Design for a Swine Breeding Unit

Harold Patterson & Gerald Proverbs
The housing unit design supplied in this factsheet can be modified to meet the needs of the farmer. Good housing creates a healthy, comfortable environment which keeps pigs happy and productive.

LOCATION
Pens for swine should be located on a well-drained site. A southern slope on well-drained soil is preferred.
Barn roofs should slope away from the exercise area or eave troughs should be used to run water away from the pens.
Barns should have the face opening away from the prevailing winds. Check with your Ministry of Agriculture to determine in which direction prevailing winds blow.

VENTILATION
It is necessary that swine in confinement or shelter have adequate ventilation.
The block wall on the side with the farrowing and weaning/rearing pens should have spaces about 2 - 3 in. between the blocks above the fifth block course. This allows draft free good air circulation, and thereby preventing build up in humidity.

ROOF
Roof construction can be gabled or flat, the design shows a gabled roof which is more costly to build.

BACK AND SIDEWALLS
These walls should be solid for the first five courses. Beginning on the six course and up to the roof a space of 2 - 3 in. should be left between the blocks to allow for good ventilation.

FLOOR
Floors should be made of concrete. They should not be smooth finished as they get slippery when wet which can lead to serious injuries to mature pigs.
It is best to scarify the floor surface with grooves 1 1/4 in. apart. The concrete should be laid to provide a 1% slope to drains to ensure a dry floor.
ROOF RAFTER 2"x6"

RE-BARS BENT OVER RAFTER TO SECURE IT.

2x4" RE-BARS FITTED AT TOP OF COL, FILLED WITH CONCRETE

SCALE - 1/2" = 1'-0"

GATE

DIAGONAL TO BE FITTED TO INCREASE RIGIDITY

3/8" BRS WELD MESH

FRAME OF GATE TO BE LAP JOINED

SCALE 1"=1'-0"

1/4" REINFORCING BAR IN COL & FILLED WITH CONCRETE

WOOD POST FITTED IN CONCRETE BLOCK & FILLED WITH CONCRETE

GENERAL CONSTRUCTION DETAILS.

Support was provided for this publication by the Canadian High Commission, Barbados from the Canada Fund.