

MV distribution

RONEX

metalclad switchgear
withdrawable circuit-breaker
1 to 17.5 kV

Civil engineering guide



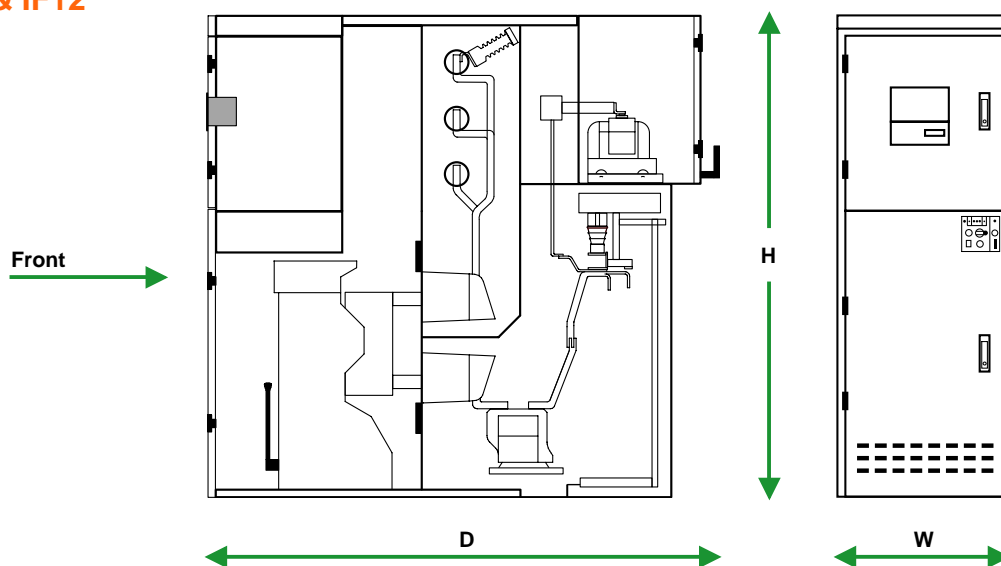
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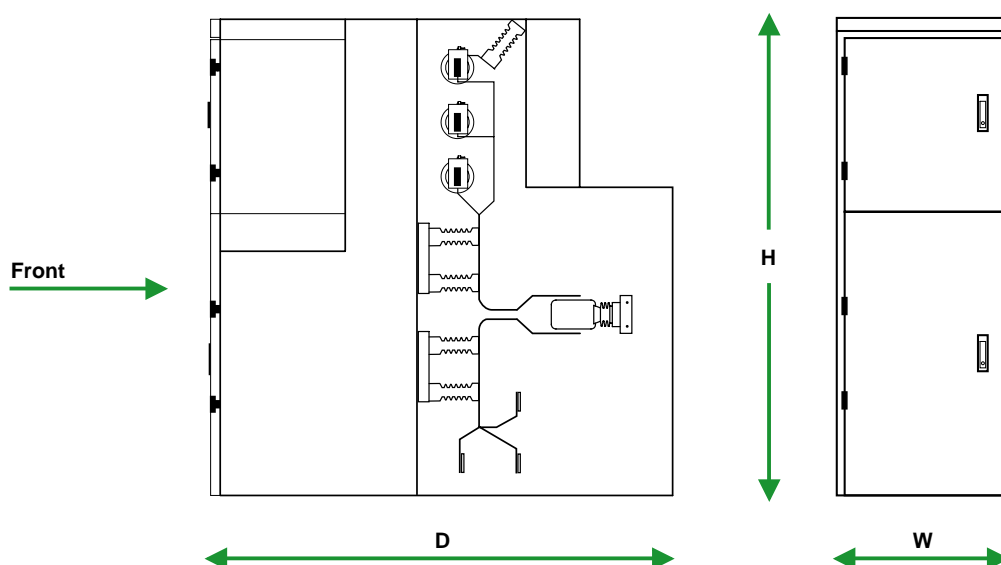
General description

Typical cubicles

Incomer & feeder IF11 & IF12



Riser R11 & R12



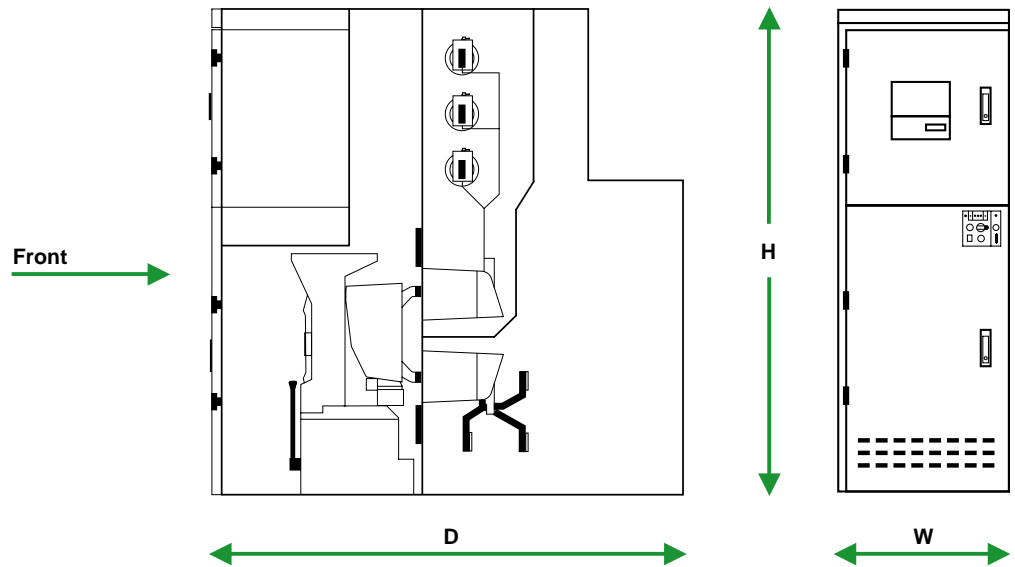
Switchgear type		IF11	IF12	R11	R12
Ratings		630 A - 1250 A	2500 A	1250 A	2500 A
Dimensions and weight					
height (H)	mm	2120	2120	2120	2120
width (W)	mm	750	950	750	950
depth (D)	mm	2044	2170	2044	2044
weight	kg	750	900	600	720

N.B.: the type of the current transformer could change according to the customer's requirement, however the overall dimensions are the same.

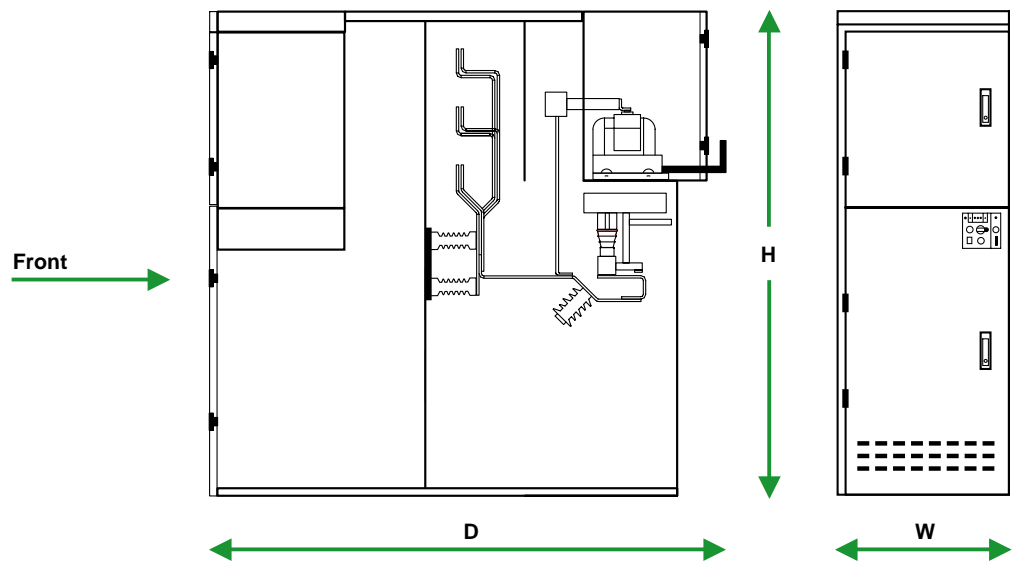
General description

Typical cubicles

Coupler C11 & C12



Metering MT11



Switchgear type		C11	C12	MT11
Ratings		1250 A	2500 A	630 A - 1250 A - 2500 A
Dimensions and weight				
height (H)	mm	2120	2120	2120
width (W)	mm	750	950	750
depth (D)	mm	2044	2044	2044
weight	kg	650	800	550

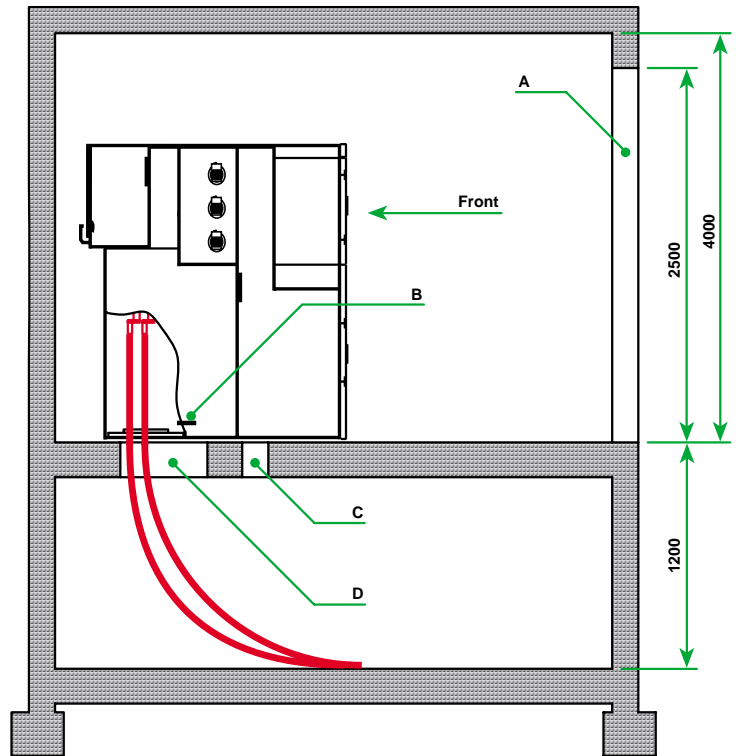
N.B.: the type of the current transformer could change according to the customer's requirement, however the overall dimensions are the same.

General description

Civil engineering

Civil engineering with cable room

- A:** access to the room
- B:** main earth lead
- C:** reserved slab space, if necessary for routing of LV cables
- D:** reserved slab space for routing of MV cables

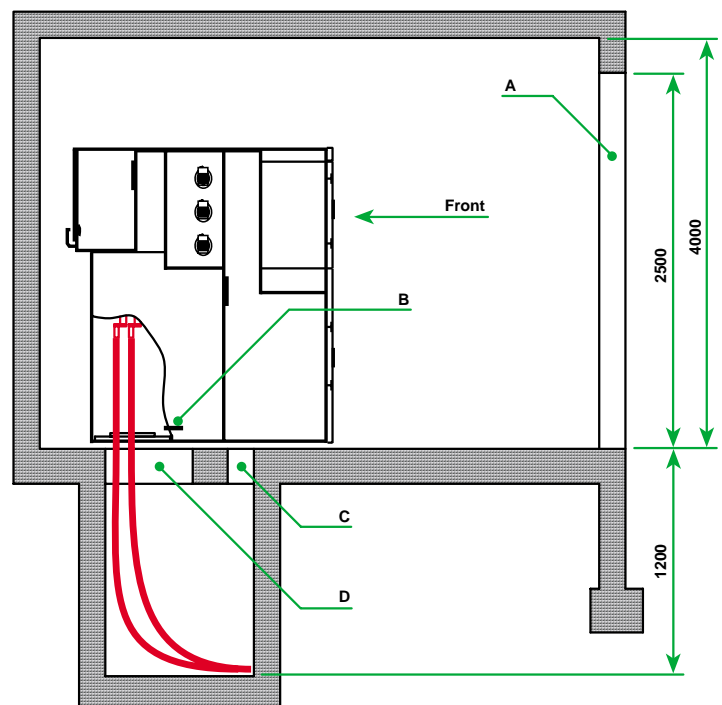


Civil engineering with cable trench

- A:** access to the room
- B:** main earth lead
- C:** reserved slab space, if necessary for routing of LV cables
- D:** reserved slab space for routing of MV cables



Safety tip: exposed trenches should be covered with a weight-bearing lid.



Recommendations

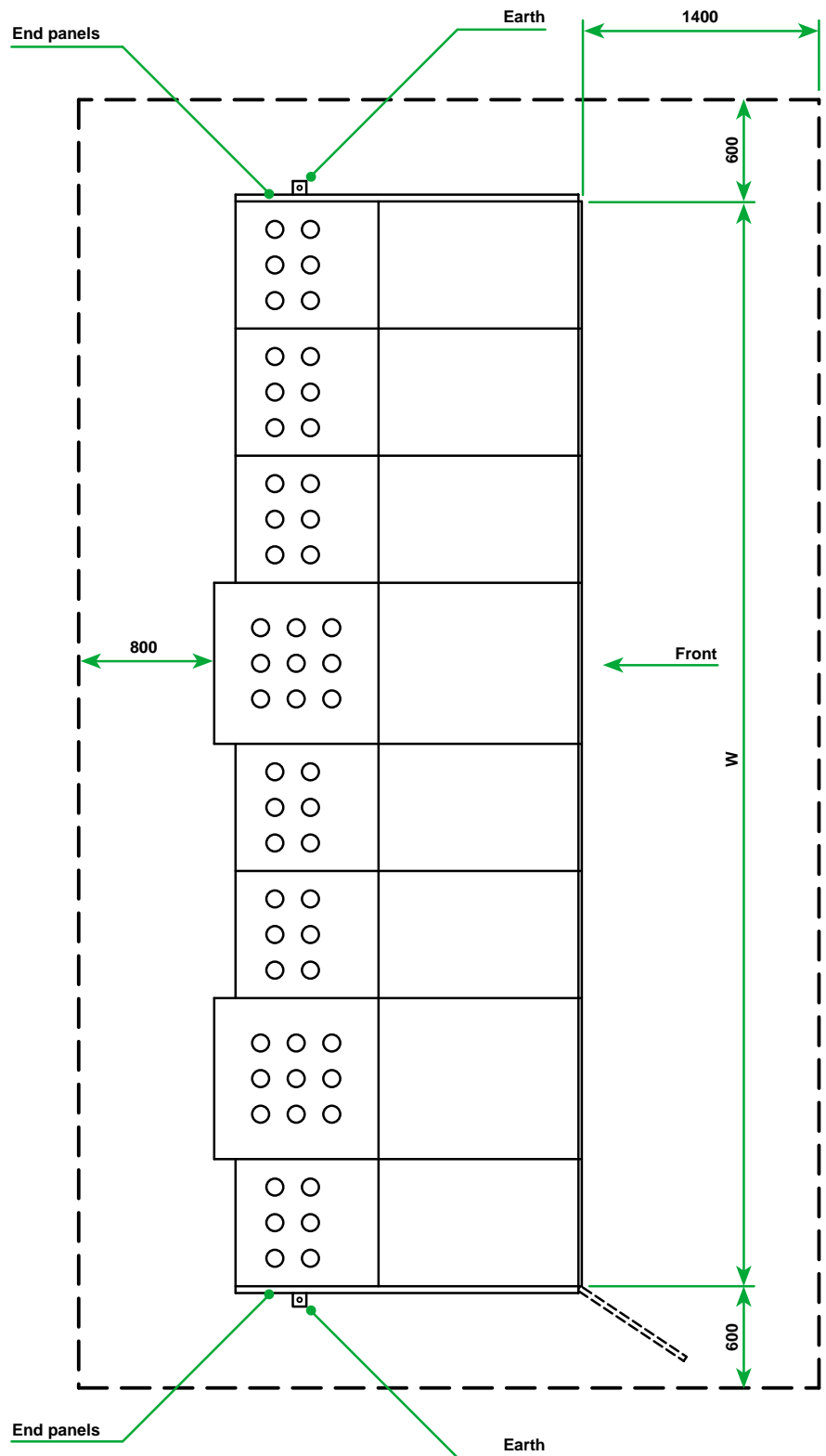
- dimensions are minimum in mm.
- the depth of the cable room or cable trench is designed for cables up to 630 mm². The depth can be reduced, but must ensure compliance with the bending radius of the cables.

General description

Civil engineering

Access area to be provided around the switchboard

- dimension "W" of the cable entry slot in the floor depends on the arrangement of panels within the switchboard.
- dimensions are minimum in mm.

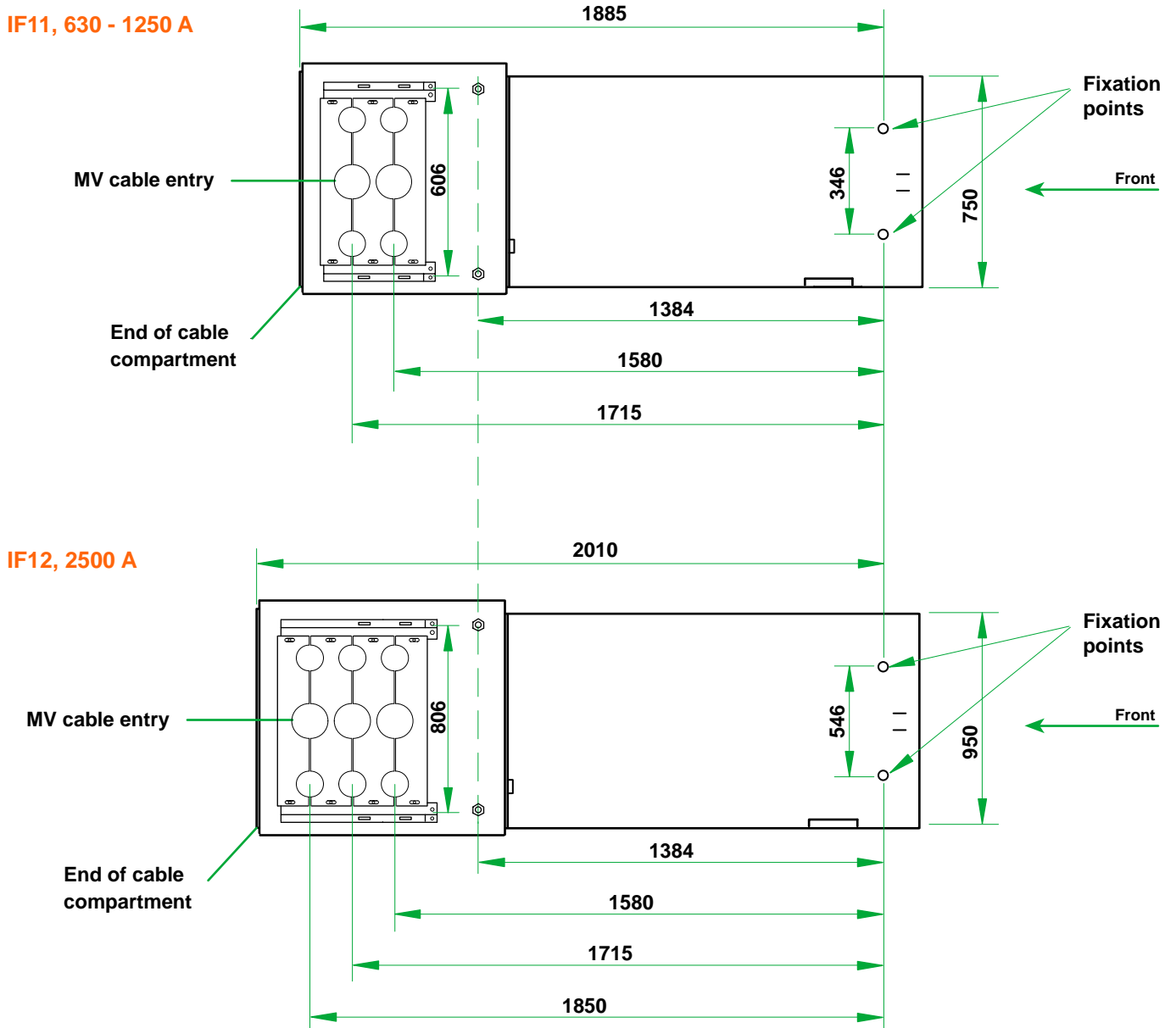


Safety tip: a minimum clearance of 60 centimeters shall be maintained around the path of travel.

Floor preparation

Position of MV cables

Position of MV cables



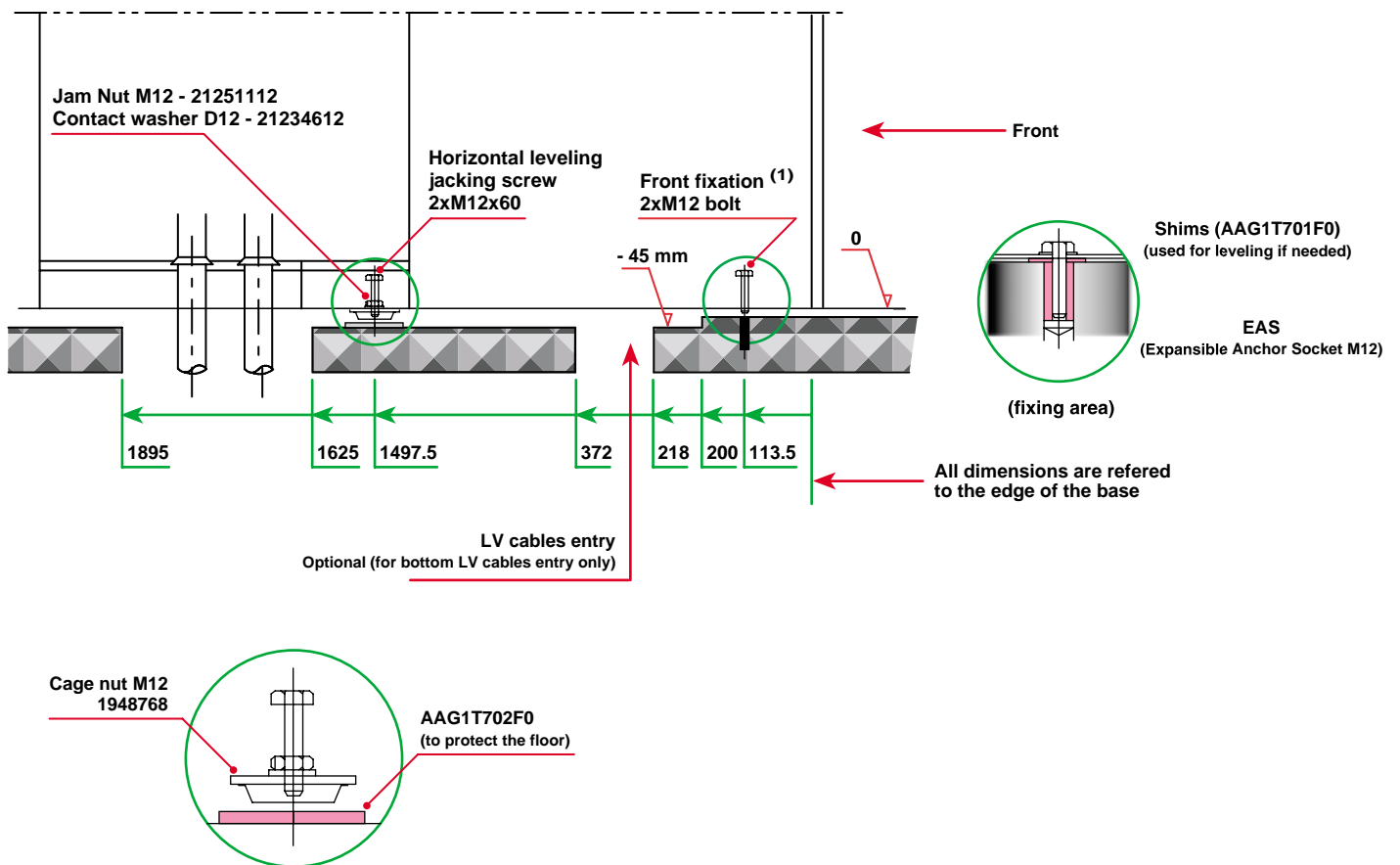
Switchgear type	IF11	IF11	IF12	IF12
Ratings	630 A - 1250 A	630 A - 1250 A	2500 A	2500 A
MV cables type	Single core	Tri core	Single core	Tri core
maximum number of cables	2 per phase	2	3 per phase	3
maximum X-section of cables (mm ²)	630	300	630	300

Floor preparation

Fixing and leveling details

Fixing and leveling details

- measure the level of the fixation points for the complete switchboard,
- take the higher point as a reference,
- drill the holes for the civil,
- use the shims (ref. AAG1T701F0) to adjust the level of the fixation points,
- for the rear leveling use the horizontal leveling jacking screw and cage nut (ref. 1948768) and use plate (ref. AAG1T702F0) to protect the floor.
- for a correct installation of the panels, it is recommended to respect a tolerance of ± 0.1 cm/m & a maximum space of ± 0.3 cm on the switchboard length,
- trench for MV cables is to be defined by customer according to cables characteristics.



(1) To be supplied by the customer.

N.B.

- all dimensions are in mm.
- for the overall depth of the cubicle, please refer to the general description page.

MV cable entry configuration

General

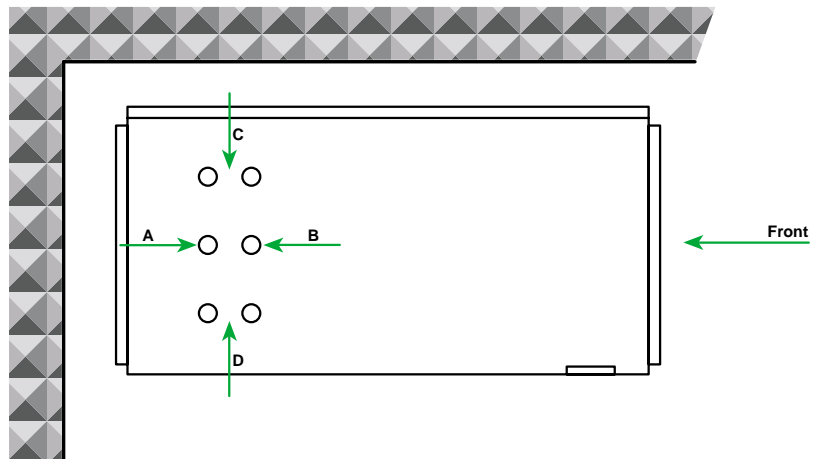
When designing the switchgear building, special attention should be paid to the problems associated with the laying of MV cables:

- the need to leave enough slack in the cables so they can be pulled out and pushed back,
- cables can enter from the rear (A) front (B) or either side (C) or (D) of the switchgear.

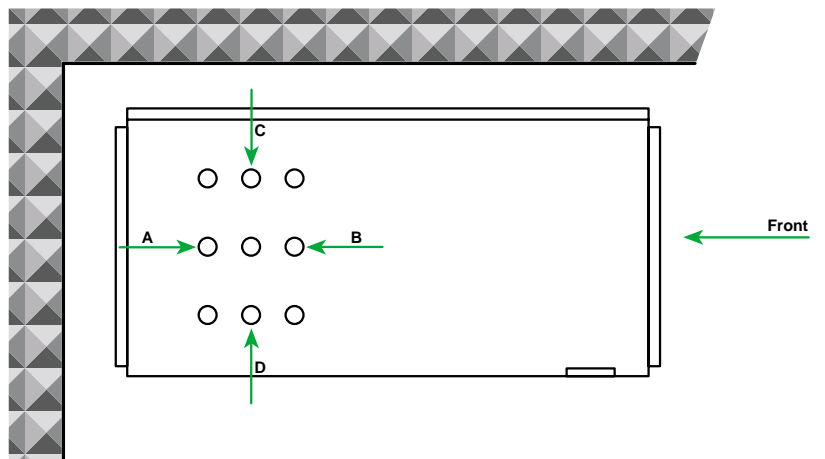
Other entry configurations are possible, especially if there is greater height beneath the equipment.

Building with cable room

1250 A

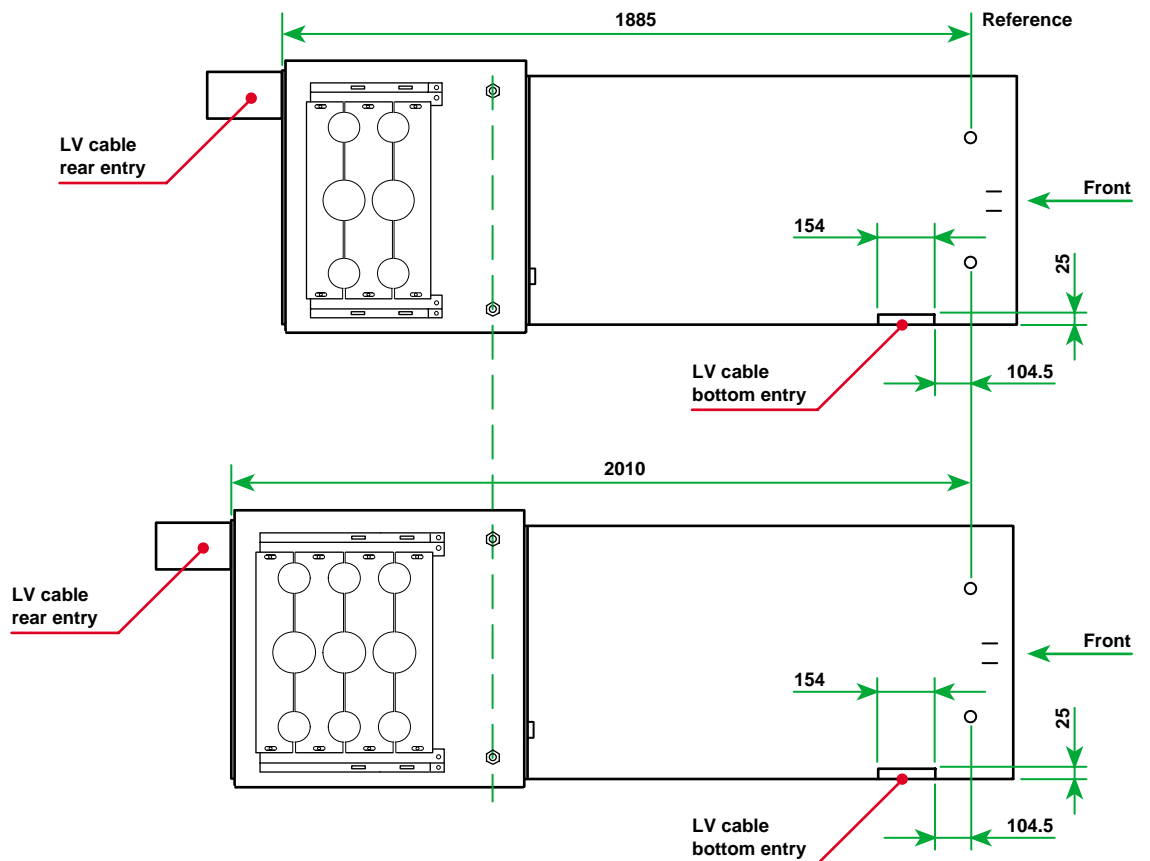
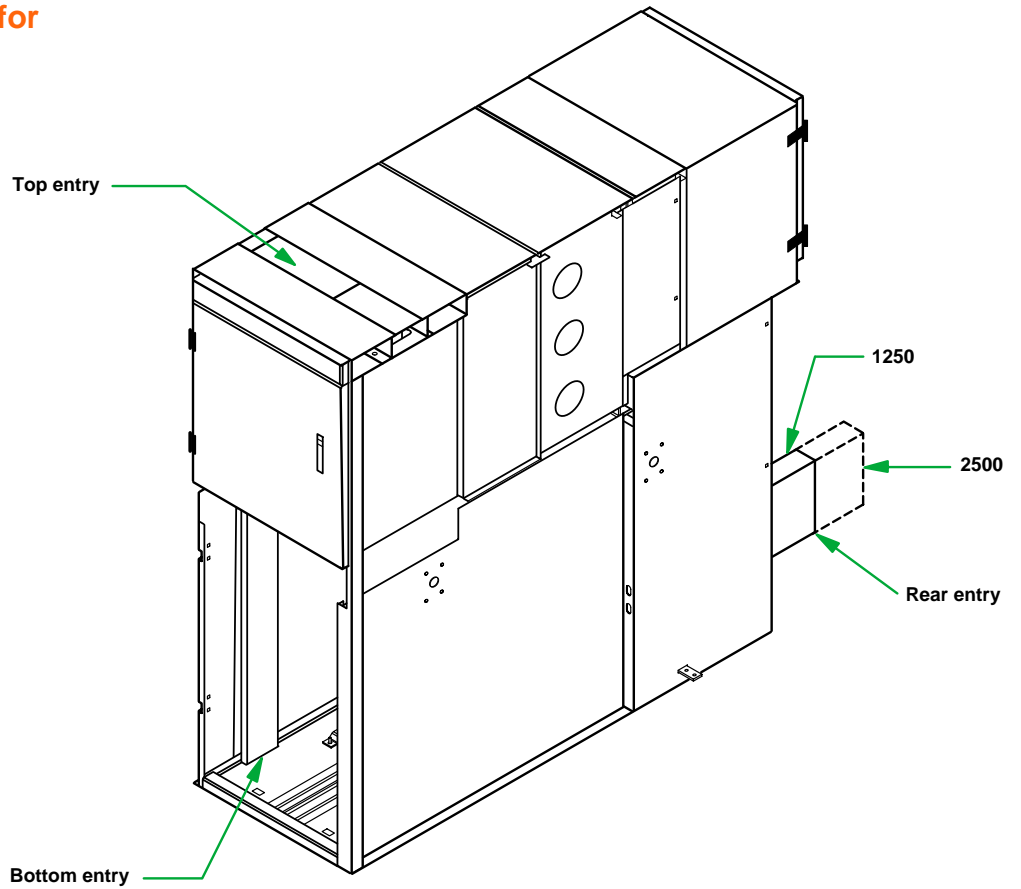


2500 A



LV cable entry configuration

Three different options for the LV cable entry





Schneider Electric

NE Africa & Egypt Head Office

68, Tayaran st., Nasr City,
Cairo, Egypt.
P.O. Box 2658 El Horreya.
Tel : +202 40 10 119
Fax: +202 26 18 908
<http://www.schneider.com.eg>

Customer Support Center (CSC)

Tel: (202) 40 10 899 Fax: (202) 26 20 473
customer.support@eg.schneider-electric.com

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