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This design allows trellising vine crops to the frame of any style of Quick Hoops high tunnel without creating pockets for water and snow to form like traditional purlins. The cable is suspended securely away from the plastic, allowing water and snow to easily run off. The following procedure is more easily accomplished when the tunnel is not covered but may be done after with a little more difficulty.

Materials Needed:

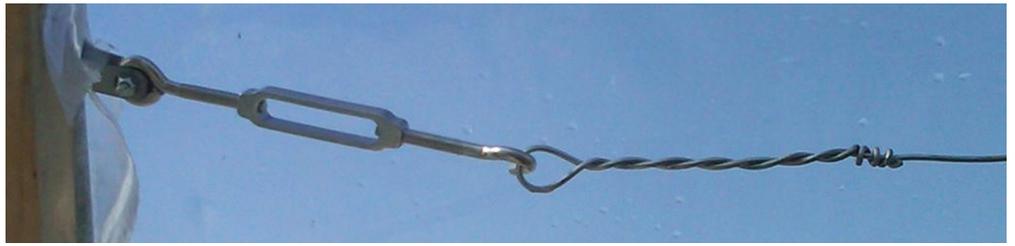
- #9 wire
- 1 hook and eye turnbuckle
- 1 brace band or tension band per bow
- Vise grips
- #10 x ¾ inch hex-head self-drilling tech screws
- (2) ¼"-20x1-inch carriage bolt and ¼" nut

Aircraft cable may also be used in lieu of the #9 wire, but you will also need 4 wire cable clamps per trellis.

INSTALLATION:

1. The best location for the trellis is above the center of the bed. A plumb bob or string with a weight may be helpful to use. Mark those spots on each of the end bows.
2. Run a string from each of those marks, pull it tight, and make a mark on each of the bows down the tunnel.
3. Slip a brace band over each bow at the marks.
4. Position the first brace band at the mark on the end wall bow. Angle inward and slightly away from the end wall and squeeze together with a pair of vise grips. Secure in place with one tech screw on one side of the brace band. Brace band thicknesses vary and you may need to predrill through them before inserting the tech screws.
5. Repeat step 4 for the opposite end of the tunnel.
6. Install the rest of the brace bands on each of the remaining bows in the same way, but with them positioned so they are pointing straight in (perpendicular to the length of the tunnel), and with a tech screw on each side so that when the vise grips are removed, the brace bands remain closed.
7. Starting at the second bow, thread the end of the #9 Wire into the eye of the brace band on that bow, and then feed the wire through all the rest of the brace band eyes except for the one on the opposite end bow.





8. **Make a haywire twist in the end of the #9 Wire:** Make a tight loop about 1½-feet long. Grasp one end with a pair of pliers and the other with an adjustable wrench and twist several times until the loop gets very small. Then, bend the tag end of the wire out so it is perpendicular and wrap it around the main wire several times.

9. Secure the haywire twist to the eye of the brace band on one end wall bow with a ¼"-20 x 1" carriage bolt and ¼" nut.

10. On the far end of the tunnel, open up a turnbuckle almost fully and secure it to the end wall brace band with a ¼"-20 x 1" carriage bolt and ¼" nut.

11. Run the wire through the hook on the turnbuckle, pull it as tight as you can in line with the length of the tunnel, then loop it around the turnbuckle's hook.

12. Remove it from the turnbuckle and make a haywire twist in the end as you did in step 8.

13. Slip the loop in the end of the haywire twist over the hook on the turnbuckle and tighten until the wire is taught. Be careful not to over tighten and put too much stress on the end wall. **We recommend adding angle braces on the end wall hoops to help carry the load, especially for heavier vine crops such as tomatoes.**

14. You can trellis vine crops to this purlin by tying directly to it, or using slip-over devices such as Roller Hooks or Tomahooks.

15. Repeat steps 2–13 for any other rows you would like to trellis.



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