Visit to the "Model Barn" the "Model and

NE of the exhibits that attracted the attention of thousands of Ontario farmers and roused the interest of hundreds of those who are planning to build during the coming year, was the model barn erected on the Exhibition grounds this year, near the dairy stables.

Every ambitious farmer aims to have the barn he puts up as near the ideal as possible, not only in the matter of convenience, saving of labor, ec., but with regard to cost, ventilation, light, sanitary appliances, and the hundred and one little things that go to make the building as near per-

fect as possible.

Several of our big manufacturing firms combined this season in erecting and equipping on the grounds, a farm with practically every approve up-to-date convenience in use on the most up-to-date farms. A short description of it then should indeed be much interest to the readers of Farm and Dairy.

A Made-to-Order Barn

The day has come when the Ontario farmer can order his new barn just as a few years ago he requested his local carriage maker to furnish him with a pair of sleighs. So too he can secure a made-to-order barn, just to suit his particular needs. For these modern days.

The idea of a barn constructed of iron and steel is a big step from the old log one hewed from massive timbers that our fathers and grand-fathers used to build. But why should we not build a barn of steel? It is

Of course the most important part of this all-steel barn was the frame work. The illustration berewith shows the simplicity of this more clearly than description. The trusses were of double-angle steel, which made the whole framework perfectly solid, and the arrangement as shown, gives a clear floor from end to end, without any of the old-fashioned cross beams. A convenient and roomy barn floor is the result.

But these are not the only points of advantage. Where it took weeks to get out the timber and getting the framing done (to say nothing of he "raising") three or four men can now put up the whole building in a few days. Every farmer knows what this means in both time and labor, especially during the ummer seas

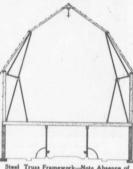
On the outside there is not bit of wood, from the ground to the tip of the ven-tilator. The building is thus tilator. The building is the tile of tile of the tile of the tile of tile of tile of the tile of tile the eaves to moist soil, makes it practically lightning proof

The siding of this model barn is of Acorn Corrugated Iron-the kind of galvanized iron sheeting that is going on to hundred of new barns each year. The roof is made of the safety locking shingle

though some of the barns being put ers who have put up these barns. It's up is of the same material as the worth a trip to see one of them.

next year should not fail to know more about this one before he decides. As one farmer was overheard to say in leaving, "I got the worth of my in leaving, fare just from seeing this barn and the things in it."
"The Steel Truss Barn" is the name

of the attractive booklet in which the Metal Shingle & Siding Co. tell all about this type of building. A card will bring it to prospective builders. A card and also the addresses of many farm-



Steel Truss Framework---Note Absence of Crossbeams

worth a trip to see one of them

The Foundation and the Silo

The walls for the basement of the barn are different from those to be found on most Ontario farms. are built of Natco Hollow Tile (clay), manufactured at Hamilton, Ontario National Fire Proofing Company of Canada, Limited. The dead air spaces in the tile provide insulation against heat, cold and moisture, and the walls will not steam up as in the case of a solid wall. The tile surface is scored both without and within. and stuccoed over with cement plaster, giving a neat attractive surface, which can be marked off to represent stone, if so desired. This type of wall is growing in popularity every year, for every farmer knows the value of an air space in the wall of any building, either house or barns. It is the same principle as in the thermos bottlekeeping-things hot in cold weather

cold in warm weather. The silo too was neither the stave nor the cement kind found on most Ontario farms. It was built of hollow tile, somewhat similar to those in the wall with the exception that the exposed surfaces are glazed. The hollow wall is always desirable in the silo in preventing freezing and the glazed surface on the inside absorbs absolutely no moisture. Thus practically every bit of the silage around the walls comes out just as good as that in the centre. The silo erected at Toronto was 28 feet high and 12 feet acress, holding sufficient silage for 18 to 22 head. The National Fireproofing Company of Canada, Ltd., have this year placed about one hundred of these siles on Ontario farms, and the excellent satisfaction they have given commends them to every farmer or dairyman who is planning to put up a corn tank next year. One of these is illustrated on the front page of Farm and Dairy of Sept. 3rd. It is that of John Wilson, of Oakville, Ont., who is an enthusiast of this type of silo. The total cost of the hollow tile silo, including labor, etc., is little if any

greater than for coment greater than for cement, and any handy man can put one up. Bode lets descriptive of the Nateo Ever-lasting Silo or of Natco hollow build-ing tile can be secured by writing to their Toronto or Hamilton office

The Machine that Fills the Silo

THERE is only one firm in Canada that makes a specialty and feed cutters. It was one of their machines that went to make up part of the equipment of the "Model Barn." Bell ensilage cutters are well known all over Ontario - known for one of their particularly strong points they are credited with being the lightest running cutting machine offered for sale. And it is whispered about that it was for this reason they were asked to demonstrate the machine as part of the "Model Barn equipment.

This firm makes several types of cutters and in every size - in fact they make nothing but feed cutters of one kind or another exhaust blow-ers, fly wheel blowers, carrier elevators, travelling tables or stationary, unmounted cutters or mounted on They either 2 or 4 wheels. every size of machine from the one for the man who wants to cut a little feed by hand to the travelling sind filler, whose whole aim is to fill the silo in as few hours as possible. The number 60 size of fly wheel blower (mounted as shown at the exhibit) has been selected for two electrical travelling power outfits, one in Dorchester Township and one in Norwich. outfit will consist of a mounted transformer, a mounted motor and the mounted blower as above.

The cutting knife of the Bell ensilage cutters is the same of course in every type of machine, and accounts its requiring less power to drive This knife is crescent shaped, and cuts with a shearing slant. The wear is so very even as noted in old knive that it shows the design must be good Of course it is well known that less power is required with a carrier ele-vator than with the blower, and it is for this reason that the former is so well adapted to the needs of the farmer with a 4 or 5 horse-power en gine, and who does not wish to depend on the silo cutting gang. Every ma-chine has a safety lever that instantly reverses the feed follers - but their booklet explains this and many other points and will come in response to a request to head office, St. George, Ont.

Cork Brick Flooring

OW would you like your cates to sleep on a cork floor? Several of the stalls in the basement were floored with cork brick, and it OW would you like your cattle was amusing to see interested farmers chat over them, discussing their merits and demerits. They all agreed it would be much easier on the cattle's knees, and a lot more comfortable than the cold cement.

This seems to be the accepted opin-ion of dairymen, and is making this flooring very popular in the best stables of Ontario and Quebec. The bricks are manufactured from ground Spanish cork and asphalt compressed into brick form. This makes them perfectly waterproof, lasting and sand tary, yet giving the comfort that "makes for more milk." Dairymen and others can secure complete mation about this new durable stable flooring from the manufacturers the Kent Co., Ltd., of Montreal who have supplied large numbers of these brick to various dairy barns and horse stables over Canada. Any par ticulars, catalogues or even a sample of this brick will be gladly supplied by the company to any one wishing



Early Visitors to the "Model Barn"

but a step in the economy of nature's sides, except of slightly heavier gauge products. From year to year we see to stand the wear and tear. iron in so many forms superceding wooden work on the farm-steel fences, steel waggons, even to the all-steel stone-boat. Metal must necessarily supercede as our supply of lumber diminishes. Moreover steel construction has many advantages, and the credit of introducing steel framed and steel clad barns to the farmers of Ontario must go to the Metal Shingle and Siding Co. at Preston. During the past two years this firm has ex-pended much thought, time and money in perfecting this model type of barn that has met with the hearty commendation of many farmers over Canada who have them in use. "The Model Barn" erected by them on the Exhibition Grounds was convincing enough to the thousands of farmers who saw it. It was 36 feet wide by 56 feet long and 16 feet to the plate— about the size of the average Ontario barn, though these buildings can just as easily be made into any other size desired

Most farmers now demand a ventilat em in their new buildarchitect, Mr. Gilings. ded for this with a more. thorong galvanized pipe that collect the foul air from the stable, carry it up along the wall and roof, where it through two ventilators. Fresh air is supplied to the cattle through ventilating ducts built into the stable wall. Even the windows in the wall and in the basement have metal and in the basement and are numerous enough to provide an abundance of light. The roof windows are controlled by a rope pulley from the barn

It was a pleasure for the writer to visit this model barn together with a score or more farmers, and to have construction explained in detail by Mr. Gilmore. It is a type of build-ing that has deservedly become very popular all over Canada, and the man o has in mind a new barn for Dairy

avestigate this style has proved to be que the man who is plann bricks are the usual in sand on a cement will wear for years.

The Stalls, Stan N one of the accomgiven a general out

arrangement. It p rows of cows head to lowed for plenty of h leaves less odor in th ventilators open at the sides and reduces labor in feeding by ha feed passage. At or stable was shown the single horse stalls an stall. In practisingle horse stalls an stall. In practice of course it is not to be these would be at al barn. They would be separate building, be were for demonstration other end of the build the maternity stall for ing the time of calvir constructed pen for the several of lighter mat

The firm that drew plan and which supplie ment, such as stalls, st needs no introduction farmers. The Beatty B have their stable equipp every township over old their workmanship is fo every farm building of stitutions. The entire the stable was designed fort, cleanliness and l cow. More sanitary milduced and yet at the s arrangements as ient that the labor wi to a minimum. The stal etc., are the B-T steel g -the galvanizing giving ticularly attractive app at the same time prevening. The swinging sta or plenty of freedom fe and the light steel const partitions make it poss every part of the sta-light. This is in big con of the dark, musty corne of our barns at present

The feeding mangers ustable kind, that allo e swept out from end to be swept work of feeding is made use of a feed truck T in this barn would hav trips or more to the fe the whole herd. The were semi-individual and jection held a cylinder always convenient for th No wheelbarrow was u

ing this stable. For not

so handy as a good overcarrier, either to the ma