ABRIS CRYSTAL

INSTALLATION GUIDE

Single-slope car shelter

12 × 16 ft

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

INTERACTIVE GUIDE

Scan to follow each step on your phone.

abriscrystal.com/en/guide/monopente-12x16

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

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
- Hammer
- Stepladder
- Box cutter

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 11 × 16: same steps.

Golden rule: wing nuts **W1** facing the inside of the shelter, tightened with the drill-driver as you go. Spacers and diagonal braces also on the inner side of the arches, so they don't damage the tarp. In step 8, check all the wing nuts.

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 5 arches
03 Assemble the roof (on the ground)
04 Low side: legs and diagonal braces

TARP

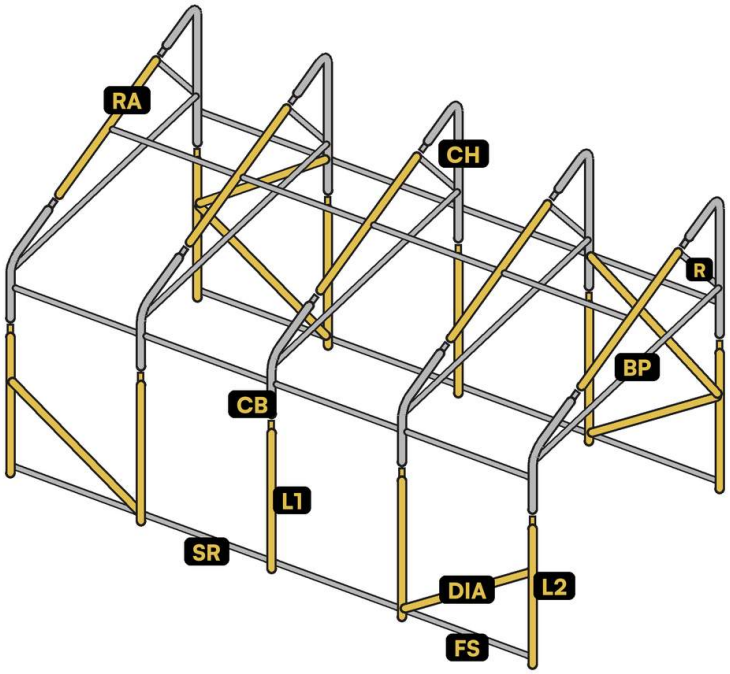
05 Put on the tarp
06 Rope at the front and back
07 High side: legs and 2 diagonal braces

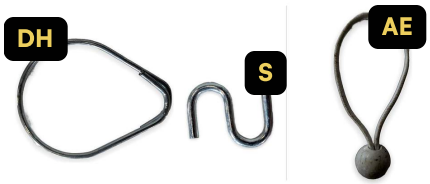
FINISHING

08 Position, square, check
09 Tighten and tie the tarp
10 Install the doors
11 Anchor the shelter

Parts list • 12 × 16 ft

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





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

FRONT on the right. In the drawing: low side nearest you, high side at the back. All arches the same: 3-piece roof (CH + extension RA + CB), door bar BP, brace R. At the 4 corners: L2. Diagonal braces DIA at each end: 1 on the low side, 2 on the high side.

ARCHES

☐	CH	High corner	5
☐	RA	Roof extension (middle)	5
☐	CB	Low corner	5
☐	BP	Door bar	5
☐	R	Arch brace	5

TARP AND DOORS

☐	T	Tarp	1
☐	CO	Rope	1
☐	PO	Door	2

LEGS AND SPACERS

☐	L2	2-hole leg	4
☐	L1	Leg	6
☐	DIA	Diagonal brace	6
☐	SR	Male spacer	15
☐	FS	Female spacer	5

DOORS: HARDWARE

☐	DH	Door ring	12
☐	S	S-hook	12
☐	AE	Elastic tie	12

HARDWARE

☐	B1	Short bolt 1 ¾ in
☐	B2	Long bolt 3 in
☐	W1	Wing nut ¼ in

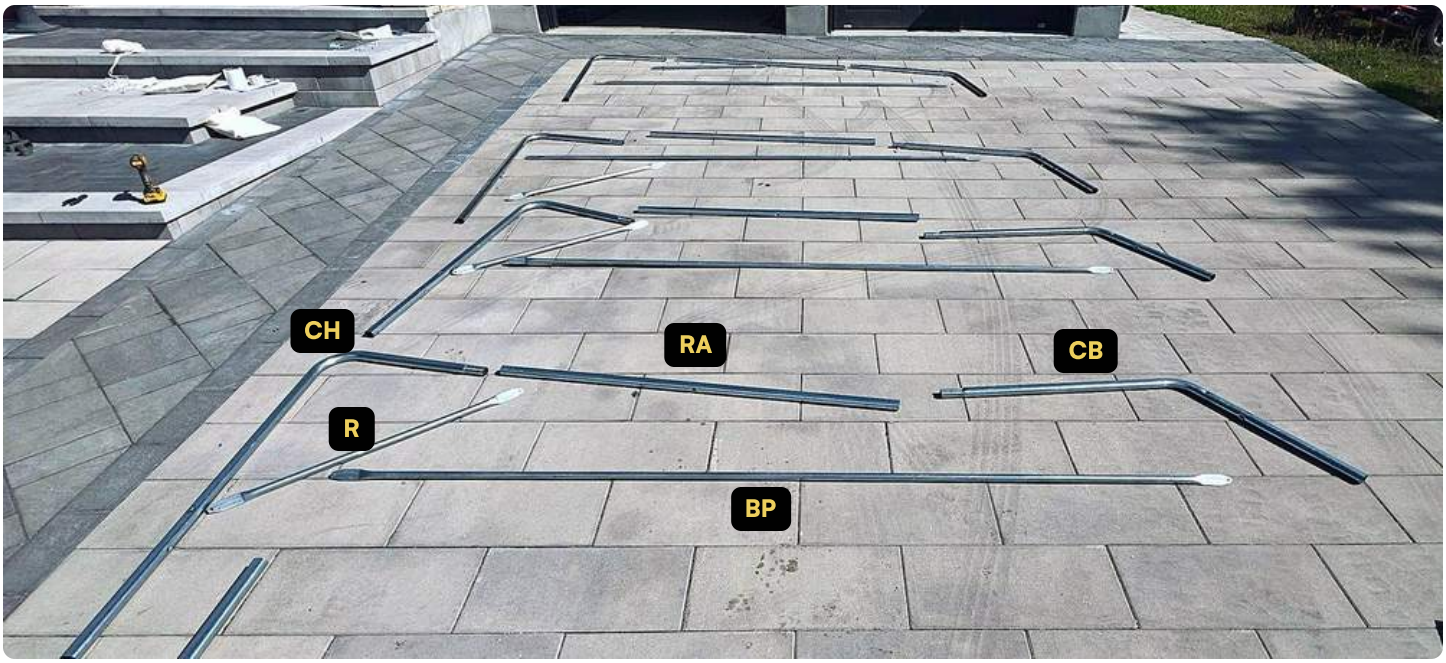
ANCHORING

☐	U	Anchor
☐	CU	Anchor nail

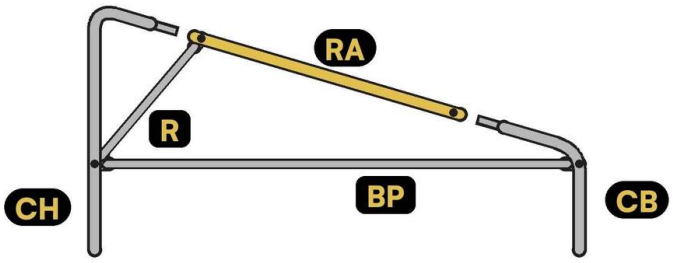
01 Prepare the parts

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

DONE



One arch on the ground: the roof is 3 pieces



Both corners go into the extension RA

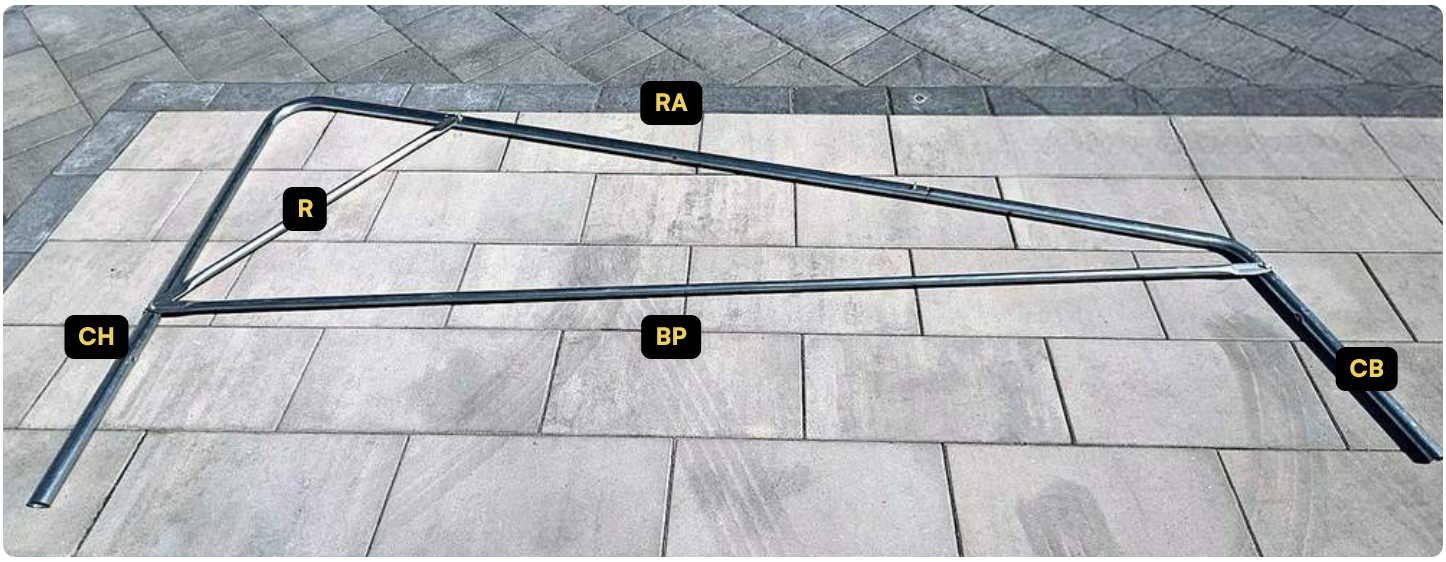
1. Open the boxes carefully: don't cut the tarp. Leave it folded until step 5.
2. Take out the parts and check them off in the list on page 3.
3. Lay out the parts of each arch together on the ground: high corner CH, extension RA, low corner CB, door bar BP and brace R.
4. Set aside the four 2-hole legs L2: they go at the 4 corners. Sort the short bolts B1, long bolts B2 and wing nuts W1.

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

02 Assemble the 5 arches

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

DONE



A complete arch

The CH—RA joint, before fitting

PARTS FOR 1 ARCH

CH	High corner	×1
RA	Roof extension (middle)	×1
CB	Low corner	×1
BP	Door bar	×1
R	Arch brace	×1
B1	Short bolt 1 ¾ in	×4
W1	Wing nut ¼ in	×4

×5 Repeat for the 5 arches

1. Roof: the narrow end of each corner (CH and CB) into a wide end of the extension RA. RA—CB joint: short bolt B1 + wing nut W1.
2. CH—RA joint: short bolt B1, then the top of the brace R on that bolt, then the wing nut W1.
3. High corner, in this order on one B1: the bottom of the brace R, the door bar BP, then W1. Low corner: BP, B1 + W1.
4. Tighten the wing nuts with the drill-driver. Repeat for the 5 arches.

03 Assemble the roof (on the ground)

The 5 arches standing on the ground, joined by 3 lines of spacers. The legs come in steps 4 and 7.

DONE

A spacer's narrow end goes into the next one's wide end

PARTS FOR THIS STEP

SR	Male spacer	×9
FS	Female spacer	×3
B2	Long bolt 3 in	×15
W1	Wing nut ¼ in	×15

1. Stand the back arch up on its corners, without the legs. One person holds it.
2. Lift the next arch and join them with the spacers: the top one first, then the sides.
3. Each joint: long bolt B2 + wing nut W1, always facing in. Keep going up to the front: the last section takes the female spacers FS.

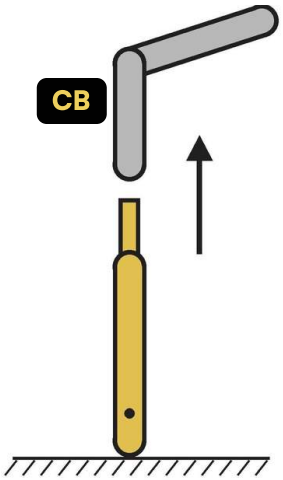
WARNING
Hold the arches until all the spacers are bolted: until then, nothing keeps them standing.

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

Low side on its legs, high side still on the ground



Leg: wide end down

PARTS FOR THIS STEP

L2	×2	2-hole leg
L1	×3	Leg
DIA	×2	Diagonal brace
SR	×3	Male spacer
FS	×1	Female spacer
B2	×5	Long bolt 3 in
B1	×2	Short bolt 1 ¾ in
W1	×7	Wing nut ¼ in

1. Start with the low side. With 2 or more people, lift it.
2. One leg under each arch, narrow end up into the corner: first L2 at the front and back, then the middle, then the other L1.
3. Diagonal brace DIA, front and back: the top in the hole of L2, B1 + W1. The bottom goes to the foot of the 2nd leg.
4. Join the feet of the legs: 3 male spacers SR + 1 female FS, B2 + W1 at each leg. At the 2nd leg, DIA goes on before the nut.

GOOD TO KNOW

If you have paver protectors: one at the bottom of each leg.

05 Put on the tarp

The tarp on the frame, well placed.

DONE

PARTS FOR THIS STEP

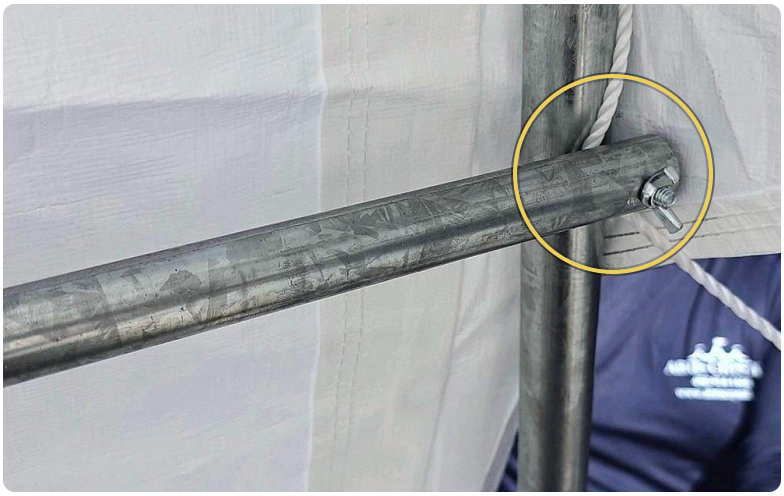
T	Tarp	×1

1. Unfold the tarp. Find its tall corners: they go on the high side.
2. Logo at the front and the back: the shelter is reversible.
3. With 2 or more people, slide the tarp gently over the frame: never jerk it, it can tear.
4. Line up the corners of the tarp with the corners of the shelter.

06 Rope at the front and back

The tarp laced to the front and back arches, from inside.

DONE



At the corner (photo: single shelter)

PARTS FOR THIS STEP

CO	Rope	×1

1. From inside. Unroll the whole rope CO and cut it in 2: one half for the front, one for the back.
2. The middle of the rope at the middle of the arch, then each end toward a corner: around the arch, through the grommet, and so on.
3. At the low-side corner, run the rope behind the spacer. Loosen the wing nut, slip the rope between the leg and the spacer, then retighten.
4. Tie the roof ties now: at this height, no stepladder needed.

07 High side: legs and 2 diagonal braces

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

DONE

Seen from inside

PARTS FOR THIS STEP

L2	×2	2-hole leg
L1	×3	Leg
DIA	×4	Diagonal brace
SR	×3	Male spacer
FS	×1	Female spacer
B2	×5	Long bolt 3 in

Also: bolts and wing nuts W1 for the diagonal braces.

1. From inside, lift the high side: the tarp comes with it.
2. Legs narrow end up: L2 at the front and back, then the middle, then the other L1.
3. Join the feet of the legs: 3 SR + 1 FS, B2 + W1 at each leg.
4. On the high side, always 2 diagonal braces DIA at each end, as in the large photo. Wing nut already on? Loosen it, add the brace, retighten.

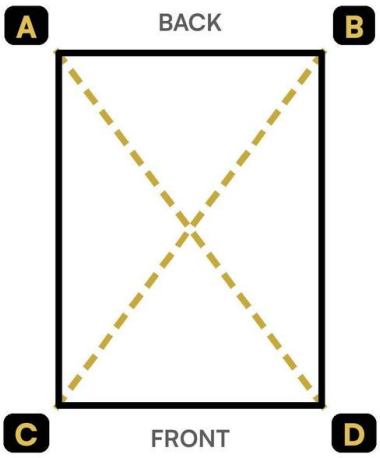
KEY POINT The 2 diagonal braces stiffen the high side.

08 Position, square, check

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

DONE

Square: the arches line 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, set the shelter where you want it. Pick the high side for your driveway and where the snow should fall.
2. Measure the 2 diagonals in an X (A to D, then B to C). Equal: the shelter is square. If not, adjust and measure again.
3. Check every wing nut **W1**: tight, facing in, not touching the tarp. A loose one? Retighten it with the drill-driver.

09 Tighten and tie the tarp

A tight tarp that doesn't move.

DONE

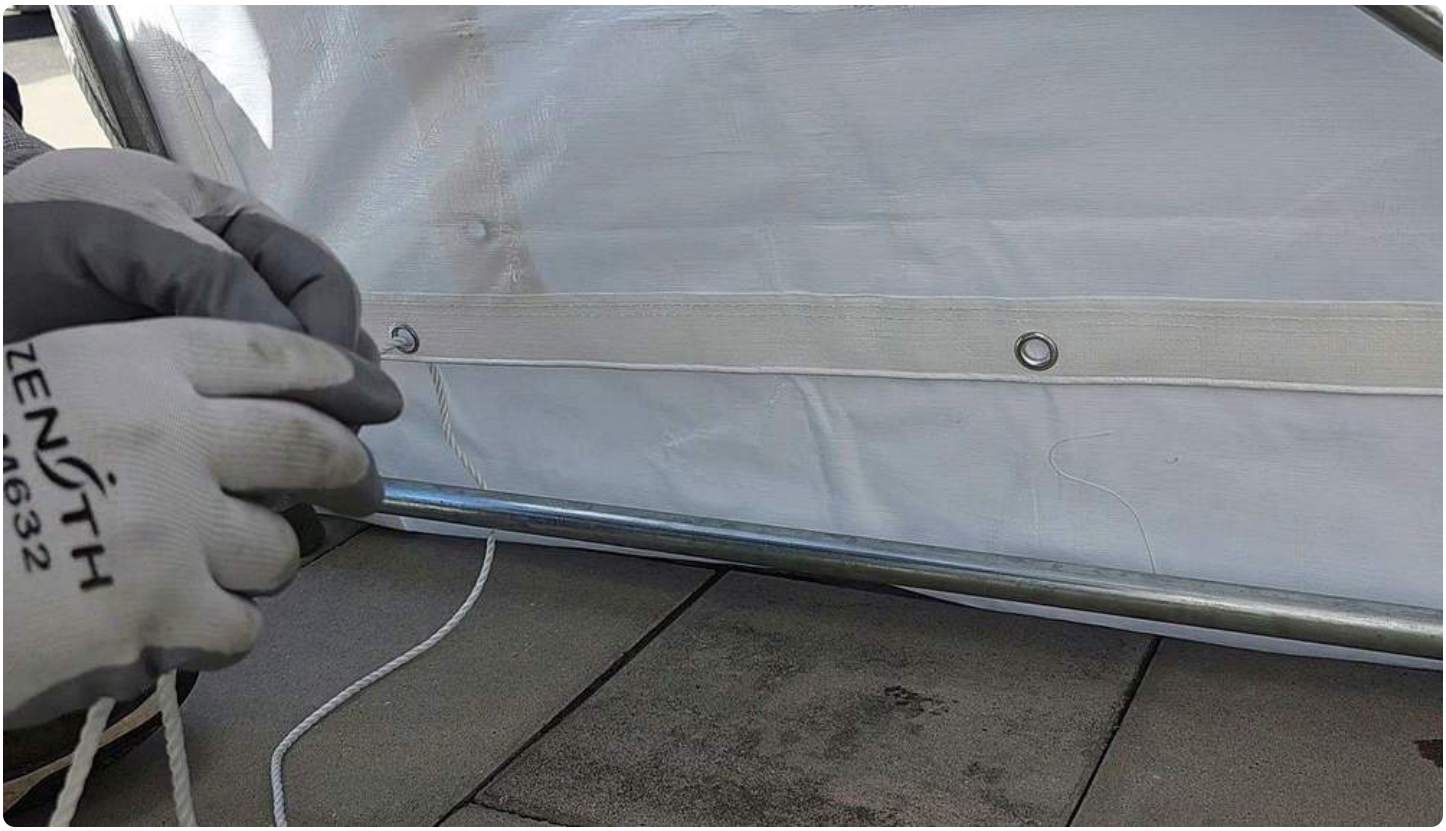


Photo: single shelter

Result: the rope zigzags, nice and tight

PARTS

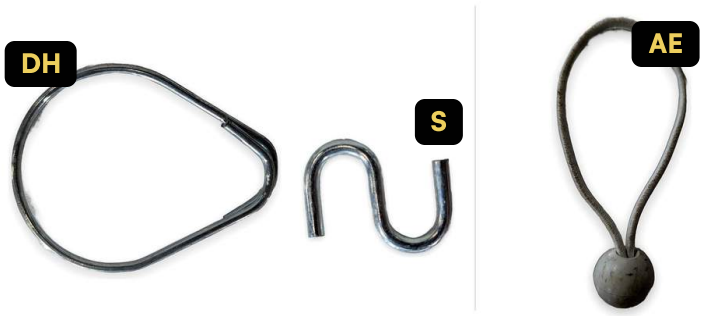
Rope **CO**.

1. At the bottom: thread the rope through each grommet of the tarp and around the foot spacer.
2. Pull the rope grommet by grommet to tighten the tarp, then tie the end securely. Cut off the extra.

10 Install the doors

The front and back doors hung and closed.

DONE



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

PARTS FOR THIS STEP

PO Door ×2

Also: rings DH, S-hooks S and elastic ties AE.

1. Find the corners of each door: the sloped corner goes to the low corner, the 90° corner to the high corner.
2. Hook the rings DH into the grommets at the top of the door, then onto the door bar BP.
3. An elastic tie AE through each grommet along the edge. An S-hook S in its loop, closed with pliers.
4. Hook the other side of the S-hook S to the grommet strip of the shelter.

11 Anchor the shelter

A securely anchored shelter, ready for winter.

DONE

On pavers (photo: single shelter)

PARTS

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), as in the photo.

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-12x16

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 reverse order: doors, tarp, then frame. 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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