

Assembly instructions

for earthquake proof battery racks
horizontal installation

English



NOTE

- Before your start with the assembly of the rack, check the packages delivered to ensure you have received the correct number and items.

HANDLE WITH CARE !

Stands (uprights)



The supporting stand (upright) is a full welded frame.

The diagram shows a right stand with 3 tiers and 1 row.

The left stand mirrors the right stand.

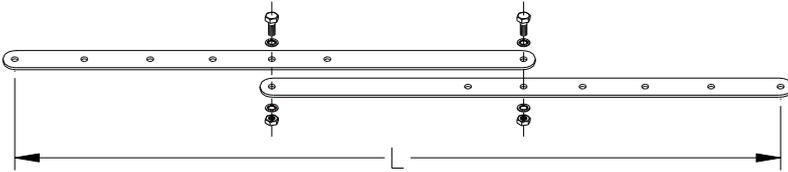
The order and sequence of assembly is the same for all other stands form 2 to 6 level.

NOTE

- The rack system and the order of assembly is illustrated in the diagrams. Use also the rack drawing of the battery.

Brace

For assembling each brace, use 2 screws M8x20, 4 toothed lock washers and 2 nuts M8 if necessary. In a lot of cases we deliver special prepared braces.



Length L is determined by the distance between the uprights. Please use also the detailed rack drawing.

Rack assembly



Place uprights in a vertical position and mount the brace according to distance between the uprights.

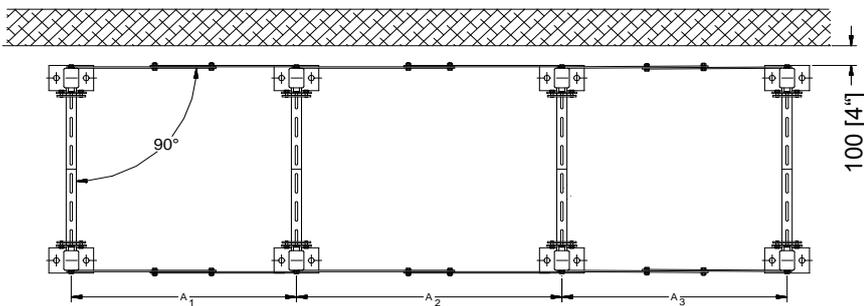
For assembling the braces, use screws M8x20, toothed lock washer and nuts M8.

Take care of the left and right end frame. Place the end frames centrally.

NOTE

- Tighten all screws to a torque of 20 Nm [14.7 ft.lb]
- Do not over tighten

Place frame in room and align.



The gap between the rack and the wall or other appliances in the room must be at least 100 mm [4"].

Mark screw points in the floor.

Drill holes for floor anchor bolts according to manufacturer's instructions. Insert anchor bolts and screw down frame.

NOTE

Attention:

- Uprights must be at a right angle to the longitudinal axis of the frame.

NOTE

- Paying attention to torque for floor anchor bolts.

Assembling rails



Assembly with a 1 row frame:
The distance of the rails/ beams arise from the battery.
Use also the rack drawing for the correct numbers of h- and c-profiles.
H-profiles are mounted at the rear of the supporting frame and the c-profiles in the front. Do not touch with the c-profiles the welded seams of the lid from the battery container (see also mounting rails).

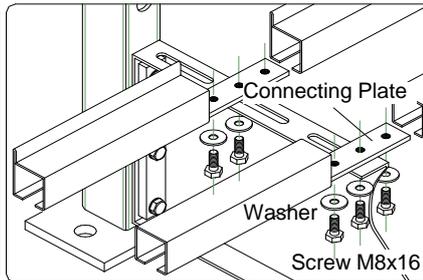
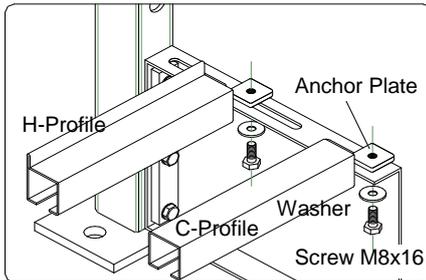
Note:
xH-PGL 2.../ xH-PGS 2...
1 H-Profile, 2 C-Profiles
xH-PGM 0.../ xH-PGL 4...
1 H-Profile, 3 C-Profiles

NOTE

- *Paying attention to the battery width.*

Mounting rails

Guide bolt M8x16 with washer 9/24 from below through the longitudinal hole in support, and screw it into the anchor plate



NOTIZ

- All screws fixing the rails must be tightened to a torque of 8 Nm [5.6 ft.lb]
- *Do not over tighten.*

Inserting battery into the rack

Insert batteries, cells and/or blocks.

Elements must be placed closely to one another.

The rails (h-/ c-profiles) must support the elements.

If necessary adjust the position of the h-/ c-profiles on the frames.

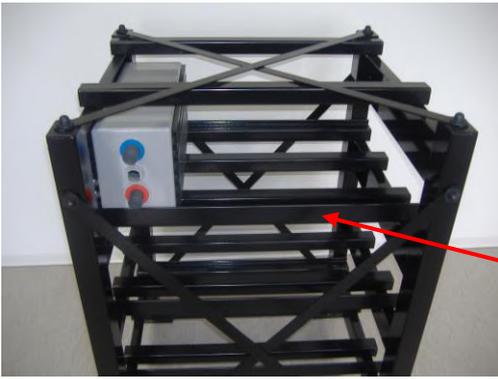
Fill the space with the attached accessories like spacers, rib-packing, etc.

General:

Use the 10mm spacer between the battery. C-Profile must not touch the lid of the battery!



Insert the L-Profiles and place the bases



Insert the L-Profiles in the front of the rack. Put on the bracing in front and on the top of the rack.

L-Profile

Work carefully!

In case of damages, repair the surface immediately.

NOTE

- *The L-Profile must touch but not exercise any pressure on the battery.*

NOTE

- *Tighten all screws in upper lengthways and end rails to a torque of 20 Nm [14.7 ft.lb]*
- *Do not over tighten*
- *Finally cover all screws with the plastic caps and close all openings in the stands with plastic stoppers*