

**Concrete Wind-Break Fences**

To be healthy and profitable, livestock need exercise—in winter as well as in summer. Formerly stockmen and dairymen used high stone fences and, dense hedges to shield their exercise-lots from wintry blasts. Since such wind-walls have objectionable features, and are also now everywhere possible, many farmers are now building their wind-breaks of concrete.

Begin constructing the wind-break

with the four-inch dimension nailed to the form and the sides beveled to produce a three-inch face. Through the top and bottom, bore two five-eighths of three-eighths-inch rods are placed and allowed to project one foot into the next panel.

Using the post mold only, build the end or corner post of the wind-break and, if necessary, make an extra mortise in it. Dig the hole 12 inches square and four feet deep. Set up

Molds for the Construction of a Windbreak Fence

on that side of the exercise-lot from which the winter winds most often blow. A very convenient mold to build the wall is in panel sections 12 feet long, six feet high and six inches thick, with a foundation one foot thick and extending three feet into the ground. Supporting one end of this panel, and built at the same time, is a large concrete post one foot square, six feet above ground and four feet below. The other end of the panel is keyed into the mortise in a similar large post molded at the previous operation, as shown in drawing below.

The forms for the panel are simply two independent walls of one-inch siding on two by four-inch uprights six feet in length and spaced two feet

the post form, plumb it carefully with a carpenter's level and fill with mushy wet concrete. Proportion the concrete one bag of Portland cement to four cubic feet of pit gravel, or of sand and four cubic feet of crushed rock. Reinforce the post, one and one-half inches from each corner, with a three-eighths-inch rod nine feet long. Wire these rods securely together, diagonally, near the top. Remember to insert the short lengths of rods which tie the post to the next panel.

**ADDING ADDITIONAL PANELS**

In warm weather the post form (as well as that for the panel) may be removed in three days. Then dig the next four-foot post hole and three-



A Concrete Fence for a Windbreak

A concrete fence such as the one here illustrated, the construction of which is described in the adjoining article, is of decided advantage on the live stock farm, affording as it does a shelter from wintry winds during the exercising hour.

apart. The mold for the post is merely a six-foot box 12 inches square on the inside and open on one face and both ends. It is made of two-inch lumber. The open side butts against the end two by four uprights of the panel forms. To the inside of the board opposite this open face is nailed the wedge-shaped timber which forms the mortise lengthwise the post into which the next panel is keyed. For this wedge-shaped timber use a three by four (or a built-up piece)

foot panel trench. Fill them with concrete and immediately set up the post and panel forms with the latter butting against the last-made concrete post. Reinforce the post as before and also the panel, three inches from the top and the bottom and halfway up the wall, with two three-eighths-inch bars equally spaced from each other and the sides of the form. Labor of lifting the concrete can be lightened by slipping the boards in place on one side of the panel

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