

# RECOMMENDATIONS PENN STATE UNIVERSITY

## Recommended Freestall Dimensions for Dairy Heifers and Cows

| Animal Size       | Length    |     | Width | Height    |           | L1       |
|-------------------|-----------|-----|-------|-----------|-----------|----------|
|                   | A*        | B   |       | H1        | H2        |          |
| 300 - 400 lbs**   | 46" - 52" | 36" | 30"   | 28" - 32" | 9" - 12"  | 8" - 12" |
| 400 - 700 lbs     | 60" - 69" | 48" | 34"   | 32" - 37" | 9" - 12"  | 8" - 12" |
| 700 - 900 lbs     | 69" - 75" | 52" | 38"   | 37" - 39" | 12" - 18" | 8" - 12" |
| 900 - 1,100 lbs   | 75" - 84" | 58" | 42"   | 39" - 42" | 12" - 18" | 8" - 12" |
| 1,100 - 1,300 lbs | 84" - 90" | 64" | 46"   | 42" - 44" | 12" - 18" | 8" - 12" |
| 1,300 - 1,600 lbs | 90" - 96" | 66" | 48"   | 44" - 48" | 12" - 18" | 8" - 12" |

A - Stall length from alley side of rear curb to stall side of partition support or front

B - Brisket board and / or training rail location from alley side of rear curb

H - Height from rear curb to top of stall partition

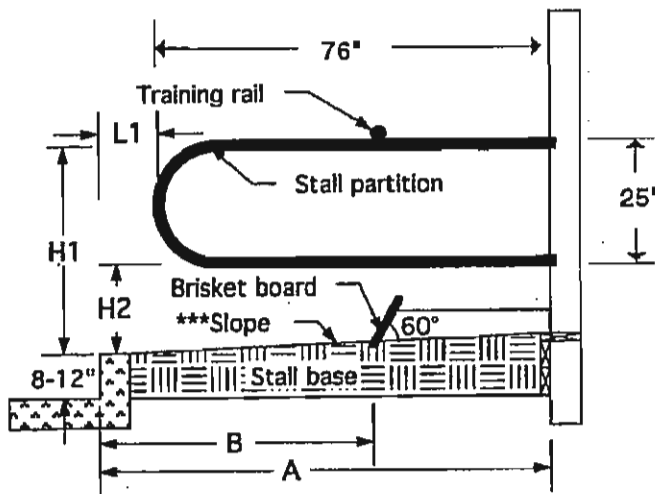
(McFarland, D.F. and M.J. Gamroth, 1994. "Freestall Design with Cow Comfort in Mind". Dairy Systems for the 21<sup>st</sup> Century. Proceedings of the 3<sup>rd</sup> International Dairy Housing Conference. ASAE. pp. 145 - 157)

\*NOTE: Use upper side of range as minimum length when stall front is not open. The lower side of the range may be used if the stall front is open to allow forward lunging.

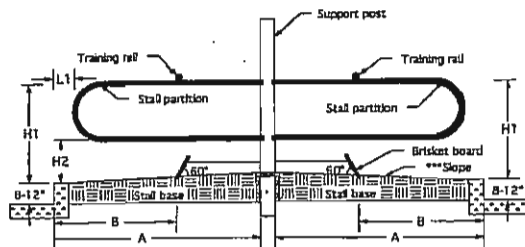
\*\*NOTE: Smaller loops may be needed for these animals.

\*\*\*NOTE: Slope stall base 2 - 6%

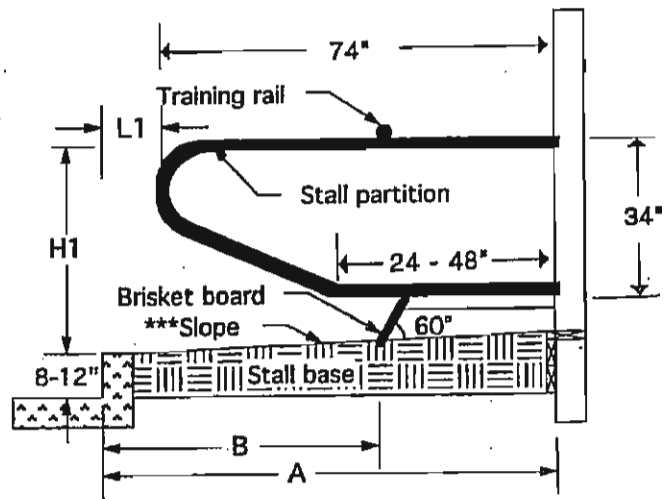
### Standard Loop Freestall Partition



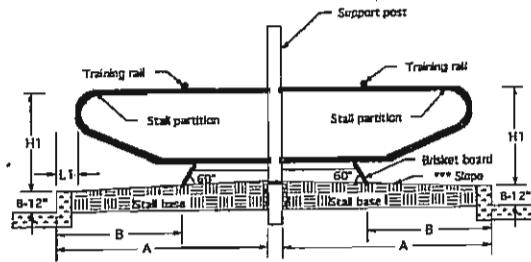
Head to Head Arrangement



### Cantilever-Loop Freestall Partition



Head to Head Arrangement



Note: When ordering please provide following information:

- Preferred style
- Length of desired loop
- Width of desired loop
- Support type loop is to be mounted to

ALL DIFFERENT STYLES AVAILABLE INCLUDING  
Sloped Front Cantilever      Multibend

