(B) Assembling and Maintenance Instructions for INDUSTRIAL WALL



Assembling and Maintenance Instructions for

INDUSTRIAL WALL

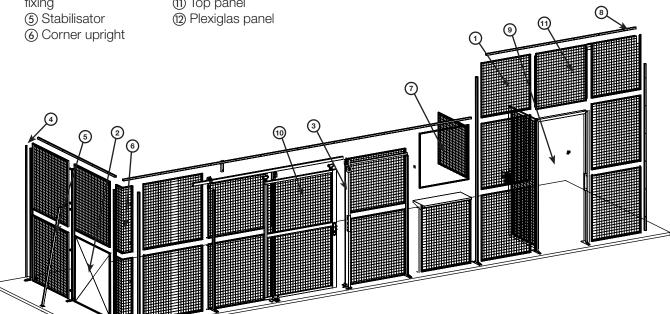
Compulsory:

- This industrial wall is designed for an inside use in an industrial environment (building or warehouse) in order to delimit or protect an area.
- This industrial wall shall not be used as machine guard or handrail on a mezzanine floor.
- The mounting has to be realized by competent and skilled staff according to the rules.
- You should refer to the current regulation concerning hygiene and security as far as handling, mounting and use are concerned..
- Take care that the floor is flat and of good quality.
- Take care that the installation will not disturb the security rules (exits and evacuations).

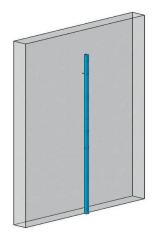
SUMMARY

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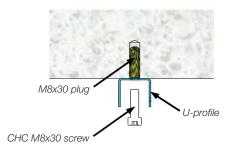
- 1) Mesh panel
- 2 Steel panel
- ③ Upright
- 4 U-profile for wall fixing
- 7) Service hatch
- (8) Top U-profile
- 9 Leaf door
- 10 Sliding door
- (1) Top panel

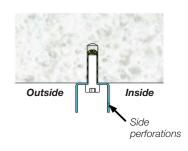


Mounting of a U-profile for wall fixing

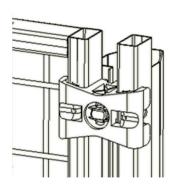


- Put the profile close to the wall with the perforations inside.
- Fix the U-profile with M8x30 plugs and CHC M8x30 screws. (4 plugs per 3 m U-profile).





Mounting of a wall end 3

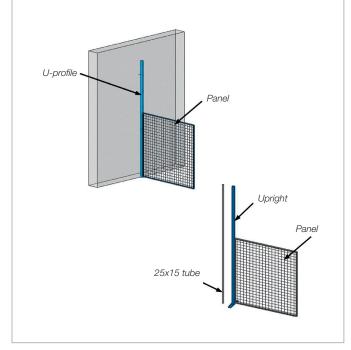


- In order to consolidate the panels (beginning or end of the wall), use a 25x15 tube on one side of the upright and the panels on the other side.
- Then fix the panels and the 25x15 tube together with fastenings.

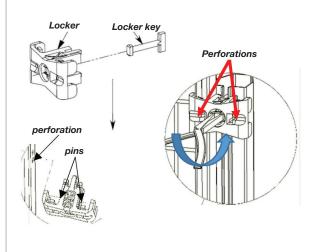
Nota: Use 4 fasteners for heights 1750/2000/2200/2400. Use 6 fasteners for heights 2500/2700/3000.

Mounting of the panels

- Put the first panel in a U-profile for wall fixing or in a standard upright (see §3).
- First, do not fix the panel in the U-profile.
- Always put the higher panels at the bottom of the wall.

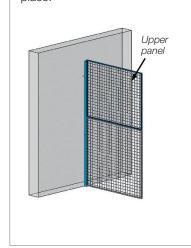


- Assemble the locker and the locker key
- Put the locker lug inside the frame perforations
- Put the assembly inside the upright and use the key to turn the locker key of an angle of 90°, in order to block the locker in the upright
- Add 2 self-drilling screw in the 2 holes of the locker.

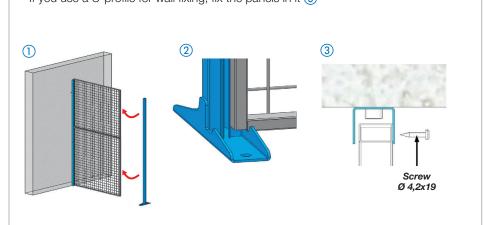


Use 4 lockers for heights 1750/2000/2200/2400. Use 6 lockers for heights 2500/2700/3000. That is to say 2 lockers per panel.

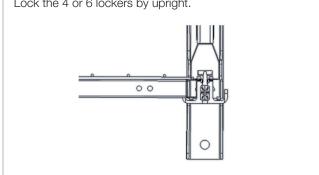
Put the upper panel in place.



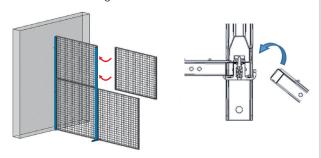
- Insert the upright beginning from the bottom (1)
- See if the bottom panel is correctly inserted in the upright 2
- If you use a U-profile for wall fixing, fix the panels in it 3



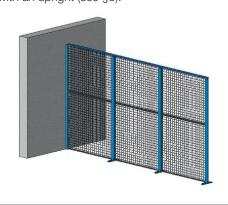
Lock the 4 or 6 lockers by upright.



- Assemble the next panels
- Put the 2 self drilling screw in the front of the locker

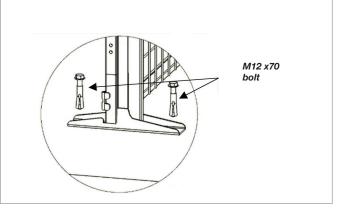


- Repeat steps 4, 5 et 6 as many times as necessary.
- Put a 25 x 15 tube at the end of the wall if the wall is ending with an upright (see §3).



Step 8

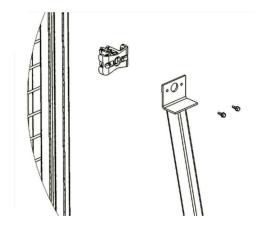
- Fix to the floor.
- Take care that the uprights are standing right vertically.
- If necessary, use floor wedges.



5 Mounting of a stabilisator

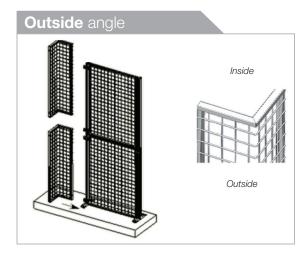
It is made of a 35x20 tube with fixing plate and « L » upper fixing. It gives more rigidity to the wall when it is very long or very high.

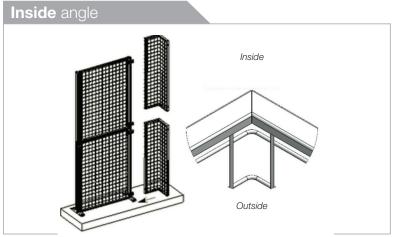
- Put the locker in the upright and lock it
- With the self-drilling screw 4.2x13mm, fix the stabilisator on the locker
- Check the upright verticality
- Fix the stabilisator on the ground with the M12x70 bolts



6 Mounting of a corner panel

• The mounting of a corner panel is the same a as standard panel.

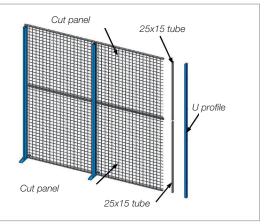




Wall fixing with U-profile

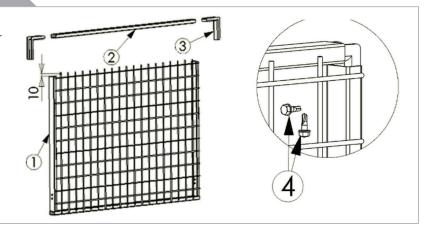
- (1) Cut the panels to the right dimensions.
 - Cut the 25x15 tube to the frame inside dimensions.
 - Insert the panel in the U-profile for wall fixing.
- 2 Insert the 25x15 tube in the U-profile to fix the mesh panel.
 - Fix the 25x15 tube and the frames together with Ø 4,2x19 screws.





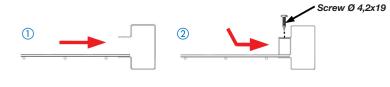
Use of an upright

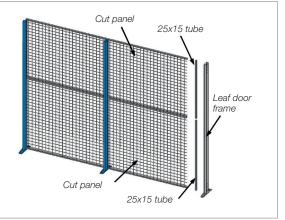
- ① Cut a panel at the dimension (keep 10mm more for the mesh or the metal sheet, in order to have an esthetic link).
- 2 Cut the tube at the panel dimension.
- ③ With the 2 triangles, rebuild the panel.
- ④ With the self drilling screw 4.2x13mm, lock the triangle in the tubes.
 - The special panel is usable as a standard panel (cf §3)



Use of a leaf door frame

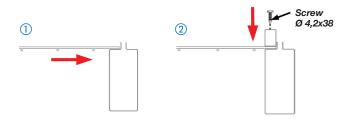
- ① Cut the panels to the right dimensions.
 - Cut the 25x15 tube to the frame inside dimensions.
 - Put the cut panel in the door frame..
- 2 Insert the 25x15 tube in the door frame.
 - Fix the 25x15 tube and the frames together with \emptyset 4,2x19 screws.

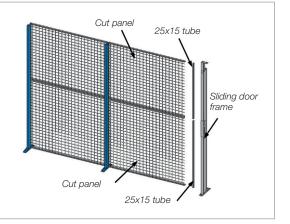




Use of a sliding door frame

- 1 Cut the panels to the right dimensions.
 - Cut the 25x15 tube to the frame inside dimensions.
 - Put the cut panel in the door frame.
- 2 Put the 25x15 tube close to the door frame.
 - Fix the 25x15 tubes and the frames together with Ø 4,2x38 screws.



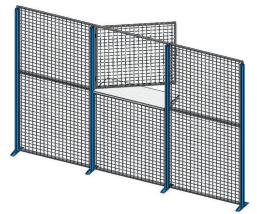


8 Mounting of a service hatch

It has to be mounted in the same way as a standard panel.

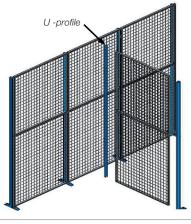
- Fix the hatch with 4 lockers.
- The shelf has to be inserted in the frame of the hatch.





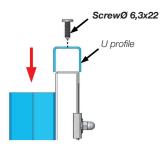
Mounting of a side with a 90° angle

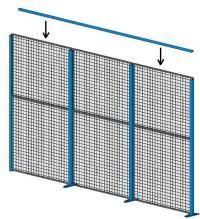
- ullet Fix the U-profile for wall fixing in the panels frames with \emptyset 4,2x19 screws.
- Insert the panels in the U-profile.
- Install the upright.
- Insert the panels in the U-profile.
- Fix with Ø 4,2x19 screws.



10 Mounting of the top U-profile

- Put it on the top panels.
- Fix the U-profile with Ø 6,3x22 screws.
- The U-profile strengthens the wall.

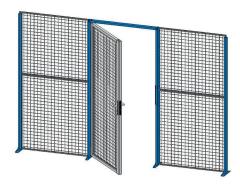


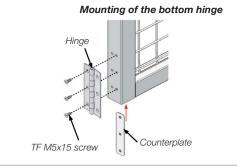


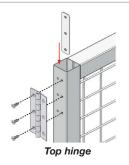
11 Mounting of a leaf door

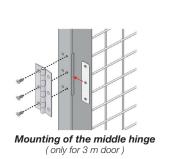
a - Single leaf door

- First choose the opening side of the door.
- To make the mounting easier, it is better to start mounting on the floor with the door laying flat.

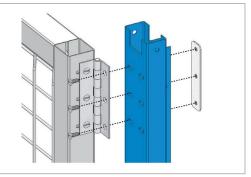






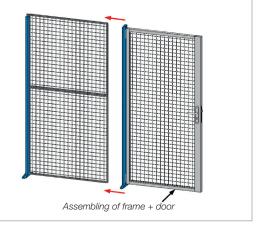


- Assemble the door to the hinged frame with the counterplate and screws M5 x16.
- Do the same for the bottom and for the middle hinge (only for 3 m door).



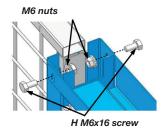
- Insert frame+door in the panels.
- \bullet Fix the frame to the panels thanks to Ø 4,2 x 19 screws.
- First check that the uprights are standing right vertically.

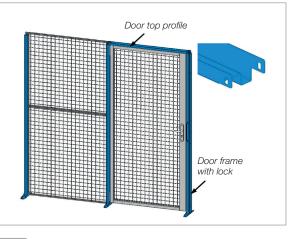
Useful length of leaf doors				
Length of the door in mm	Useful length in mm			
1000	950			
1200	1150			
1500	1450			
2000	1893			
2400	2293			
3000	2893			



Step 4

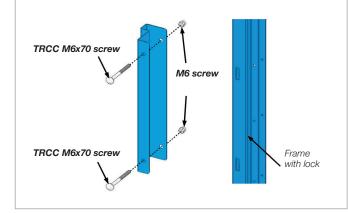
- Assemble the door top profile to the hinged door frame with H m6x16 screws and M6 nuts.
- Then fix the frame with the lock to the door top profile with H M6 screws and M6 nuts





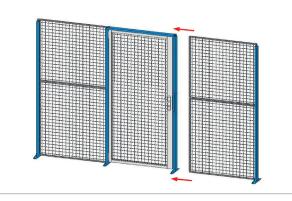
Sten 5

- Assemble stop according to the door opening direction using useTRCC M6 x 70 screws and M6 nuts.
- The TRCC screw heads should be outside the wall.
- Align stop plate to the door lock.



Sten 6

- Insert the next panel.
- \bullet Fix the panels in the frame with Ø 4,2 x 19 screws.
- Check that the frames are standing correctly.
- Leave same slack so that the door can move correctly.
- Tighten all the screws.
- Fix the frames to the floor.



b - Double leaf door

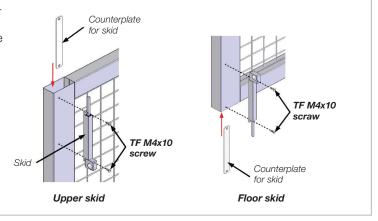
- First check door opening direction.
- To make the mounting easier, it is better to start mounting on the floor with the door laying.
- First fix the hinges on both doors (see simple leaf door step 1).
- Then fix the door to the frames (see simple leaf door step 2).
- Install the door skids (see step 7).
- Install the first frame (see simple leaf door step 3).
- Install the brace over the door (see simple leaf door step 4).



Step 7

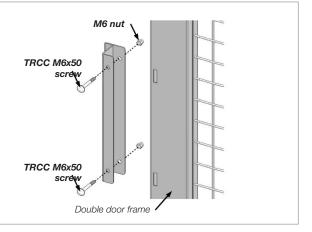
- Install the 2 skids of the door frame with counterplates and M4x10 screws.
- Drill the ground on the contact point between the ground and the skid
- Unmount the base of the hammerable bolt M12
- Put the base on the drilled hole





Step 8

- Install the reception stop with TRCC M6X50 screws and M6 nuts.
- Put the TRCC screw heads outside of the wall.
- Adjust the stop with the door lock.



Step 9

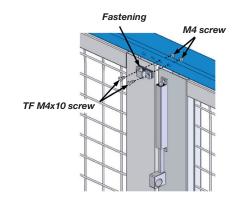
« Pulling » door :

If you have a pulling door, the skid is inserted in the top of the door.

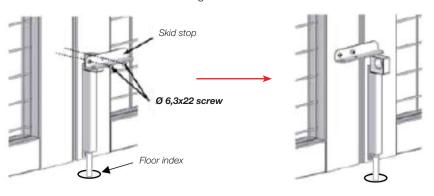


« Pushing » door :

If you have a pushing door, you will have to use a clamp to fix the skid over the door with M4x10 screws and M4 nuts.



- Install the stops for the 2 skids with \emptyset 6,3 x 22 screws. Only for « pushing » doors.
- Check that all screws of the door and accessories are thightened.

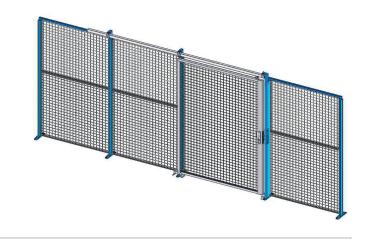


12 Mounting of a sliding door

a - Single sliding door

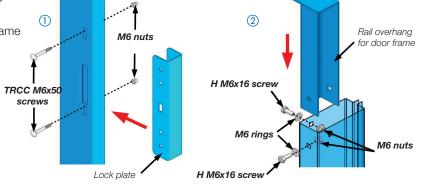
• First check door opening direction.

Useful length of leaf doors				
Length of the door in mm	Useful length in mm			
1000	870			
1200	1070			
1500	1370			
2000	1765			
2400	2165			
3000	2765			



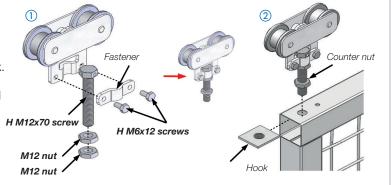
Step 1

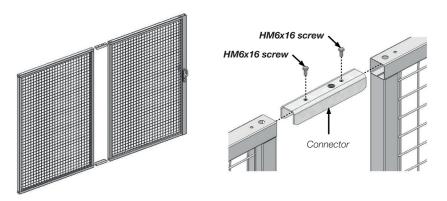
- ① Fix the lock plate on the door frame with TRCC M6 x 50 screws and M6 nuts.
 - The TRCC screw heads should be on the side of the sliding door.
 - Do not tighten, wait for adjustement
- Install the rail overhang for sliding door frame according to door opening.
 - Fix the rail overhang for sliding door frame with H M6x16 screws and M6 nuts.



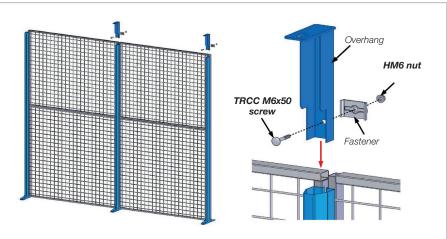
Step 2

- ① Assemble the rollers for sliding door.
 - Do not tighten the screws until the door has been aligned
- 2 Fix the rollers on the door with hooks and clamp using nuts.
 - You need 2 rollers for the door panel with the lock.
 - If the door is wider than 1500 mm, you will need 3 rollers. You need 2 for the panel with the lock and 1 for the other panel.



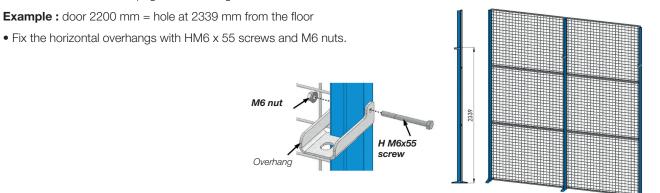


- Fix the overhangs on the uprights that will carry the door rail.
- Fix first the clamp to the overhang and then insert into the upright.



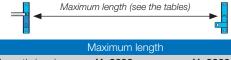
If the wall is higher than the sliding door, install the overhang horizontally in order to fix the rail.

• Make a M6 hole in the upright at door height + 139 mm.

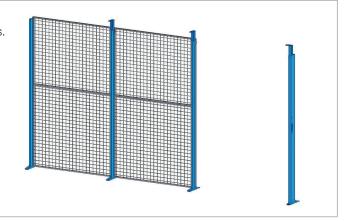


Step 5

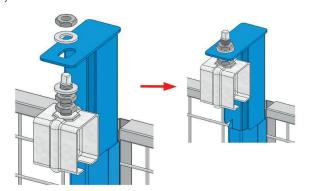
Install the frame according to the maximum dimensions (see the tables) and adapt frame foot plates to upright foot plates.



Maximum length			
Length (mm)	H. 2200 mm	H. 3000 mm	
1000	924	924	
1200	1124	1124	
1500	1424	1424	
2000	1819	1819	
2400	2219	2219	
3000	2819	2819	

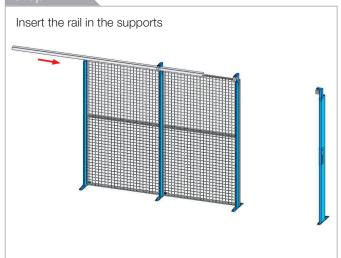


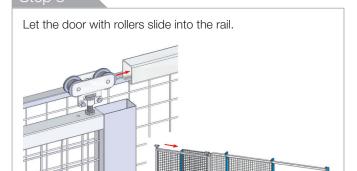
- Fix the rail supports to the overhang supports.
- Do not screw the parts together in the aftermath in order to adjust the door.





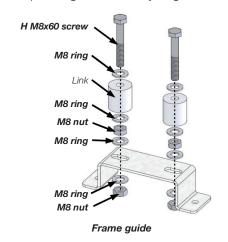
Step 7

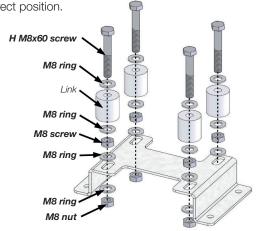


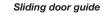


Sten 9

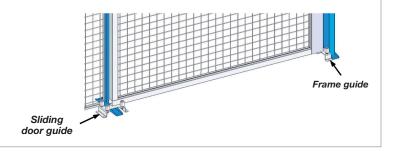
- Assemble the door guides.
- Do not screw the parts together until eveything is in the correct position.





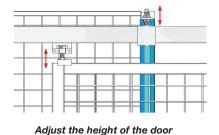


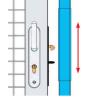
- Install the door guides.
- Fix the guides to the floor with M6x60 bolts

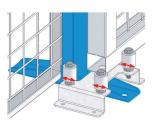




• Adjust the door.



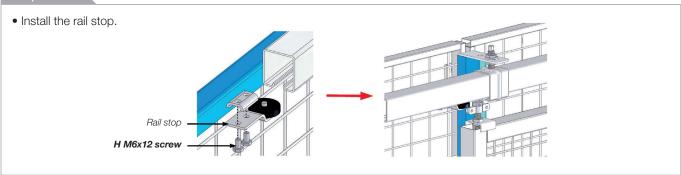




Adjust the lock

Adjust the door guides

• When everything is adjusted, then tighten the screws.



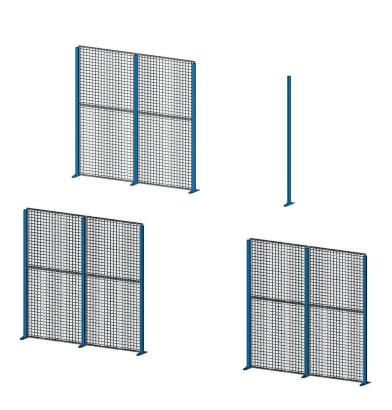
b - Double sliding door

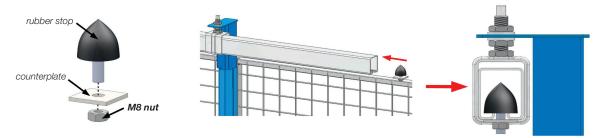
Useful length of double sliding doors				
Length of the door in mm	Useful length in mm			
2000	1725			
2400	2125			
3000	2725			

- First check door opening direction.
- Fix the rollers on the sliding doors (2 rollers per panel). (see sliding door step 2).
- Install the wall upright to leave the free passage of the double sliding door. (see table).

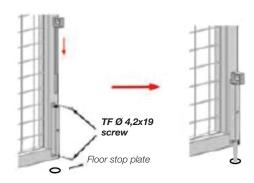


- 2400 2185 2185 3000 2785 2785
- Install the 2 next panels.
- Put the overhang supports on the uprights that will carry the rail (see single sliding door step 4).
- Fix the rail supports to the overhang supports. (see single sliding door step 6).
- Insert the rail in the supports. (see single sliding door step 7).





- Insert the 2 door panels in the rail according to the door opening. (see single sliding door step 8).
- Assemble the 2 guides of the sliding door.
- Put the guides on the door uuprights (see single sliding door step 9).
- Adjust the door panels (see single sliding door step 10).
- Insert the rail stops (see single sliding door step 11).
- Fix the crutch on the door with diameter 4,2x19 screws.
- Fix the floor stop plate with M6x40 plugs.



13 Mounting of the lock

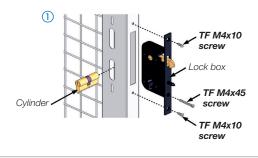
Lock for leaf door

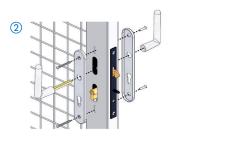
- ① Insert the lock in the door and fix it with M4x10 screws.
 - Insert the cylinder in the lock and fix it with M4x45 screws.
- 2 Mount the handles with the screws.
- ③ To turn the lock hatch, insert a screwdriver in the hole and push the small button.
 - Turn the nose to 180°.



Lock for sliding door

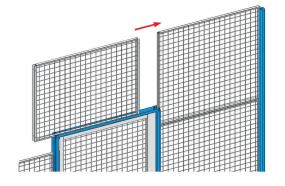
- \bigcirc Insert the lock in the door and fix it with M4x10 screws.
 - Insert the cylinder in the lock and fix it with M4x45 screws.
- 2 Mount the handles with an angle of 90° with the supplied screws.





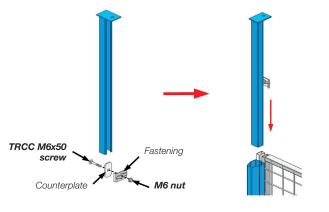
14 Mounting of a top panel

- Insert the top panel on the panel.
- Fix it with Ø 4,2x19 screws. (4 per panel).



15 Mounting of a ceiling fixing

- Assemble the counterplate with the clamp.
- Insert it in the ceiling fixing.
- Insert in the upright.
- Fasten the ceiling fixing to the upright.
- Fix the ceiling fixing to the ceiling (screws not supplied)..



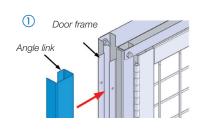
16 Mounting a plexiglass panel

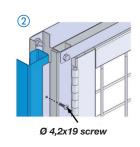
• The mounting of the plexiglass panel is the same as the standard panel.

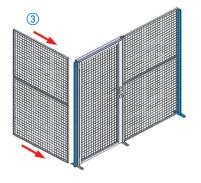


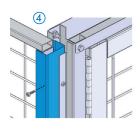
17 Mounting of an angle link for leaf door

- 1) Insert the angle link profile in the leaf door frame.
- 2 Fix the angle link profile in the frame with screws diameter 4,2x19.
- ③ Insert the panels in the angle link profile.
- 4 Fix the panels in the angle link profile with screws diameter 4,2x19.
 - Use 2 screws per panel (module).



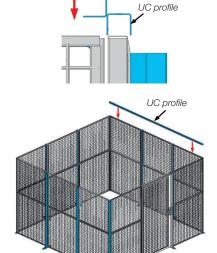




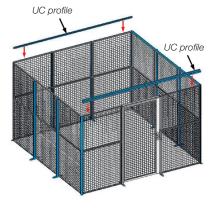


Roof with 1 sides wall

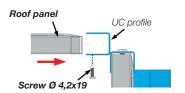
- ① When you have mounted the 4 sides of the wall, insert the UC profile instead of the U top profile.
 - To not fix the UC profiles at once.



2 Make the same for the 2 side UC profiles.

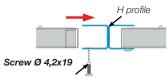


- ③ Insert the first panels in the UC profiles.
 - Adjust the last panel if necessary (see § 7 cutting of the panels)..

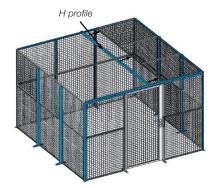




- Assemble the H frame with 2 finition U frames and the M6x12 screw
 - Fit the H frame on the roof panel
 - Fix the H frame with the slef-drilling screw 4.2x19.
- (5) Fix the H profile from the bottom side with screws diameter 4,2x19.
 - Insert the next roof panels in the H profile and the UC profiles.



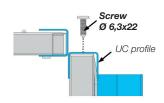
6 Fix the roof panels in the H profile with diameter 4,2x19 screws. Repeat this operation as many times as necessary

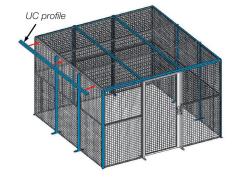






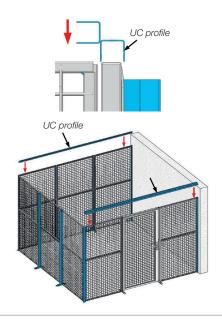
- 7 Insert the last UC profile on the roof panels and the wall panels.
 - Fix the UC profiles from the upper side with diameter 6,3x22 screws

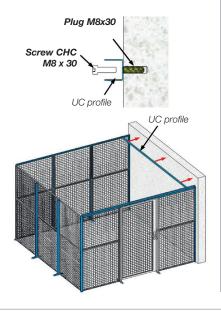


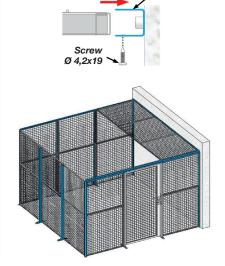


- 1 Insert the UC profiles on the wall.
 - Do not fix the UC profiles at once.
- ② Fix the U wall profile at the same height than the UC profiles with M8 x 30 plugs and CHC M8 x 30 screws.
- (3) Install the first panels in the UC profiles and U wall profile.
 - Adjust the last panel if necessary. (see § 7 cutting of the panels).
 - Fix the roof panels in the U wall profile and in the UC profile with diameter 4,2x19 screws
 - Continue the mounting, see § 4 roof on 4 sides wall.

U wall profile







Mounting of an industrial wall on a mezzanine floor

Important: The industrial wall shall not be used as handrail.

When you mount an industrial wall on a mezzanine floor, use counterplates to fix uprights, screws M12x70 and brake nuts M12.

2 possibilities to fix of the counterplates:

- (1): no hindrance under the upright footplate.
- 2 : A beam under the upright.

