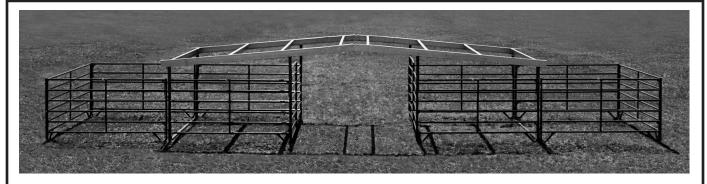
Modular Shelter Breezeway Hardware Kit **Assembly Instructions**

76900188

THANK YOU FOR PURCHASING THIS PRODUCT

Behlen Country has been in the business of providing quality products for more than 80 years. Our products will provide many years of service when maintained by the owner and used in accordance with the capabilities of the product. For questions about this product, or for parts inquiries, please contact our Customer Service Center listed below.



Check with local government authorities to determine if a building permit is required.

Sheeting used must conform to these or greater specifications as listed below:

Design Criteria

Snow – 40 psf ground snow

Wind – 90 MPH exposure C

Loads calculated in accordance with the Uniform Building Code 94 Edition.

This shelter requires adequate anchoring to safely resist the design wind forces and to avoid injury to animals and others. Behlen Mfg. Co. requires that an anchor package be installed at every corner in heavy, undisturbed soil. Behlen Mfg. Co. strongly recommends that you consult a qualified professional engineer to design the anchor for your specific application.

- NOTE: Before assembling, it is necessary the ground be level to less than 1" within the area the shelter is to cover.
 - It will take two people to erect this shelter.
 - Tools required: Ratchet wrench, 3/4" & 9/16" socket heads, straight edge, string line.

Table of Contents

NOTE: To assemble this Modular Shelter System,

two 76110678 (12' x 15') Horse Shelter Framing kits must first be assembled.

Pages 1-6. Instructions for assembling two (12' x 15') Horse Shelters for set up into a 12' x 36' Modular Shelter System.

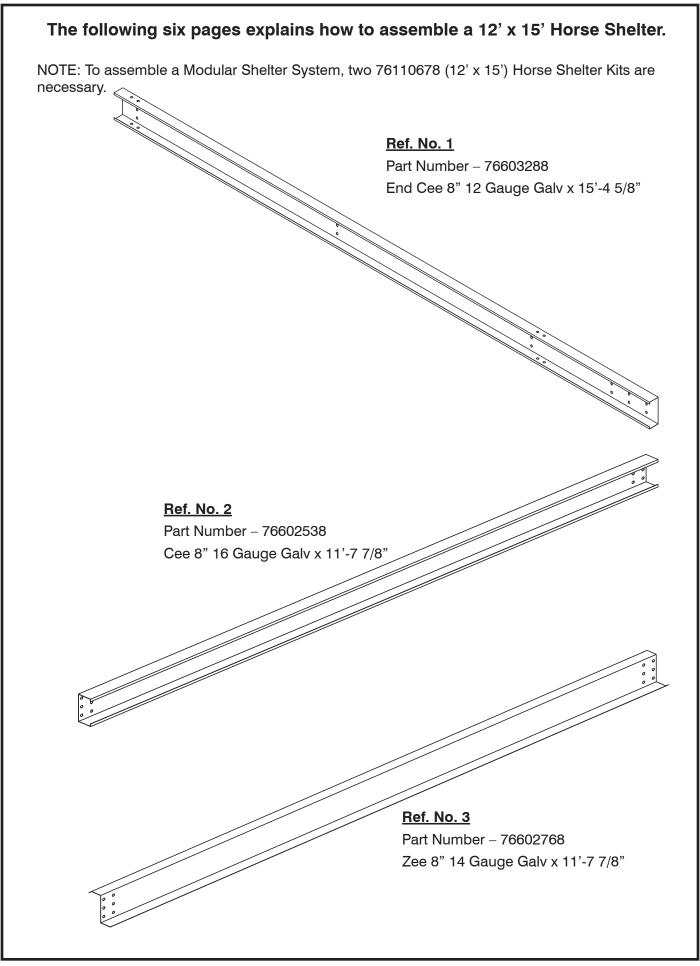
Pages 7-12. Instructions for assembling the 6' Center Roof Connection for the Modular Shelter System.

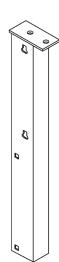


CUSTOMER SERVICE CENTER

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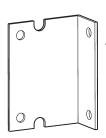
Ref. No. 4

Part Number – 76400349 Short Shelter Post – Hot-dipped Galvanized



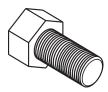
Part Number – 76400359 Tall Shelter Post – Hot-dipped Galvanized





Ref. No. 6

Part Number – 76602558 Side Channel "L" Clip – Galv.



Ref. No 7a

Hex Head Cap Bolt ½" x 1" Plated



Ref. No 7b

Flat Round Head Bolt – ½" x 1" Plated



Ref. No 7c

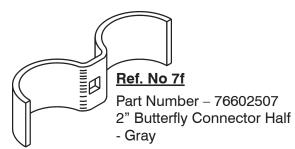
Nut ½" Hex Grade A Plated





Ref. No 7e

Carriage Bolt 3/8" x 1" Plated



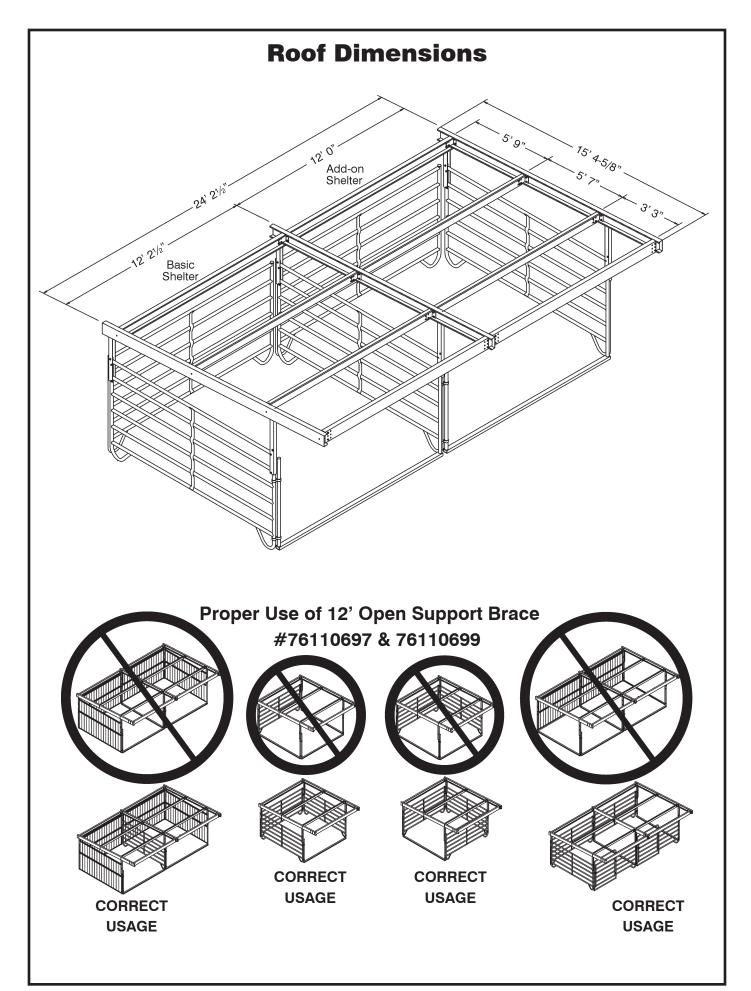


Ref. No 7q

Nut 3/8" – Flanged Whiz Lock – Plated

Ref. No 7h

Part Number – 76602837 (8 pair) Rubber Strip (Not Illustrated)



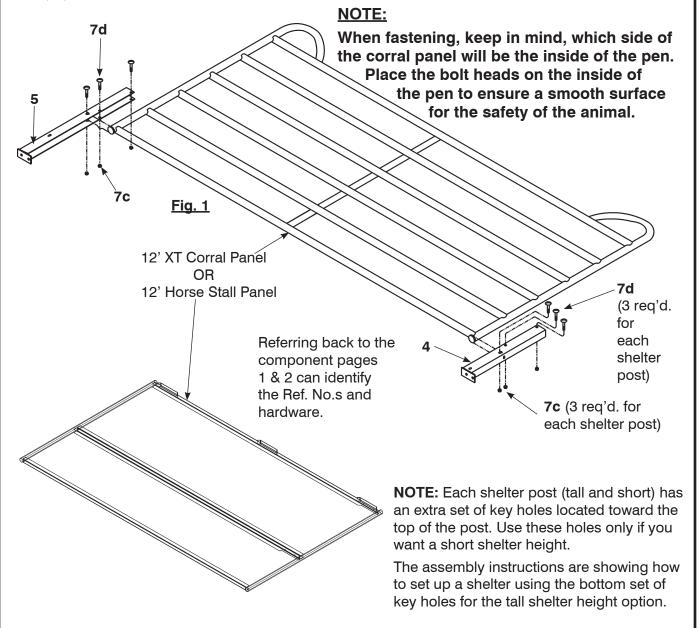
NOTE:

If you are planning on erecting an add-on section onto the shelter, read through both the Single and Add-on instructions. This will eliminate rework.

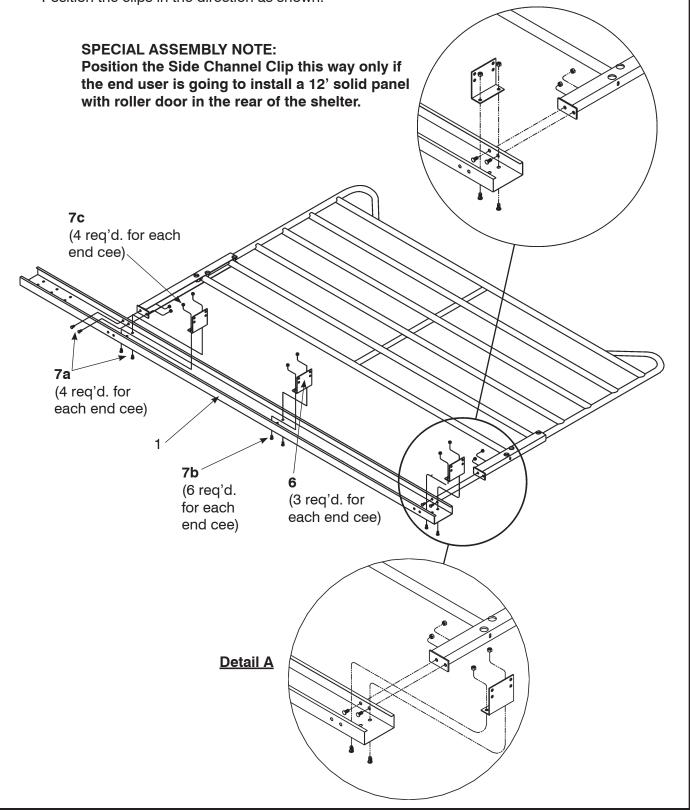
If sheeting will be installed, do not install it until all sections of the shelter are erected. (Behlen does not supply sheeting)

Step 1

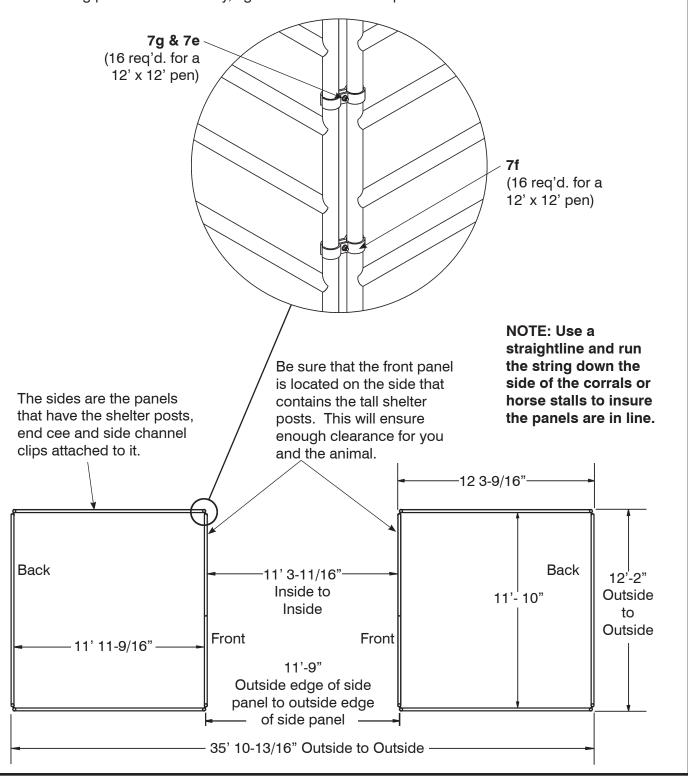
- 1a The ground on which the shelter sets must be level to about 1" from one end to the other.
- **1b** Assemble the shelter in an area which is 12' x 36'. Assemble the first shelter structure and then assemble the next shelter on the opposite side facing the first shelter.
- 1c For a more accurate layout, dimensions are given on page 6, but at this point they are not necessary. For assembling ease, lay the panel down. Slide the tall shelter post (5) and the short shelter post (4) onto the vertical 2" tube. If assembling the shelter on a 12' XT Corral Panel, be sure the cap rests in the three slots provided on the shelter posts.
- **1d** Fasten each shelter post (4 & 5) with three ½" x 3" plated carriage bolts (7d) and three ½" nuts (7c).



- 2a With the corral panel still lying down, bolt the end cee (1) to the shelter posts using two ½" x 1" hex head bolts (7a) and two ½" nuts (7c). Use the holes indicated on the illustration. When assembling end cee onto a horse stall, use the middle set of holes as indicated in Detail A.
- 2b Assemble the side channel clips (6) to the end cee using two ½" x 1" flat round head bolts (7b) and two ½" nuts (7c). Be sure to keep the bolt heads to the outside of the cee as shown. Position the clips in the direction as shown.

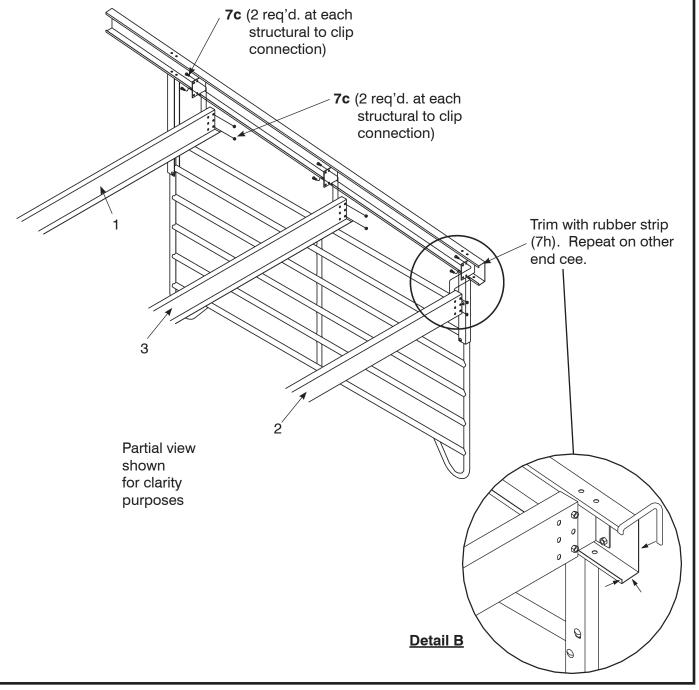


- 3a At this point, the structure can now be set in place. Two people are needed for this process for safety purposes. Place four 2" butterfly connector halves (7f) at each corner of the pen. Fasten the butterflies with one 3/8" x 1" carriage bolt (7e) and one 3/8" flanged whiz nut (7g). Make sure the bolt head is on the inside of the pen for a smooth edge near the animal. Do not fully tighten the butterflies. This will allow for adjustment of the pen. When attaching the butterflies, place one directly below the shelter post and one near the bottom of the panel.
- **3b** Measure the pen to match the measurements provided in the illustration. After measuring and moving panels as necessary, tighten the butterflies in place.



Once the pen is set in place, it is now time to assemble the interior cees and zee. Two people are needed for this process for safety purposes.

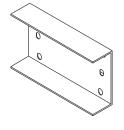
- 4a To begin, start on the low side. Lift the 8-inch cee (2) up to the bottom clips and rest on the side channel clips. Be sure that the 8-inch cee (2) is positioned as shown on the illustration. The open face of the 8-inch cees has to face into the pen. Fasten at each end with two 1/2" x 1" hex head bolts and two 1/2" nuts.
- **4b** Follow the same instructions for the 8-inch zee (3). Make note of the position to ensure proper assembly.
- **4c** Insert the rubber strip (7h) around the entire end of the end cee on the low side. See Detail B. Cut any excess rubber strip off. Repeat this process for the other side. This will take away any sharp edge that could endanger your animal.



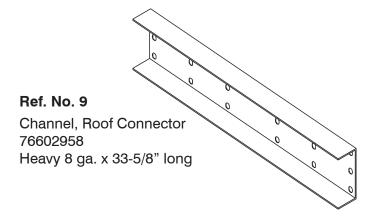
Component List for 6' Center Roof Connector (76110688) (Center Roof Section of Modular Shelter System)

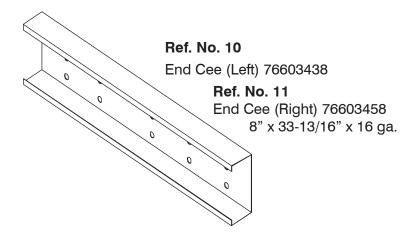
NOTE: For a 12' x 36' or Single Modular Shelter System, two (76110688) 6' Center Roof Connector Kits are necessary.

If more add-on sections will be added, only (1)76110688 6' Center Roof Connector Kit is necessary for each additional 12' add-on section.



Ref. No. 8 Channel, Ridge Connector 76602948

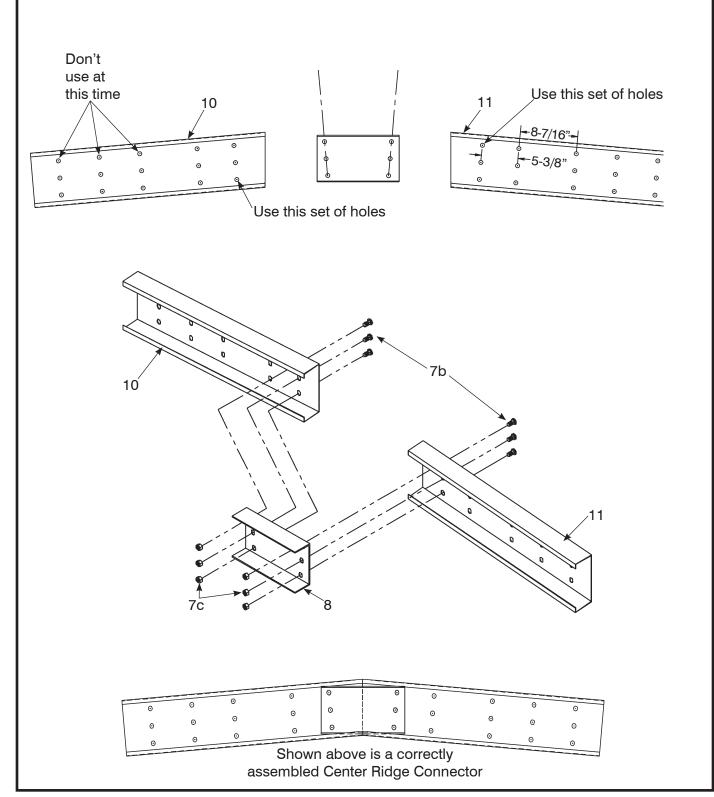


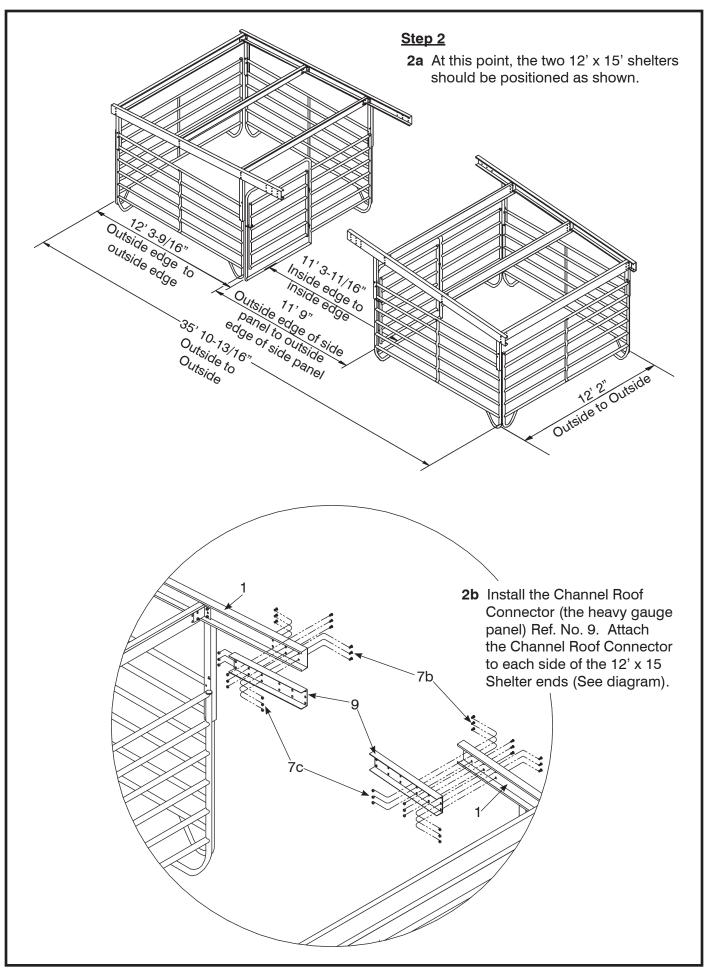


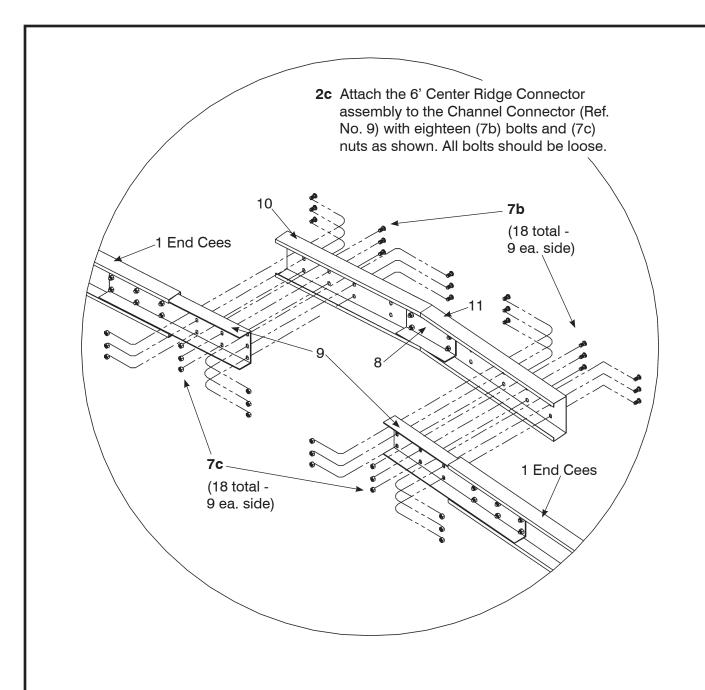
1a Assemble the 6' Center Roof Connector using the components and hardware in pkg. 76110688. The Ridge Connector (Ref. No. 8) is the starting point. Position the plate so that the open face of the plate is facing up. Next, install the short End Cee Channels (Ref. No's. 10 & 11). Follow the diagram below on how to position the Cees leaving all bolts lose at this time.

Connect the two End Cees using the set of holes shown. Note the hole grouping.

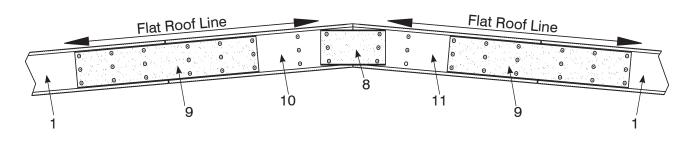
Lay the Center Ridge Connector (8) out so that the holes are positioned as shown angling outward.

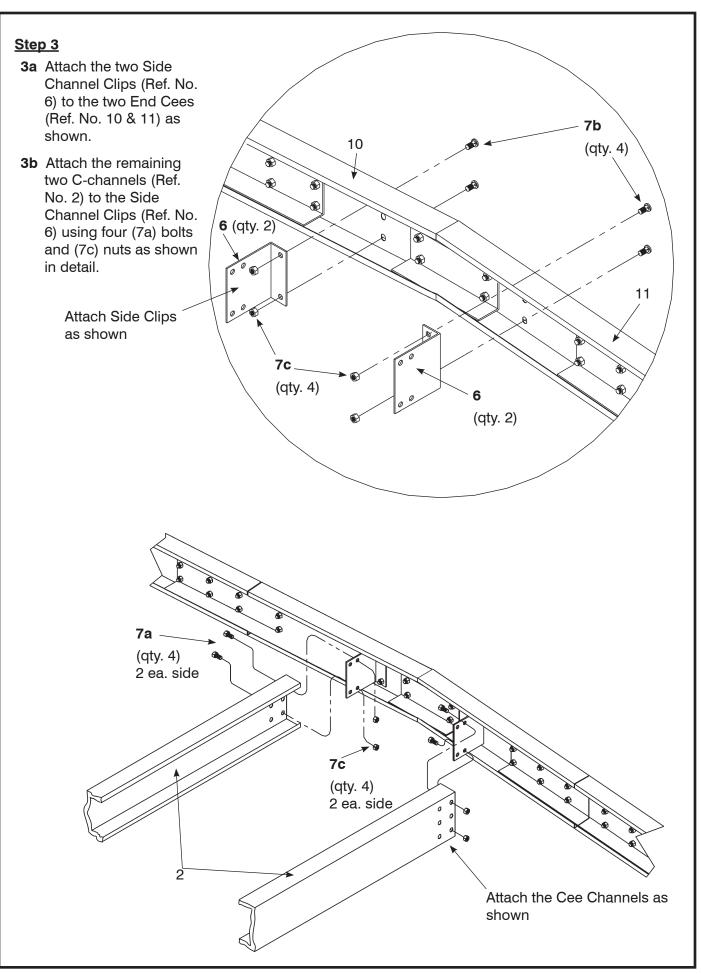


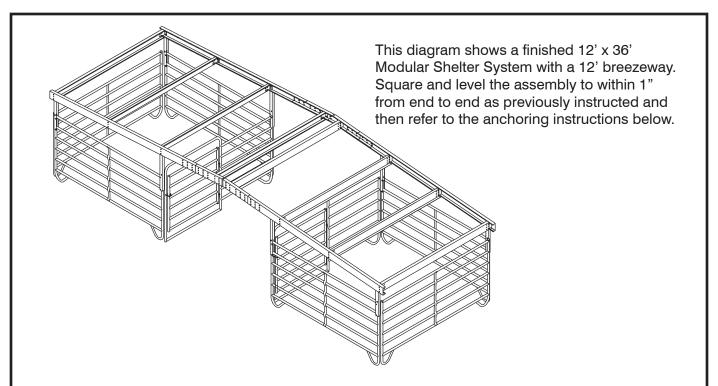




2d After the Center Ridge Connector (Ref No. 8) is attached, adjust the angles (Ref. Nos. 10, 11 & 1) so that they produce a flat roof line as shown in the detail. A straight edgel will help in achieving this. Bolts can now be tightened to hold the roofline shape as it is being adjusted.



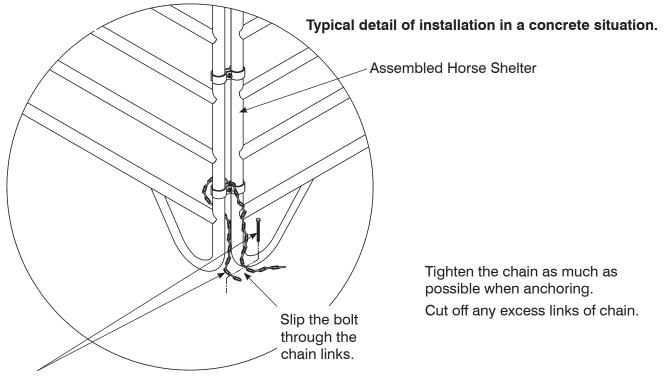




Anchoring the Assembled Horse Shelter

The assembled horse shelter <u>will</u> require anchoring. When anchoring into concrete, all materials will be supplied by the buyer and can be bought at any local hardware store. The

shelter <u>must</u> be anchored at every corner. With a 90-MPH wind, an uplift force of 2,200 pounds per corner can be created.



Chain and anchor bolt can be purchased at your local hardware store.

(Chain and anchor bolt must be capable of withstanding a maximum uplift force of 2,200 pounds per corner).

To assemble the Add-on kits, follow the same instructions as for the 12' x 15' Add-on unit. It will take two people to assemble this unit.

The original 12'x 15' units will always be placed on the ends.

