ABRIS CRYSTAL

INSTALLATION GUIDE

Single-slope double car shelter

16 × 20 ft

11 steps | 2+ people | Frame • tarp • doors • anchoring

INTERACTIVE GUIDE

Scan to follow each step on your phone.

abriscrystal.com/en/guide/monopente-double-16x20

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

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Before you start

2+
PEOPLE MINIMUM
You need at least 2 people to lift and position the shelter.

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

- Gloves
- Safety glasses
- Drill-driver
- Wrench
- Pliers
- Tape measure
- Stepladder
- Box cutter
- Hammer

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 an 18 × 16: 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 6 arches
03 Assemble the roof (on the ground)
04 Low side: legs and diagonal braces

TARP

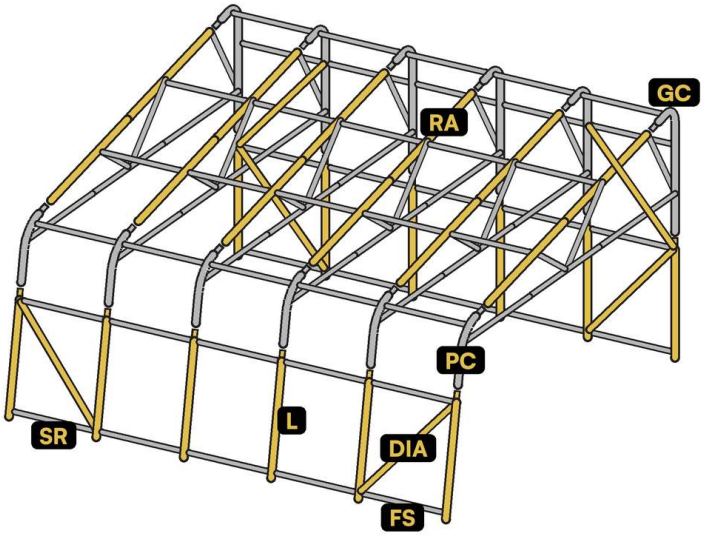
05 Put on the tarp
06 Tie the tarp, rope at the ends
07 High side: legs and diagonal braces
08 Tighten and tie the tarp

FINISHING

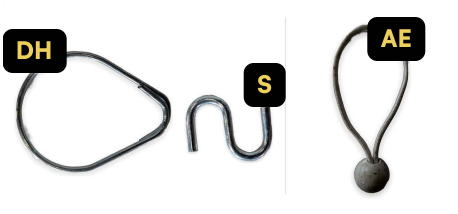
09 Position, square, check
10 Install the doors
11 Anchor the shelter

Parts list • 16 × 20 ft

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



Hardware: bolts and wing nuts W1



Doors: DH, S, AE (photo: single shelter)

FRONT on the right. In the drawing: low side nearest you, high side at the back. All arches the same: big corner GC, 2 extensions RA linked by a joint JT, small corner PC, door bar in 3 pieces, 3 braces RG RM RP. 9 lines of spacers: 5 with the roof (4 on the slope, 1 on the big corners), then 2 on each side. Diagonal braces DIA at each end: 1 on the low side, 2 on the high side.

ARCHES

☐	GC	Big corner	6
☐	RA	Arch extension	12
☐	JT	Extension joint	6
☐	PC	Small corner	6
☐	BF	Female door bar	
☐	BM	Male door bar	
☐	RG	Large brace	6
☐	RM	Medium brace	6
☐	RP	Small brace	6

LEGS AND SPACERS

☐	L	Leg	12
☐	DIA	Diagonal brace	6
☐	SR	Male spacer	36
☐	FS	Female spacer	9

TARP AND DOORS

☐	T	Tarp	1
☐	CO	Rope	1
☐	PO	Door panel	4

ANCHORING

☐	U	Anchor
☐	CU	Anchor nail

DOORS: HARDWARE

☐	DH	Door ring	20
☐	S	S-hook	20
☐	AE	Elastic tie	20

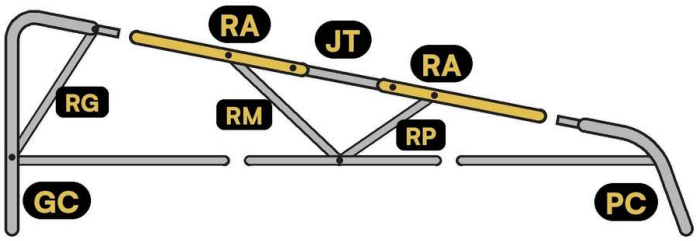
HARDWARE

☐	B4	Bolt 4 in	54
☐	B2	Bolt 2 ½ in	
☐	B1	Bolt 1 ¾ in	
☐	W1	Wing nut ¼ in	

01 Prepare the parts

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

DONE



Parts spread out: the joint JT goes into both extensions RA

1. Open the boxes carefully: don't cut the tarp. Leave it folded until step 5.
2. Take out the parts and check them off in the list on page 3. Sort the bolts and the wing nuts W1.
3. Lay out the parts of each arch together: big corner GC, 2 extensions RA, joint JT, small corner PC, door bar (3 pieces), 3 braces.
4. Don't mix up the extensions RA (they go in the roof) and the legs L (they go at the bottom).

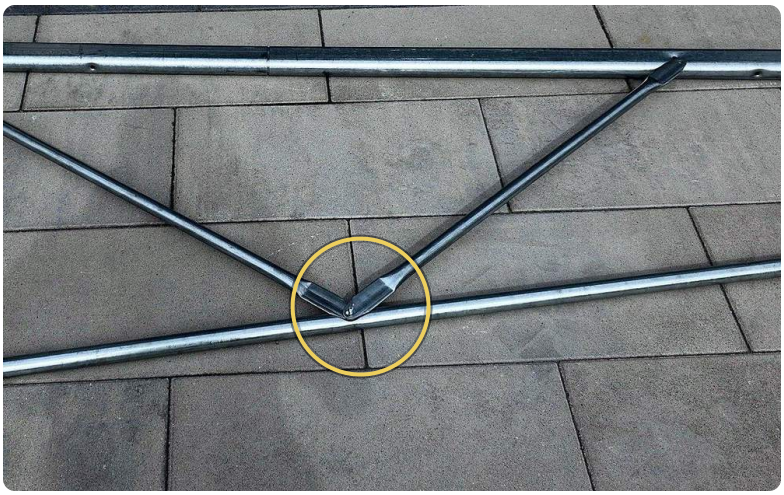
KEY POINT A narrow end always goes into a wide end.

02 Assemble the 6 arches

6 complete arches, on the ground. They are all the same.

DONE

Big corner on the left, small corner on the right



The V meets on the door bar

PARTS FOR 1 ARCH

GC	Big corner	×1
RA	Arch extension	×2
JT	Extension joint	×1
PC	Small corner	×1
RG	Large brace	×1
RM	Medium brace	×1
RP	Small brace	×1

Also: the door bar (3 pieces), 2 ½ in bolts B2 and wing nuts W1.

×6 Repeat for the 6 arches

1. Roof: the joint JT links the 2 extensions RA, bolted on each side (bolt + W1). Corners GC and PC: their narrow end goes into the extension.
2. Door bar (3 pieces) across: each narrow end into a wide end, holes lined up. Bolt its 2 outer ends to the corners: bolt + wing nut W1.
3. Braces: the large one RG near the big corner. The medium RM and the small RP in a V in the middle, RP on the small-corner side.
4. Braces bolted: B2 + W1. Tighten with the drill-driver as you go. Repeat for the 6 arches.

03 Assemble the roof (on the ground)

The 6 arches standing on the ground, joined by 5 lines of spacers. The legs come in steps 4 and 7.

DONE

Spacer bolted to the arch

PARTS FOR THIS STEP

SR	Male spacer	×20
FS	Female spacer	×5

Also: 4 in bolts B4 and wing nuts W1.

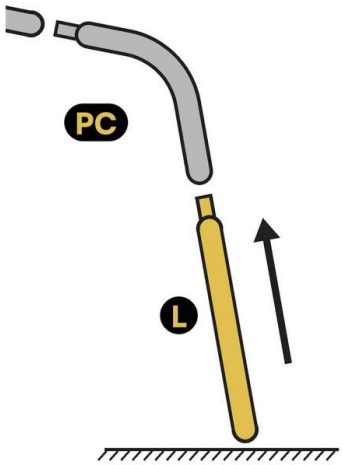
1. Stand the back arch up on its corners, without the legs. One person holds it.
2. Lift the next arch. Middle top line first, then 3 more on the roof and 1 on the big corners. Each line: 4 SR + 1 FS.
3. Each joint: 4 in bolt B4 + wing nut W1, facing in. Male spacers narrow end toward the front: the last section takes the female spacers FS.

WARNING
Hold the arches until all the spacers are bolted: until then, nothing keeps them standing.

04 Low side: legs and diagonal braces

The low side on its legs, with one diagonal brace at the front and one at the back.

DONE



Leg: wide end down

PARTS FOR THIS STEP

L	Leg	×6
DIA	Diagonal brace	×2
SR	Male spacer	×8
FS	Female spacer	×2

Also: 4 in bolts B4 and 1 ¾ in bolts B1, wing nuts W1.

1. With 2 or more people, lift the low side (small corners).
2. Legs L: narrow end up, into the corner. First at the front and the back, then the middle, then the others.
3. Install 2 lines: at the foot and at the top of the legs. Each line: 4 SR + 1 FS, B4 + W1 at each leg.
4. Diagonal braces DIA: one at the front, one at the back, placed as in the photo.

GOOD TO KNOW

If you have paver protectors: drive one into the bottom of each leg with the hammer.

05 Put on the tarp

The tarp on the frame, well placed.

DONE

Result: the roof covered, the sides still loose

PARTS FOR THIS STEP

T	Tarp	×1

1. Unfold the tarp beside the shelter. Find its big corners: they go on the high side. The logo goes at the front.
2. With 2 or more people, pull the tarp gently over the frame, starting from the side still on the ground: never jerk it, it can tear.
3. Line up the corners of the tarp with the corners of the shelter.

06 Tie the tarp, rope at the ends

The tarp tied to the arches and the lacing at the ends started, from inside.

DONE

Result: one tie knotted

PARTS FOR THIS STEP

CO	Rope	×1

1. From inside, tie the tarp's ties around the arches: at this height, no stepladder needed.
2. At the front and back arches, start the lacing: the rope CO through the grommet, around the arch, through the next grommet, and so on.
3. You will finish the lacing in step 8, with the stepladder.

07 High side: legs and diagonal braces

The whole frame on its legs. On the high side: 2 diagonal braces at the front, 2 at the back.

DONE

End of the high side

PARTS FOR THIS STEP

L	Leg	×6
DIA	Diagonal brace	×4
SR	Male spacer	×8
FS	Female spacer	×2

Also: 4 in bolts B4 and 1 ¾ in bolts B1, wing nuts W1.

1. From inside, lift the high side (big corners): the tarp comes with it.
2. Legs L, narrow end up: at the front corner, the back corner, the middle, then the others.
3. Install the foot line and the leg-top line (4 SR + 1 FS each), as in step 4.
4. Doubled diagonal braces at each end: one above the leg-top line, one below.

KEY POINT The 2 diagonal braces stiffen the high side.

08 Tighten and tie the tarp

A tight tarp that doesn't move.

DONE

Result: the rope zigzags at the foot

Top corner: the rope locked under the spacer

PARTS

No new parts: the rest of the rope CO.

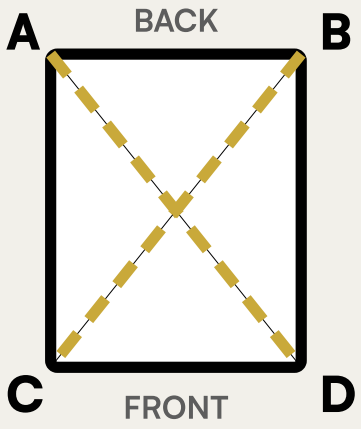
1. Using the stepladder, finish the lacing at the front and back arches.
2. In the top corners: loosen the spacer's wing nut, run the rope under the spacer, then tighten it again with the drill-driver: the rope stays locked.
3. At the bottom, on both sides: thread the rope through the grommet, around the foot spacer, through the next grommet, and so on.
4. With 2 people, start one at each end and meet in the middle. Then go back over it from the start to tighten, and tie the end securely.

09 Position, square, check

The shelter in place, square, all wing nuts tight.

DONE

Inside view: the arches lined up from end to end



Seen from above

PARTS

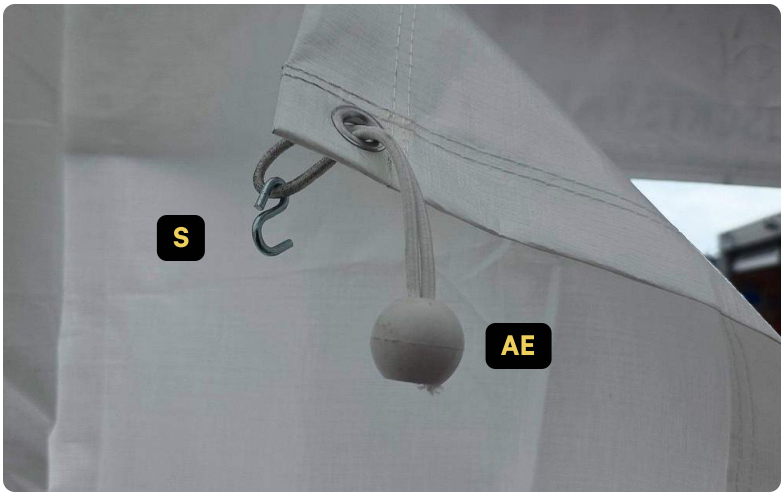
No new parts. Tools: tape measure, wrench or drill-driver.

1. With 2 or more people, move the shelter where you want it.
2. 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.
3. Check that every wing nut **W1** is tight and faces in: they must not touch the tarp.

10 Install the doors

The front and back doors hung and closed.

DONE



On the side

PARTS

Door panels PO, rings DH, S-hooks S and elastic ties AE.

1. Using the stepladder, hang the top of each panel on the door bar: one ring DH in each top grommet.
2. In the middle, the 2 panels meet.
3. On the sides: an elastic tie AE through the grommet, an S-hook S on the loop, closed with pliers.
4. Close the doors from inside the shelter.

11 Anchor the shelter

A securely anchored shelter, ready for winter.

DONE

On pavers (photo: single shelter)

PARTS

In the box: anchors **U** and anchor nails **CU**.

Anchor **U** and nail **CU** (photo: single shelter)

1. Place the anchors **U** over the foot spacer, on both sides. Fasten them depending on your ground:
2. Soil or grass: fasten each anchor with the nails **CU**.
3. Pavers or concrete: nails won't hold. Permanent anchor (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/monopente-double-16x20

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. **On the side where the snow falls.** Keep the low side clear: that's where the snow from the roof piles up.
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 the build, from step 11 back to step 1. 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.

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NEED HELP?

450-914-1444

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