**Reference Indicators for Buildings**

|  |  |
| --- | --- |
| **Key Point** | **Reference value** |
| Floor slope drainage | 1 in 20 |
| Minimum cubic airspace – calf < 6 weeks | 6m³ |
| Minimum cubic airspace - calf < 12 weeks (up to 100kg) | 10m³ |
| Minimum cubic air space – fattening cattle (150-250kg) | 12-18m³ |
| Minimum cubic air space – beef suckler herd | 28m³ per cow and calf |
| Minimum cubic air space – dairy cow | 28m³ per cow |
| Maximum number of calves per airspace | 60 |
| Mixing of age groups | Never. All in – all out. |

**Ventilation**

|  |  |
| --- | --- |
| **Monopitch building** |  |
| Inlet/outlet at high end of building | 0.25m² per calf |
| Buildings > 9m wide | Need inlets at low end of building |
| **Pitched roof building** |  |
| Minimum inlet | 0.05m² per calf/ 0.12m² per cow |
| Minimum outlet | 0.04m² per calf/ 0.08m² per cow |

**Stocking Density**

|  |  |
| --- | --- |
| **Minimum requirements for adult dairy cattle** | **Reference value** |
| Straw bedded area | 6m² per cow |
| Standing area | 2m² per cow |
| Bedding for straw yard | 1 ton per 40-80 cows per day |
| Time between mucking out | Max 4 weeks |
| Feed trough frontage | 0.8m per cow |
| Water trough frontage | 0.1m per cow (1 trough per 20) |

|  |  |  |
| --- | --- | --- |
| **Minimum requirements for young-stock** | **Floor area** | **Air space** |
| 100kg (3 months) | 1.5m² | 10m³ |
| 200kg (5 months) | 3.0m² | 12.5m³ |
| 300kg (7 months) | 3.5m² | 15m³ |

**Cubicle Dimensions**

* **Holstein**
  + 10% extra cubicles (1.1 cubicles per cow).
  + 8’ long. (2.4m)
  + 3’ 9” wide. (1.2m)
  + 5” heel step. (12.7cm)
* **Young-stock**

|  |  |  |
| --- | --- | --- |
| Age in months | Length | Distance centre-centre |
| 2-6 | 1.6m (5’2”) | 65-80cm (2’1” – 2’6”) |
| 6-12 | 1.8m (5’9”) | 80-90cm (2’1” – 3’) |
| 10-18 | 1.95-2.1 (6’4” - 6’9”) | 90-100cm (3’ – 3’3”) |

**Footbath Dimensions**

* **Length**; 3m-3.7m.
* **Width**; 0.5-0.6m.
* 28cm step in.