Corrigendum to “Do International Commission of Agricultural and Biosystems Engineering (CIGR) dimension recommendations for loose housing of cows improve animal welfare?” (J. Dairy Sci. 102:10235–10246)

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On page 10240, in Table 2, the formula for cubicle resting length should be $CRL = 1.06 \times \text{cow diagonal length}$ and the formula for neck rail height should be $NRH = 0.8 \text{ to } 0.9 \times \text{cow height}$ (corrections shown in bold). The corrected table is shown below.

The authors regret the errors.

REFERENCES

de Boyer des Roches, A., R. Lardy, J. Capdeville, L. Mounier, and I. Veissier. 2018. Do International Commission of Agricultural and Biosystems Engineering (CIGR) dimension recommendations for loose housing of cows improve animal welfare? J. Dairy Sci. 102(11):10235–10249. <https://doi.org/10.3168/jds.2018-16154>.

Table 2. International Commission of Agricultural and Biosystems Engineering (CIGR, 2014) recommendations on dimensions for cubicles and self-locking barriers and requirement for each recommendation to be met

Category and measure	Measure	Formula	Recommendation met if ¹
Cubicle			
CW	Cubicle width	$CW = 0.83 \times \text{cow height}$	$OBS \geq CW$
CRL	Cubicle resting length	$CRL = 1.06 \times \text{cow diagonal length}$	$OBS \geq CRL$
CL	Overall cubicle length		
	Cubicles head-to-head, space sharing	$CL1 = 1.06 \times \text{cow diagonal length} + 0.48 \times \text{cow height}$	$OBS \geq CL$
	Non-space-sharing cubicles	$CL2 = 1.06 \times \text{cow diagonal length} + 0.65 \times \text{cow height}$	$OBS \geq CL$
HS	Head space: space allowed for the head of the cow when the cow is lying down	$HS = 0.48 \times \text{cow height}$	No obstacle in the zone
HLS	Head and lunging space: space allowed for the lying cow when lying down and for forward lunging when cow is rising	$HLS = 0.65 \times \text{cow height}$	No obstacle in the zone
NRH	Neck rail height	$NRH = 0.80 \text{ to } 0.90 \times \text{cow height}$	$0.8 \leq OBS \leq 0.9$
NRD	Neck rail distance: horizontal neck rail distance from the curb	$NRD = CRL + 0.10$	$OBS \geq NRD$
Cubicle partition			
i zone	Unobstructed head zone	i zone height = $0.53 \times \text{cow height}$ i zone length = $0.48 \times \text{cow height}$	No obstacle in the zone No obstacle in the zone
ii zone	Unobstructed zone for controlling lying position	ii zone height = $0.3 \times \text{cow height (cm)}$ ii zone length = $0.53 \times \text{cow diagonal length} - 0.24 \times \text{cow height}$	No obstacle in the zone No obstacle in the zone
iii zone	Unobstructed zone for pelvis freedom preventing injury to hips and ribs	iii zone height = $0.45 \times \text{cow height (cm)}$ iii zone length = $0.5 \times CL1 \text{ (cm)}$	No obstacle in the zone No obstacle in the zone
Self-locking barrier			
TRH	Top rail height for barrier	$TRH = 1.05 \times \text{cow height}$	$1.00H \leq OBS \leq 1.10H$
	Top rail height for diagonal and post-and-rail barrier	$TRH = 0.9 \times \text{cow height}$	$0.85H \leq OBS \leq 0.95H$
BRH	Bottom rail height	$BRH = 0.4 \times \text{cow height}$	$0.35H \leq OBS \leq 0.45H$
SWW	Separation wall width	$SWW = 15 \text{ to } 20 \text{ cm}$	$15 \leq OBS \leq 20$
SWH	Separation wall height	$SWH = 0.4 \times \text{cow height}$	$0.35H \leq OBS \leq 0.45H$
HD	Height difference between feeding floor and walking alley	$HD = 15 \text{ to } 20 \text{ cm}$	$15 \leq OBS \leq 20$

¹OBS = observation; H = height.