SeT Series

MCSeT

Digitally Native Upto 24 kV
Air-insulated Switchgear
With EvoPacT HVX Vacuum Circuit Breaker

Civil Engineering Guide

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06/2025

Schneider Electric

www.se.com

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SeT Series

Featuring outstanding medium-voltage (MV) and low-voltage (LV) switchboards, motor control centres and power distribution solutions for high-performance power applications, Schneider Electric's SeT Series is optimized solutions based on high levels of safety and an optimized footprint. Built on a modular architecture and incorporating smart connected devices for maximum safety, reliability, performance and energy efficiency, the SeT Series is delivered to customers directly from our Schneider Electric plants or via a global network of licensed partner panel builders, who are trained and audited to provide quality equipment and support.

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Safety Information

Important Information

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

Safety Precautions

Safety Rules

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate Personal Protective Equipment (PPE) and follow safe electrical work practices. See standards or local equivalent.
- This EvoPacT HVX Vacuum Circuit Breaker and the MCSeT equipment must only be installed and serviced by qualified electrical personnel.
- Perform work only after reading and understanding all of the instructions contained in this guide.
- Turn off all the power sources before working on or inside the equipment.
- Turn off or trip the Vacuum Circuit Breaker (VCB) and discharge the mechanism.
- Always use a properly calibrated voltage sensing device to confirm power is off.
- Use only Schneider Electric specific tools (operating crank, extraction table, and so on).
- Check all devices, covers, and doors are in correct position before turning on the power.
- Beware of potential hazards and carefully inspect the work area for tools and objects that may have been left inside the equipment.
- Do not modify the mechanical or electrical parts.
- Do not bypass the interlocks before operation.
- Do not operate with protective barriers removed.

Failure to follow these instructions will result in death or serious injury.

NOTICE

HAZARD OF INCORRECT HANDLING AND INADEQUATE STORAGE CONDITION

- Comply with the handling rules and avoid causing any shocks to the device.
- If the equipment is stored before its final installation, observe the storage conditions.

Failure to follow these instructions can result in equipment damage.

Cleaning Instructions

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Do not use solvents or alcohol for cleaning the equipment.
- Do not use high-pressure cleaner for cleaning the equipment.

Failure to follow these instructions will result in death or serious injury.

About the Document

Intended Use

This civil engineering guide describes about air-insulated MV switchgear units of the MCSeT.

The operations described in this guide should be performed by a qualified personnel with proven experience regarding:

- The MCSeT series
- All relevant safety provisions

This civil engineering guide is the integral part of the product and should be stored such that it is readily accessible at all times and can be used by persons who work on the switchgear. If the switchgear is relocated to another site, this guide should be passed on to the new operator along with the unit.

This guide does not describe every imaginable individual case or every customer-specific version of the product. For more information that is not included in this guide, contact Schneider Electric.

Validity Note

This guide is valid only for MCSeT cubicle. The design provides easy rack-in/rack-out operation without the need for a separate trolley. This MCSeT cubicle is an extension of the MCSeT range and delivers performances up to 24 kV, equipped with EvoPacT HVX VCB and CVX Contactor. It also has other functional trolley like the EvoPacT Metering Truck (MTX).

For product compliance and environmental information (RoHS, REACH, PEP, EOLI, and so on), go to the Green Premium page on the Schneider Electric website.

The information contained in this guide is likely to be updated at any time. Schneider Electric strongly recommends that you have the most recent and up-to-date version available on www.se.com/ww/en/download.

The technical characteristics of the devices described in this guide also appear online. To access the information online, go to the Schneider Electric home page at www.se.com.

Product Related Information

Air-insulated MV switchgear units of the MCSeT series are designed exclusively for switching and distributing electrical power.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The MCSeT switchgear must be used only in scope of specified standards and specific technical data.

Failure to follow these instructions will result in death or serious injury.

Safety Provisions

Introduction

Before performing work on the cubicle, it is essential that you comply with the following instructions:

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Before removing covers and performing assembly or maintenance work:

- Ensure that the system is isolated from high voltage, supply voltage, and properly grounded.
- Ensure that the VCB/Contactor is in test condition, the Earthing Switch (E/S) is closed, and access is locked.
- Follow the Lock Out Tag Out (LOTO) process to perform any work on switchboard.
- Install barriers, cables, and polycarbonates in accordance with the design specifications wherever necessary.

Failure to follow these instructions will result in death or serious injury.

⚠WARNING

HAZARD OF MOVING PARTS IN MECHANICAL DRIVES

Before performing mounting and maintenance work, comply with the below safety rules:

- Isolate from the supply voltage.
- Release the energy-storing device of the VCB by performing the OFF-ON-OFF operation.
- Activate the make-proof E/S to ON position, to ensure that the equipment is ready for use (if any).
- Do not remove the mechanisms during maintenance work.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠WARNING

HAZARD OF SHARP-EDGED SHEET METAL AND METAL PARTS

During installation and maintenance work, comply with the below safety rules:

- Apply appropriate PPE and follow safe electrical work practices. See standards or local equivalent.
- Always cover sharp edges.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Applicable Standards and Regulations

The applicable standards and regulations are as follows:

- Metal-enclosed AC switchgear for rated voltages > 1 kV up to including 52 kV: IEC 62271-200, Common specification: IEC 62271-1.
- The locally applicable accident prevention, operating and work instructions should be complied.
- Assembly and maintenance: IEC 61936-1.
- Operation of electrical equipment: EN 50110-1.

NOTE:

- The national standards applicable in the country where the equipment is to be installed should be complied.
- Other standards or regulations have to be checked and accessed locally.

Behavior in case of Incidents or Accidents

If an internal arc fault occurs, the MCSeT switchgear is equipped with pressure relief absorbers or ports to help prevent the cubicles and switchgear from being blown off.

This civil engineering guide does not include information regarding the safety of buildings in case of internal faults (pressure load of the switchgear room and necessary pressure relief ports). Pressure calculations for switchgear rooms, including recommendations for pressure relief ports, are available upon request for a fee. For more details, contact Schneider Electric.

In case of fire or internal faults, toxic and caustic decomposition products are produced. Comply with the locally applicable accident and safety provisions.

Make sure that the first-aid measures are taken in case of injury to persons.

Dimensions and Weights

Cubicles without Internal Arc Accessories

The list of cubicles with one Current Transformer (CT) per phase in the MCSeT are:

- Incomer/Feeder (I/F)
- Bus Section Coupler (BSC)
- Bus Section Riser (BSR)
- Busbar Metering and Earthing (BME)

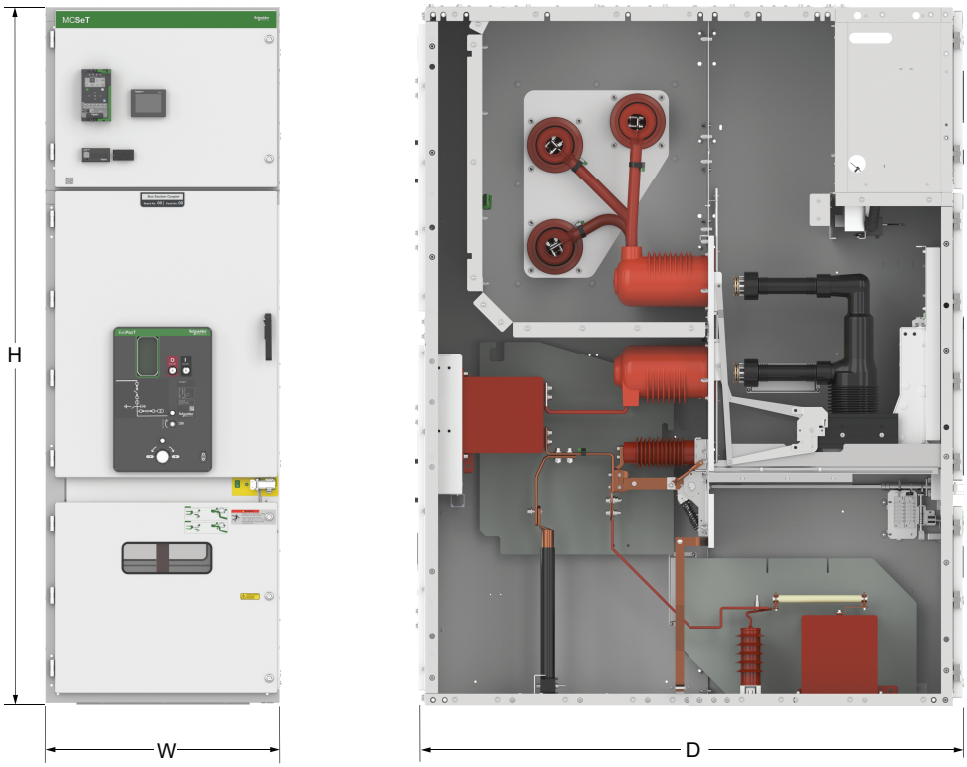


Figure 1
Dimensions of Cubicles

NOTE: The images shown here are for illustration purpose only.

Table 1 Dimensions of I/F, BSC, BSR, and BME Cubicles

Rated voltage (kV)	Dimensions	I/F			BSC			BSR			BME		
	Width W (mm)	**650**	**800**	**1000**	**650**	**800**	**1000**	**650**	**800**	**1000**	**650**	**800**	**1000**
12/17.5	Height H (mm)(1)	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	2240	–
	Depth D (mm)(2)	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	–
	Approximate weight with packing (kg)(3)	800	920	1050	720	840	970	480	630	750	470	720	–
	Approximate weight without packing (kg)(3)	700	820	950	620	740	870	380	530	650	350	620	–
24	Height H (mm)(1)	–	2400	2400	–	2400	2400	–	2400	2400	–	2400	2400
	Depth D (mm)(2)	–	1860	1860	–	1860	1860	–	1860	1860	–	1860	1860
	Approximate weight with packing (kg)(3)	–	1160	1470	–	1190	1510	–	800	1030	–	765	980
	Approximate weight without packing (kg)(3)	–	1020	1330	–	1120	1440	–	730	960	–	700	910

(1) The specified height covers standard LV compartment and does not include internal arc accessories.

(2) The mentioned depth refer to a single CT with bottom cable entry; it may differ for other designs.

(3) Fully equipped cubicle with surge arrester and fixed Voltage Transformer (VT).

NOTE:

- For a 4000 A cubicle with a width of 1000 mm, the depth is 1640 mm.
- All weights mentioned in this document may vary. The actual weights are specified on the cubicle packaging.

Switchboard Tunnel

Switchboard with Internal Arc Accessories

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Do not step on the switchboard roof to access the device and avoid installing any devices such as lamps above the switchboard.
- Ensure to maintain Schneider recommended minimum ceiling height for internal and external exhaust. For details, refer to Figure 2, Figure 3, Figure 4 and Figure 5.

Failure to follow these instructions will result in death or serious injury.

Recommendations

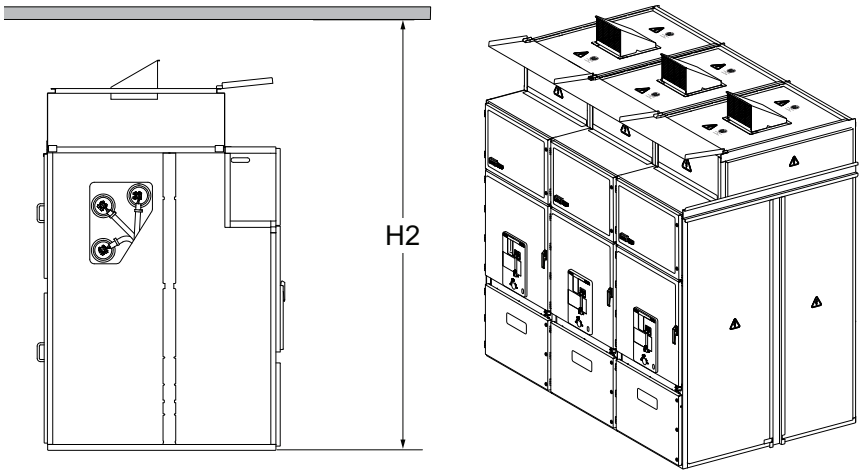


Figure 2
Ceiling Height for Internal Exhaust

NOTE: The images shown here are for illustration purpose only.

Table 2 Ceiling Height for Internal Exhaust

Rated voltage (kV)	Ceiling height H2 (mm)
12/17.5	3400
24	3500

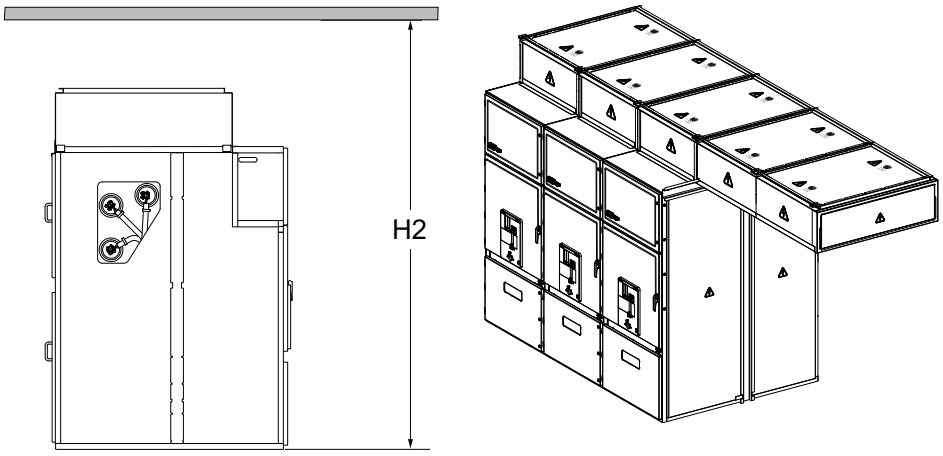


Figure 3
Ceiling Height for External Exhaust 12/17.5 kV

NOTE: The images shown here are for illustration purpose only.

Table 3 Ceiling Height for External Exhaust 12/17.5 kV

Rated voltage (kV)	Ceiling height H2 (mm)
12/17.5	3000

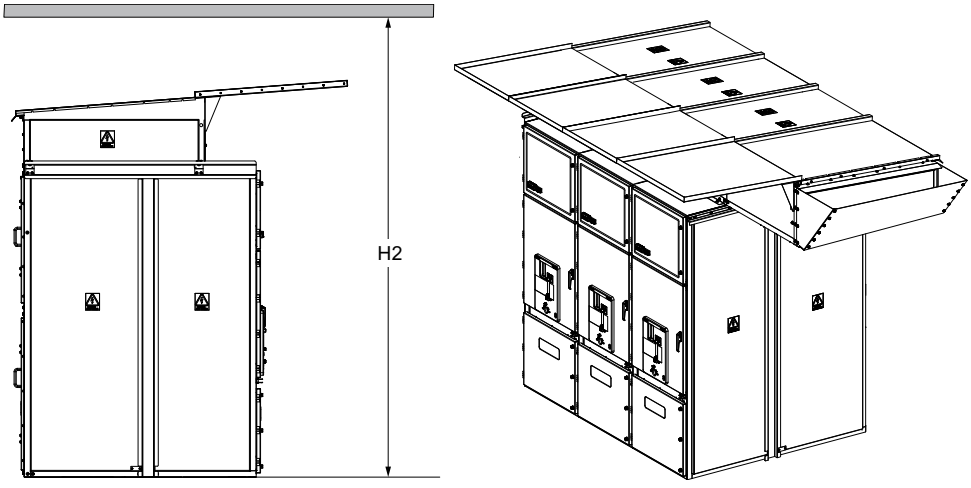


Figure 4
Ceiling Height for IP 41/42 External Exhaust 24 kV

NOTE: The images shown here are for illustration purpose only.

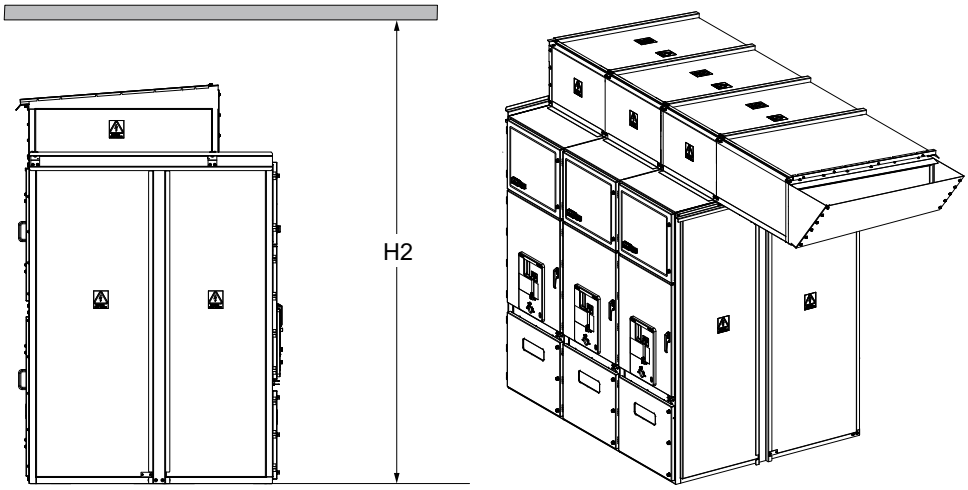


Figure 5
Ceiling Height for IP 4X External Exhaust 24 kV

NOTE: The images shown here are for illustration purpose only.

Table 4 Ceiling Height for External Exhaust 24 kV

External Exhaust	Ceiling height H2 (mm)
IP 41/42	3280
IP 4X	3150

Switchboard Spacing

⚠CAUTION

HAZARD OF INCORRECT DIMENSIONS

Adhere to the specified spacing dimensions of the switchboard mentioned in Civil Engineering with Maintenance Space/Cable Trench, page 15.

Failure to follow these instructions can result in injury or equipment damage.

Civil Engineering with Maintenance Space/Cable Trench

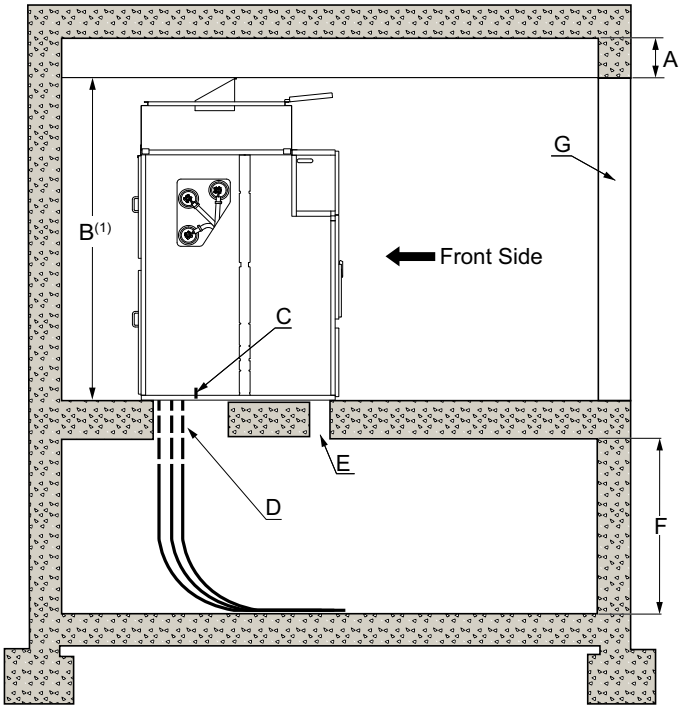


Figure 6
Civil Engineering with Maintenance Space/Cable Trench

A This space should remain clear to allow for the opening of the gas exhaust outlets in the event of internal arcing. Do not keep any devices in this zone (lights, equipment storage, cable tray, air condition duct, beam, and so on). It is also the location for the installation of the tunnel.

Cubicle	Dimension A (mm)	
	12/17.5 kV	24 kV
External exhaust	200	200
Internal exhaust	420	380

B Total height of the cubicle height with internal exhaust/external exhaust.

Cubicle	Dimension B (mm)		
	12/17.5 kV	24 kV	
	IP4X	IP41/42	IP4X
External exhaust	2710	3080	2950
Internal exhaust	2970	3140	3070

C Main earthing bar.

D Reserved slab space for routing the MV cables.

E Reserved slab space for routing of LV cables.

F The height of the cable trench should be kept in line with the cable's bending radius, as outlined in the supplier's catalog.

G Access to room.

(1) Minimum dimensions to be complied with when installing the MCSeT switchboard with minimum LV box height.

NOTE:

- The depth of the maintenance space should be equal to the bending radius of the cables being used. This helps to prevent cables from experiencing undue stress.
- To place the ramp and remove the withdrawable VT (WVT) from the front side, a minimum of 2000 mm of space is required.

Spacing Around the Switchboard

⚠CAUTION

HAZARD OF INCORRECT DIMENSIONS

Adhere to the specified spacing dimensions around the switchboard, refer to Figure 5.

Failure to follow these instructions can result in injury or equipment damage.

Top view of the switchboard

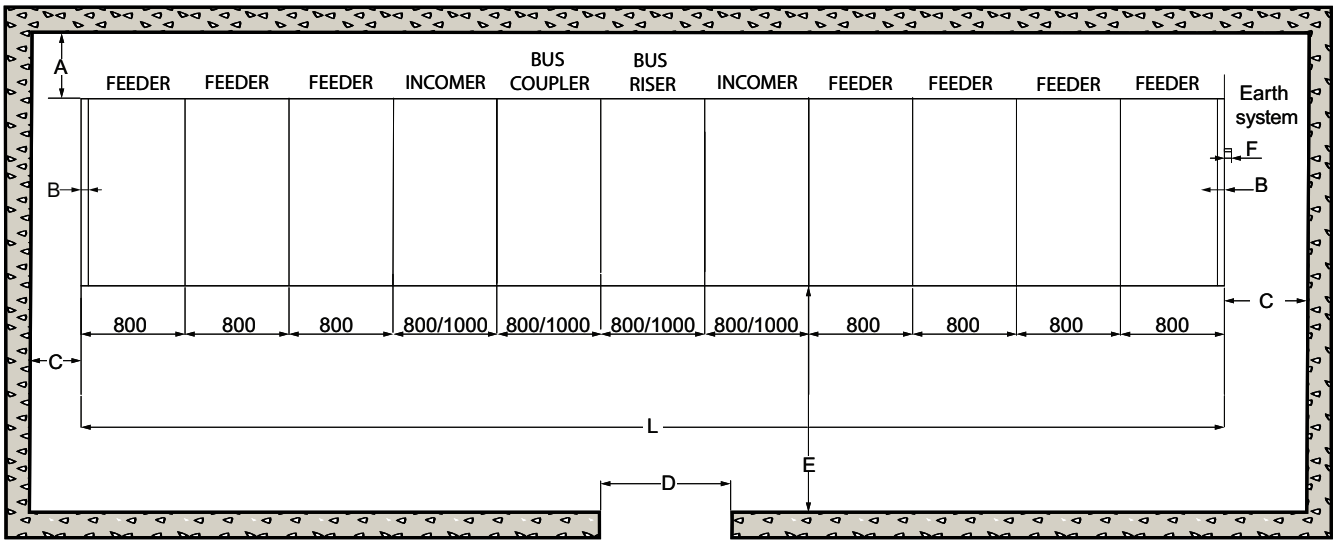


Figure 7
Top View of the Switchboard and Surrounding Spacing

The L dimension depends on the cubicles of the switchboard.

A: This dimension should be equal to:

- 200 mm for AFL (Accessibility Front Lateral) type of cubicle.
- Minimum 800 mm for AFLR (Accessibility Front Lateral Rear) type of cubicle.

B: 35 mm end cover.

C: Should be 800 mm for lateral access & 500 mm if no access.

D: Minimum 1200 mm for opening the door.

E: The dimensions are as follows:

- Minimum distance for operating must be 1500 mm (minimum distance for face-to-face switchboard configuration must be 2500 mm).
- 1550 mm for operation (extraction and positioning of mobile parts).
- 2060 mm for the extraction of one cubicle with a depth of 1860 mm without displacing the others.
- 1640 mm for the extraction of cubicle with a depth of 1440 mm and 1840 mm for the extraction of cubicle with a depth of 1640 mm without displacing the others.
- To place the ramp and remove the Withdrawable VT (WVT) from the front side, a minimum of 2000 mm of space is required.

F: Main earth bar for the switchboard.

NOTE:

- The cubicle is used for different cubicle setups, including feeder/incomer, bus coupler, bus riser, and bus metering configurations.
- For the extraction of the cubicle, contact Schneider Electric field service.

Position of MV Cables

I/F Cubicle with 1 CT per Phase – 12/17.5 kV, 650 mm

The maximum external cable diameter for single-core cables is Ø 50 mm.

Maximum allowable cable size is 630 mm^2.

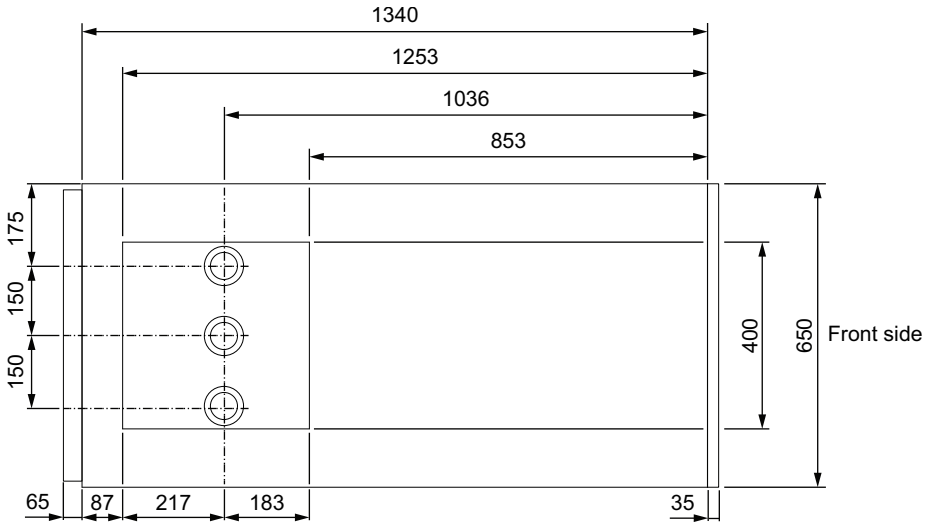


Figure 8
MV Cable Entry with a Single Run

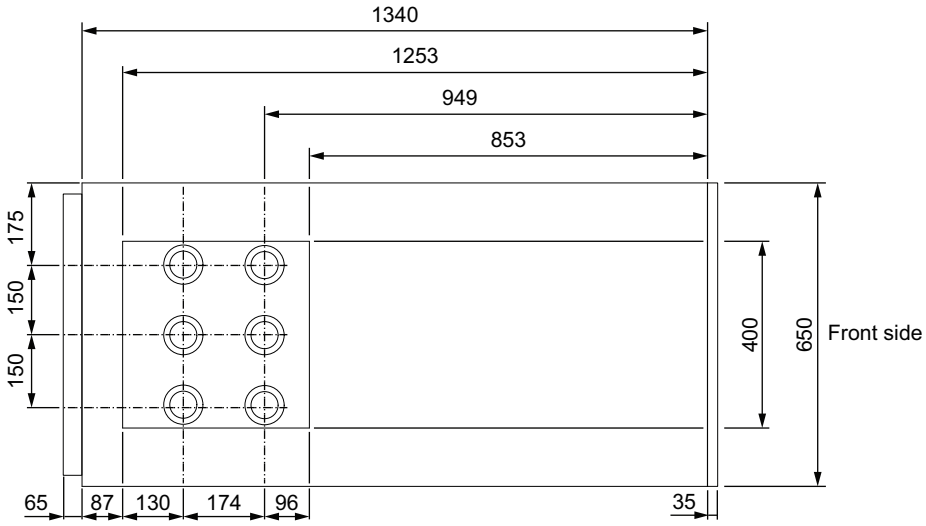
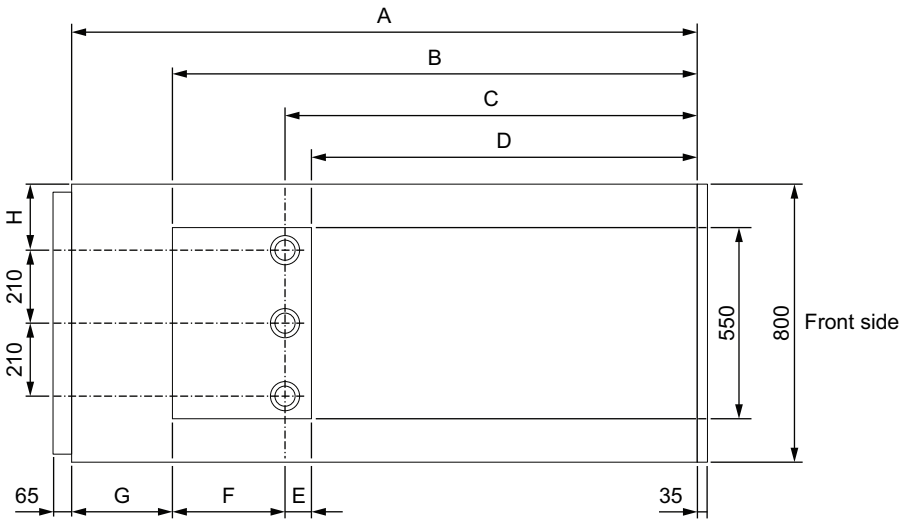


Figure 9
MV Cable Entry with Two Runs

I/F Cubicle with 1 CT per Phase – 800 mm

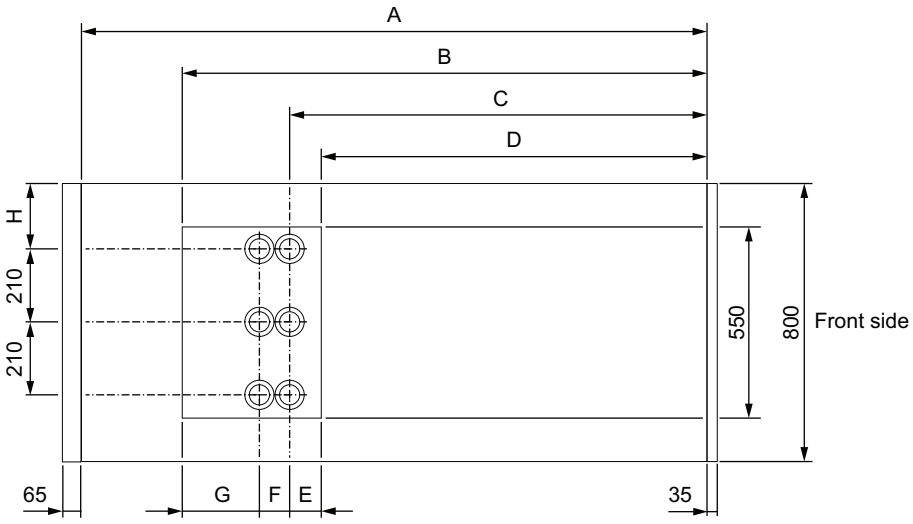
The maximum external cable diameter for single-core cables is Ø 50 mm.

Maximum allowable cable size is 630 mm^2.



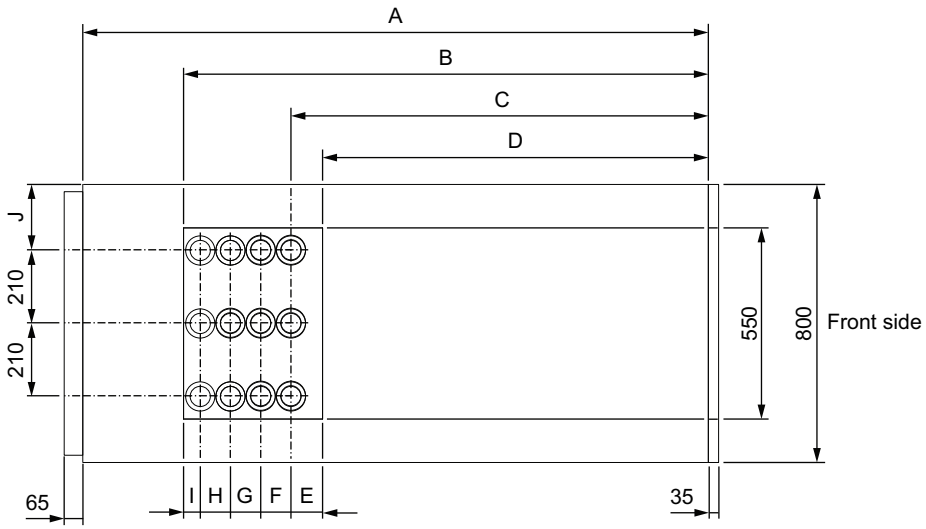
Voltage rating (kV)	Dimension (mm)							
	A	B	C	D	E	F	G	H
12/17.5	1340	1253	1012	853	159	241	87	190
24	1800	1510	1186	1110	76	324	288	190

Figure 10
MV Cable Entry with a Single Run



Voltage rating (kV)	Dimension (mm)							
	A	B	C	D	E	F	G	H
12/17.5	1340	1253	1012	853	159	87	154	190
24	1800	1510	1201	1110	91	87	222	180

Figure 11
MV Cable Entry with Two Runs



Voltage rating (kV)	Dimension (mm)									
	A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**
12/17.5	1340	1253	925	853	72	87	87	87	67	190
24	1800	1510	1201	1110	91	87	87	87	48	190

Figure 12
MV Cable Entry with Four Runs

I/F Cubicle with 1 CT per Phase – 12/17.5 kV, 1000 mm

The maximum external cable diameter for single-core cables is Ø 50 mm.

Maximum allowable cable size is 630 mm^2.

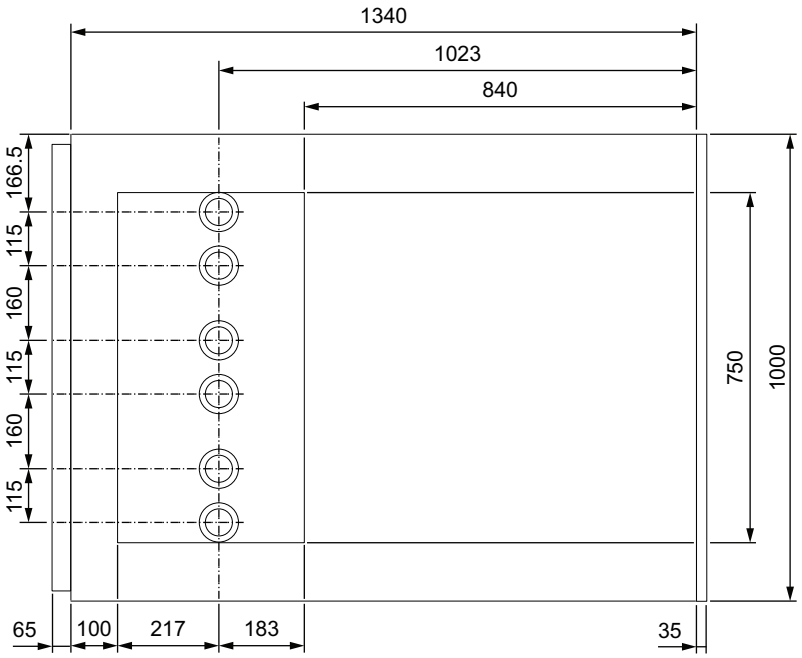


Figure 13
MV Cable Entry with Two Runs

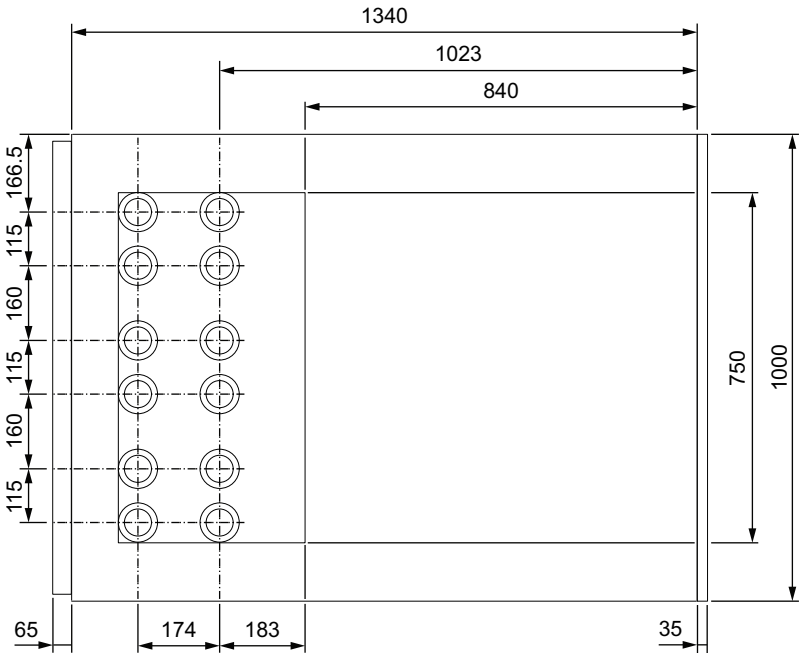


Figure 14
MV Cable Entry with Four Runs

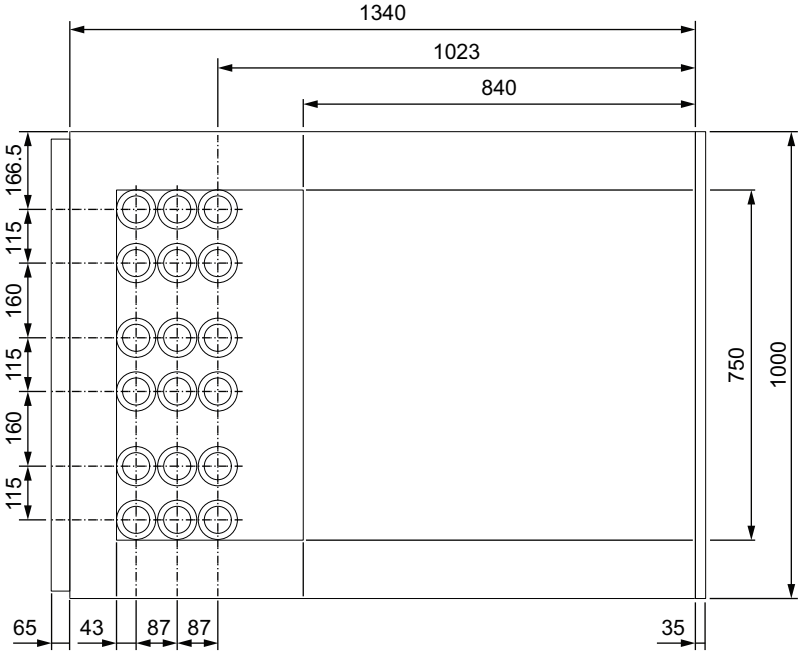


Figure 15
MV Cable Entry with Six Runs

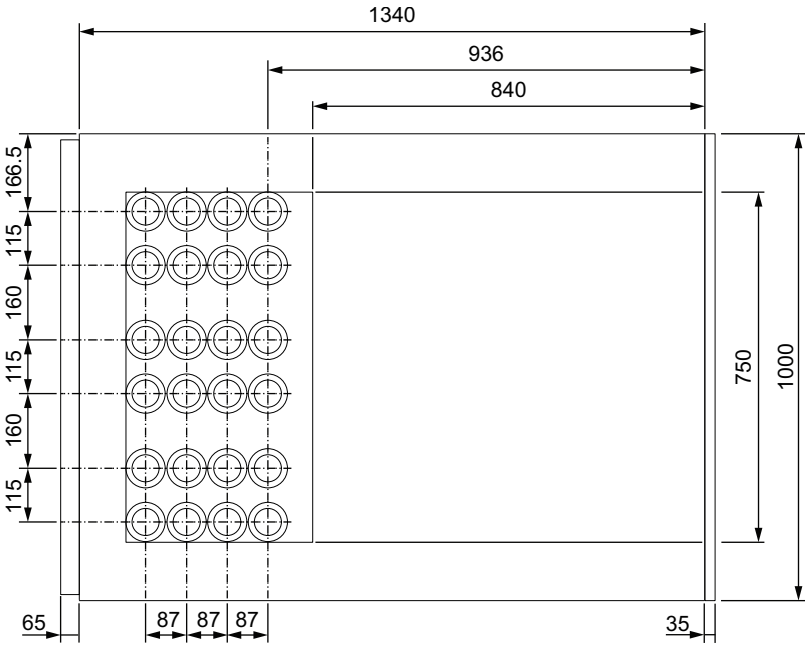


Figure 16
MV Cable Entry with Eight Runs

I/F Cubicle with 1 CT per Phase – 24 kV, 1000 mm

The maximum external cable diameter for single-core cables is Ø 50 mm.

Maximum allowable cable size is 630 mm^2.

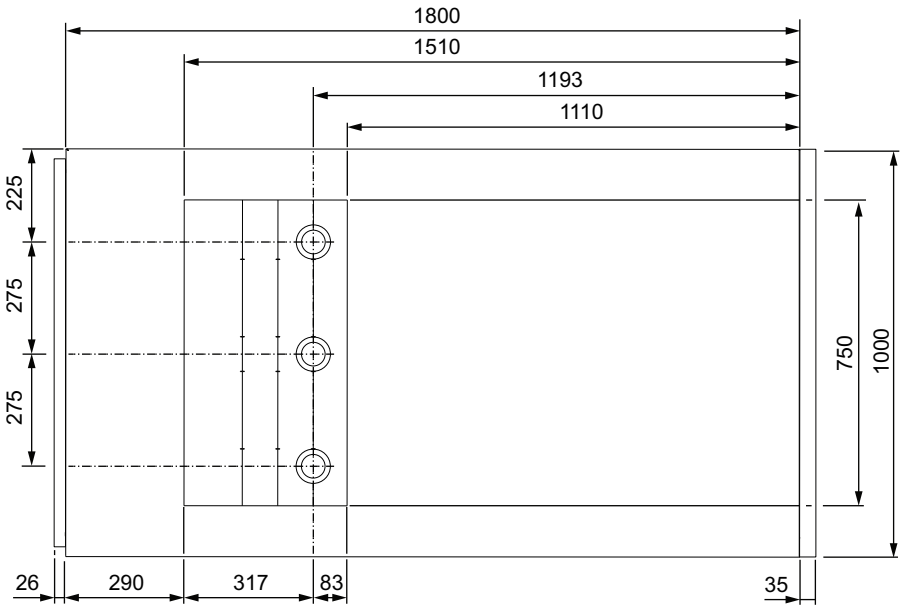


Figure 17
MV Cable Entry with a Single Run

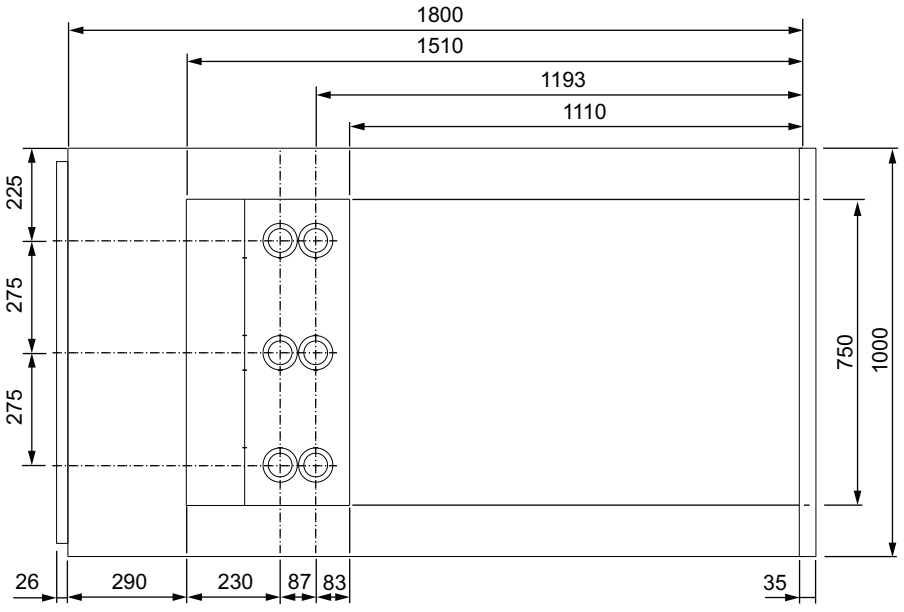


Figure 18
MV Cable Entry with Two Runs

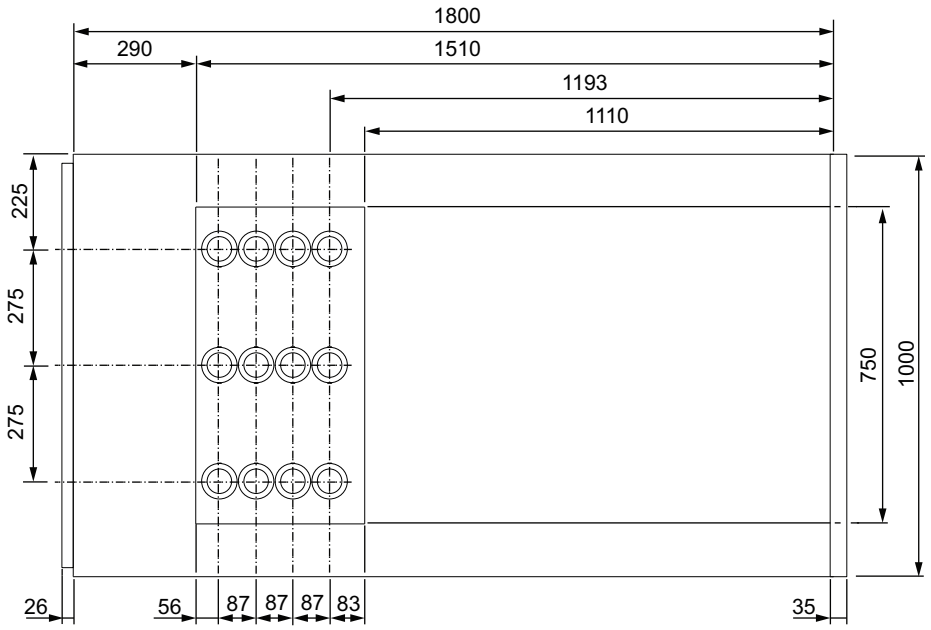


Figure 19
MV Cable Entry with Four Runs

Top Busway Entry

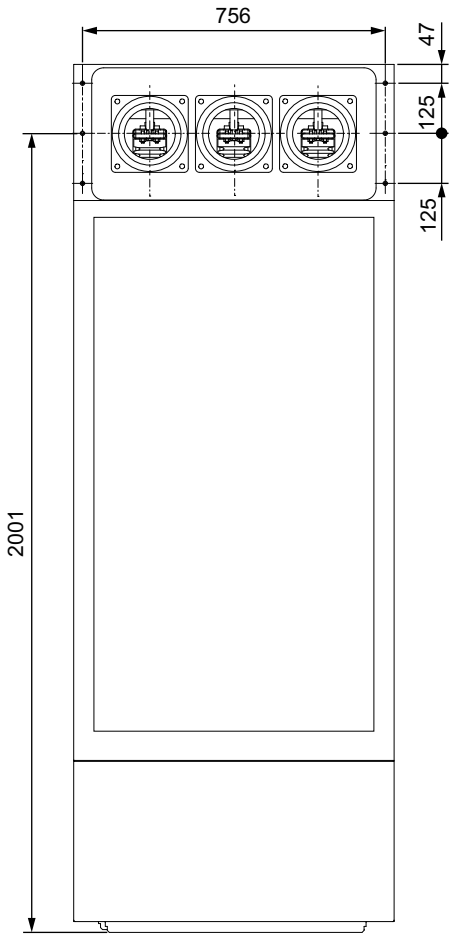


Figure 20
Top view of 800 mm Top Busway Entry Cubicle 24 kV

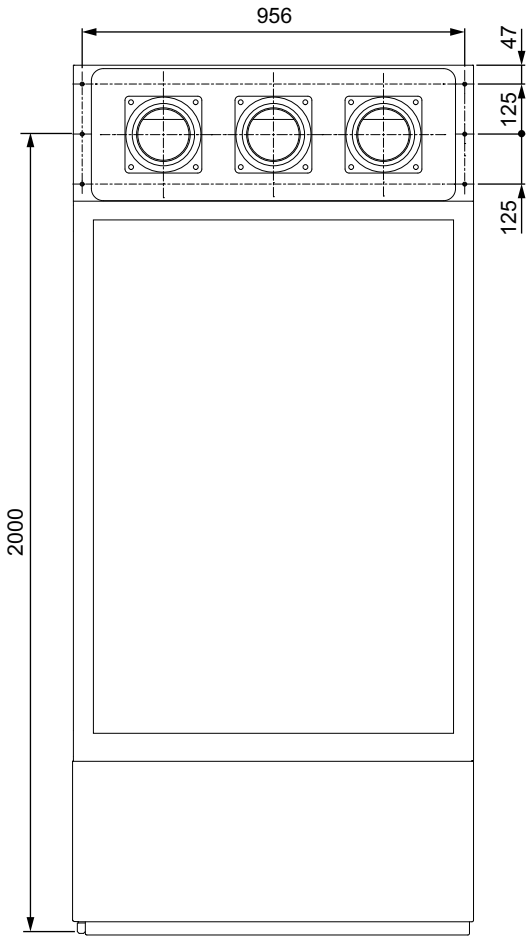


Figure 21
Top view of 1000 mm Top Busway Entry Cubicle 24 kV

Civil Works Slab

Reserved Area in Civil Works Slab

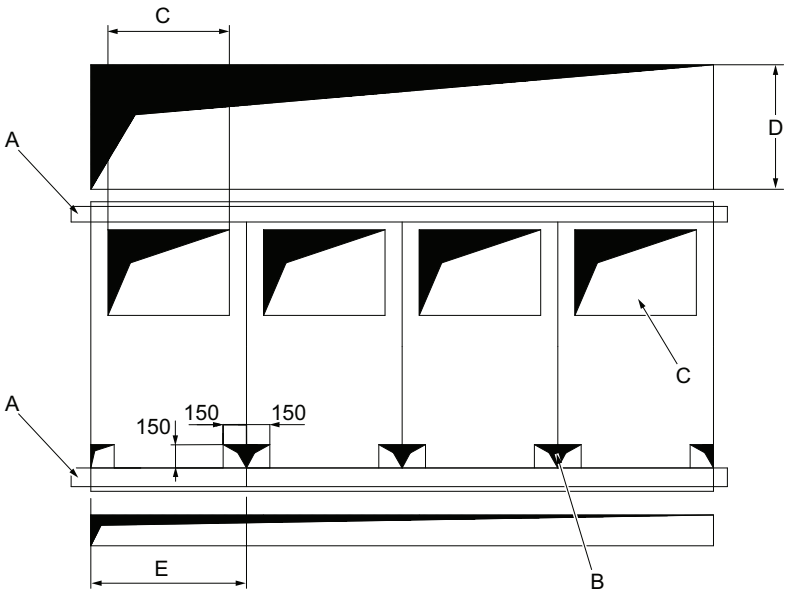


Figure 22
Ground Plan of a MCSeT Switchgear Within a Switchgear Room

A	C-channel rail
B	Opening for routing external low-voltage cables
C	Opening for routing high-voltage cables
D	The depth of the cable trench should be maintained according to the bending radius of the cable, as specified in the supplier's catalog
E	The width of the cubicles

Cubicle width E (mm)	**Dimension C (mm)**	
	Rated voltage 12/17.5 kV	**Rated voltage 24 kV**
650	400	–
800	550	550
1000	750	750

Detailed View of Bottom Plate

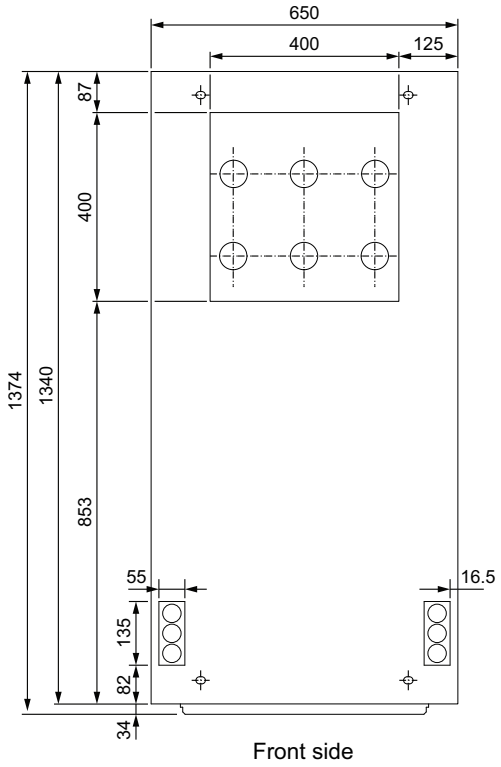


Figure 23
Bottom Plate of 650 mm Cubicle

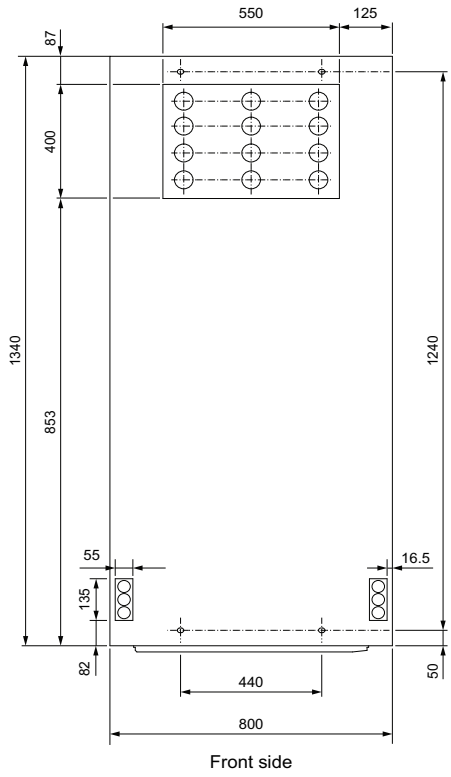


Figure 24
Bottom Plate of 800 mm Cubicle 12/17.5 kV

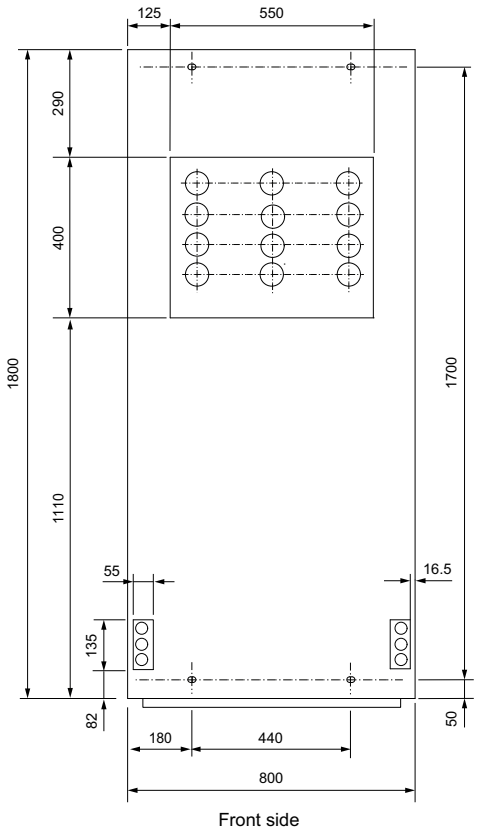


Figure 25
Bottom Plate of 800 mm Cubicle 24 kV

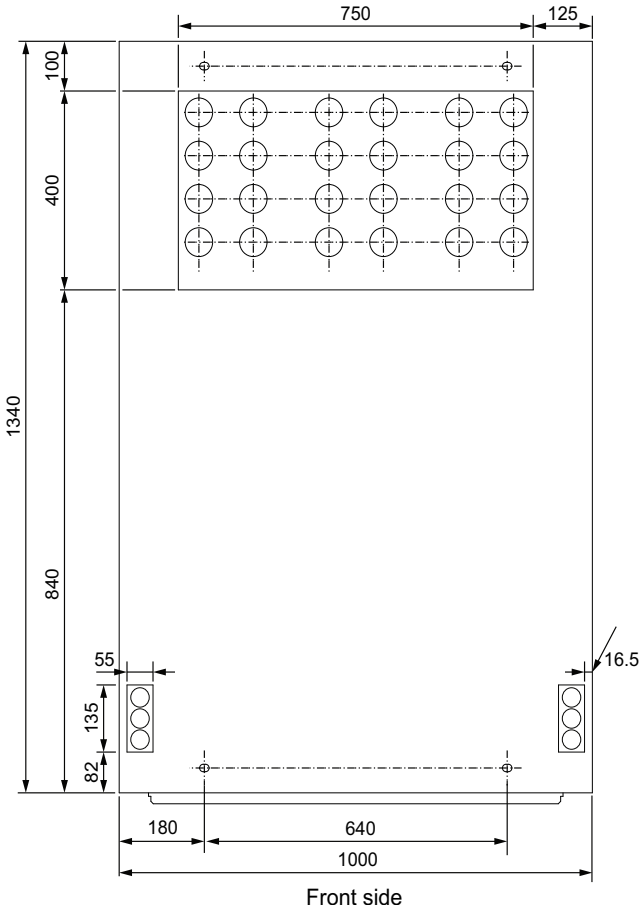


Figure 26
Bottom Plate of 1000 mm Cubicle 12/17.5 kV

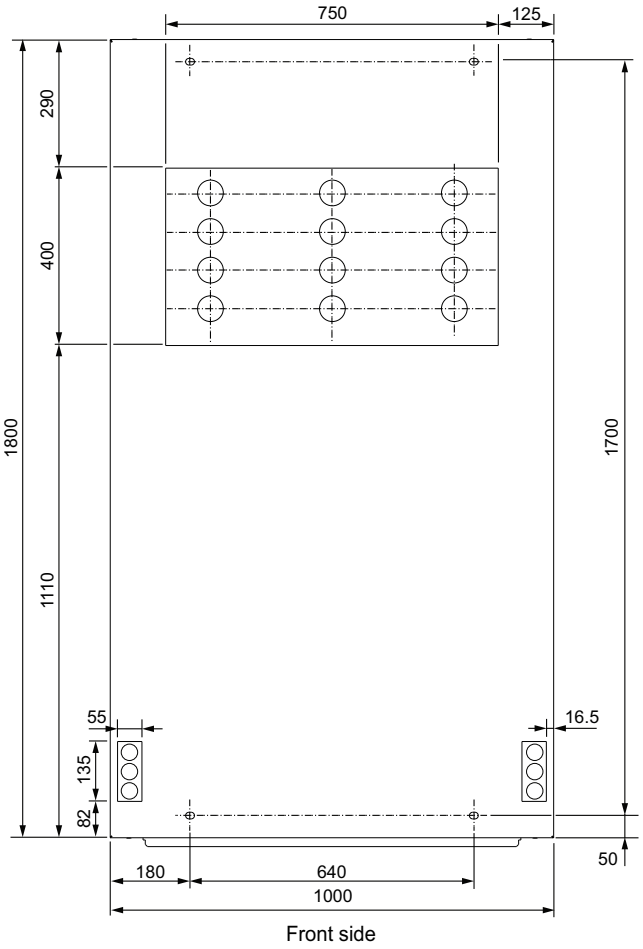


Figure 27
Bottom Plate of 1000 mm Cubicle 24 kV

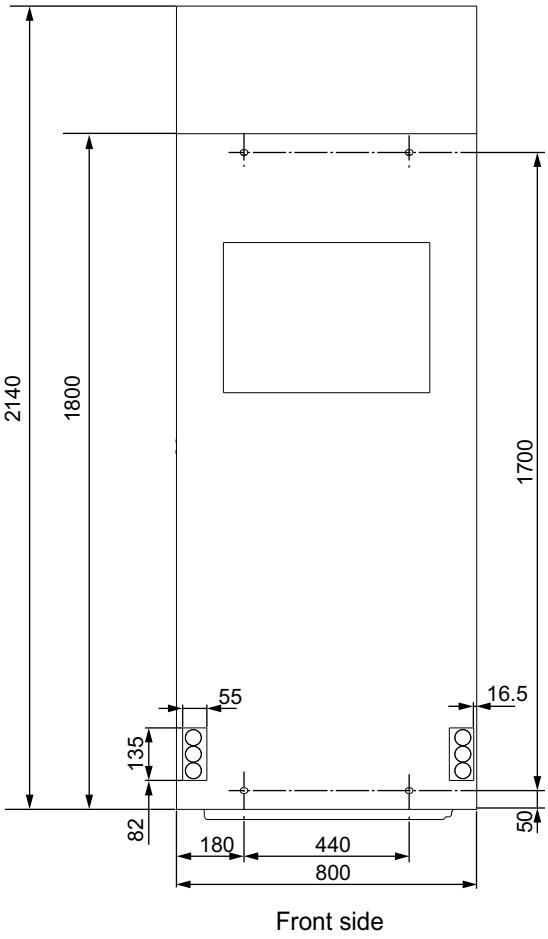


Figure 28
Bottom Plate of 800 mm Top Busway Entry Cubicle 24 kV

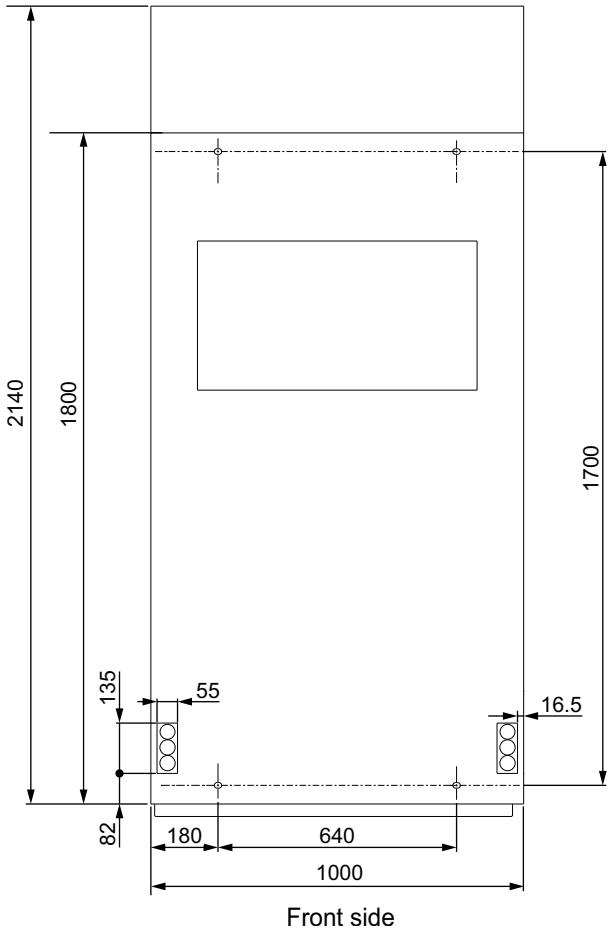


Figure 29
Bottom Plate of 1000 mm Top Busway Entry Cubicle 24 kV

Switchboard with I/F Cubicle, and Reserved Space Over All Civil Engineering

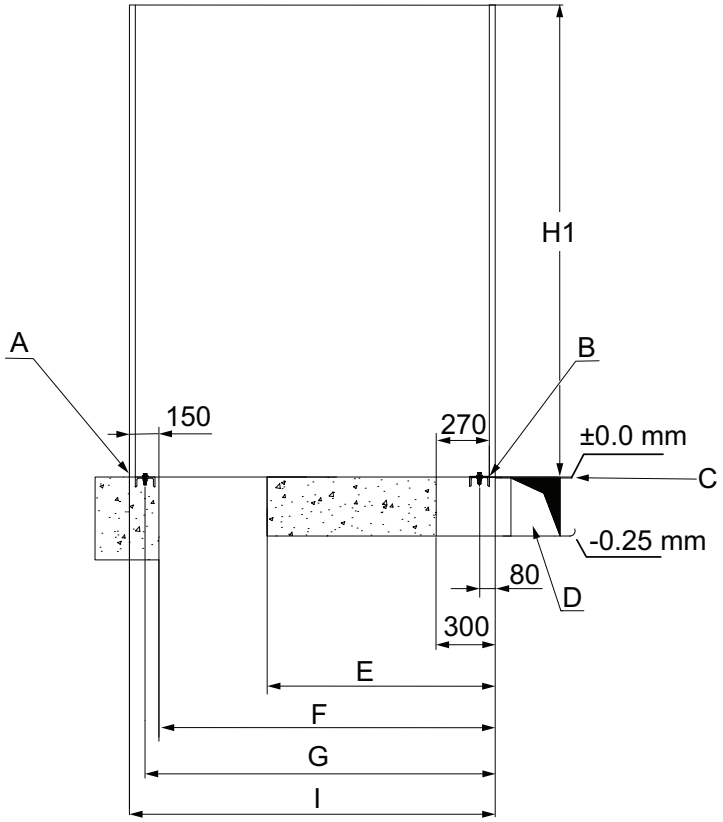


Figure 30
General Arrangement for Cable Entry

A Foundation rail

B Top surface of the foundation rail from 3–5 mm above the floor

C Cover of the control cable conduit δ = 5 mm corrugated steel plate

D Control cable trench 150 x 150 mm

Rated voltage (kV)	Dimension (mm)				
	H1	E	F	G	I
12/17.5	2240	890	1290	1325	1440
24	2400	1160	1710	1780	1860

Floor Finishing and Fastening of the Cubicles

Assembly

Safety Provisions

⚠WARNING

HAZARD OF TOPPLING

When handling the moving devices, pay attention to uneven floor surfaces (for example, cracks, projections and so on) of the switchgear room.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠WARNING

HAZARD OF FALLING

- Do not walk upon the topsides of the switchgear cubicles.
- During civil engineering activities, when working on the top of the switchgear cubicles (such as during the installation of deflectors, fans, or pressure relief ducts), temporarily attach a sturdy base plate that is walkable.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Instructions for Assembly

MCSeT cubicles are delivered with E/S in ON position.

The VCBs are always shipped in open state (OFF) with the energy-storing device released.

NOTICE

HAZARD OF INAPPROPRIATE ASSEMBLY

- Ensure there is no condensation, dirt, and dust during assembly of cubicles on all accounts.
- Observe and read assembly drawings before commencing the assembly work.

Failure to follow these instructions can result in equipment damage.

Floor Finishing

Surface Condition

Before the switchgear is positioned at its site of installation, check that the fastening points are at level.

NOTICE
HAZARD OF INSTALLING UNDER INADEQUATE CONDITIONS • Before positioning the switchgear at its installation site, ensure that the fastening points are at the correct level. • Unevenness should not exceed ± 2 mm/m and there should not be a height difference of more than 6 mm over the entire width of the switchgear. **Failure to follow these instructions can result in equipment damage.**

Laser check is required for accurate check of the floor levelness. Floor level is more essential for correct assembly and performance of the product.

Floor Strength

The floor should have a compression withstand ≥ 33 MPa to roll the extraction tool on it without any damage.

Fastening of the Cubicles

⚠WARNING

HAZARD OF INSTALLING UNDER INADEQUATE CONDITIONS

Make sure that the height difference across the entire width of the switchgear does not exceed 6 mm during lifting.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

HAZARD OF INSTALLING UNDER INADEQUATE CONDITIONS

- Before positioning the switchgear at its installation site, ensure that the fastening points are at the correct level.
- Unevenness should not exceed ± 2 mm/m and there should not be a height difference of more than 6 mm over the entire width of the switchgear.

Failure to follow these instructions can result in equipment damage.

NOTICE

HAZARD OF INAPPROPRIATE ASSEMBLY

Comply with precise measurements for the placement of the cubicle, as the positioning of the first cubicle determines the placement of the remaining cubicles.

Failure to follow these instructions can result in equipment damage.

Fastening on Concrete Foundations

Follow the below steps to fasten the cubicle to the floor on standard civil engineering works:

1. Position first cubicle on the floor in accordance with the switchgear-specific space assignment plan, Reserved Area in Civil Works Slab, page 26.
2. Remove the cable compartment cover. Refer to Access to the Main Circuit Compartments, User Guide (BQT8706400).
3. Once the cubicle is positioned:
   a. Verify that the cubicle front is correctly aligned both horizontally and vertically.
   b. If necessary, raise the cubicle and insert shims below the cubicle near the fastening points until the correct horizontal position is achieved, refer to Figure 31.
4. Fasten the cubicle with screws to the two fastening points on both the front end and the rear end.

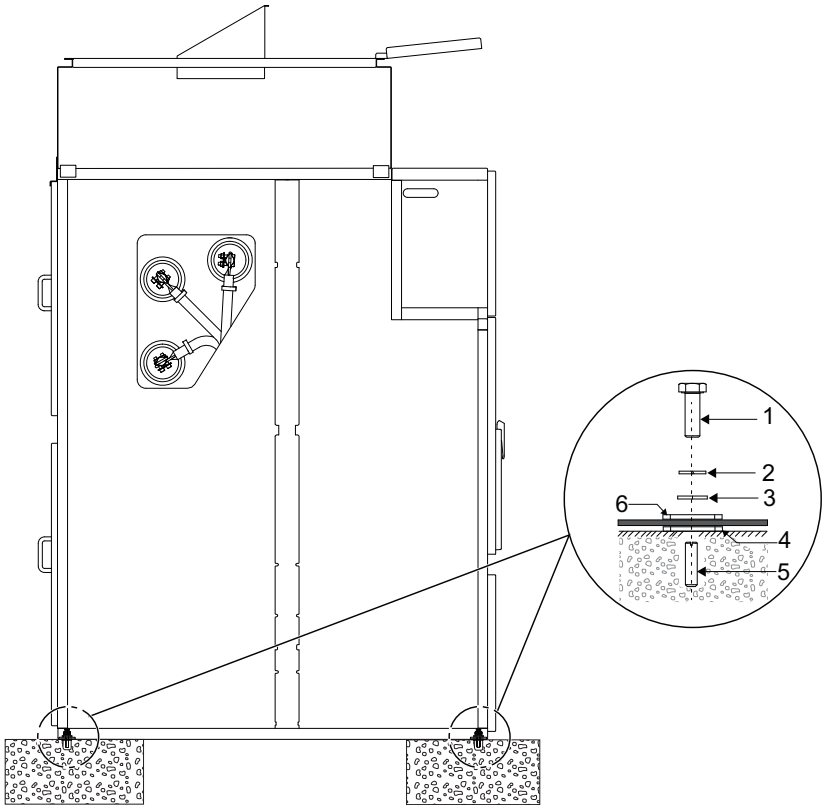


Figure 31
Cubicle Fastening on Concrete Foundation

1	Screw M10 x 30	4	Shim plate(1)
2	Spring lock washer M10	5	Slotted set screw M10 x 30
3	Plain washer	6	Plate 3 mm

(1) Add shim plates as needed.

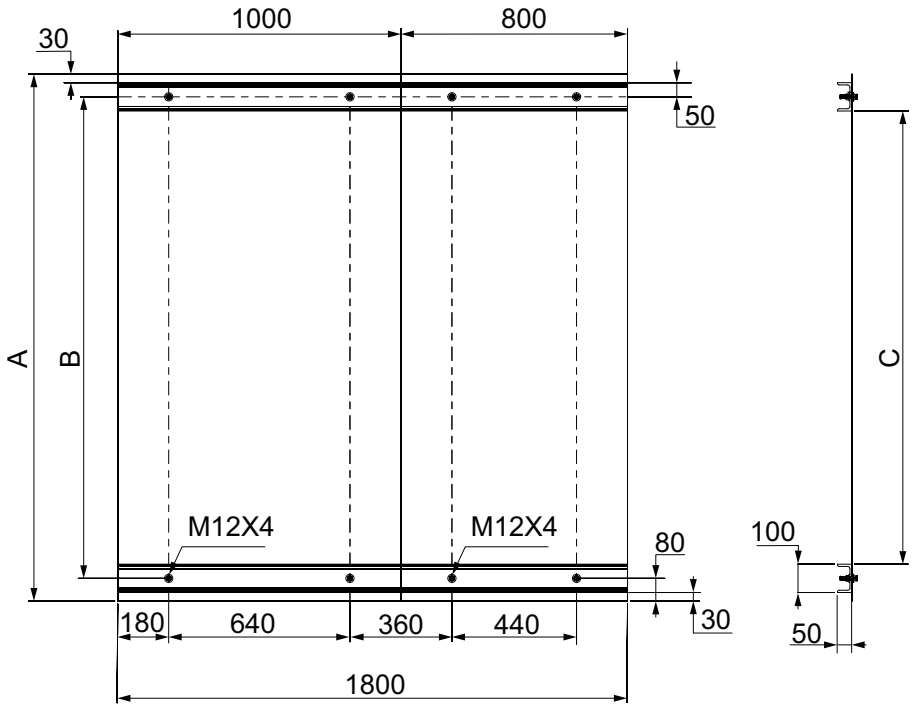
Additional Fastening Variant (C-Channel)

Follow the below steps to fasten the cubicle on C-channel rails on standard civil engineering works:

1. Drill holes into the C-channel frames at the intended cubicle fastening points, refer to Figure 32.
2. Position the cubicle on the C-channel rails, aligning the fastening points.
3. Insert dowel pin and other suitable fasteners (provided by Schneider Electric), refer to Figure 33.
4. Securely fasten the cubicle to the C-channel rails at the designated points.

NOTE:

- The additional fastening variants are available on request. For details, contact Schneider Electric.
- C-channel rails are not be provided by Schneider Electric.



Rated voltage (kV)	Dimensions (mm)		
	A	B	C
12/17.5	1340	1180	1080
24	1860	1700	1600

Figure 32
Dimension of the Floor Space and C-Channel Rails

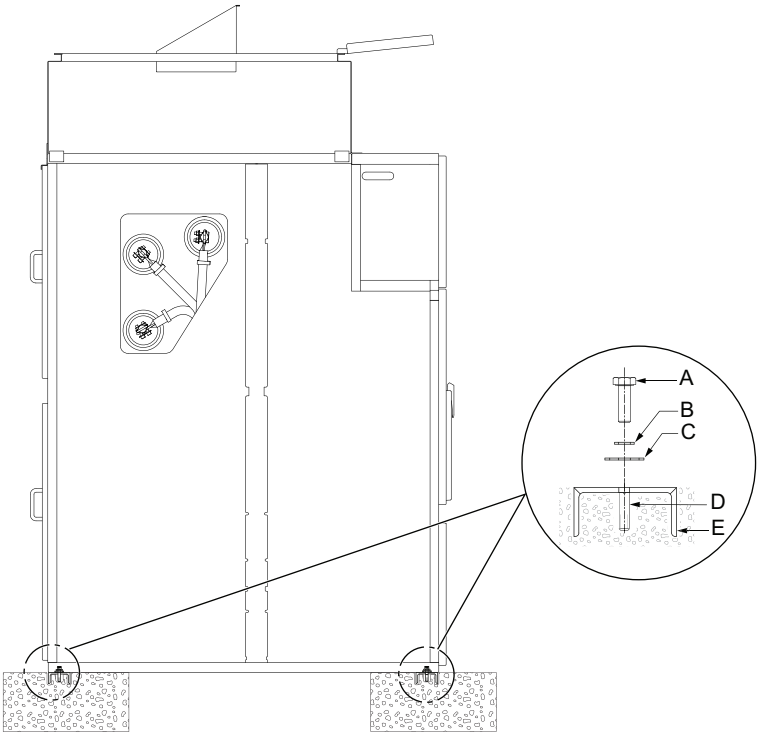


Figure 33
Cubicle Fastening on Base Frame

A	Allen screw M12 x 45	D	Dowel pin
B	Washer M12	E	C-channel rail
C	Square washer		

Configuration of Incoming MV Cables

⚠CAUTION

HAZARD OF INCORRECT CABLE INSTALLATION

Comply with the guidelines specified by the manufacturer for the following:

- Adhere to the specified bending radius for the cables.
- Ensure appropriate cable laying/installation methods, the correct force, and techniques for pulling or pushing the cables.
- While handling the cables, ensure that the cables are within the maintenance space as per the specific configuration from insertion point to the cable initiation joint at the transformer.

Failure to follow these instructions can result in injury or equipment damage.

Other incoming configurations are possible, if there is greater clearance under the cubicle.

NOTE: If the cable box is used, adapt the depth of the maintenance space.

For any queries regarding the configuration, contact Schneider Electric customer support.

Civil Engineering with Maintenance Space

MV Cables Rear Entry

Intended for cables up to 240 mm².

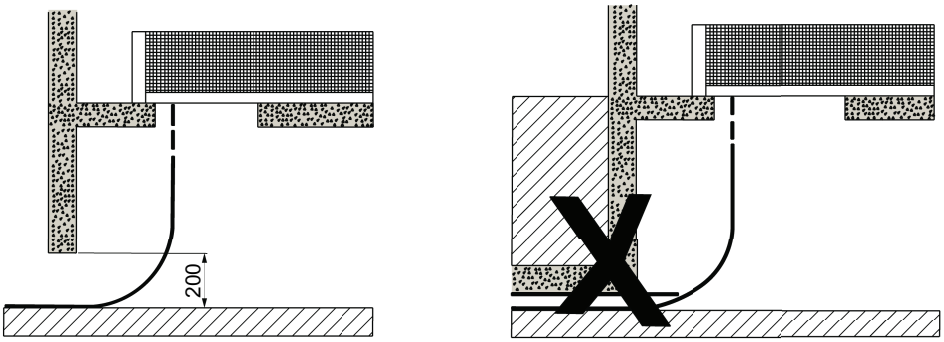


Figure 34
MV Cables Rear Entry

NOTE: Not recommended for 630 mm² cables and above.

MV Cables Entry from the Side Near a Wall

Intended for cables up to 240 mm².

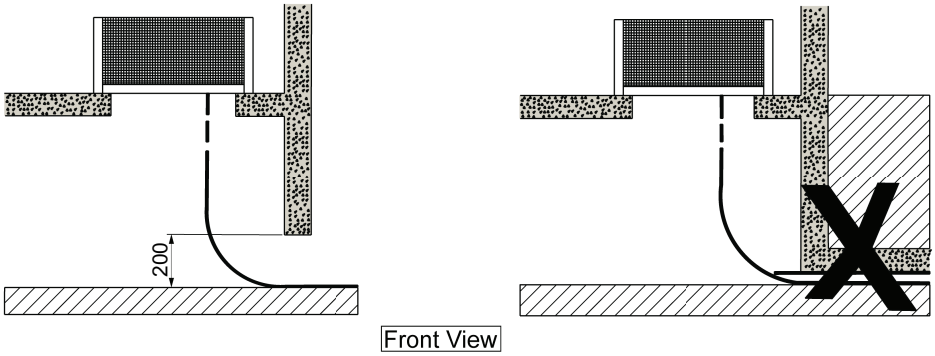


Figure 35
MV Cables Entry from the Side near Wall

NOTE: Not recommended for 630 mm² cables and above.

MV Cables Entry from the Side at a Distance from a Wall

It is recommended for all cable diameters up to 630 mm^2.

According to the distance from the wall to the nearest MV cable (A), the dimension should be ≥ 2000 m for 630 mm^2 cables.

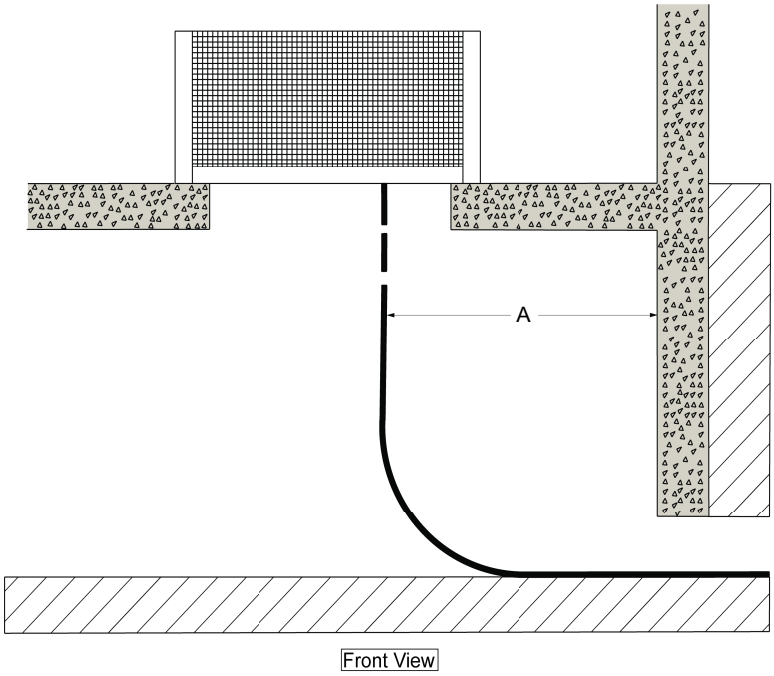


Figure 36
MV Cables Entry from the Side at a Distance from a Wall

Civil Engineering with a Cable Trench

MV Cables Rear Entry

Intended for cables up to 240 mm².

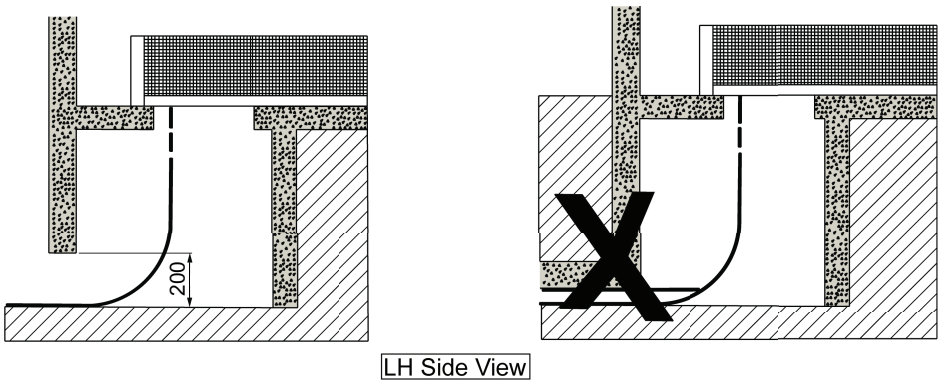


Figure 37
MV Cables Rear Entry

NOTE: Not recommended for 630 mm² cables and above.

MV Cables Entry from the Side Near a Wall

Intended for cables up to 240 mm².

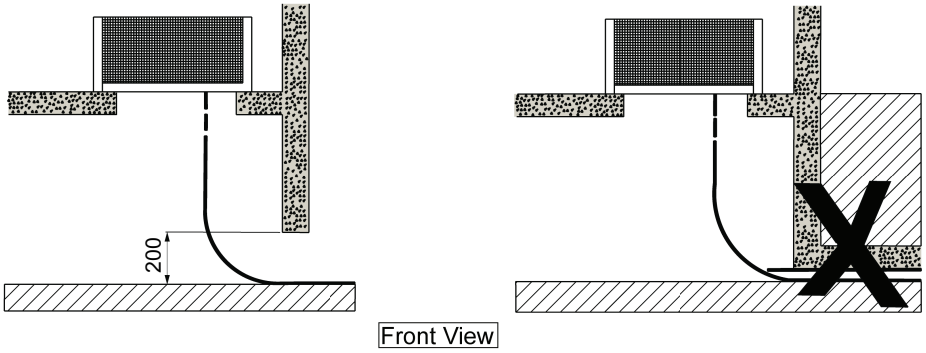


Figure 38
MV Cables Entry from the Side near a Wall

NOTE: Not recommended for 630 mm² cables above.

Glossary

A

AFL: Accessibility Front Lateral

AFLR: Accessibility Front Lateral Rear

B

BME: Busbar Metering and Earthing

BSC: Bus Section Coupler

BSR: Bus Section Riser

C

CT: Current Transformer

E

E/S: Earthing Switch

EvoPacT HVX: Vacuum Circuit Breaker

EvoPacT MTX: Metering Truck

F

F: Feeder

I

I: Incomer

L

LV: Low Voltage

M

MV: Medium Voltage (voltage class up to 24 kV)

V

VCB: Vacuum Circuit Breaker

VDIS: Voltage Detecting and Indicating System

VT: Voltage Transformer

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