

Cubicle House Design Fact Sheet

4/2020

Aim to have 6 pasture freedoms indoors (feed, water, light, air, rest and space).

Cubicle passageways

- 3m between two rows of cubicles (2.74m maybe adequate for a 3 bay house)
- 4m alongside a feed barrier
- 4.3m alongside a feed barrier if cows also backing out of cubicles
- 4.6m alongside a feed barrier if passageway also used as entry to collecting yard
- 6m+ alongside a feed barrier if passageway also used as a collecting yard

In head to head cubicles it is a good idea to have a 'cap' of concrete between the two mats/mattresses (between bricket boards) to facilitate cleaning out.

Flexible band 1m high in middle of a double row to discourage walk through

A rounded bricket board 6 to 10cm above the lying surface is recommended.

Mats need to be soft ('give' without compressing completely), non-slip, non-absorbent and durable (ability to recover shape after repeated use or compression over many years).

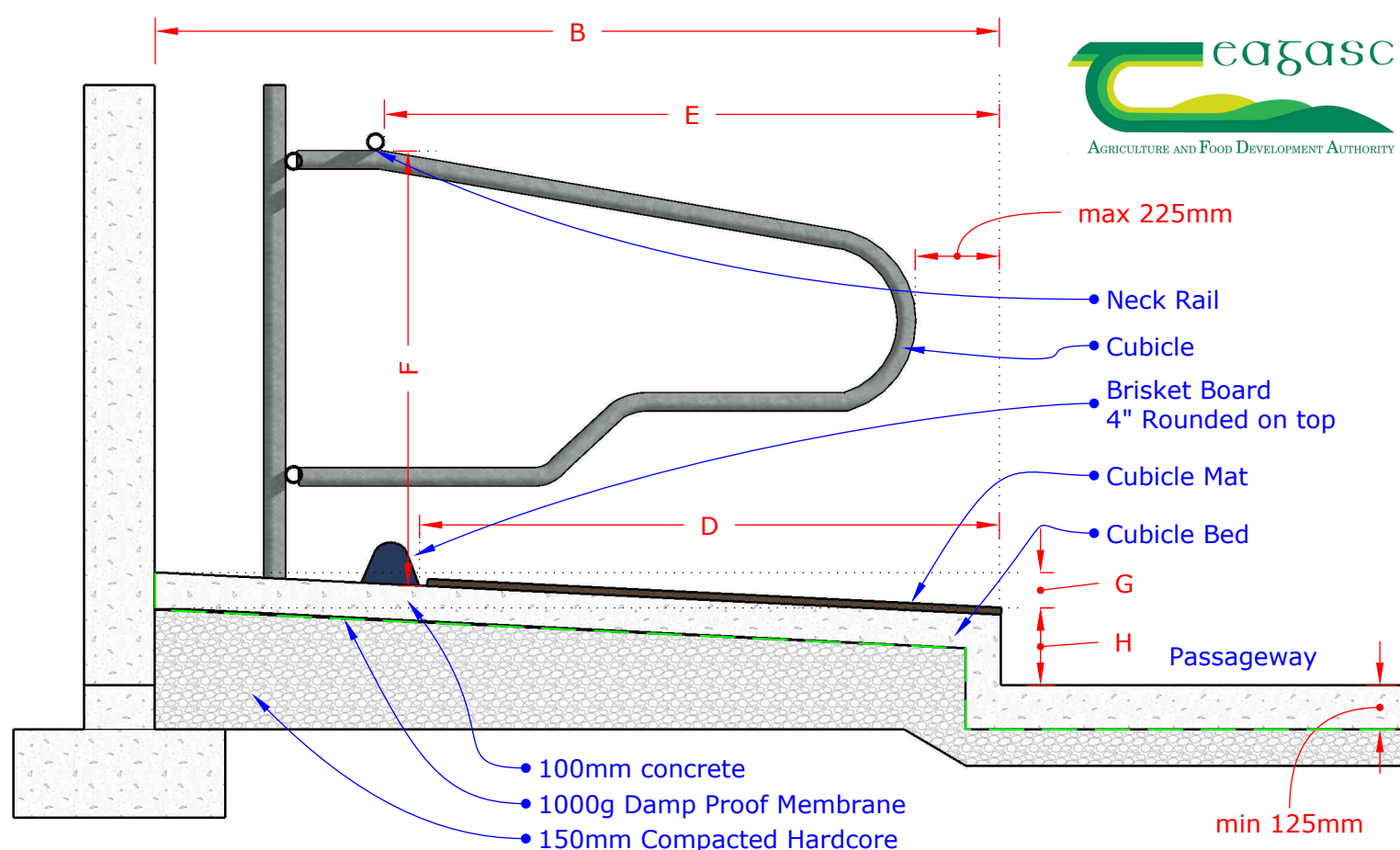


Table 1 Features and dimensions of cow cubicles (metres) (dimension for 540kg, 580kg & 650kg Cow)

A	Cubicle width (centre to centre)	1.17m +/-0.025 (1.25m if alongside a wall)
B	Cubicle length against a wall	2.4m (540 kg), 2.6m (580 kg), 2.79m (650 kg)
C	Cubicle length (no wall in front)	2.21m (540 kg), 2.4m (580 kg), 2.54m (650 kg)
D	Bricket board from rear kerb	1.65m (540kg), 1.68m (580kg), 1.78m (650 kg)
E	Neck rail from rear kerb (measured horizontally)	1.75m* (540kg), 1.78m* (580kg), 1.88m* (650 kg)
F	Height of neck rail	1.25m +
G	Cubicle bed rise (slope)	100-125mm
H	Bed height above passage floor	0.2m including mat (approximately 0.175m without mat)

* Can be 0.1m less (i.e. 540kg between 1.65-1.75m etc.)

See 'Cubicle Design for Dairy Cows' on youtube.
<https://youtu.be/QOrfMi-PmOc>

