



Calf Unit Design







Calf Rearing Open Day 2022

Presentation Outline



- Calf house
 Cle specification
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- Ventilation
- Drainage
- Choice of environment



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Cleaning and

disinfection

• Labour

efficiency







Slurry Stores

Silage Clamps

Dry Cows

Cubicle Shed

Milking Parlour & Calving Pens

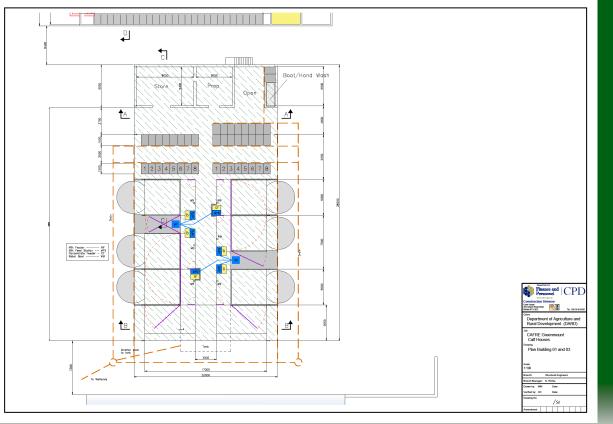
Mating Heifers

Post Weaning Heifers

Calf House

Farm Office

Calf house - specification





- Isolation area (for sick calves)
- 6 group pens 15 calves per pen.

40 No. Individual

• Auto. weight recording.

calf pens

Building

orientation.

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- Straw storage area
- Milk preparation room
- Store room



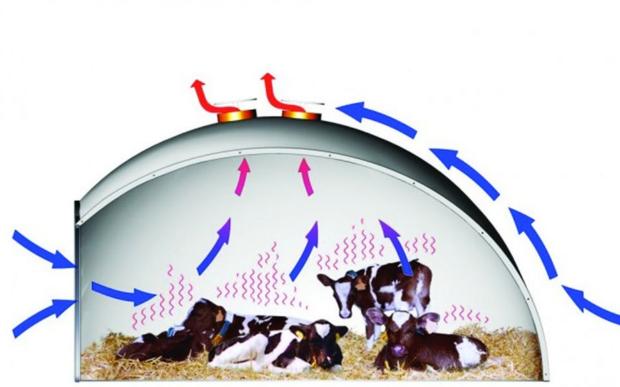




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Ventilation

- Unrestricted airflow
- Minimise disease incidence
- Choice of Igloo or bedded pen
- Individual pens solid sides/covers





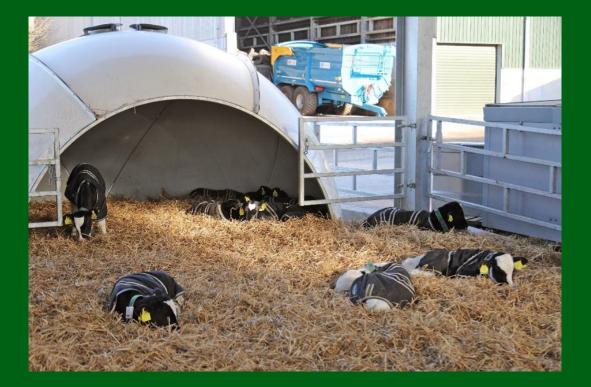




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Choice of Environment





- Draught prevention more important than temperature
- Choice of Igloo or bedded pen
- End individual pens can be turned through 90° facing away from the wind
- Deep straw bedding
- Calf jackets







Calf Jackets





Department of Agriculture, Environment and Rural Affairs

- AFBI, Teagasc & AHDB research
- Skin temperature + 6 °C higher
- Jacket cleaning

Calf Housing	*Mean Temp (°C)
loo	10.2
loo bedded pen	7.9
utomatic calf feeder pe	ens 9.4
dividual calf pens	10.7

*CAFRE, 2017

Drainage





- Dampness increases air humidity
- Humidity supports pathogen survival
- Humidity reduces calf cold tolerance
- Good calf house drainage essential





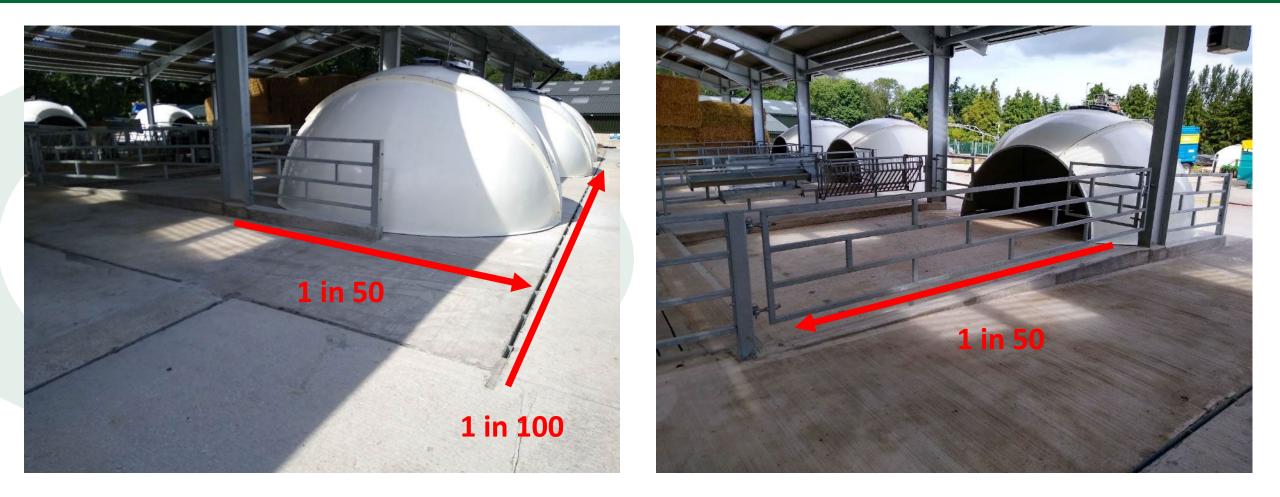














Cleaning & Disinfection



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- All calves individual pen first 7 days
- Cleaned and disinfected in wash bay
- Calf jackets washed and dried
- Heifer calves Igloo pen weeks 2-10
- Igloo cleaned and disenfected in wash bay
- Each igloo pen used twice per year
- End of season complete calf house cleanout









Labour Efficiency

- Recent labour study in Co Down 18% of time on calf rearing.
- Automatic milk and meal feeders
- Automatic weighing.
- Calf Cloud software
- Milk taxi
- Straw storage beside bedded pens









Labour Efficiency

- Planning for TB incidence.
- Future proof the calf rearing facility.
- Flexibility to manage increased calf numbers







