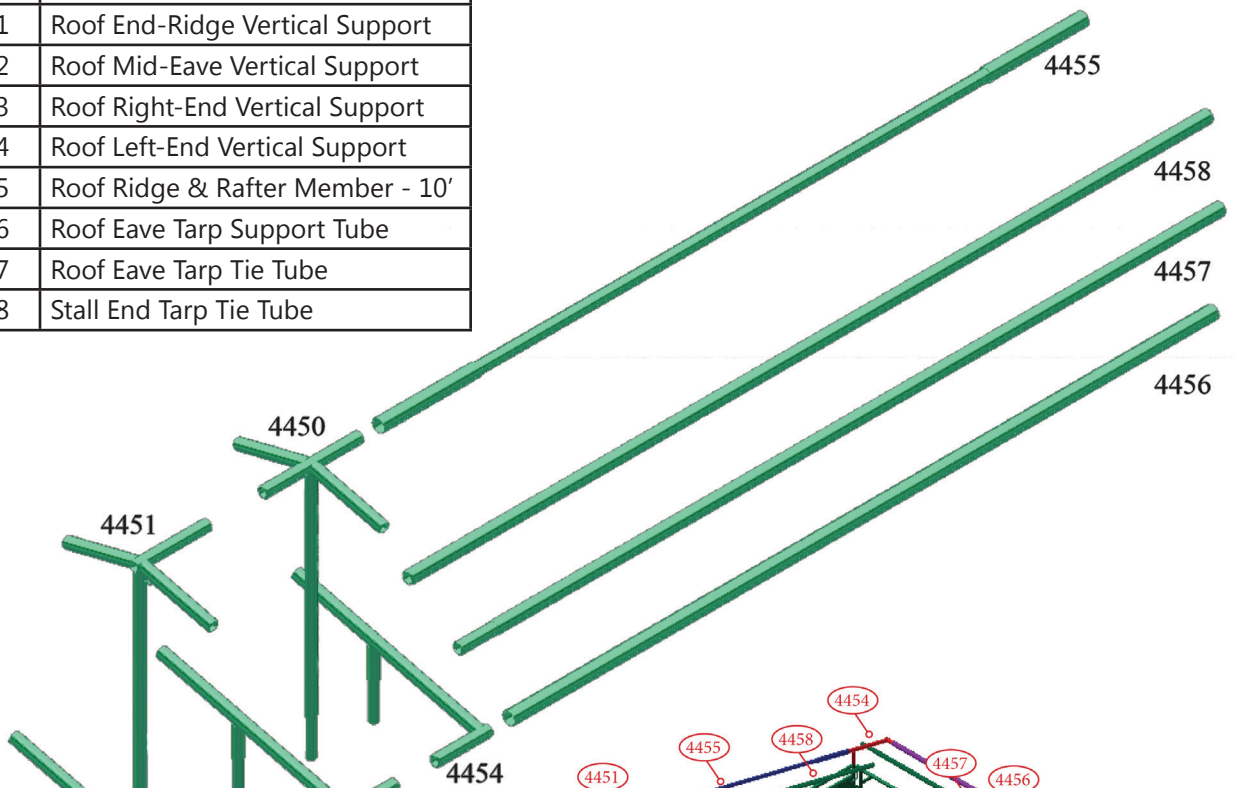
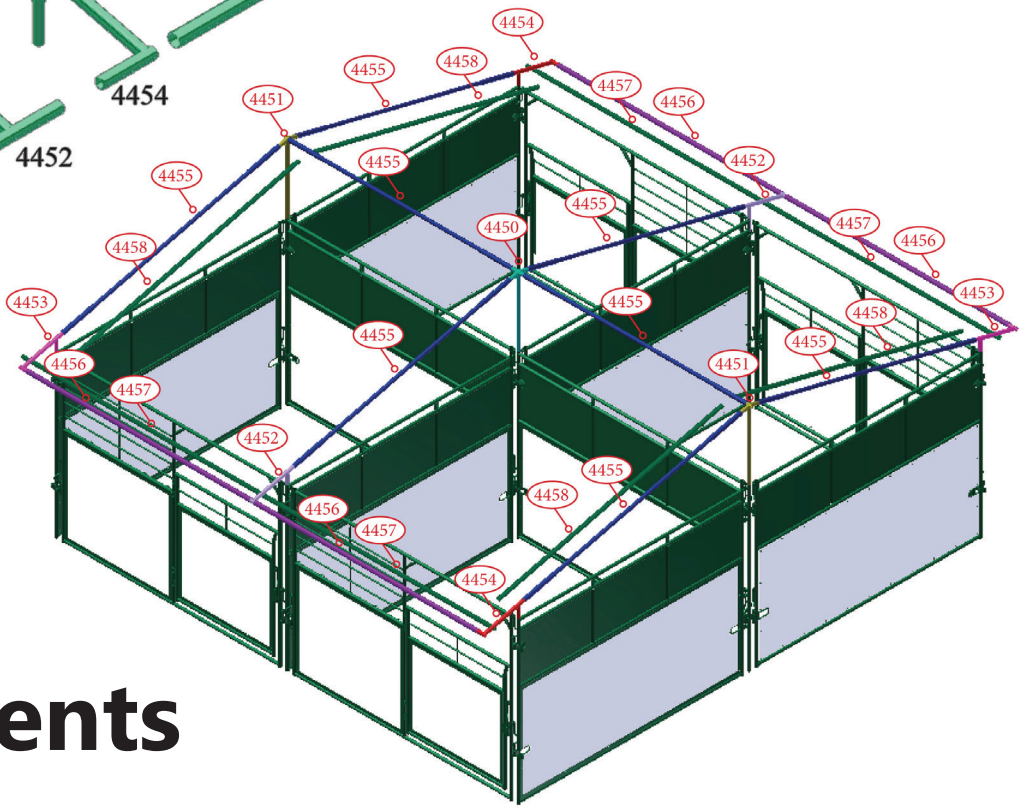
Portable Horse Stalls
Roof Assembly

Item No	Description
4450	Roof Mid-Ridge Vertical Support
4451	Roof End-Ridge Vertical Support
4452	Roof Mid-Eave Vertical Support
4453	Roof Right-End Vertical Support
4454	Roof Left-End Vertical Support
4455	Roof Ridge & Rafter Member - 10′
4456	Roof Eave Tarp Support Tube
4457	Roof Eave Tarp Tie Tube
4458	Stall End Tarp Tie Tube





Roof Components

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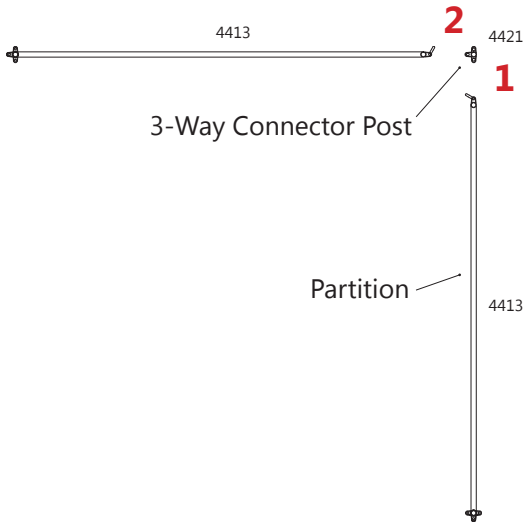
Steps to set up your portable horse stalls.

The steps required for the installation of your portable stalls may vary with the stall combination you have ordered. The basic steps however are the same as the steps shown in this basic installation. A short video is also available which shows the installation as outlined in these instructions. Note: for each set of stalls you will need one one 3-way connector post.

1. Attach the 3-way connector post to the single connector end of a partition. This partition will be the side wall at one end of your set of portable stalls.

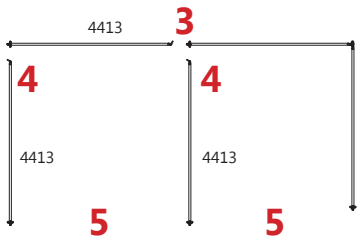


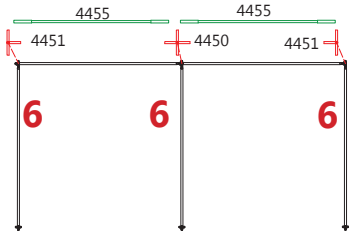
2. Attach another partition to the 3-way connector so that the two partitions are at right angles to each other as shown in the drawing on the right. This partition will be at the back of the stalls.

3. Continuing from the partition you just installed add another back wall partition. Pin the single connector of the new partition to the centre connector of the partition you installed in the last step.

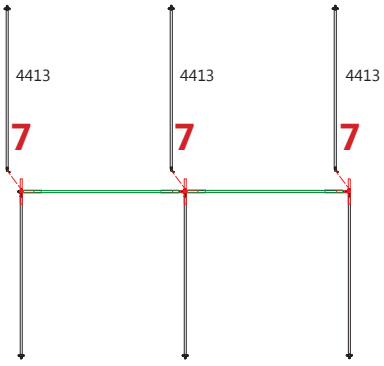
4. Now add two side partitions at right angles to the back partitions you installed in the last two steps

5. To make the roof easier to install we do not install the stall fronts until the roof structure has been installed





6. Insert the vertical roof supports and centre ridge supports into the verticals of the back wall partitions and the 3-way connector. Tip: by not installing the partitions on one side of the stall run you can drive a truck along the back wall and have easy access for installing the ridge supports.



7. add the three side partitions to the other side of the backwall.

8. Locate the left, right and mid eave vertical supports as well as the rafter and tarp support tubes. (see picture on next page)

9. install the eave members as shown on next page.

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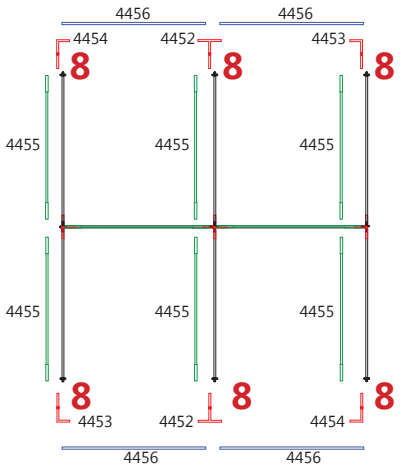
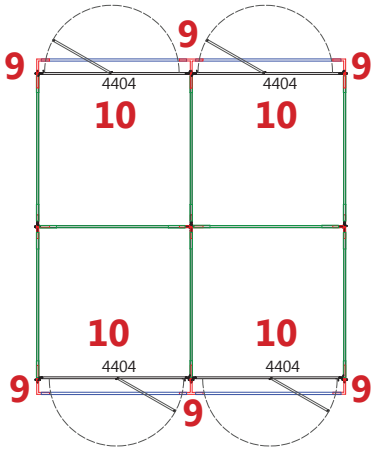
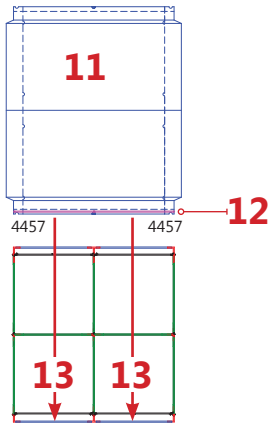
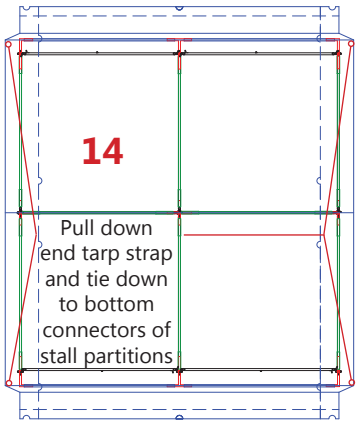
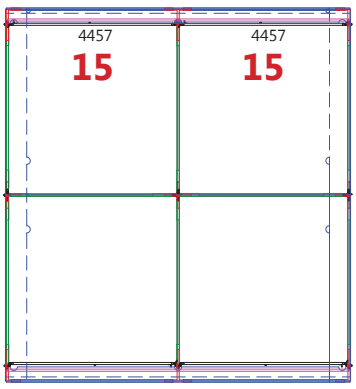
10. After all the roof componants have been installed you can install the stall fronts.
11. Lay tarp on ground with one eave parallel to the stall fronts (as shown on your right)
12. Insert the eave tarp tie tubes on the leading edge of the tarp.
13. Tie long ropes to the tie tube and pull the tarp up and over the ridge to cover the stalls
14. Pull the end tarp straps snug and tie straps to connectors on end partition (Unless you are overlapping tarps. See next page for this description)
15. Insert the remaining two roof eave tarp tie tubes and ratchet all eave tarp tie tubes securely to partitions. Eave will be tied to every partition on 10' centres.
16. Insert the end tarp tie tubes in the underside of the roof tarp and ratchet snugly to the adjacent rafters (see photo's on the following page).
17. Tie down to counterweights or anchors to ensure stability in high winds. Anchor requirements may vary based on anchoring method, soil conditions and wind loads (see engineers report for loads).

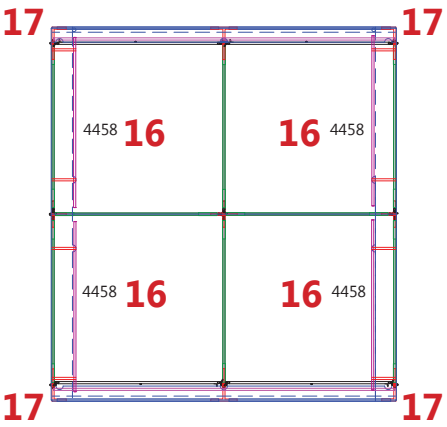












Important: When completed the tarp will be tied directly to the stall fronts and partitions. This will tie the roof to the stalls so that the roof will not lift off of the stalls. Ensure all straps are secure and tight.

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Site preparation

- Center line of stalls marked on ground
- Components set out

Stalls and roof frames installed

Step 13 - Starting to pull tarp

Step 13 - Roof tarp almost in position

Step 14 - Tie tarp end to partition

Step 14 - Tarp ends tied down

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Step 15 - Ratchet eave securely to partition

Step 15 - Shown where tarps overlap

- Both tarps are ratchetted to partition
- One of the white end strap is tied to stall

Step 16 - Ratchet tarp ends to end rafter

Step 16 - Ratchet tarp ends to end rafter

Step 16 - Ratchet tarp ends to adjacent rafter

Step 16 - Ratchet tarp ends to adjacent rafter

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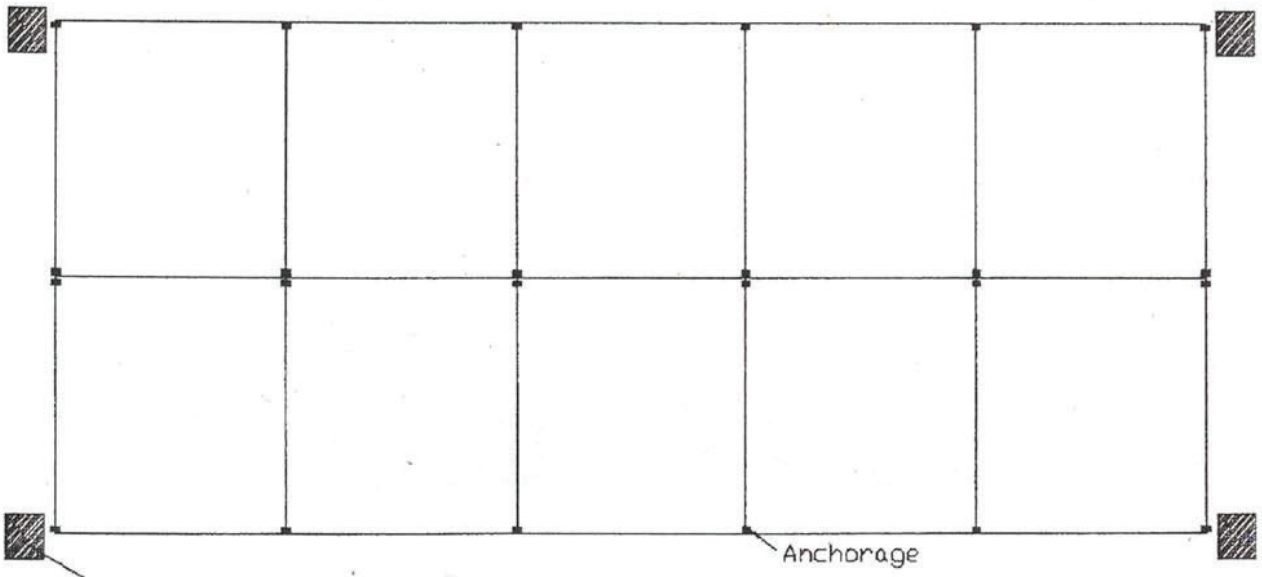

Location for Anchor or Counterweights

Figure -2, Suggested Locations if Anchorage or Counterweight Is Used

Table 4 Required tension force for each anchor or counterweight. (Safety factor S.F =1.5)

Vo (km/h)	70.0	80.0	90.0	100.0	110.0	120.0	121.7
q (kPa)	0.25	0.32	0.41	0.50	0.61	0.72	0.74
Tension for each anchorage (kN)	0.21	1.10	2.10	3.22	4.46	5.81	6.06
Tension for each anchor (lbs)	47	246	472	723	1002	1307	1361
Counterweight for each block (lbs)	142	739	1415	2170	3005	3920	4084

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