

A Compilation of Diamond Fly Configurations

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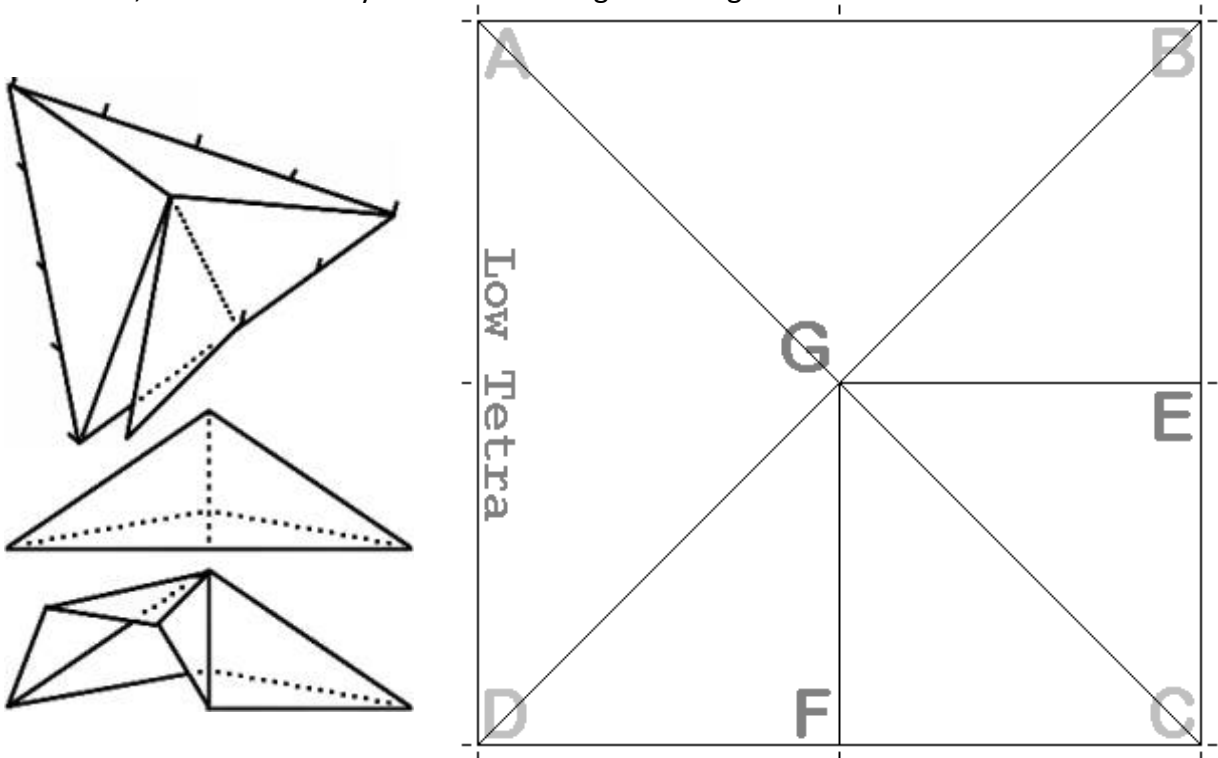
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The configurations in sections I-IX are taken from
<http://www.equipped.com/tarp-shelters.htm>

The configuration in section X is taken from
<http://nwwoodsman.com>

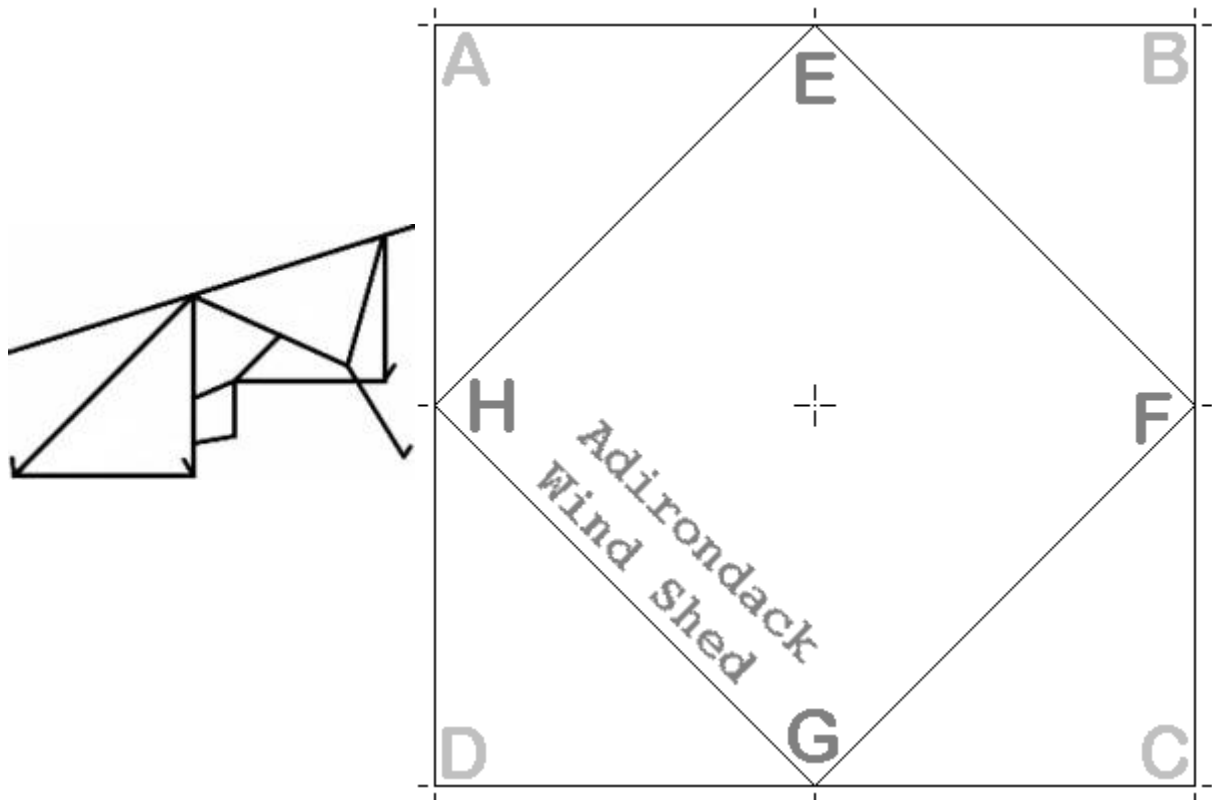
I. Low Tetra Configuration

- Fold diagonally both ways, quartering tarp into four triangles.
- Fold corner C into a square from the tarp midpoint G, to midpoints of edges BC and CD.
- Fold corner square CEFG diagonally, so point E is beside point F.
- Secure point E to point G, to make CEFG a doubled up triangular flap.
- Keep CEFG on top of the rest of the tarp during pitching.
- Point corner A into the wind on Windward side.
- Stretch corners B and D out on the Lee side as far as possible from corner A, until the 3 corners form an equilateral triangle on the ground.
- Secure corners B and D to ground on Lee side.
- Loosen flap CEFG, and support point G in air.
- Refasten flap CEFG, and lay it against side of Low Tetra on Lee side, with corner C next to either corner B or D.
- To get in and out of the Low Tetra, unfasten flap CEFG.
- Once set up and staked out, you can open an entire side up, or just half of a side as shown in the illustration.
- Use the Low Tetra as a gear cover.
- Because of its low wind profile, sloping sides, and stake down points all around its perimeter, the Low Tetra is one of the most secure Tarp-shelters in windy conditions.
- A 10' x 10' tarp gives a Low Tetra 4.082' high, floor space of 43.301 square feet in a triangular shadow with 10' base and 8.660' long.
- The triangular walls have bases of 10', and sloping wall lengths of 7.071'. The angle of wall slope at midpoint of any side is 54.735° (?).
- The midpoint (VSS or pole position) in the finished shelter is 5.77' from any of the three corners, or 2.88' from any of the three flat ground edges.



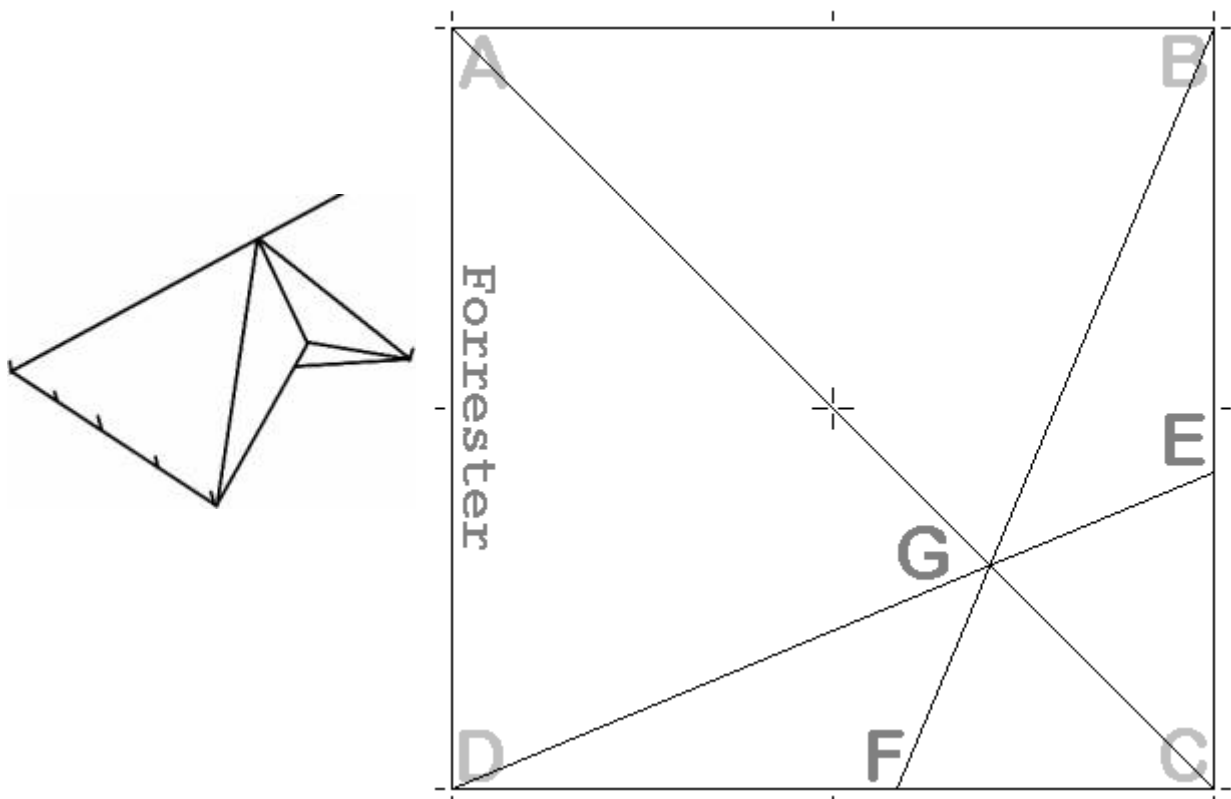
II. Adirondack Wind Shed

- Fold tarp from mid-edge point on any side to the mid-edge points on adjacent sides.
- Rotate plan until inner diamond EFGH looks like a square in the outer diamond of ABCD.
- Secure section AEH to ground, with fold line EH on Windward side, and corner A on Lee side.
- Fold rest of tarp over groundsheet AEH to the Lee side.
- Align edges BE and DH at 90° to edge EH on the Lee side.
- Secure corners B and D on edges BE and DH to ground, forming partial end walls of BEF and DGH.
- Support points F and G in air on Lee side to turn section EFGH into the main wall.
- Support corner C in air on Lee side to create an awning from section CFG, or fold down to create a partial fourth wall.
- 10' x 10' tarp gives an Adirondack Wind Shed with 45° main wall, 5' high roofline, and shadow of 5' x 7.07'.



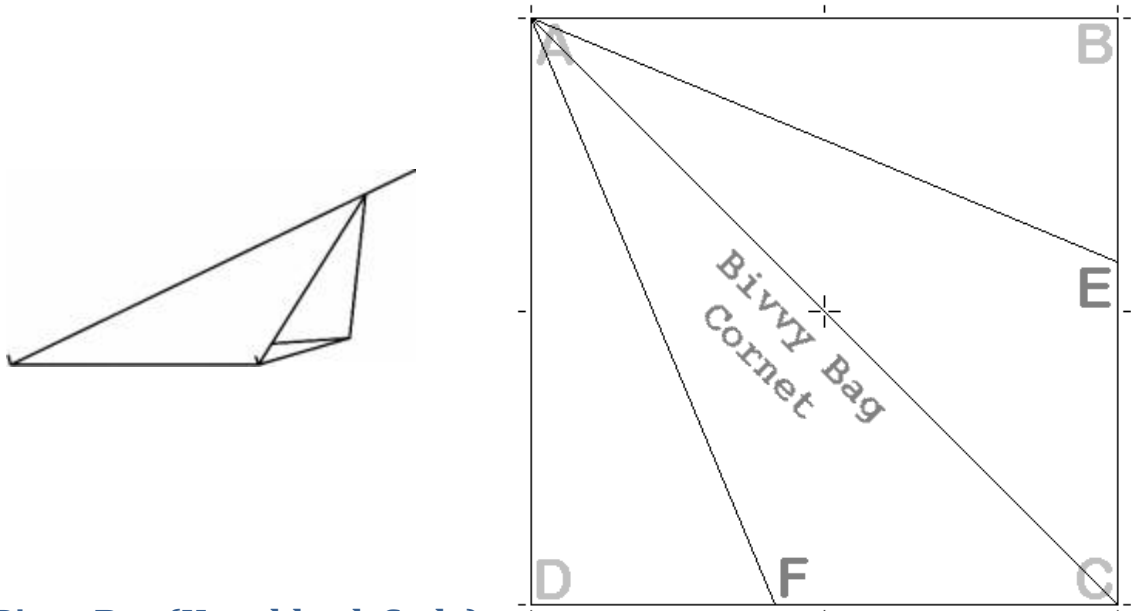
III. Forrester

- Fold tarp in half diagonally.
- Use length of side AB or AD to find 'Cross-Folds' point G on diagonal midline AC.
- Fold from corners B and D through 'Cross-Folds' point G to the tarp edge.
- Fold angles at A and C are 45° , around D and B are 67.5° and 22.5° , at G are 67.5° and 45° .
- Secure corner A to ground on Windward side.
- Use rope or ridgepole to support 'Cross-Folds' point G, and midline fold AC in air on Lee side.
- Spread triangles ABG and ADG to create walls.
- When taut, secure corners B and D to ground.
- Fold triangles CEG and CFG underneath triangles BEG and DFG to create partial walls from BEG and DFG that frame a low doorway.
- When satisfied with doorway, secure folded cloth with Tarp Clips, lashings, pegs, etc.
- Pull top of doorway where E meets F forward to make a better awning.
- Width of shelter depends on wall angles, the amount of headroom, where 'Cross-Folds' point G is, and the arrangement of the doorway.
- Good stability in windy conditions, IF set-up properly and staked out securely.
- 'Threshold' around entrance helps with weather control.
- A 10' x 10' tarp gives a Forrester 5.41' high, floor space of 45.5 square feet, in a triangular shadow 8.40' high with 10.82' base.



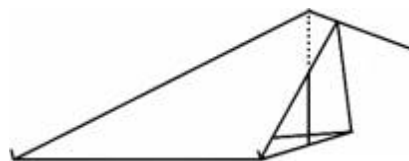
IV. Bivvy Bag (Cornet Style)

- Fold tarp in half diagonally, then swing edges AB and AD inwards in a circular arc until they touch the midline fold AC.
- Secure 'Multi-Fold' corner A to ground, on Windward side.
- Fold triangles ABE and ADF under at fold lines AE and AF to make doubled up groundsheets.
- Secure groundsheets to ground, reinforcing fold lines AE and AF with taut ropes (inside shelter).
- Support corner C in air on Lee side. Use taut rope or ridgepole to support midline AC.
- A 10 x 10 Tarp may be tight for head and foot space. A 12 x 12 Tarp should be adequate.
- Good stability in windy conditions, IF set-up properly and staked out securely.
- 'Awning' on Lee end helps with weather control. Rain trickles down rope/ridgepole, so tie some strings around it as 'drip lines'.



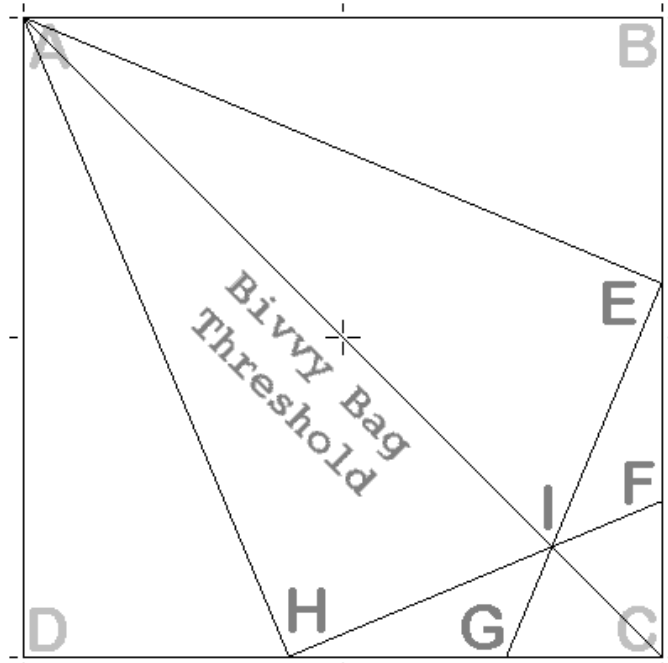
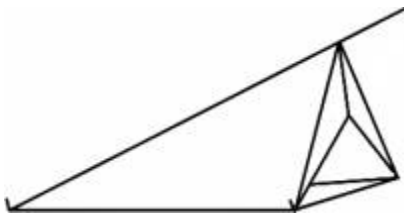
V. Bivvy Bag (Hunchback Style)

- Pitch as per 'Cornet' variant of Bivvy Bag, but use a vertical blunt pole (or two internal poles in a modified 'shears') as main VSS support.
- Place VSS pole over midpoint of where groundsheets cross.
- Depending on fabric, a slight beak will form in the awning. Use a guy-line to keep this taut and aid weather control.
- Making a slight 'tuck' in the fabric of the awning helps with the shape.



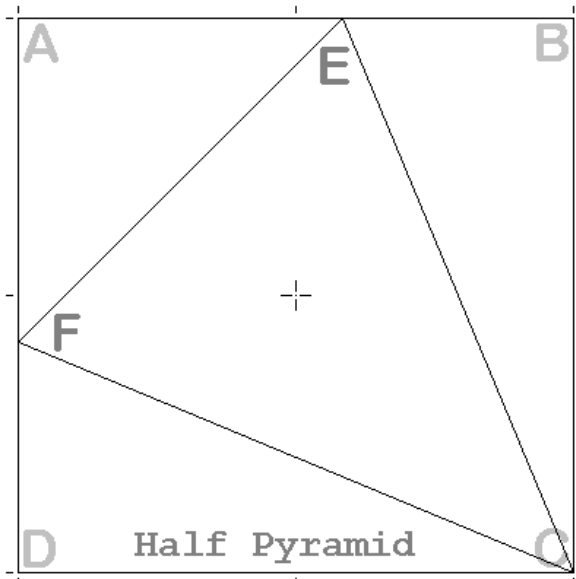
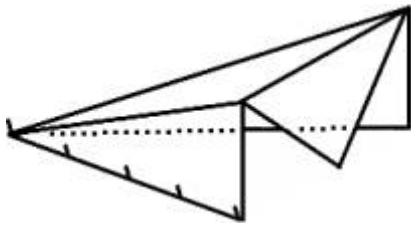
VI. Bivvy Bag (With Doorway Threshold)

- Fold tarp in half diagonally, then swing edges AB and AD inwards in a circular arc until they touch the midline fold AC.
- Points F, G, and the Cross-Folds point I are a matter of trial and error, and are variable based on the size of the finished doorway and the extended 'awning'.
- Secure corner A to ground on Windward side.
- Fold triangles ABE and ADF under at fold lines AF and AE to make doubled up groundsheets.
- Secure groundsheets to ground, reinforcing fold lines with taut ropes.
- Support corner C in air on Lee side. Use rope or ridgepole to support midline AC.
- Spread triangles AEI and AHI to create walls.
- Fold CFI and CGI underneath EFI and GHI to create partial walls from EFI and GHI that frame a low doorway.
- Sections CFI and CGI can fold back against AEI and AHI, to rest above rope running from corner A.
- Pull top of doorway where F meets G forward to make a better awning.
- The doorway threshold may be flush, or may project forward, depending on exactly where the fold Corners are.
- When satisfied with doorway, secure folded cloth with Tarp Clips, lashings, pegs, etc.
- A 10' x 10' Tarp may be tight for head and foot space. A 12' x 12' Tarp should be adequate.



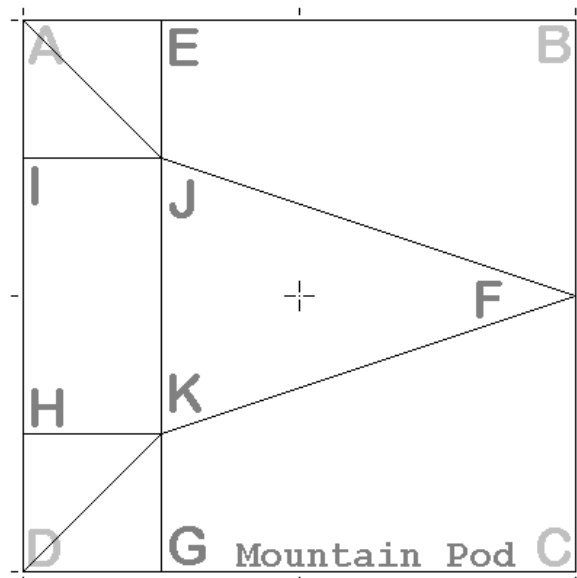
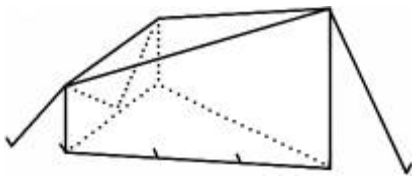
VII. Half Pyramid Wedge Cover

- Fold tarp in half diagonally, then swing edges BC and CD inwards until they touch midline fold AC. This creates fold lines CE and CF at 22.5° to BC and CD, and angles of 45.0° , and 67.5° at points E and F.
- Secure Corner C to ground on Windward side.
- Support points E and F in air on Lee side.
- Secure Corner D to ground directly below point F.
- Secure Corner B directly to ground below point E.
- Corner A on flap AEF should touch ground.
- This is just the Half Pyramid used as a Semi-Walled Wedge type of wind shed.
- A 10' x 10' tarp gives a Pyramid Wedge Cover 4.14' high, 10' long, 8.28' wide, with floor space of 41.4 square feet.



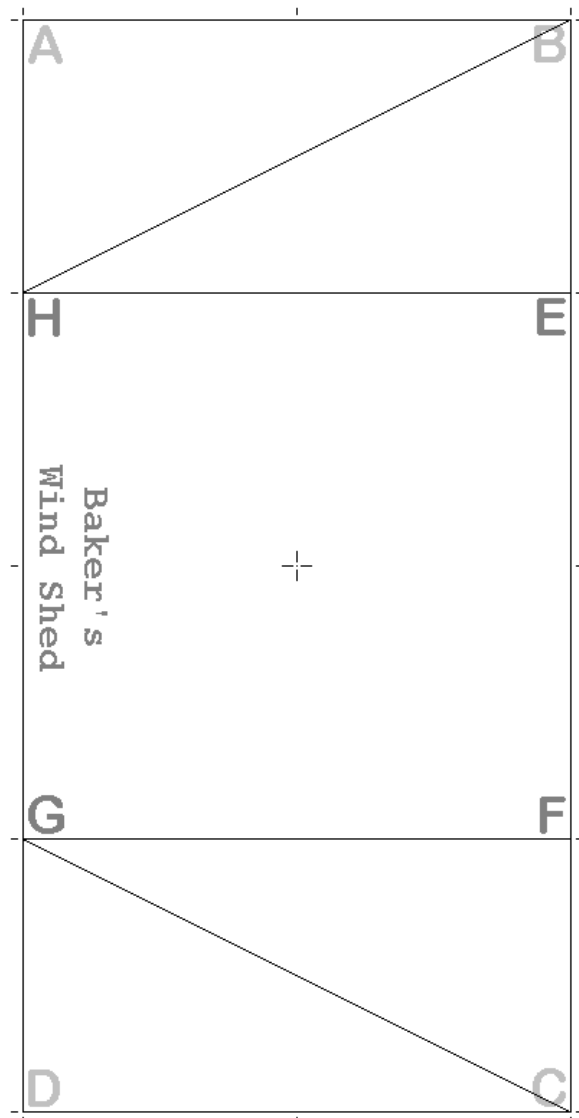
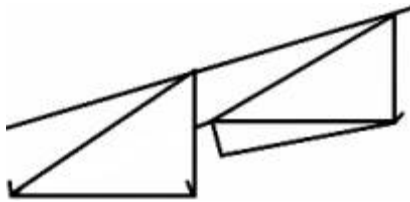
VIII. Mountain Pod

- Location of points E, G, H, I, J and K is subject to change.
- In this example, they are in tarp corners A and D, and are corners of squares 2.5' to a side.
- Secure edge HI to ground on the Windward side.
- Fold corner square AEIJ diagonally, so point E is beside point I.
- Secure point E to point I, to make AEIJ a doubled up triangular flap.
- Fold corner square DGHK diagonally, so point G is beside point H.
- Secure point G to point H, to make DGHK a doubled up triangular flap.
- Secure point E to ground beside point I.
- Secure point G to ground beside point H.
- Support point F in air on the Lee side.
- Stretch out corners B and C and secure to ground, as the apex of a triangle.
- Position point F directly above secured points of B and C.
- Raise point F until tarp is taut.
- Raise points K and J until end of shelter is taut.
- Wrap flaps AEIJ and DGHK around behind HIJK and secure to ground.
- Use as a gear cover, or as shelter. Since the edge of the tarp touches the ground all around, there are stake down points all around the Mountain Pod.
- With squares AEIJ and DGHK 2.5' a side, a 10' x 10' tarp gives a Mountain Pod approximately 2.5' to 5' high, 7.5' long, and from zero to 5' wide. Floor space is 18.75 square feet.
- Unsure about the maths, so just be careful!



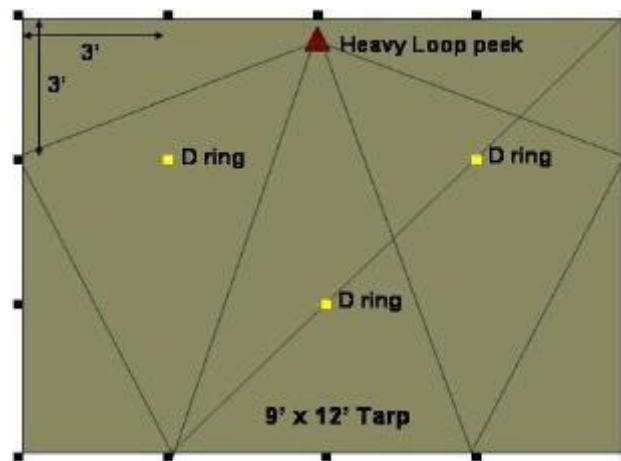
IX. Baker's Wind Shed

- Fold tarp at end quarter marks, and then fold each end-quarter diagonally.
- Secure edge GH to ground on Windward side. This becomes the base of main rectangular wall EFGH.
- Align BH and CG on the Lee side at 90° with GH.
- Secure corners B and C to ground.
- Support Top edge EF in air on Lee side, with points E and F directly above points B and C.
- Secure corners A and D of groundsheets ABH and CDG to ground. They may be either inside or outside the shelter.
- A 10' x 20' tarp gives a Baker's Wind Shed with wall slope of about 26° , height of 4.472', total floor space of 89.44 square feet in a rectangular shadow of 8.944' x 10'. Length of edges CG and BH is 11.180'.
- Notice this tarp is not even close to square. Not sure what will happen with Diamond Fly.



X. Tarp Tent Configuration

- When set up in the tarp tent configuration, with closed wings, you will have a floor space of 6' X 7 1/2' and will be 6' at the peek.
- The door wings can be positioned in numerous ways which will give you options depending on weather or personal preference.
- A fire built in front will fill the space with light, warmth, and help keep the bugs away.
- This is based on a 9'x12' tarp, but I suspect will work out similarly with a square fly.
- If these directions are explicitly followed, it will require tie points throughout the center of the tarp.
- This idea is from Eric Neilsen, Northwest Woodsman. This tarp can be purchased from him at nwwoodsman.com. Be sure to check out the videos on his site!



Original Tarp Layout



Stake out the back first



Find the second or third loop up the side and stake this out somewhat perpendicular to the back.



Fold the corner under.



Do this for both sides and it should resemble this.



Tie your poles to the peek loop and lift the tarp up. 9-1/2' poles should work. It can also be tied of to a tree or a single pole used inside.



Lift the poles and angle them back a couple of feet from the front stakes. If you have Erik's tarp, it should line up with the D-rings. If you have a diamond fly with ties, hopefully they'll line up with some of the ties. You could always tie the small rock in it to use as a pull point. However you do this, stretch it out for more interior room.

Variations of the finished product



Close it by staking the two wings together.



Tie together the center loops down the front and then pin the flaps back for a half open door.



Stake the front wider than the back and tie the wings back for a wide open front.



Wings can be pulled out in front to be used as a wind stop or for shade.



Wings can also be staked to the ground at an angle for more room.



A center pole can be used if you need to set it up in a hurry.