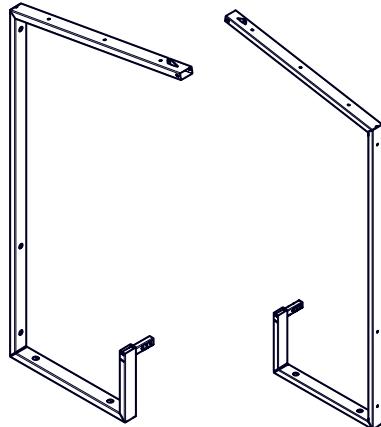


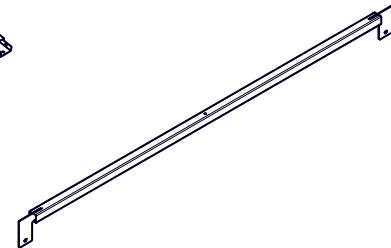
## List of components



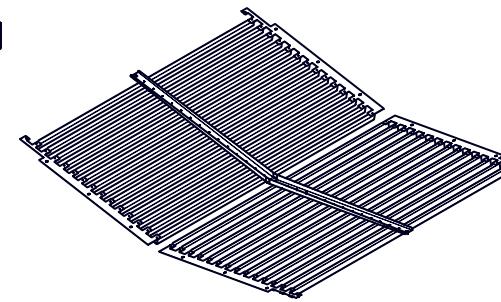
Strut A  
pz 2

Strut B  
pz 2

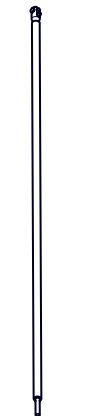
External bar  
pz 2



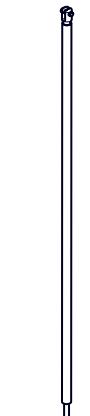
Upper bar  
pz 1



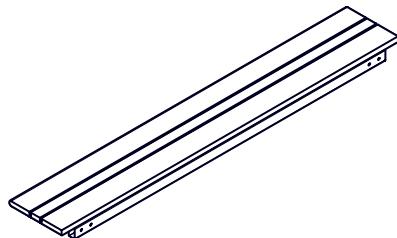
Cover  
pz 1



Tie rod A  
pz 2



Tie rod B  
pz 2



Assembled  
seat  
pz 2

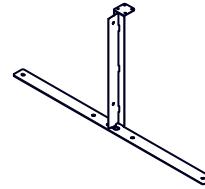
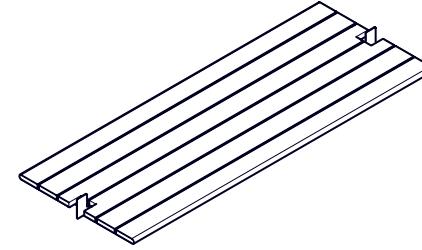


Table  
support  
pz 2



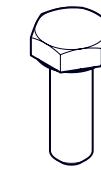
Assembled  
table  
pz 1



Turnbuckle  
pz 2



Slit pin  
pz 4



Hex head screw  
M10x30  
pz 6



Flat washer  
M10  
pz 12



Self-locking nut  
M10  
pz 6



M5x10  
pz 1



Button head screw  
M8x20  
pz 24



Flat washer  
M8  
pz 12



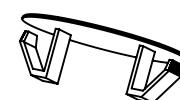
Self-locking nut M8  
pz 8



Button head screw  
M8x60  
pz 8

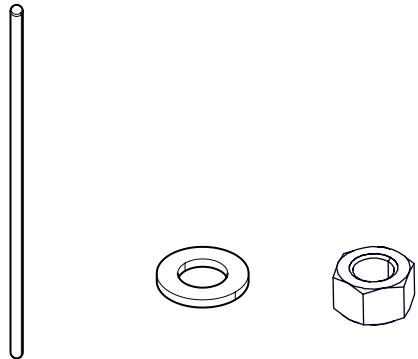


Flat washer  
M8  
pz 48



Plug  
pz 8

## Fixing kit



Threaded rod  
M12 x 190  
pz 8

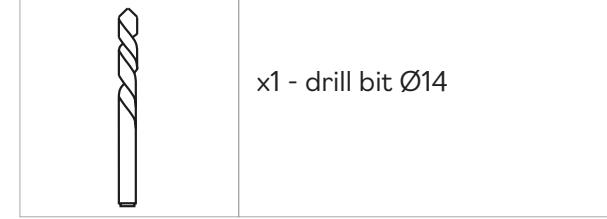
Washer  
M12  
pz 8

Nut M12  
pz 8

## Preparation



Belts



x1 - drill bit Ø14



Hammer drill



Mechanical arm / crane



Chemical anchoring



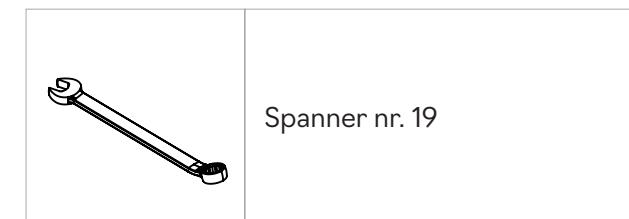
Measuring tape



Spanner nr. 16



Spanner nr.17



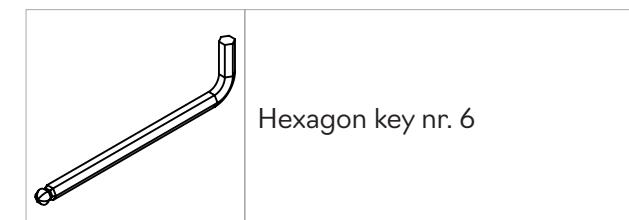
Spanner nr. 19



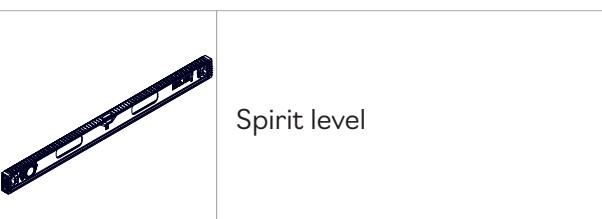
Hexagon key nr. 3



Hexagon key nr. 5



Hexagon key nr. 6



Spirit level



Step ladder

## Index of steps

- 1 Foundations**
- 2 Hole preparation**
- 3 Table assembly**
- 4 Strut-table-seats assembly**
- 5 Ground fixing**
- 6 External-upper bar assembly**
- 7 Cover assembly**
- 8 Tie rod assembly**

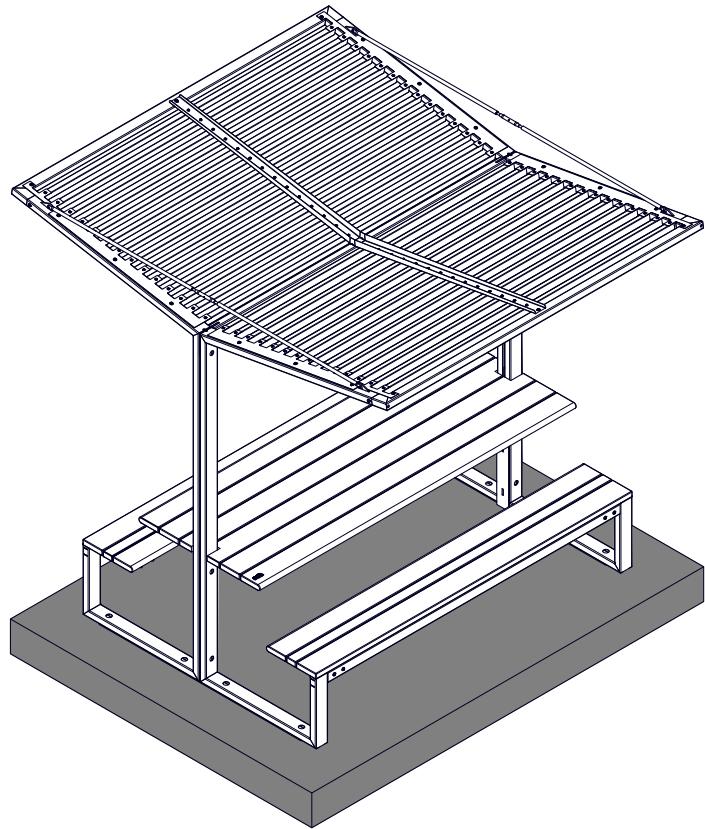
# General Instructions

ENG



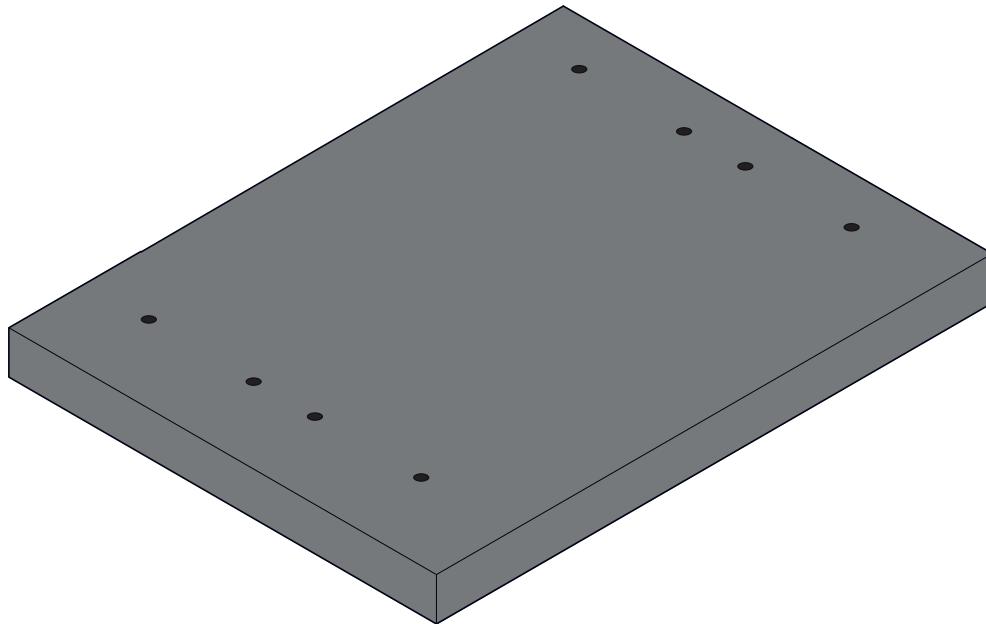
- The recommended foundation diagram is attached to the structural calculation report.
- All the images in this document are for illustrative purposes only and have been included to help the operators carry out the assembly of the CISON picnic table.
- Perform the work wearing the required PPE (Personal Protective Equipment).
- For further information please contact Metalco S.r.l.:
  - Email: [info@metalco.it](mailto:info@metalco.it);
  - Tel. +39 0423 7863;

For further details regarding the composition and the measurements please refer to the attached documents:  
- Fondazioni CISON.pdf



## 2

## Hole preparation



## Components for the step

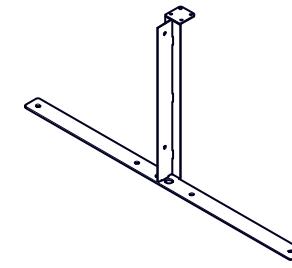
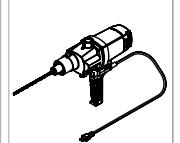


Table  
support  
pz 2

## Preparations for the step



Hammer drill

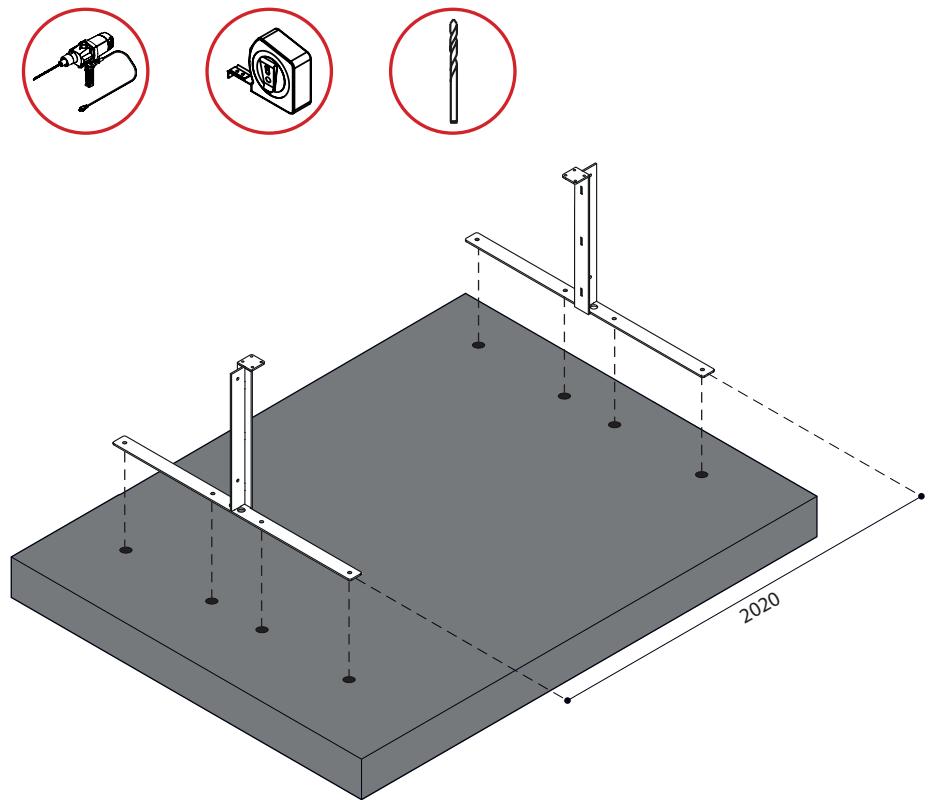


Measuring tape

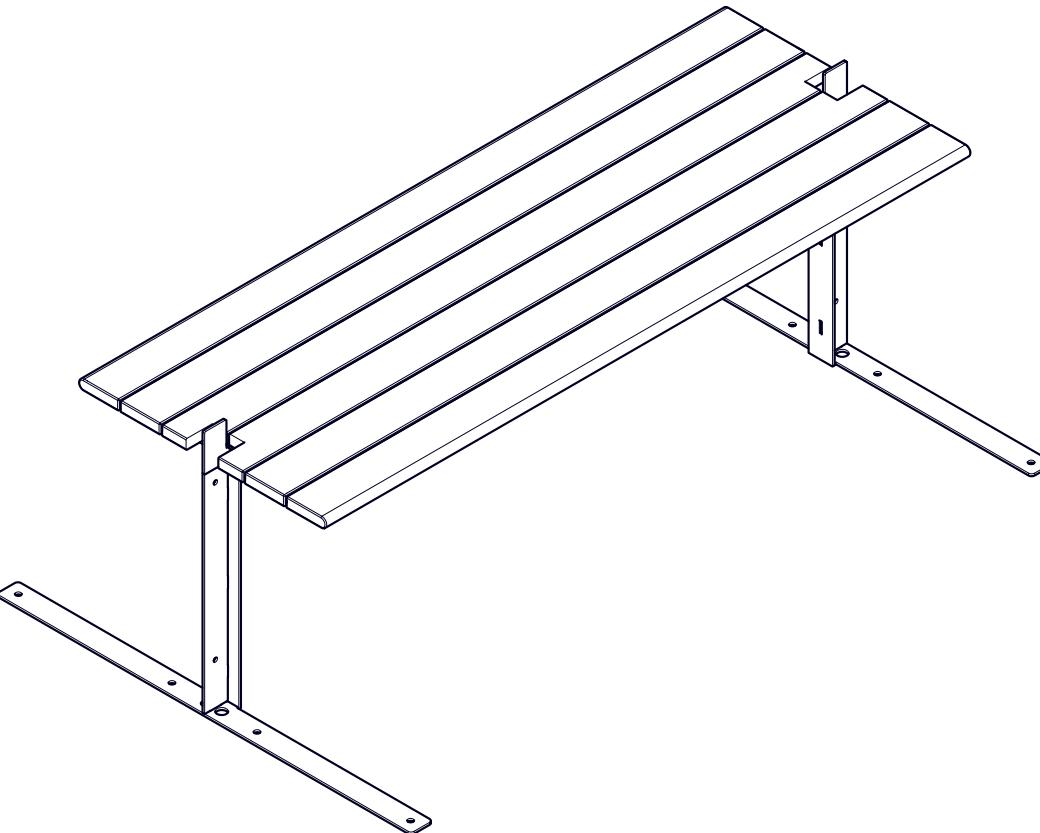


x1 - drill bit Ø14

1. Following the indications on the foundation plan, align the table supports according to the characteristics of the foundation. Use a measuring tape to accurately follow the measurements.
2. Mark the holes with the help of the table supports.
3. Remove the supports and drill the holes. Use a Ø 14 mm drill bit to drill the holes.



### 3 Table assembly



#### Components for the step

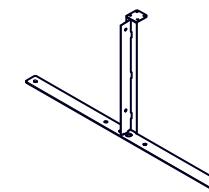
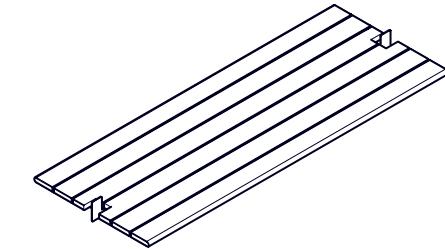
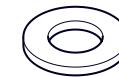


Table support  
pz 2



Assembled table  
pz 1



Washer M8  
pz 8



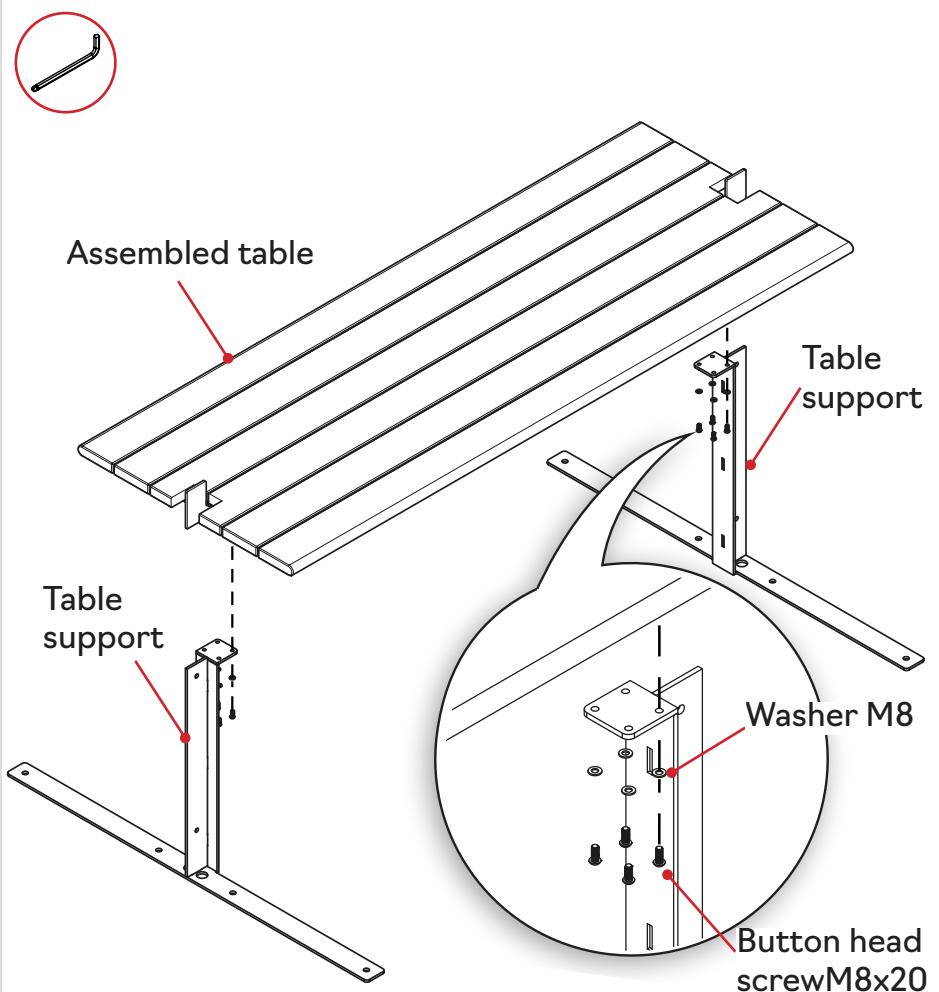
Button head screw M8x20  
pz 8

#### Preparations for the step



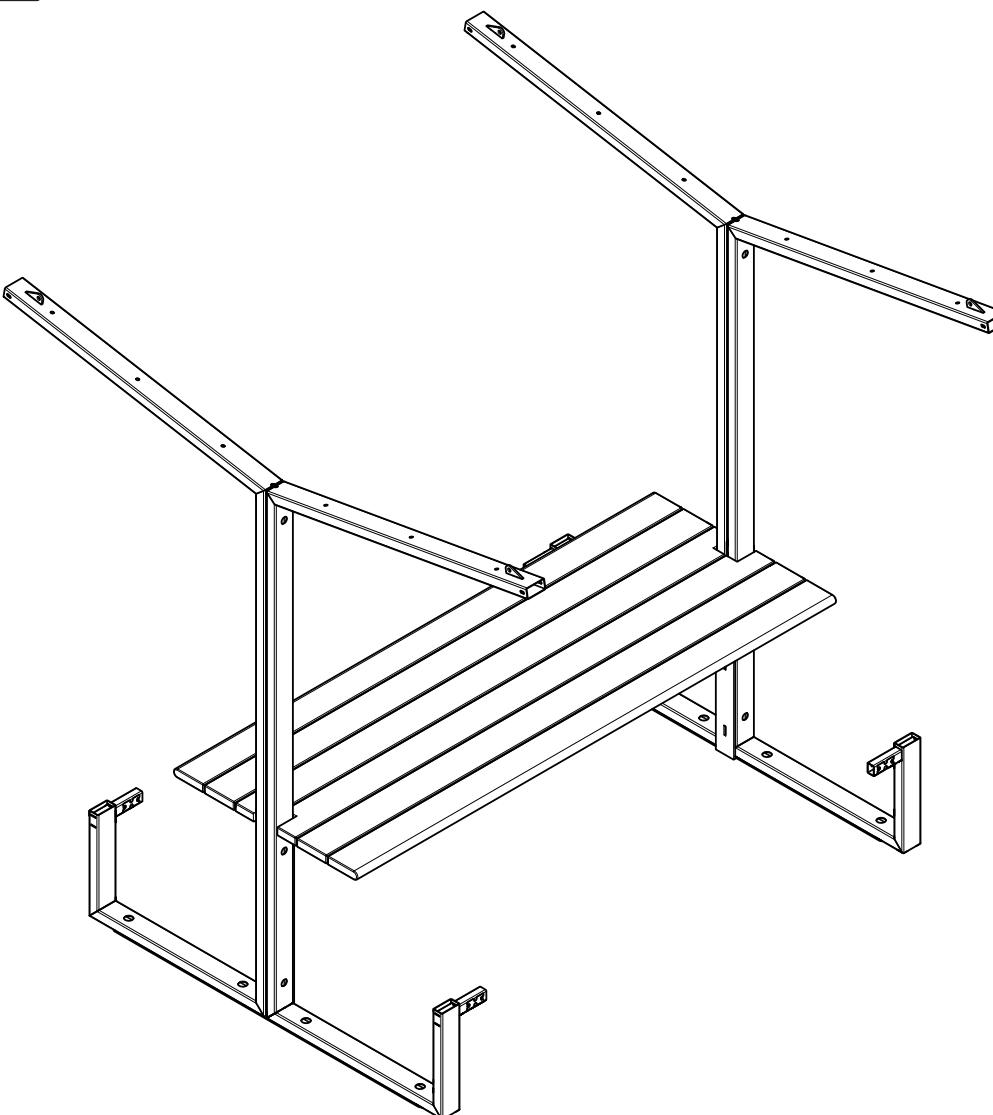
hexagon keynr. 5

1. Place the assembled table on the two table supports, making sure to align the holes on the sides of the table with those of the supports.
2. Once the holes are aligned, hold the components in place and secure the assembled table to the table supports with nr. 8 M8 washers and nr. 8 M8x20 screws. For this activity use a hexagon key nr. 5.

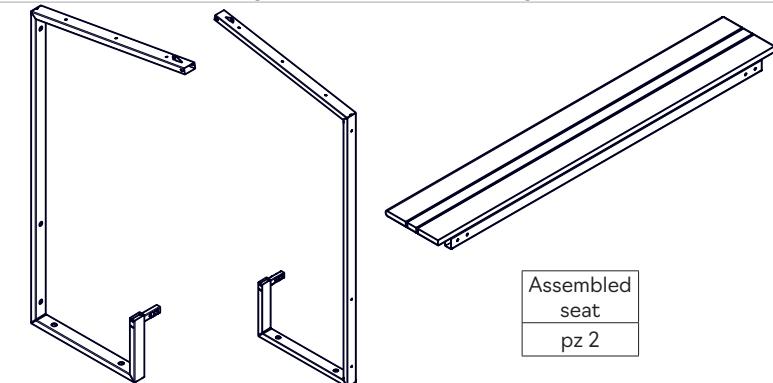
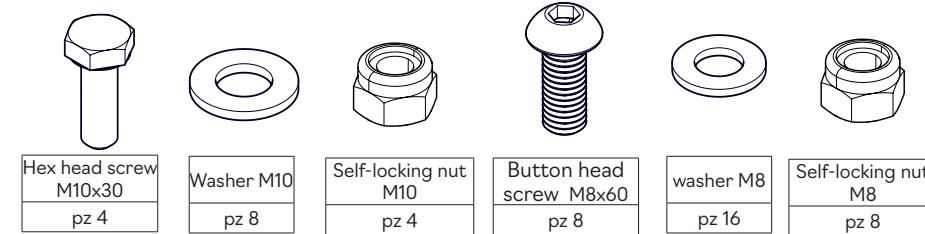


## 4

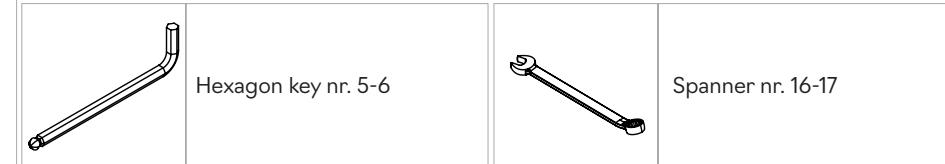
## Strut-table-seats assembly



## Components for the step

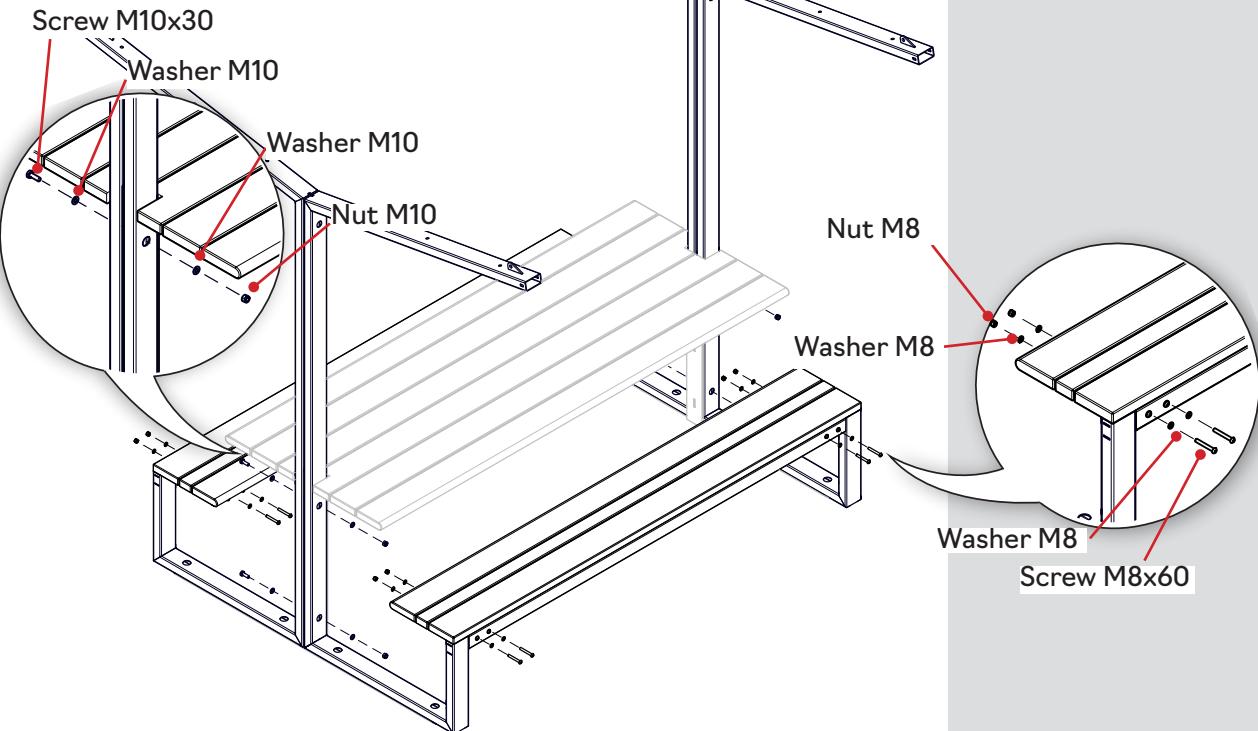
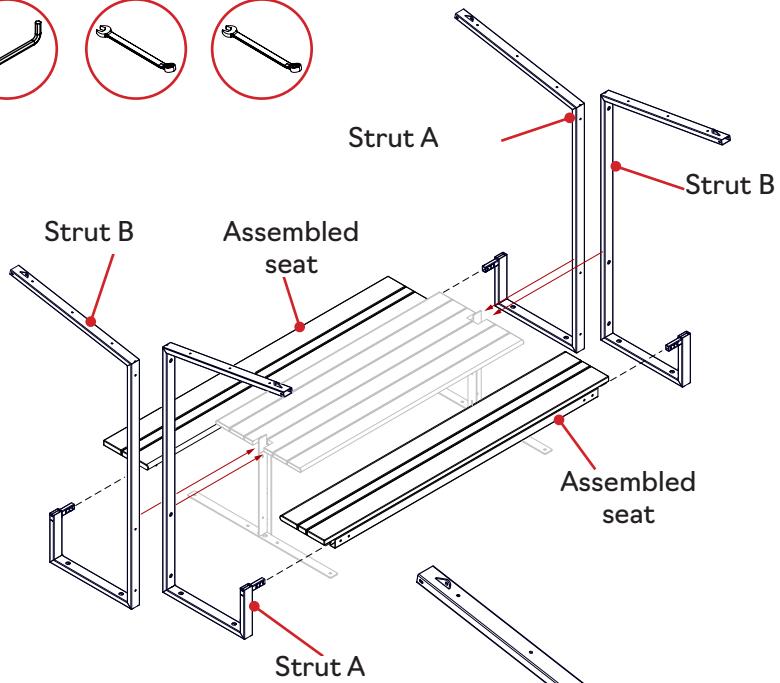
Strut A  
pz 2Strut B  
pz 2Assembled  
seat  
pz 2Hex head screw  
M10x30  
pz 4Washer M10  
pz 8Self-locking nut  
M10  
pz 4Button head  
screw M8x60  
pz 8washer M8  
pz 16Self-locking nut  
M8  
pz 8

## Preparations for the step



Hexagon key nr. 5-6

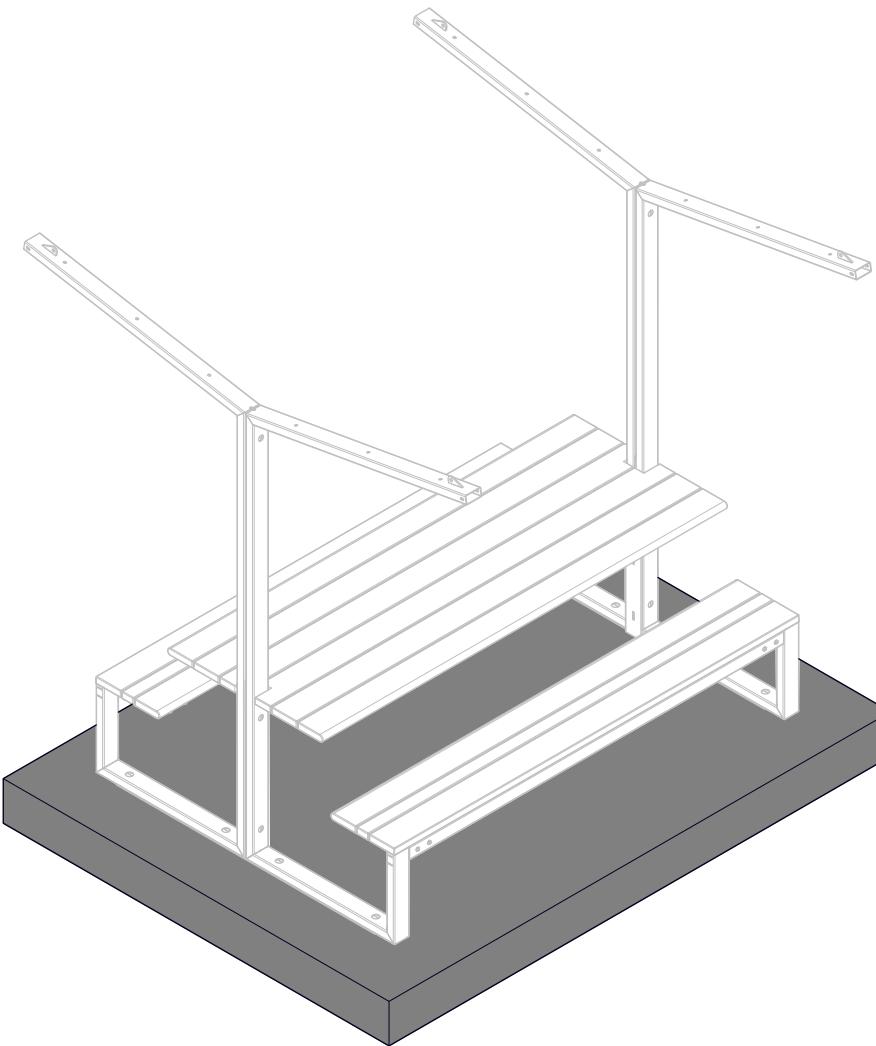
Spanner nr. 16-17



1. Fix an A and B strut on one side of the assembled table using no. 4 M10x30 screws, nr. 8 M10 washers and nr. 4 M8 nuts. Use two spanners nr. 17
2. Mount the two assembled seats to the structure obtained, then proceed to mount the other two struts A and B on the opposite side using nr. 8 M8x60 screws, nr. 16 M8 washers and nr. 8 M8 nuts. In this case, equip yourself with a hexagon key no. 5 and a spanner nr. 16.

## 5

## Ground fixing



## Components for the step



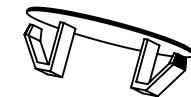
Threaded rod  
M12 x 190  
pz 8



Washer  
M12  
pz 8



Nut M12  
pz 8



Plug  
pz 8

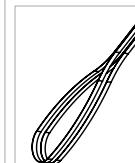
## Preparations for the step



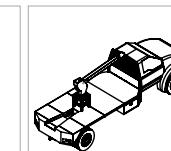
Spanner nr. 19



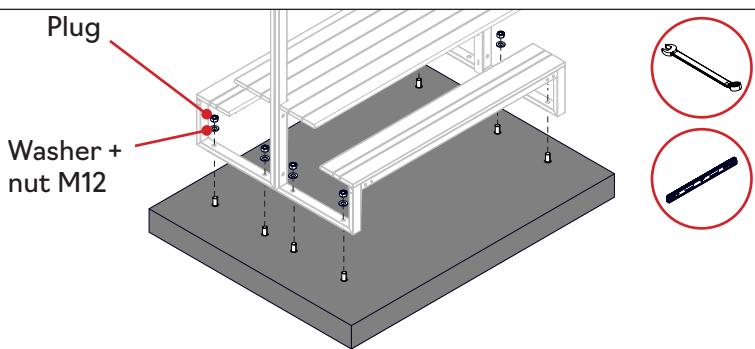
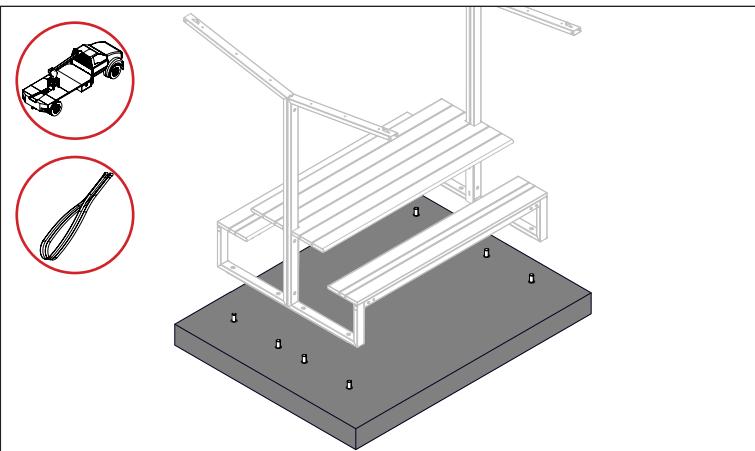
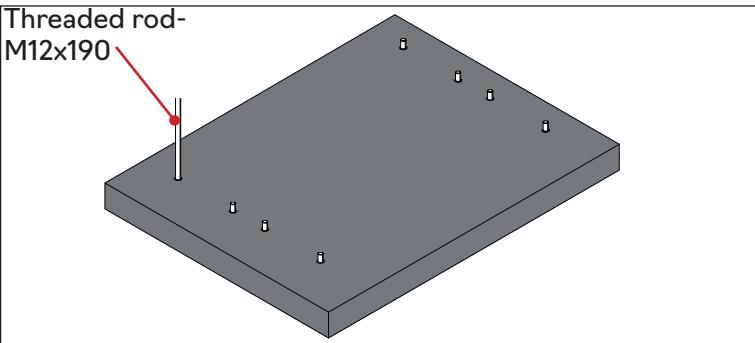
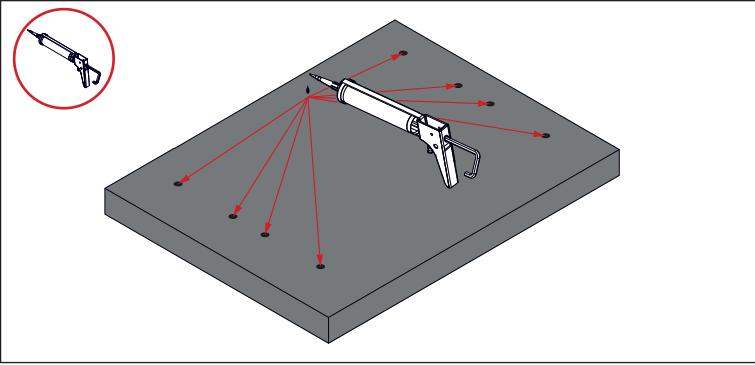
Chemical anchoring



Belts



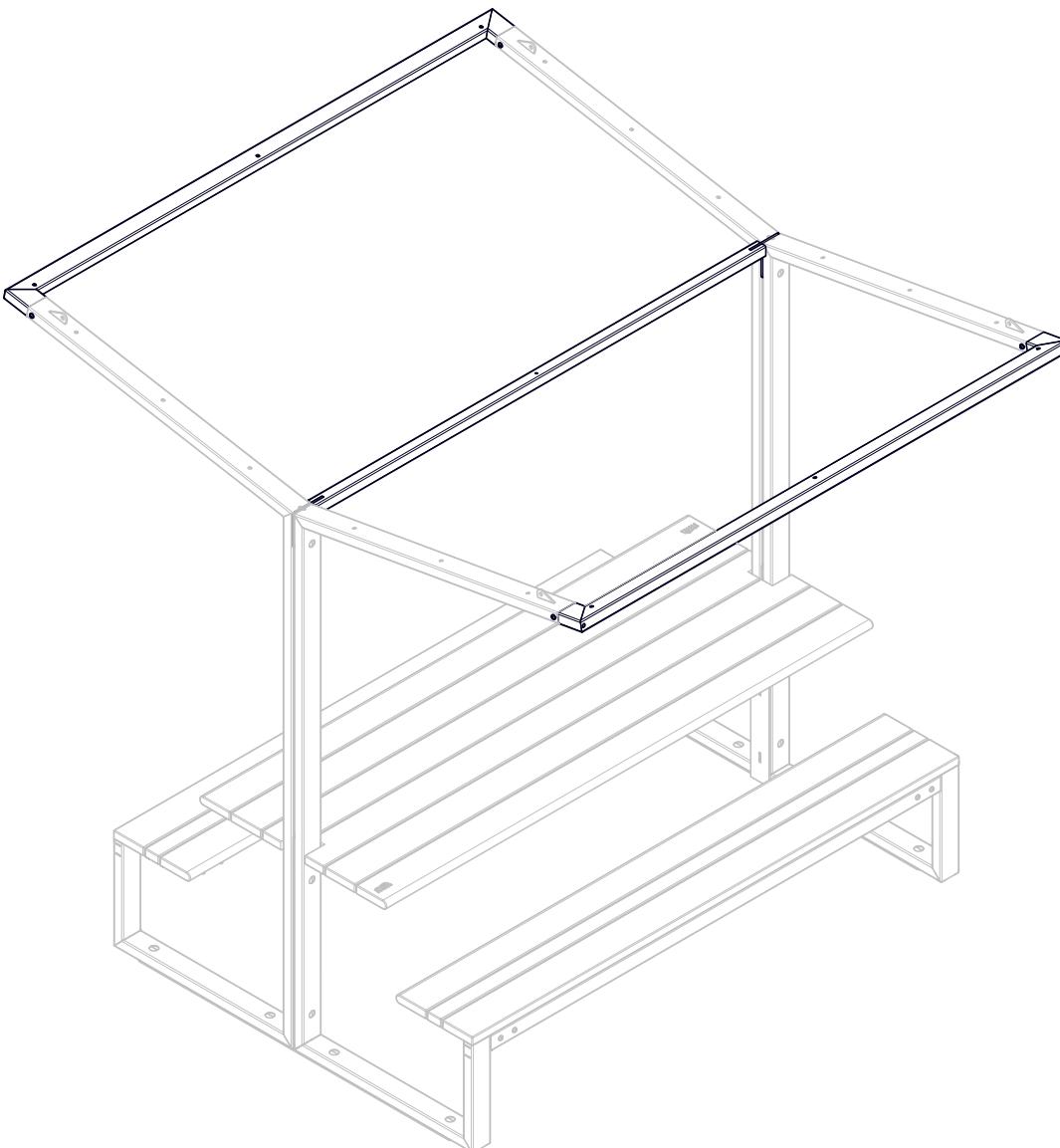
Mechanical arm / crane



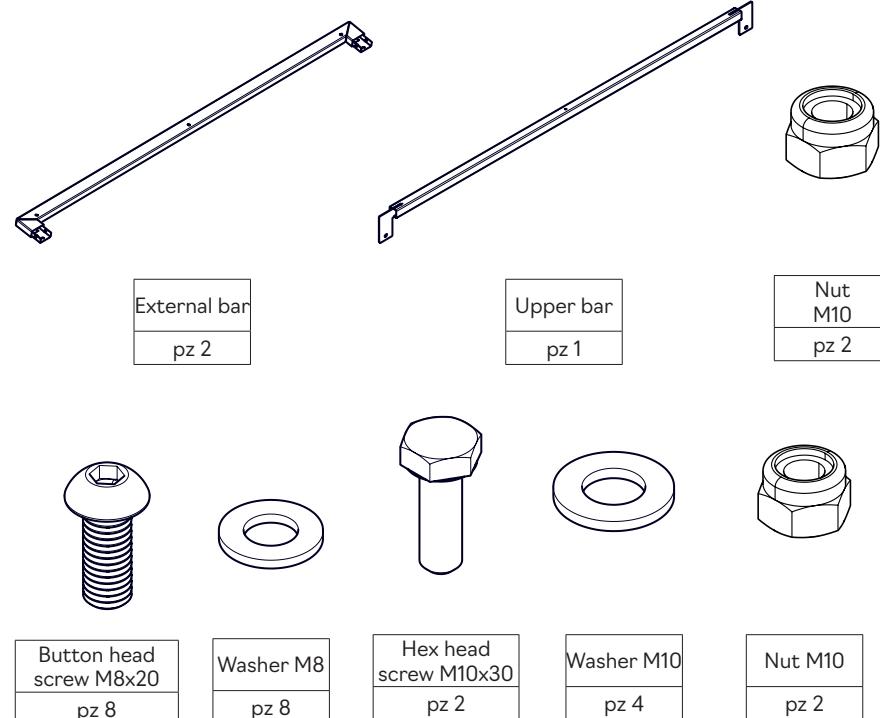
1. Pour some chemical anchor into the 8 holes where the structure will be aligned
2. Insert an M12 threaded rod per hole, checking that the rods protrude about 30 mm from the ground
3. Wait for the adhesive to solidify and then the bars are fixed.
4. Position the assembly, moving it with an elevator arm (crane), after having fixed it well with the straps. Be careful to align the threaded bars with the holes at the base of the assembly.
5. Apply nr. 8 M12 washers and screws, and nr. 8 nut M12, one washer and a nut for each of the threaded rods. Use a wrench nr. 19.
6. Insert one plug for each hole.

## 6

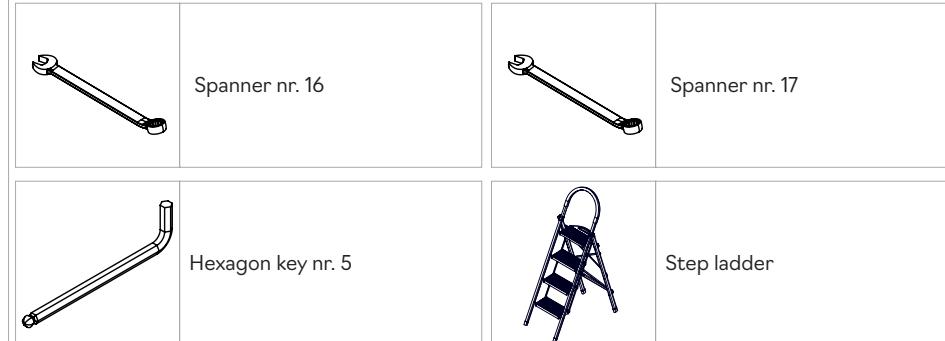
## External-upper bar assembly

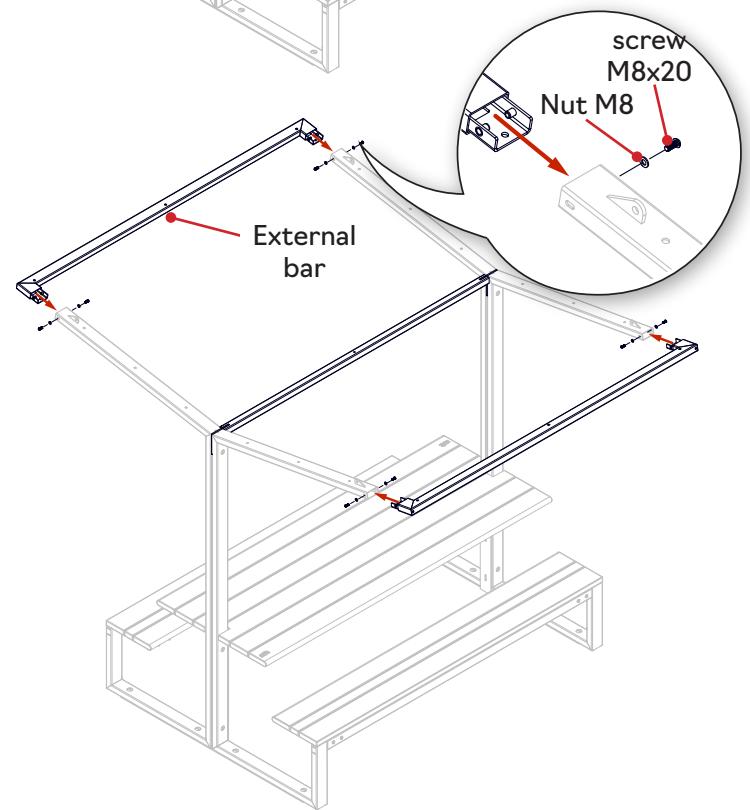
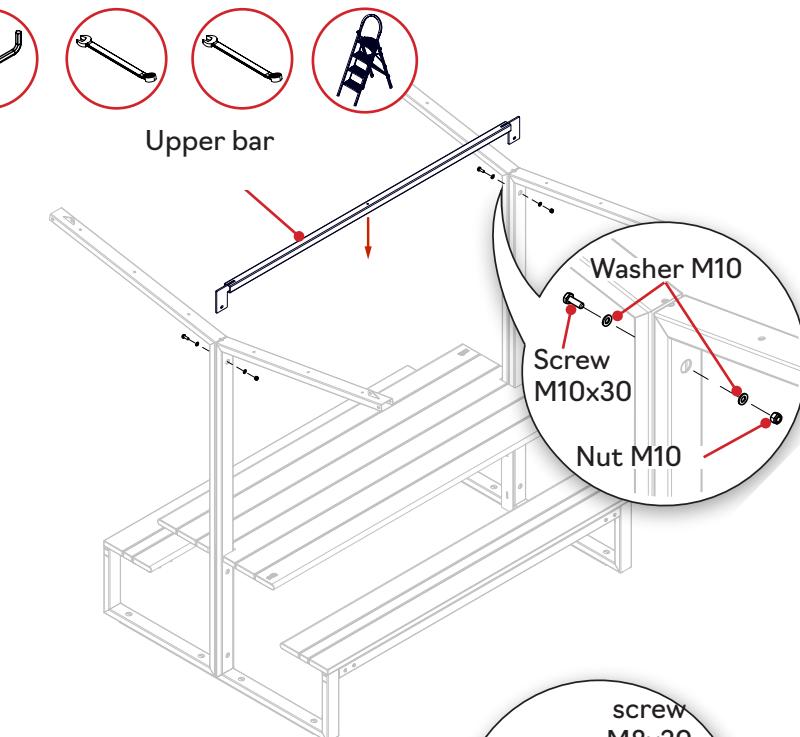


## Components for the step



## Preparations for the step

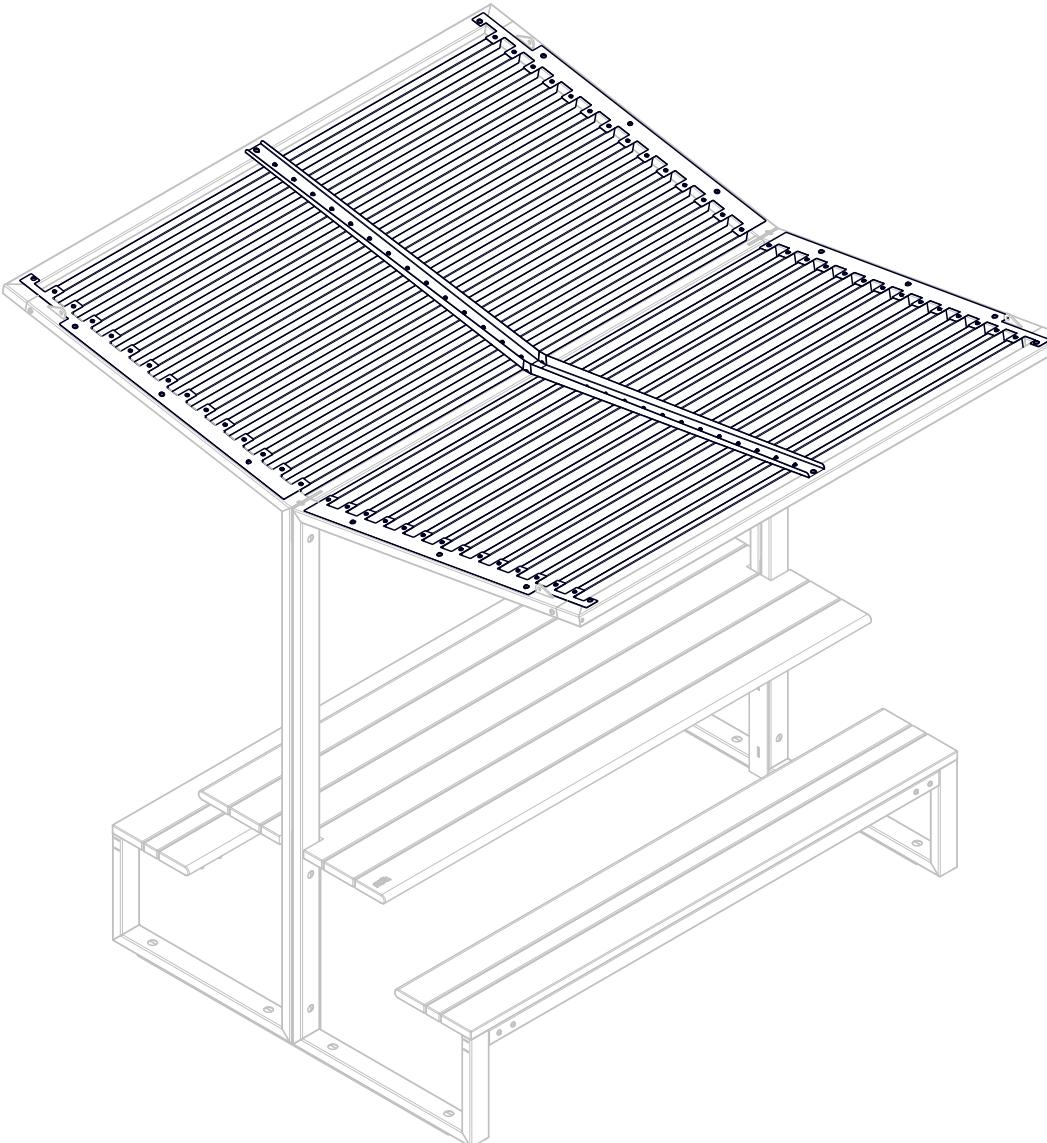




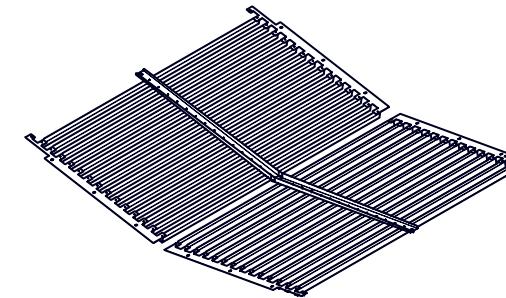
1. Take the external bars on the uprights, as indicated in graphics on the side, and fix them with nr. 4 M8x20 screws, Nr. 8 M8 washers and nr. 4 M8 nuts. Use a hexagon key nr. 5 and a wrench nr. 16. Help yourself with a ladder to move the bars
2. Position the upper bar by sliding the side tabs into the inlets between the uprights.
3. Fix the upper bar using nr. 2 M10x30 screws, nr. 4 M10 washers and nr. 2 M10 nuts, using two spanners nr. 17. Lower the bar from above using a ladder.

## 7

## Cover assembly



## Components for the step

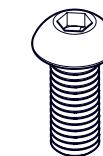


Cover  
pz 1

Washer M8  
pz 18

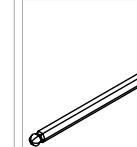


Button head  
screw M5x10  
pz 1



Button head  
screw M8x20  
pz 18

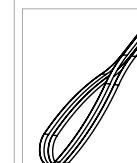
## Preparations for the step



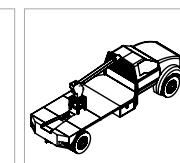
Hexagon key nr. 3-5



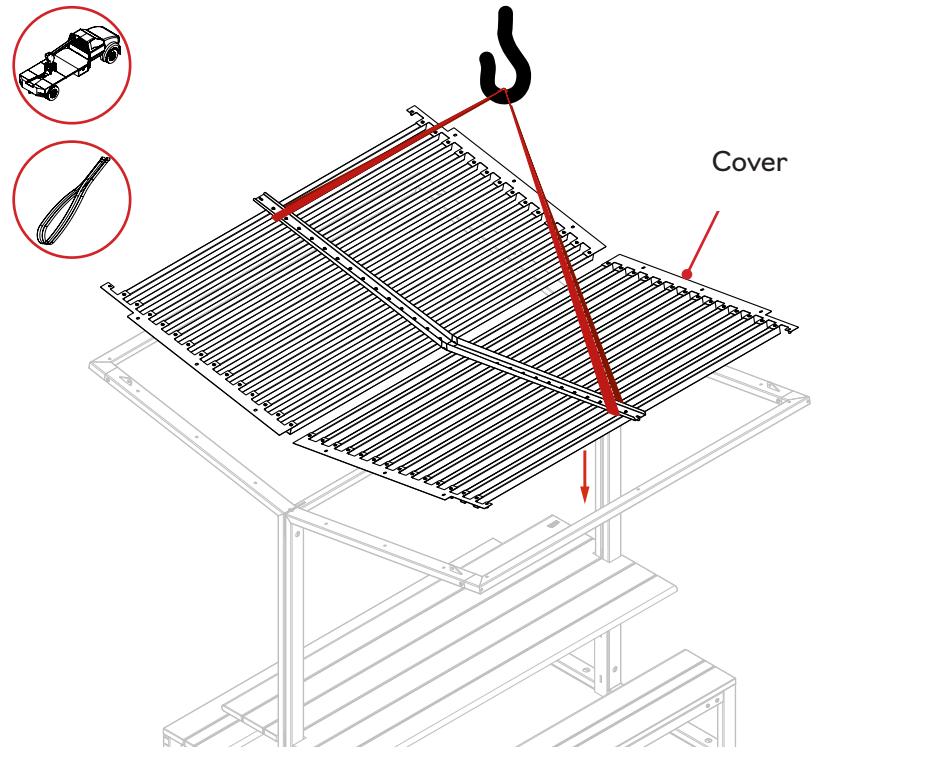
Step ladder



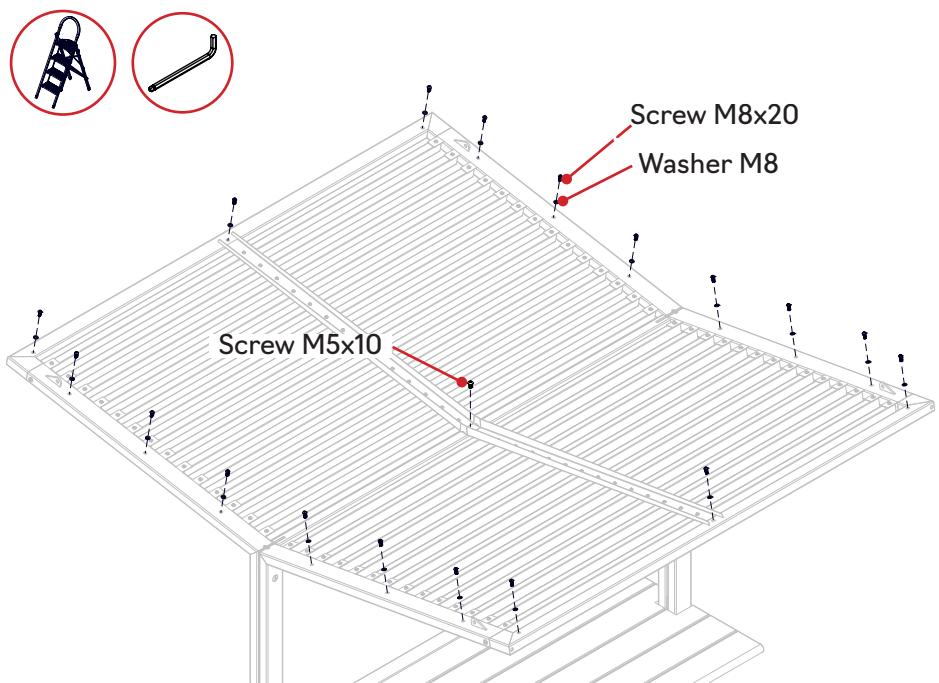
Belts



Mechanical arm / crane

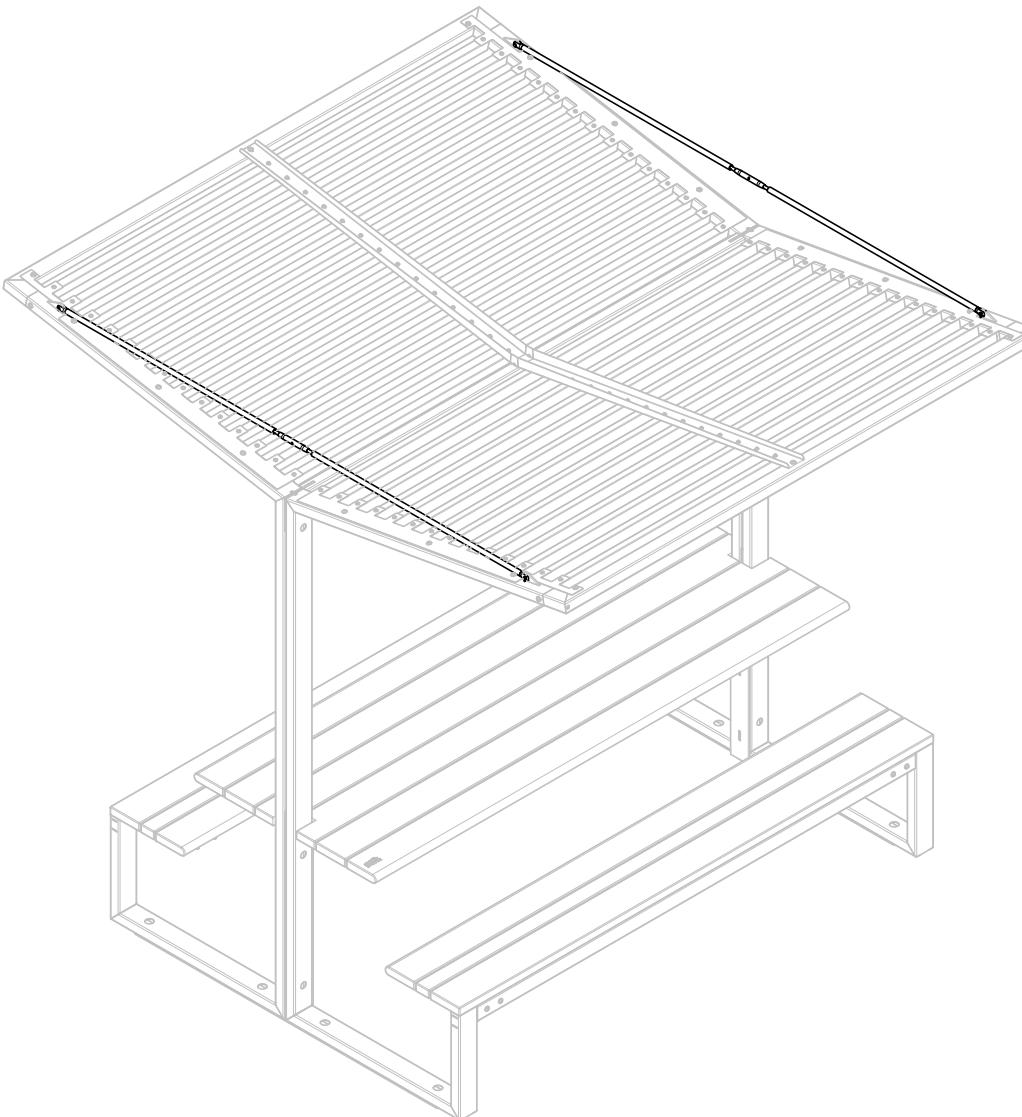


1. Move the cover using a mechanical arm (or crane). Check that you have fixed the piece well before moving it at height. Place the assembly to align it with the holes in the crosspiece and the uprights.
2. Using a ladder, fix the cover with nr. 18 M8x20 screws and nr. 18 M8 washers. For this operation use a hexagon key nr. 5.
3. Secure the centre of the assembly with an M5x10 screw, using a hexagonal key nr. 3



## 8

## Tie rod assembly



## Components for the step



Tie rod A  
pz 2



Tie rod B  
pz 2



Turnbuckle  
pz 2



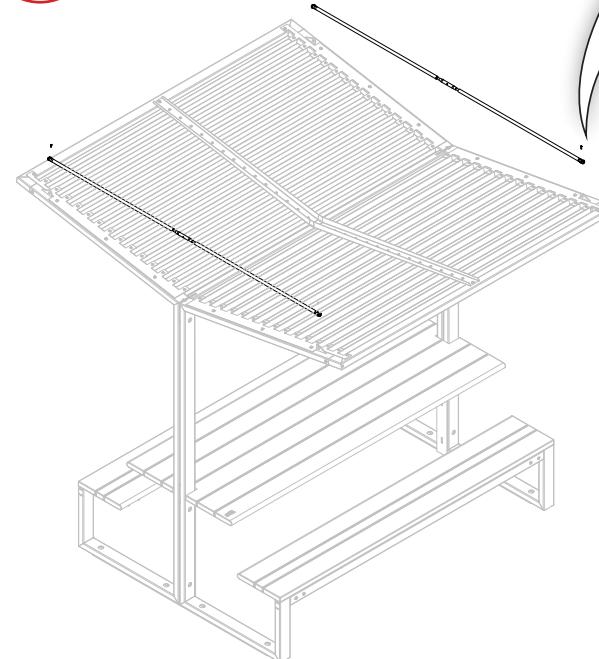
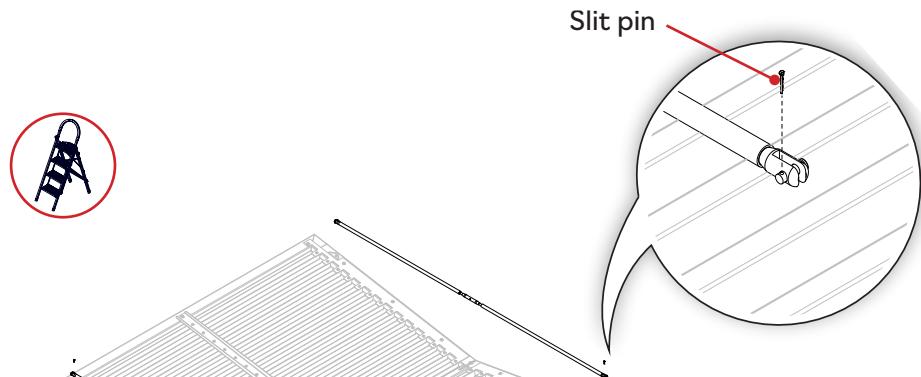
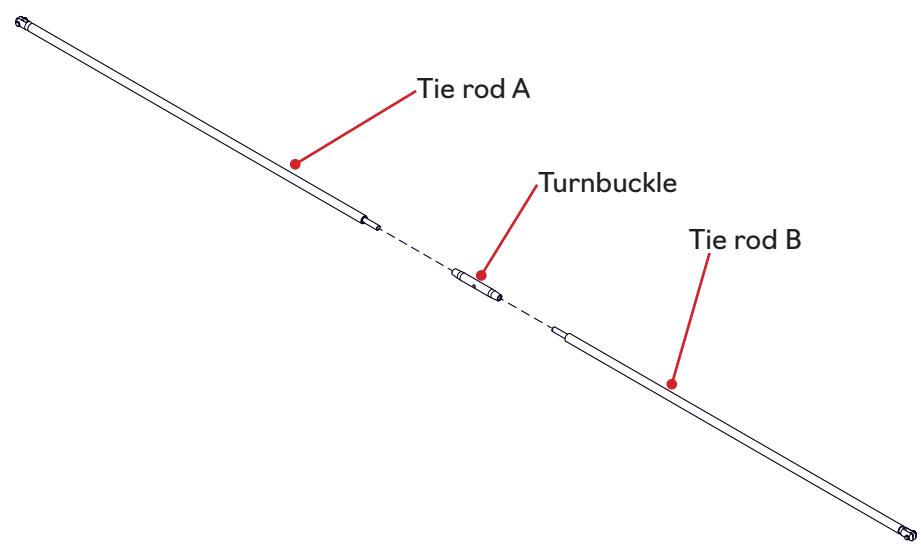
Slit pin  
pz 4

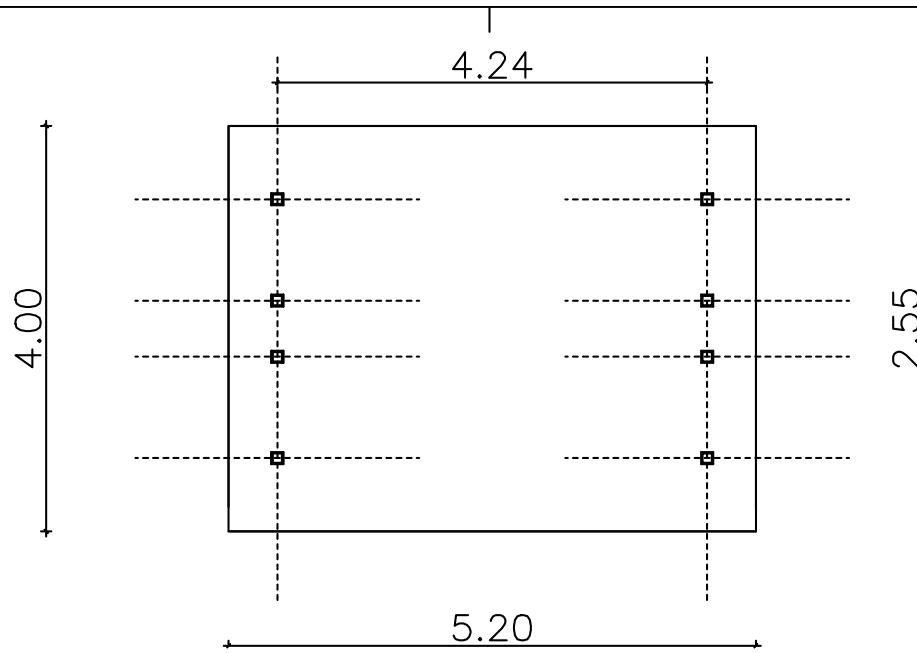
## Preparations for the step



Step ladder

1. As a last step, fix the tie rods by placing them on the roof.
2. Take the tie rod A and tie rod B components and fix them together with the turnbuckle.
3. Repeat this operation with the other tie rod.
4. With the help of a ladder, fix the ends of the assembled tie rods, as shown in the graphics on the side. To do this, apply nr. 4 split pins. Act on the turnbuckle to keep the two tie rods under tension

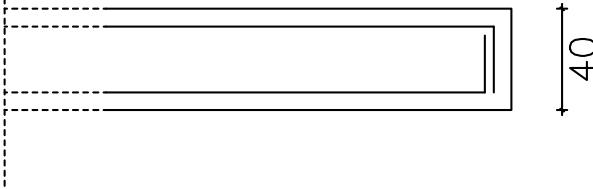




Armatura superiore e inferiore – rete elettrosaldata  $\varnothing 8/20$   
 (Upper and lower rebar – electro-welded mesh  $\varnothing 8 / 20$ )

Particolari ferri (Scala 1:20)  
 Risvolto L=13

Rebar detail (Scala 1:20)  
 Overlay L=13



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prescrizioni sui materiali secondo NTC2018	
calcestruzzo	maglione per sottofondazioni C 12 / 15 con caratteristiche S4; XC2; A/C < 0,55; Dmax = 25mm
	fondazioni ed elevazioni C 25 / 30
acciaio per calcestruzzo armato	diametro minimo di piegatura 5 $\varnothing$
barre ad aderenza migliorata B450C	sovraposizione minima 50 $\varnothing$ – copriferro 30 mm
terreno	
carico limite medio per compressione verticale $\geq 1,2$ daN/cm <sup>2</sup>	
FILE	COMMITTENTE
20190717 FOND01 REV00	METALCO s.r.l. Via della Fornace n. 44 31023 – Castelminio di Resana (TV)
DATA	PROGETTO
17.07.2019	FONDAZIONE PENSILINA "CISON"
DATA ULTIMA REVISIONE	II Tecnico
17.07.2019	
REV.	
000	
TAVOLA	ELABORATO
FOND.001	SCHEMA FONDAZIONI E TAVOLA FERRI DI ARMATURA
SCALA	1:50



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