





Not quite low, not quite high ... let's call it mid. Photos taken and Guide prepared by the OSU Vegetable Production Systems Laboratory



Conduit benders can be purchased from most hardware stores.

A bender manufactured by Benfield is shown in this Guide.







These frames can be made by one person but having a helper is best. Also, when using this method, the working surface must be smooth and firm. Layout a 10-ft section of pipe and tape measure side-by-side.









The pipe has been marked where bends will be made. Now, the pipe is put in place in the bender. The mark in the center of the pipe (5 ft from both ends) locates the middle (high point) of the bow. This 90° bend is made first.



Align the correct positions on the bender and pipe. On this conduit bender, the 5 ft (90° peak bend) mark is aligned with the arrow.







Continue the bend by the step-pull method. Use proper push and pull form and pace throughout the process to avoid injury.





Complete the bend by stopping at the correct angle (in this case, 90°). The bar of the bender should be only slightly above the line that bisects the peak of the frame.



The first and third marks (each 2 ft from opposite ends of the pipe) made at the beginning of the process are visible at the top-center and right-center of the image. Each locate where a 45° bend will be made to form the sidewall.















Complete the bend by stopping at the correct angle. The bar of the bender should be only slightly above the line that bisects the turn from the frame's sidewall to its roof.























Bows are in place and covering has begun. Here, 12-ft wide x 80 ft long sections of 6-mil greenhouse film are secured with cement blocks. Additional steps are required to secure the plastic where high wind and heavy snow is expected.











Bow spacing must be narrow enough and plastic must be of the proper strength and be properly secured to withstand wind and snow loads. These hoops are placed every 5 feet. Snow in 2011-2012 has been lighter than normal. However, since Nov-11, these mid-tunnels have withstood winds of up to 38 mph and snowfalls of up to 4 inches.









Dr. Matt Kleinhenz Assoc. Professor, Extension Vegetable Specialist Dept. of Horticulture and Crop Science The OSU-OARDC Phone: 330-263-3810

E-mail: kleinhenz.1@osu.edu Web: hcs.osu.edu/vpslab Facebook: www.facebook.com/osuvpslab

The Ohio State University Extension embraces human diversity and is committed to ensuring that all research and related educational programs are available to clientele on a nondiscriminatory basis without regard to race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, or veteran status. This statement is in accordance with United States Civil Rights Laws and the USDA.

Use of trade names does not imply endorsement of the products named nor criticism of similar ones not named.

