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QUESTIONS AND ANSWERS. Miscellaneous.

REMODELLING BARN.

Having read many valuable hints through your paper regarding rebuilding, I intend to remodel barns and stabling in the near future. I have two fifty-foot barns; one has a stable built up against south side, whole length, which is altogether too narrow. Silo is built on concrete foundation at end of alley of this. I intend, if feasible, to turn my other barn around in front of this one and remove the stable at present there, leaving the two barns, say, 30 or 32 ft. apart, and building a stable between. Would need to make only roof and ends. Would like to roof it same way as the other barns, so as to give loft room and to put hay-fork track in. I would be much obliged if you could give me some good information or plan for roofing the stable. Could a roof such as you have drawn in the issue of "The Farmer's Advocate" of February 1st, on page 180, end bent, be put on successfully, so as not to leak in the gutters? Would 30 ft. be a sufficient width for two rows of cattle, heads to center? Is there any standard width for mangers, and any standard length of stalls, and what are they? Probably you could suggest a better plan of building. D. M.

Editor "The Farmer's Advocate":
In answer to question asked by D. M., I have given the idea careful study, and have come to the conclusion that the best way to roof his stable is to take the span the widest way (50 ft.) and build a gambrel over it, and, as this span is considerably greater than that of either of the 50 ft. barns are likely to be, the roof will rise quite a distance above the others, and show a gable above the ridges of these. I could have gone into the question better if I had known the width of both of the other buildings.

The rafters for this span (50 ft.) will be 18 ft. long, allowing nothing for projections at eaves. This gives a rise of 12 in. in a run of 8 in. for the lower roof, and a rise of 8 in. in a run of 12 in. in the upper roof, and consequently the rafters of both roofs are the same length.

The gutters will not be so very long, and can be rendered perfectly water tight by careful work in shingling and laying the galvanized-iron lining, which will be at least 12 in. wide and shingled so as to leave a good wide opening, across, between the butts of the shingles.

The frame can be built of plank construction as well, and better than in any other way, by letting the side posts run from the sill to the plate, but having the purlin posts resting on the plank cross beams of the loft floor; or, better still, let them in between the planks of these beams and bolt securely. The idea is simply to build a frame, like that shown in "The Farmer's Advocate" at different times, only do not have the purlins come below the beams of the loft.

No doubt the barns that are to be set on each side of the stable have drive-ways across the centers, and if so, these will offer exceptional advantages for unloading hay, by means of track extending out from the loft of the new stable, the only disadvantage being that the fork load will travel above the team, as it goes to the loft.

The arrangement under consideration is rather unique, but has several important advantages, and might be copied by others to advantage, as feed can be easily taken from the barns on either side, the loft can be filled from either barn floor, which is of great benefit when threshing as a straw storage, and by just such questions as these we are often shown how some old buildings can be rearranged into a modern stable.

The usual space given for each cow is from 6 ft. 8 in. to 7 ft. in length, by 3 ft. to 3 ft. 6 in. in width, with mangers 20 in. to 22 in. wide.

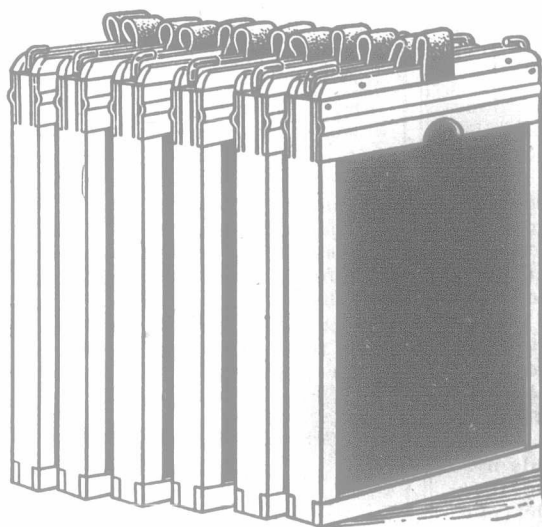
The lighting of the stable will be the most difficult part of all, and will require large windows in each end and quite close together. A. A. GILMORE, Hartington, Que.

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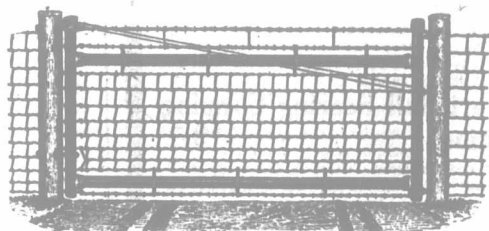
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