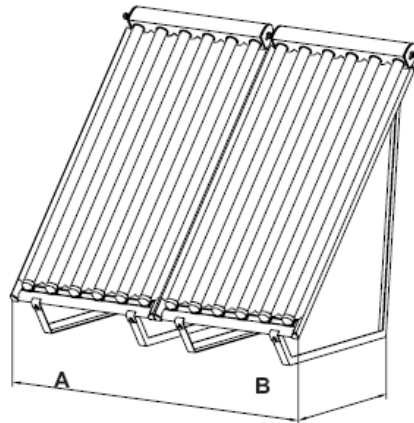


5. Installation on flat roofs

5.1 Space requirement

Space requirement for a single-row collector field.



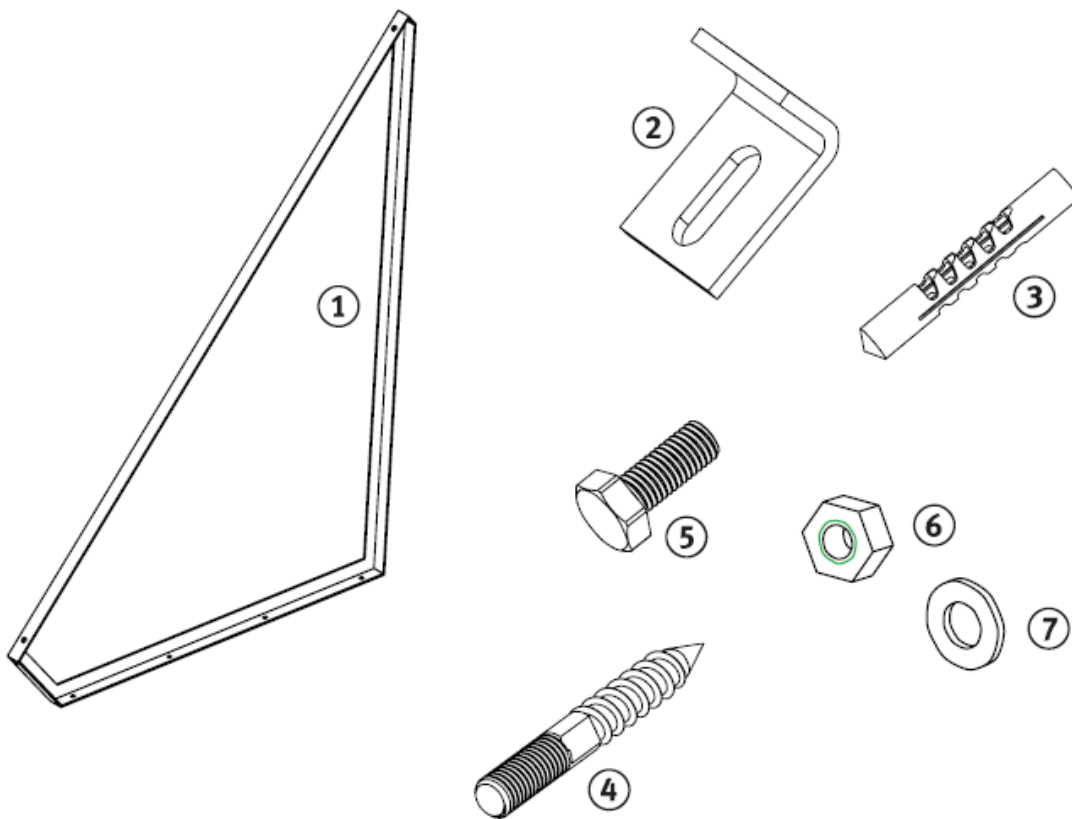
Number of collectors	CPC 6 OEM			CPC 12 OEM			CPC 18 OEM		
	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.	Dim.
	A	B	B	A	B	B	A	B	B
		30°	45°		30°	45°		30°	45°
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
1	0,70	1,47	1,23	1,40	1,47	1,23	2,10	1,47	1,23
2	1,40	1,47	1,23	2,80	1,47	1,23	4,20	1,47	1,23
3	2,15	1,47	1,23	4,20	1,47	1,23	6,30	1,47	1,23
4	2,85	1,47	1,23	5,60	1,47	1,23	8,35	1,47	1,23
5	3,55	1,47	1,23	7,00	1,47	1,23	10,45	1,47	1,23
6	4,25	1,47	1,23	8,40	1,47	1,23	12,55	1,47	1,23

Free distance between the collectors, for double or multi row collector fields.



Type of use	Main utilization period	Free distance 30° (m)	Free distance 45° (m)
Service water	May until August	2,6	Not appropriate
Service water	April until September	Not appropriate	3,1
Service water and heating	March until October	Not appropriate	4,0
Service water and heating	All year round	Not appropriate	5,0

5.2 Component overview and scope of supply



Parts list for CPC:		6	12	18	OEM
Pos.1	Angle frame	2	2	2	
Pos.2	Upper/lower retaining claw	4	4	4	
Pos.3	Peg 12 mm	4	4	4	
Pos.4	Stick screw	4	4	4	
Pos.5	Hexagonal screw	4	4	4	
Pos.6	Hexagon nut	8	8	8	
Pos.7	Washer	12	12	12	

5.3 Required accessories per angle frame

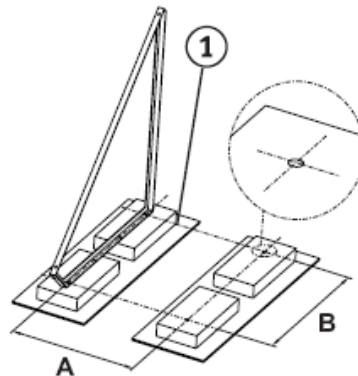
2 pce. concrete plates
1 pce. building protection mat

5.4 Tools list

Stone drill 12 mm, wrench set SW 13, 14, 17, 27, 30.



5.5 Weight and placement of the concrete plates



Note:

*Flat roofs with flint pouring:
Free laying space for
concrete plates from gravel.
Flat roofs with plastic sheet
roofing: Lay concrete plates
on protection cover (building
protection mats pos. 1).*

1. Align concrete plates in accordance with the accompanying illustration.

CPC 6 OEM			CPC 12 OEM			CPC 18 OEM		
Dim. A	Dim. B	Dim. B	Dim. A	Dim. B	Dim. B	Dim. A	Dim. B	Dim. B
	30°	45°		30°	45°		30°	45°
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
550	1225	915	1100	1225	915	1400	1225	915

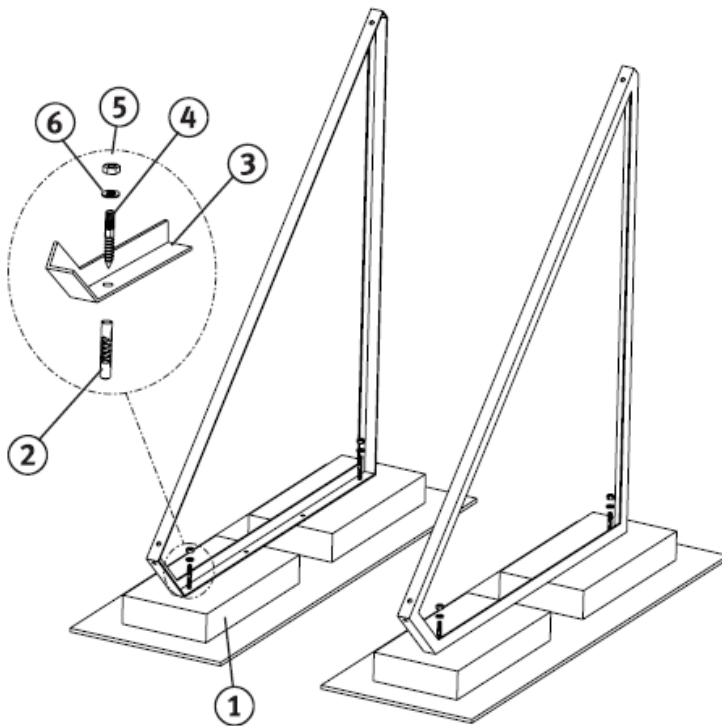
Building height up to 8 m

Collector type	Number of angle frames	Angle of the frame	Necessary weight of the front concrete plate	Necessary weight of the rear concrete plate
CPC 6 OEM	2	30°	75 kg	75 kg
CPC 12 OEM	2	30°	75 kg	75 kg
CPC 18 OEM	2	30°	75 kg	75 kg
CPC 6 OEM	2	45°	75 kg	75 kg
CPC 12 OEM	2	45°	75 kg	75 kg
CPC 18 OEM	2	45°	75 kg	75 kg

Building height up to 20 m

Collector type	Number of angle frames	Angle of the frame	Necessary weight of the front concrete plate	Necessary weight of the rear concrete plate
CPC 6 OEM	2	30°	112 kg	112 kg
CPC 12 OEM	2	30°	112 kg	112 kg
CPC 18 OEM	2	30°	112 kg	112 kg
CPC 6 OEM	2	45°	112 kg	112 kg
CPC 12 OEM	2	45°	112 kg	112 kg
CPC 18 OEM	2	45°	112 kg	112 kg
CPC 6 OEM	2	60°	112 kg	112 kg

5.6 Installation of the angle frames and the retaining claws



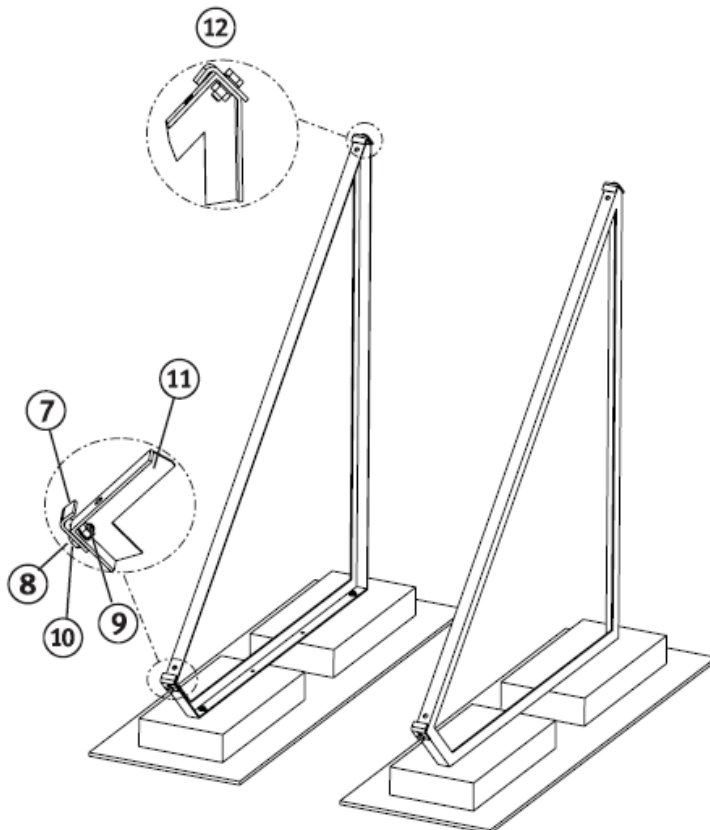
1. Drill holes 10 mm into the concrete plates (pos. 1), set pegs 10 mm (pos. 2) and screw the angle frame (pos. 3) with the enclosed stick screws (pos. 4), nuts (pos. 5), and shims (pos. 6) onto the concrete plates.

2. The alignment of the angle frames is to be specified with the help of a cord.

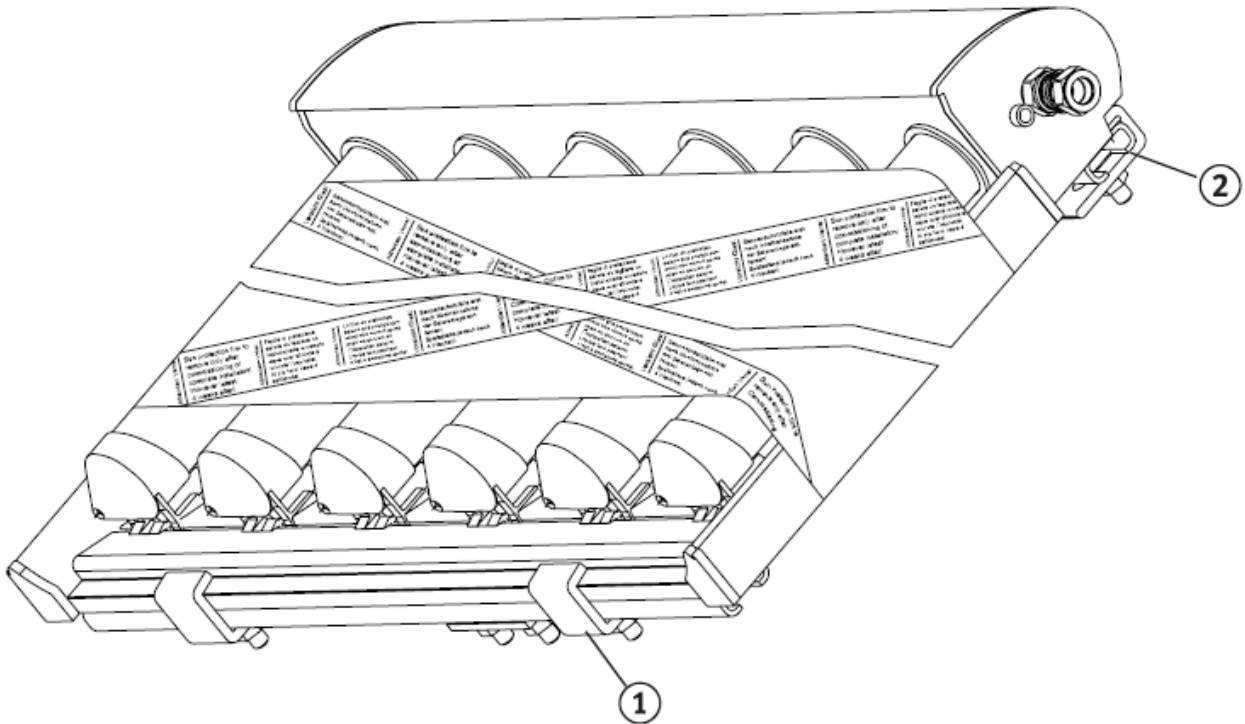
3. Fasten the lower retaining claws (pos. 7) with the enclosed screws (pos. 8), nuts/mothers (pos. 9), and shims (pos. 10) to the angle frames (pos. 11).

4. The upper claws (pos. 12) are only fastened after assembly of the collector to the angle frame.

5. Check for tightness.



5.7 Installation of the collector



Note:

The plastic film for sun protection is only removed after start-up of the solar system.

1. Set the collector on the angle frames, and let it slide into the lower claws (pos. 1).

Note:

Thereby the lower claw must embrace the end section of the collector.

2. Center-align the collector on the angle frames in such a way that the projection is the same on both sides.
3. Install the upper claws (pos. 2) at the angle frame.
4. Check for tightness.