by a qualified electrician and the unit has been accepted.
- all necessary protective conductor connections have been made at the end of the installation.
- the contact protection cover is attached to the distribution unit panel to complete the installation.

Make sure that:

- enough space is available to open and close the doors / fronts.
- the installation column is always easy to access for visual inspections and maintenance work.

9 COMMISSIONING

All international, national and regional guidelines, standards, safety instructions and safety regulations must be observed throughout the entire life cycle of the product.

The commissioning of the components is the exclusive responsibility of qualified electricians. The legally binding and valid regulations for electrical installations must be observed.

Distribution boxes with electronic components may require commissioning and configuration. The necessary manuals are enclosed with the distribution box and can be found on the manufacturer's homepage.

Once the installation column has been mounted and installed correctly, a qualified electrician must test and release the column.

During installation and commissioning, you must make sure that the necessary EMC directives are complied with.

10 OPERATION

10.1 Installation column Basic

The operating concept of the gesis® INS Basic is the same for both surface and flush mounting.

The elements on the front can be accessed freely by anyone. These elements may include switches for the lighting, socket units, media connections, and other internal devices.

The fixed front elements or doors attached to the body can only be opened by authorized personnel and give access to the interior for operation purposes or access to integral components or cable entries. Here, it must be ensured that instructed personnel are qualified to open locked doors, e.g. to access protection/switching devices. Only qualified electricians are permitted to remove panels to access the installation level.

Before operating any internal devices, carefully read the device manual provided by the manufacturer.

10.2 Installation column Comfort

The operating concept of the gesis® INS Comfort is constructively implemented as a triple operating level concept.

The elements on the front and any existing telephone compartments can be freely accessed and used by anyone. These elements may include switches for the lighting, socket units, media connections, and other internal devices.

Instructed personnel are permitted to open locked doors, e.g. to access protection/switching devices. Electricians can swing open the entire front of the lockable column to gain sufficient access to the installation level for installation and maintenance purposes, etc. Only authorized persons are permitted to open the lockable doors or the swiveling body.

Before operating any internal devices, carefully read the device manual provided by the manufacturer.

11 MAINTENANCE

All international, national and regional guidelines, standards, safety instructions and safety regulations must be observed throughout the entire life cycle of the product.

The installation column must be installed within easy reach to perform any essential maintenance.

DANGER

Danger to life due to electric shock when using tools

After opening the housing, the distribution box is only finger and back-of-hand safe.
Always follow the safety regulations.

WARNING

In general, all national and international specifications, standards and guidelines must be observed and applied. This also applies to the use of aids such as lifting platforms or ladders.

Always use a dry cloth to clean the distribution box. Do not use cleaning agents. Water must not enter the installation column!

Use a slightly damp cloth to clean the outside of the installation column.

Any maintenance work may only be carried out by qualified electricians.

Tampering with the distribution box

The CE declaration only refers to the original model of the distribution box. If components are replaced, identical components according to the parts list must be used, otherwise the warranty will be void.

NOTE

- Replacing components with similar or other components voids the warranty as well as the CE declaration and therefore the operating license for the distribution box. The qualified electrician who carried out the modification is responsible for issuing a new CE declaration in accordance with the standards and directives applicable at that time.
- Changes to the distribution box render this manual invalid. The qualified electrician who made the change is responsible for updating or creating a new manual.

12 DISASSEMBLY

12.1 Disassembly steps

➡ Disconnect the distribution box from the power supply.

Danger to life from electric shock

Always observe the five safety rules specified in DIN VDE 0105:
1. Disconnect from the power.
2. Secure against restart.
3. Establish the absence of any voltage.
4. Ground and short-circuit.
5. Cover or fence off adjacent live parts. Disconnect all connectors from the housing.

➡ Disconnect all electrical and mechanical connections from the housing.
➡ Detach the installation column from the mounting surface using a suitable tool.

12.2 Storage

Store the distribution box in a dry place protected from mechanical damage until it is recommissioned.

12.3 Recommissioning

For information on correct recommissioning, see chapter 8.6 "Installation column checklist", p. 49.

13 DISPOSAL

The WEEE Directive (Waste Electrical and Electronic Equipment: 2012/19/EU) has been introduced to ensure that electrical/electronic products are recycled using the best available recovery techniques to minimize the impact on the environment. This product contains high quality materials and components which can be recycled. At the end of its life cycle, this product must not be mixed with other commercial waste for disposal.

NOTE For its disposal, this product should be treated as waste containing electrical and electronic equipment and should not be disposed of as household waste. EAK: 16 02 16

If the distribution box is defective, it must be disposed of or sent to Wieland Electric GmbH for repair. To initiate the process, contact your responsible contact partner.

In the event of independent troubleshooting, the warranty and the CE declaration of conformity are voided.

14 SERVICE AND SUPPORT

Service-Hotline:

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Email: building@wieland-electric.com

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