SIEMENS

Sinorix™ H2O Jet

2-legged H2O rack - 2 tanks in line

Mounting

A6V10985179_en--_a
17.01.2019

Building Technologies

Control Products and Systems

Description

Use

The 2-LEGGED H2O RACK – 2 TANKS IN LINE is a stand-alone rack to hold H2O Jet automatic extinguishing system water tanks. It is used to hold two tanks in line.

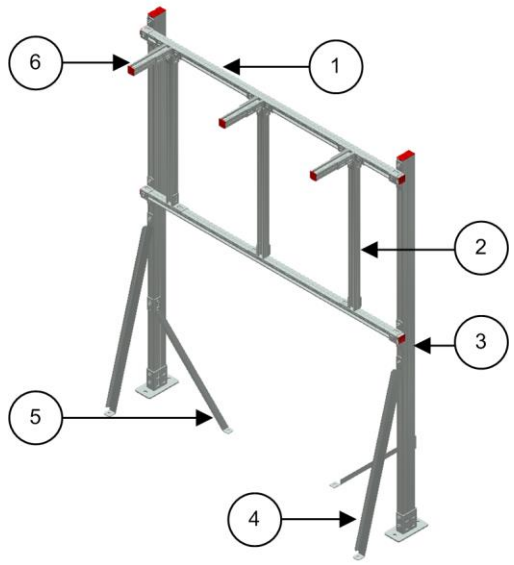
Other racks exist for other tank and cylinder arrangements.

This document describes how to assemble the rack and attach it to the floor.

Composition

The 2-LEGGED H2O RACK – 2 TANKS IN LINE is a combination of different sets of equipment.

Item	Part	Reference
1	Cross member	RAIL-21D-1700 FR2:LB1700200008
2	Strengthening piece	RACK-SET-SA-2B A6E60200642
3	Upright	RAIL-41D-2130 FR2:LB1700340008
4	Long strut	RACK-SET-SA-2B A6E60200642
5	Strut	RACK-SET-SA-2B A6E60200642
6	Manifold support	RACK-SET-SA-2B A6E60200642



Technical data

The technical data of the products used to assemble the rack are provided in the product data sheets.

Precautions

This product may only be installed by Siemens-authorized specialized installers, with experience in the design, installation and maintenance of automatic extinguishing systems. Installers must ensure that this product is used as intended, that any danger to themselves or to others is avoided, and that Siemens requirements are met (assembly instructions, technical instructions, commissioning, and operating instructions).

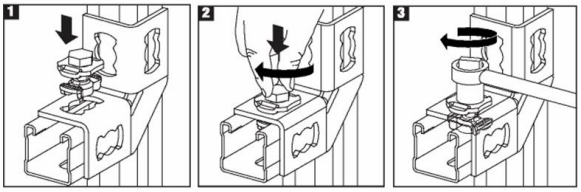
Furthermore, the installation must comply with the accident prevention regulations and national regulations in force.

Installers must also ensure that the operators have read and understood the information related to this product.

Tools

Assembling the RACK	Attaching the RACK to the floor
• Torque wrench 10-100 Nm • 16 mm open-end wrench • 16 mm tubular box wrench • Tape measure • Spirit level	• Drill • Plugs (metal or chemical) • ∅12 mm screws and washers

Mounting a pushbutton



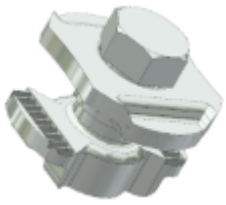
1. Put the pushbutton into place.
2. Press the pushbutton and turn it by hand.
3. Tighten the pushbutton with a torque wrench.
   - Tightening torque: 40 Nm.

⚠ WARNING

Risk of damaging the pushbutton

Do not tighten the pushbutton beyond the recommended tightening torque.

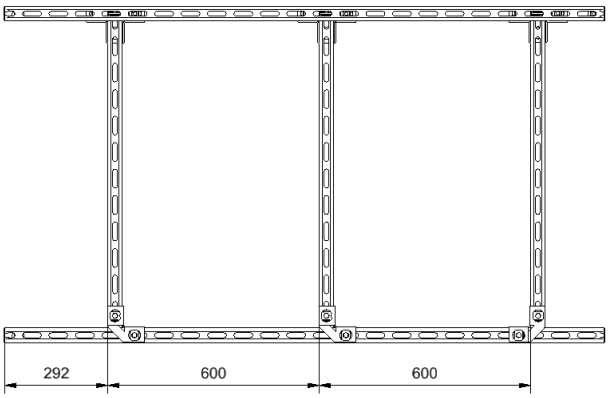
Rack assembly parts

Angle	Clamp	3D connector	Pushbutton
			

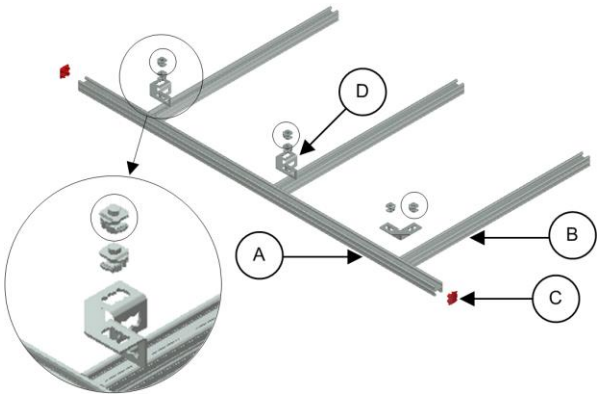
Assembling the frame

	⚠ WARNING
	Assemble on an even surface.

Equipment

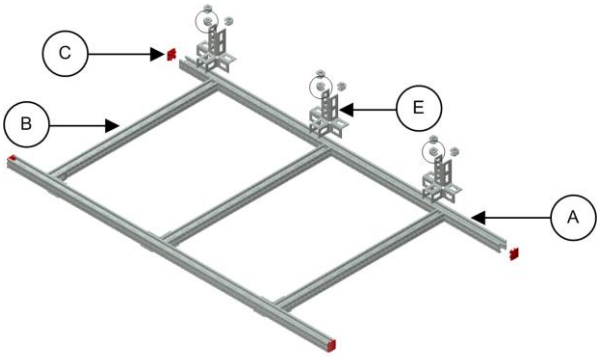
Item	Part	Quantity	Dimension (in mm) to be complied with
A	Cross member RAIL-21D-1700 mm	2	
B	Strengthening piece	3	
C	End cap for rail 21D	14	
D	Angle	3	
E	3D connector	3	
F	Manifold support	3	
	Pushbutton	21	

Assembling the strengthening pieces on the lower cross member



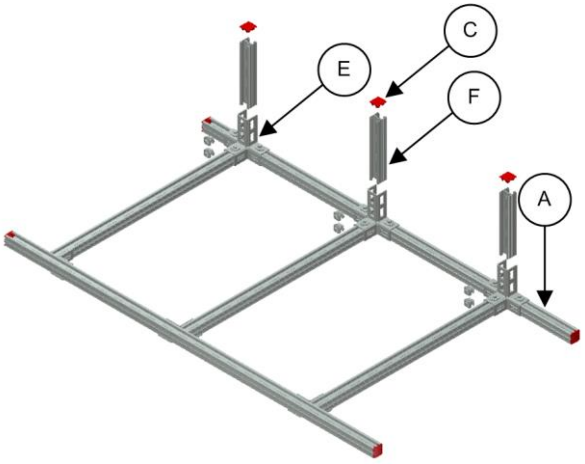
1. Fit 2 end caps for RAIL-21D (C) at each end of the cross member (A).
2. Lay the strengthening pieces (B) and cross member (A) flat on the floor.
3. Mount the strengthening pieces (B) on the cross member (A) with the angles (D) in accordance with the dimensions indicated above.
4. Put the 6 pushbuttons into place and tighten them by hand.
5. Tighten the pushbuttons on the strengthening piece (E) side (circled buttons on the figure opposite) to the recommended torque with the wrench. The buttons on the cross member side will be tightened with the wrench at the end of assembly.

Assembling the upper cross member



1. Turn over the assembly so that the angles are facing the floor.
2. Fit 2 end caps for RAIL-21D (C) at each end of the cross member (A).
3. Mount the upper cross member (A) on the strengthening pieces (B) with the 3D connectors (E).
4. Put the 9 pushbuttons into place and tighten them by hand.
5. Tighten the pushbuttons on the strengthening piece (B) side (circled buttons on the figure opposite) to the recommended torque with the wrench. The buttons on the cross member side will be tightened with the wrench at the end of assembly.

Assembling the manifold supports

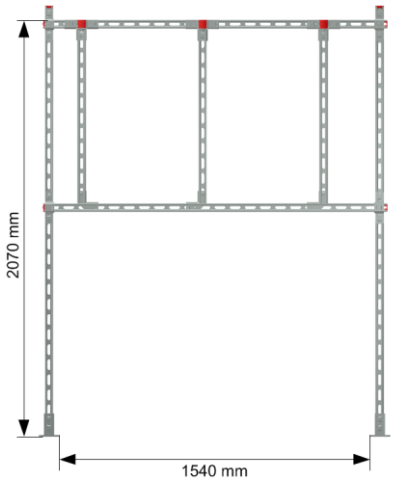


1. Fit 2 end caps for RAIL-21D (C) on one end of the manifold supports (F).
2. Position and attach each manifold support in the 3D connector (E) using 2 pushbuttons.
3. Tighten the pushbuttons to the recommended torque with the wrench.

Mounting the frame on the uprights

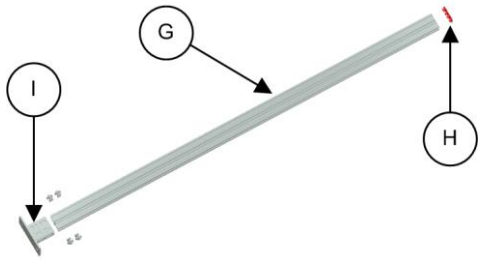
	⚠ WARNING
	Assemble on an even surface.

Equipment

Item	Part	Quantity	Dimensions to be complied with
G	Upright RAIL-41D-2130 mm	2	
H	End cap for rail 41D	4	
I	Upright base	2	
J	Clamp	4	
	Pushbutton	20	

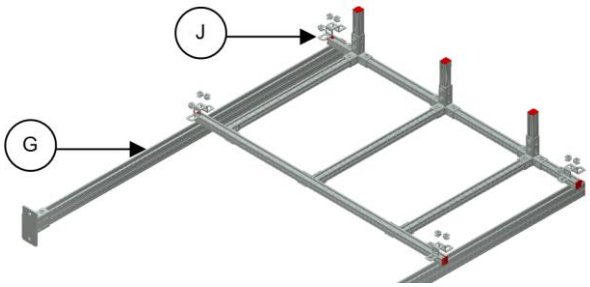
Assembling the uprights

Repeat the procedure for each upright.



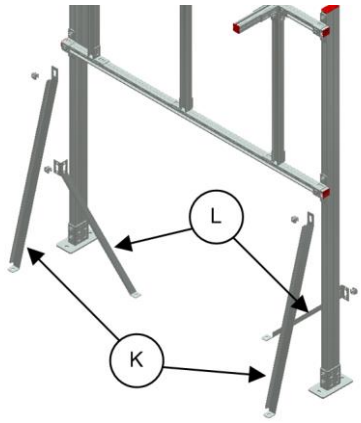
1. Attach the upright base (I) to the upright (G) using 4 pushbuttons.
2. Tighten the pushbuttons to the recommended torque with the wrench.
3. Fit 2 end caps for RAIL-41D (H) on the other end of the upright (H).

Mounting the frame on the uprights



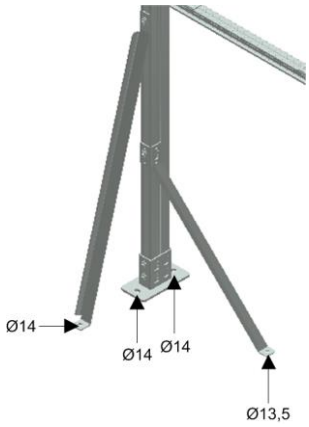
1. Position the frame on the uprights (G) in accordance with the dimensions indicated above.
2. Attach the frame to the uprights (G) using 4 rail clamps (J) and 12 pushbuttons.
3. Tighten the pushbuttons to the recommended torque with the wrench.

Assembling the struts



1. Stand the assembly upright.
2. Position the struts (K) and (L).
3. Attach the struts to the uprights using 4 pushbuttons.
4 Tighten the pushbuttons to the recommended torque with the wrench.
5. Position the rack in its desired location.
6. Check the levels and adjust the assembly if necessary.

Attaching the rack to the floor



1. Mark the holes at the upright bases and struts.
2. Move the rack to drill the holes.
3. Reposition the rack and fix it to the floor using appropriate Ø12 mm screws, washers and plugs.

At the end of assembly

- Check the position of the manifold supports.
- Check all levels.
- Tighten all pushbuttons previously tightened by hand with a wrench.

Checks

During the periodic system inspections, visually check the following:

- The end caps are in place.
- There is no corrosion.
- The pushbuttons are correctly attached.
- The rack is securely anchored to the floor.

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