




ABRIS CRYSTAL
INSTALLATION GUIDE

Double car shelter

20 × 44 ft

11 steps

3 people

Frame • tarp • doors • anchoring



INTERACTIVE GUIDE

Scan to follow each step on your phone.

abriscrystal.com/en/guide/double-20x44

Read the whole guide before you start. Keep it for reassembly.

953, rue Michelin, Laval (Québec) H7L 5B6 • 450-914-1444 • abriscrystal.com

Before you start

3

PEOPLE RECOMMENDED

Plan for 3 people: the shelter is heavy to lift.



FLAT GROUND

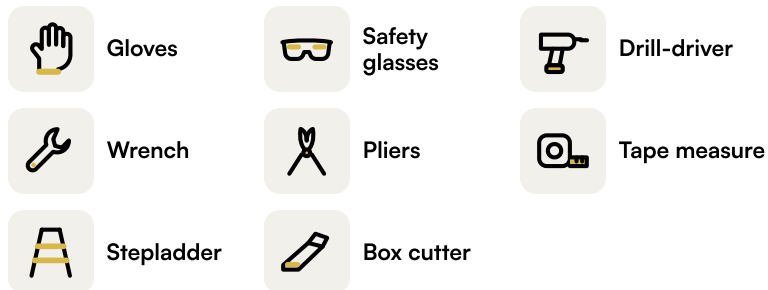
Assemble the shelter on flat, clear ground, close to where it will stand.

11

STEPS

Follow them in order. Each step lists its parts.

TOOLS



HOW TO READ THIS GUIDE

SR ×3 = the part code and the quantity, as in the list on page 3.

A gold circle shows exactly where to look.

☐ Check off each step when it's done.

The photos show a 20 × 24: same steps.

Golden rule: wing nuts **W1** facing in, tightened with the drill-driver as you go. Check them all in step 9.

IMPORTANT • SAFETY

- This shelter must be securely anchored. It is a temporary structure, not recommended as a permanent structure.
- Guy wires or permanent anchors: **strongly recommended**.
- Read and follow the warnings printed on your tarp.
- Read the whole guide before assembly.

The 11 steps

FRAME

- 01 Prepare the parts
- 02 Assemble the 2 end arches
- 03 Assemble the 10 middle arches
- 04 Assemble the roof (on the ground)

TARP

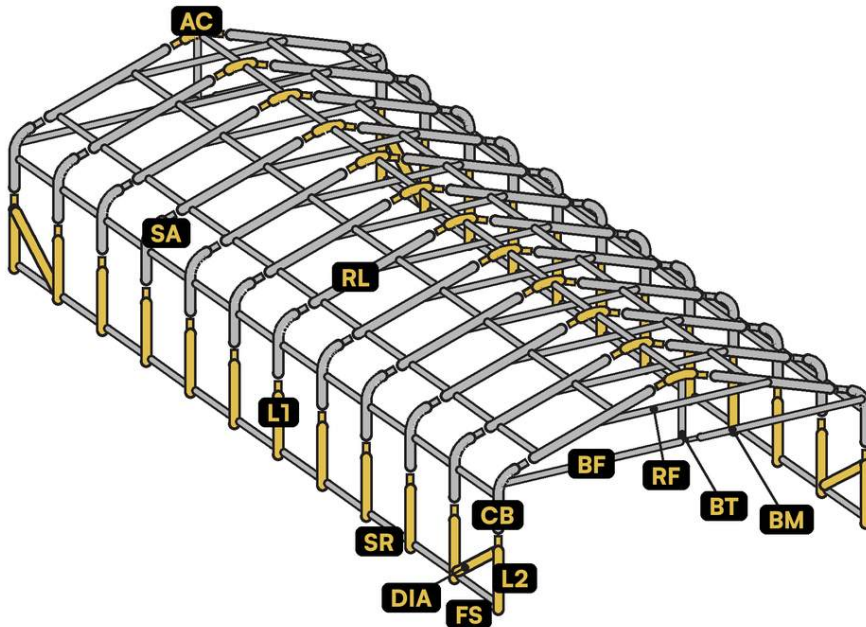
- 05 Put on the tarp
- 06 Legs and diagonal braces — side 1
- 07 Legs and diagonal braces — side 2
- 08 Tighten and tie the tarp

FINISHING

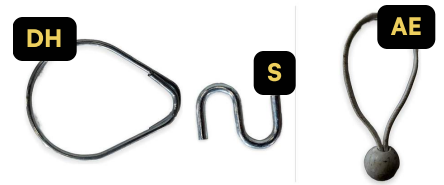
- 09 Square it and check
- 10 Install the doors
- 11 Anchor the shelter

Parts list • 20 × 44 ft

Check off each part before you start. Missing a part? Call us at 450-914-1444.



Hardware: bolts and wing nuts **W1**



Doors: ring **DH**, hook **S**, elastic tie **AE** (photo: single shelter)

FRONT bottom right. Every arch: centre **AC**, 2 extensions **RL**, stiffener **RF**, 2 corners. End arches: also the door bar **BF** + **BM** and the T-bar **BT**. 9 lines of spacers. At the 4 corners: **L2** + **DIA**. Legs: narrow end up.

ARCHES

☐	AC	Arch centre	12
☐	RL	Arch extension	24
☐	RF	Arch stiffener	12
☐	CB	End corner (2 holes)	4
☐	SA	Arch corner (1 hole)	20

END ARCHES

☐	BF	Female door bar	2
☐	BM	Male door bar	2
☐	BT	T-bar	2

LEGS AND SPACERS

☐	L2	2-hole leg	4
☐	L1	Leg	20
☐	DIA	Diagonal brace	4
☐	SR	Male spacer	90
☐	FS	Female spacer	9

TARP AND DOORS

☐	T	Tarp (doors sewn on)	1
☐	CO	Rope	1
☐	DH	Door ring	24
☐	S	S-hook	24
☐	AE	Elastic tie	24

HARDWARE

☐	B5	Stiffener bolt 5/16 in	24
☐	W5	Wing nut 5/16 in	24
☐	B1	Door bar bolt 2 1/2 in	6
☐	B3	Diagonal bolt 3 in	4
☐	B2	Long bolt	108
☐	W1	Wing nut 1/4 in	118

ANCHORING

☐	U	Anchor	
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01

Prepare the parts

All the parts on the ground, sorted, ready to assemble.



Wing nuts **W1** in the middle

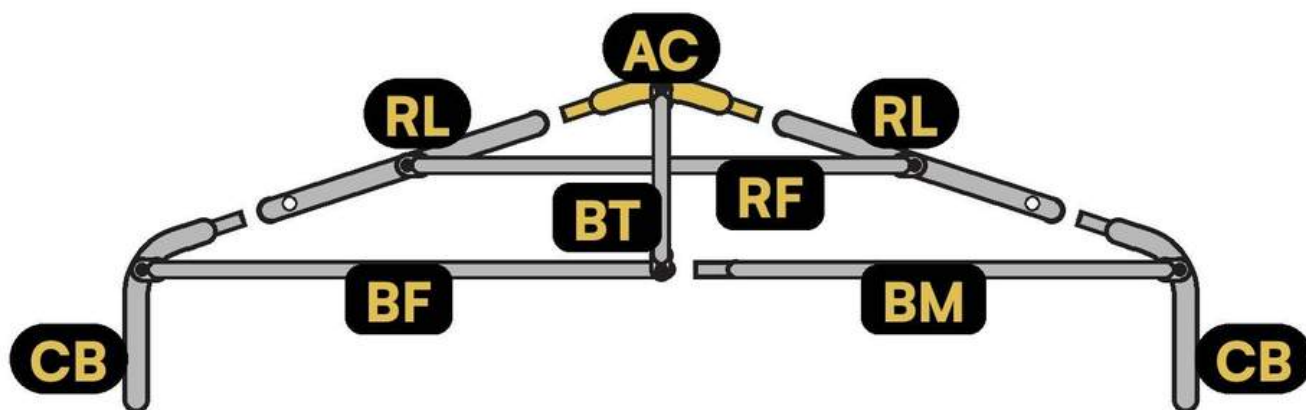
- 1 Open the box carefully: don't cut the tarp. Leave it folded until step 5.
- 2 Check off each part in the list on page 3. Lay matching parts out in rows; don't mix up the legs and the extensions **RL**.
- 3 Set aside the parts for the 2 end arches: 4 corners with 2 holes **CB**, door bars **BF** **BM**, T-bars **BT**.
- 4 Sort the hardware by size: stiffener bolts **B5** and wing nuts **W5**, bolts **B1**, **B3** and **B2**, wing nuts **W1**.

KEY POINT A narrow end always goes into a wide end.

02

Assemble the 2 end arches

The front and back arches, complete, on the ground.



End arch (parts spread out)



Door bar joint

PARTS FOR THIS STEP

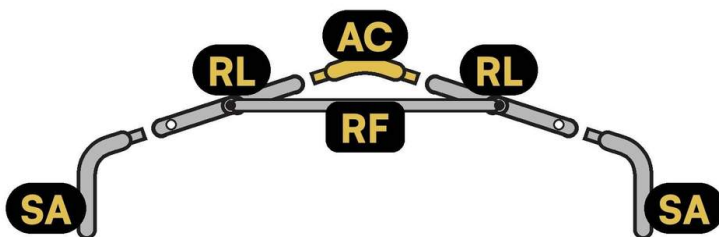
AC	x2	Arch centre
RL	x4	Arch extension
RF	x2	Arch stiffener
CB	x4	End corner (2 holes)
BF	x2	Female door bar
BM	x2	Male door bar
BT	x2	T-bar
B5	x4	Stiffener bolt $\frac{5}{16}$ in
W5	x4	Wing nut $\frac{5}{16}$ in
B1	x6	Door bar bolt $2\frac{1}{2}$ in
W1	x6	Wing nut $\frac{1}{4}$ in

- Both ends of the centre **AC** go into extensions **RL**, at their end with no hole nearby. The short end of corner **CB** goes into the other end.
- Bolt the stiffener **RF** across, under the centre, to the 2 extensions: **B5** + **W5**.
- Slide the narrow end of the male bar **BM** into the female **BF**. At the joint, bolt the bottom of the T-bar **BT**: **B1** + **W1**.
- Door bar ends: to a corner **CB**, **B1** + **W1**. Top of **BT**: bent end pointing up, not bolted. Build the 2nd arch the same way.

03

Assemble the 10 middle arches

10 middle arches on the ground: like step 2, without door bar or T-bar.



PARTS FOR 1 MIDDLE ARCH

AC	Arch centre	x1
RL	Arch extension	x2
RF	Arch stiffener	x1
SA	Arch corner (1 hole)	x2
B5	Stiffener bolt $\frac{5}{16}$ in	x2
W5	Wing nut $\frac{5}{16}$ in	x2

x10 Repeat for the 10 arches

Middle arch (parts spread out)

- As in step 2: both ends of the centre **AC** into extensions **RL** (end with no hole nearby), the short end of corner **SA** into the other end.
- Bolt the stiffener **RF** to the 2 extensions: **B5** + **W5**, as in step 2.
- Tighten the wing nuts with the drill-driver. Repeat for the 10 middle arches.

04

Assemble the roof (on the ground)

The 12 arches standing on the ground, joined by 7 lines of spacers. The legs come in steps 6 and 7.



PARTS FOR THIS STEP

SR	Male spacer	x70
FS	Female spacer	x7
B2	Long bolt	x84
W1	Wing nut ¼ in	x84

End-arch ridge: arch, bent end of **BT**, spacer, wing nut

- 1 Build from the back to the front (front: the side where cars drive in). Stand the back arch up on its corners, no legs. One person holds it.
- 2 Lift the next arch. On each of the 7 lines (the ridge and 3 lines on each side), join it with 1 spacer, on the shelter's inner side.
- 3 Each line, from back to front: 10 male spacers **SR**, narrow end toward the front, then 1 female **FS** in the last section, at the front.
- 4 Each joint: long bolt **B2** + wing nut **W1** facing in. At the ridge of the end arches: bent end of **BT** on the bolt, then the spacer.



WARNING

Hold the arches until all the spacers are bolted and tightened with the drill: until then, nothing keeps them standing.

05

Put on the tarp

The tarp on the roof, well centred, tied at the front and back.



PARTS FOR THIS STEP

T	Tarp (doors sewn on)	x1
CO	Rope	x1

Inside, at the front

- 1 Unfold the tarp beside the shelter. Find the front: the logo goes at the front. The doors are sewn to the tarp.
- 2 With 3 people, pull the tarp over the arches, gently: never jerk it, it can tear.
- 3 Centre the tarp on the roof. Inside, close the tarp's velcro straps around the T-bars **BT**.
- 4 Cut the rope **CO** in 2, one per end arch. Its middle at the top; each end goes down one side: grommet, around the arch, next grommet.

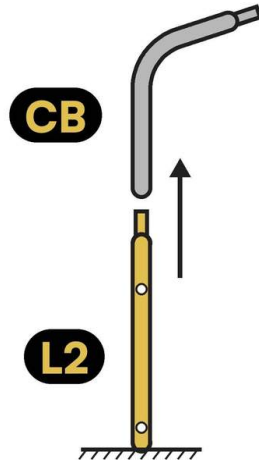
GOOD TO KNOW

Tarp on before the legs: you work under cover if it rains or snows.

06

Legs and diagonal braces — side 1

One side of the shelter on its legs, with its 2 diagonal braces: one at the front, one at the back.



PARTS FOR THIS STEP

- L2** x2 2-hole leg
- L1** x10 Leg
- DIA** x2 Diagonal brace
- SR** x10 Male spacer
- FS** x1 Female spacer
- B2** x12 Long bolt
- B3** x2 Diagonal bolt 3 in
- W1** x14 Wing nut ¼ in

Leg: wide end down

- 1 With 3 people, lift one side. The other stays on the ground.
- 2 Legs: narrow end up, into the corner. First the legs with holes **L2**, under the front and back arches, then the **L1** in the middle.
- 3 From the front, join the feet: 1 female **FS**, then 10 male spacers **SR**. Each leg: bolt **B2** + wing nut **W1**; 2nd leg from each end: bolt only.
- 4 Diagonal braces **DIA**, front and back: bottom onto the 2nd leg's bolt **B2**, then its wing nut **W1**. Top: top hole of **L2**, **B3** + **W1**.

KEY POINT Spacers, diagonal braces and wing nuts: on the inner side of the shelter. Otherwise they damage the tarp.

07 Legs and diagonal braces — side 2

The whole frame on its legs. 4 diagonal braces in all: 2 at the front, 2 at the back.



Seen from inside

PARTS FOR THIS STEP

- L2** x2 2-hole leg
- L1** x10 Leg
- DIA** x2 Diagonal brace
- SR** x10 Male spacer
- FS** x1 Female spacer
- B2** x12 Long bolt
- B3** x2 Diagonal bolt 3 in
- W1** x14 Wing nut ¼ in

- 1 With 3 people, from the inside, lift the other side: the tarp comes with it.
- 2 Insert the legs as in step 6: narrow end up, **L2** at both ends, **L1** in the middle.
- 3 Install the foot spacers (10 **SR** + 1 **FS**), then the 2 diagonal braces **DIA** on this side, as in step 6.

08 Tighten and tie the tarp

A tight tarp that doesn't move.



PARTS

No new parts: the rest of the rope **CO** from step 5.

The knot

- 1 At the front and back, run the rope down along the arch to the foot of the legs.
- 2 At the bottom, on both sides: thread the rope through each grommet of the tarp and around the foot spacer, zigzag.
- 3 Pull the rope grommet by grommet to tighten the tarp, then tie the end at the foot of a leg.

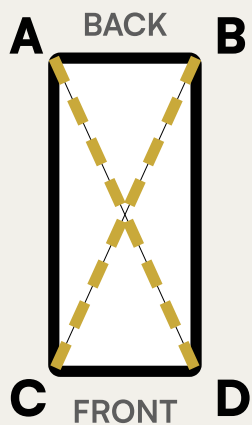
09

Square it and check

The shelter square, all wing nuts tight.



Square: the arches line up from end to end



Seen from above

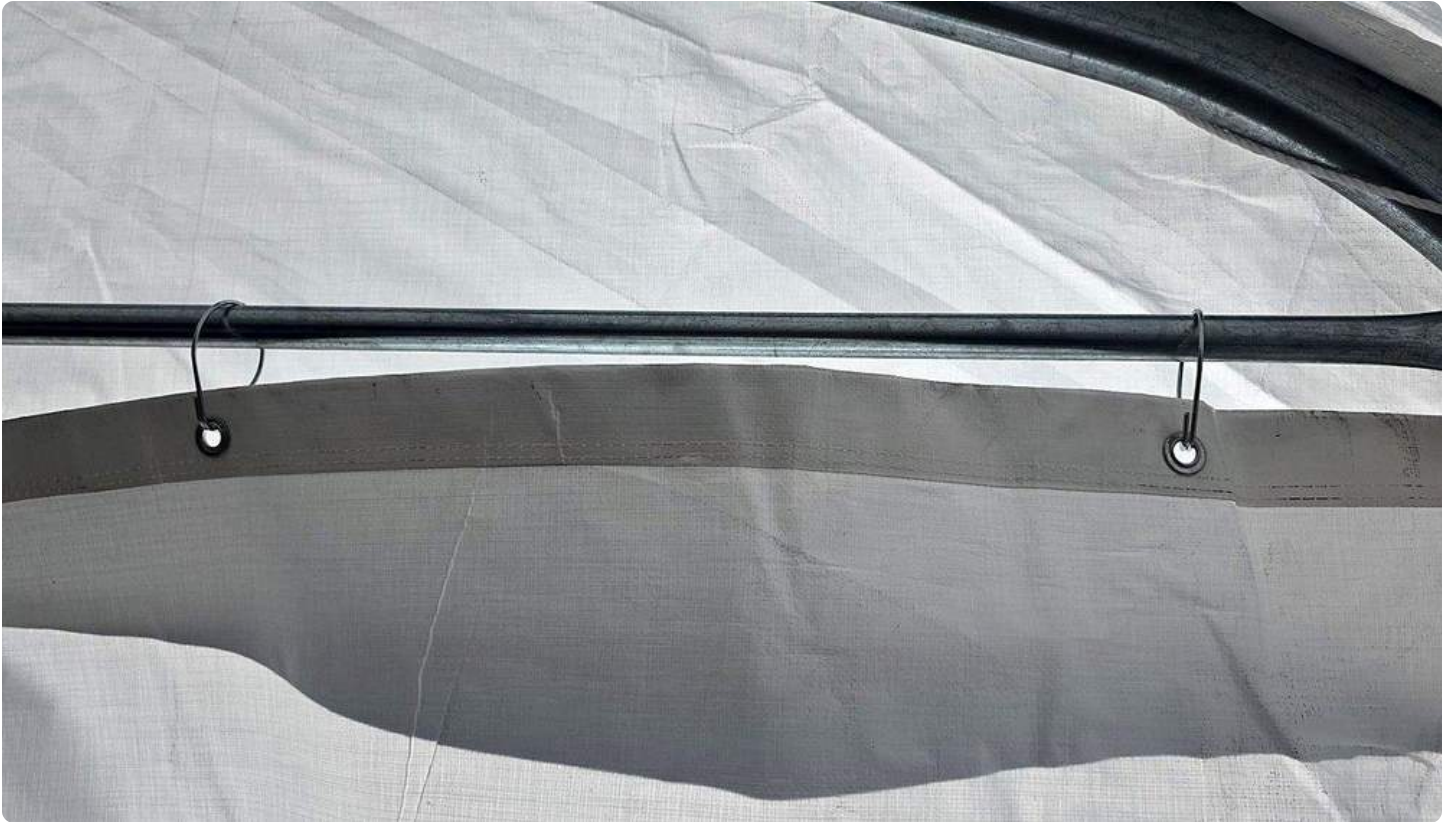
PARTS

No new parts. Tools: tape measure, wrench or drill-driver.

- 1 Measure the 2 diagonals in an X (A to D, then B to C). Equal: the shelter is square. If not, gently push one corner and measure again.
- 2 Check every wing nut **W1** and **W5**: tight, facing in, not touching the tarp. Re-tighten it if needed.

10 Install the doors

The front and back doors hung, ties and hooks in place.



PARTS

Rings **DH**, S-hooks **S** and elastic ties **AE**.



Ring **DH** • hook **S** • elastic tie **AE** (photo: single shelter)

- 1 Using the stepladder, hang the top of each door on the door bar: one ring **DH** through each grommet, around the bar.
- 2 Thread an elastic tie **AE** through each grommet along the edge of the door: the ball stays outside.
- 3 Hook an S-hook **S** onto the loop of the tie and close that side with pliers.

11

Anchor the shelter

A securely anchored shelter, ready for winter.



On pavers

PARTS

The anchors **U** from the box.

- 1 Place each anchor **U** over the foot spacer, then fasten it to the ground.
- 2 Soil or grass: call us at 450-914-1444.
- 3 Pavers or concrete: fasten **U** to a permanent anchor in the ground (sold separately).



WARNING

An unanchored shelter can blow away or collapse. Anchor it before you use it. Guy wires strongly recommended (sold separately).

ALL DONE

Your shelter is ready.

A few simple habits to make it last.



Interactive guide



Every step of this guide,
on your phone.

[abriscrystal.com/en/guide/
double-20x44](http://abriscrystal.com/en/guide/double-20x44)

Tips to make your shelter last

- 1 **Clear the snow often.** Don't let snow or ice build up on the roof or the sides.
- 2 **From the outside, gently.** Push the snow off with a broom or a snow pusher. Never use a pointed or sharp tool on the tarp.
- 3 **Both sides, in turn.** Clear one side, then the other, alternating. Never just one side.
- 4 **A tight tarp lasts longer.** Re-tighten the rope and the wing nuts **W1** after a few days, then after every big windstorm.
- 5 **Nothing rubs on the tarp.** Keep the wing nuts facing the inside of the shelter: rubbing wears out the tarp.
- 6 **In the spring.** Take it down in the reverse order of assembly. Store the tarp clean and fully dry. Don't leave it up in summer: the sun wears it out.

Is your shelter up?



Leave us a Google review.
It takes a minute and it
helps us a lot.