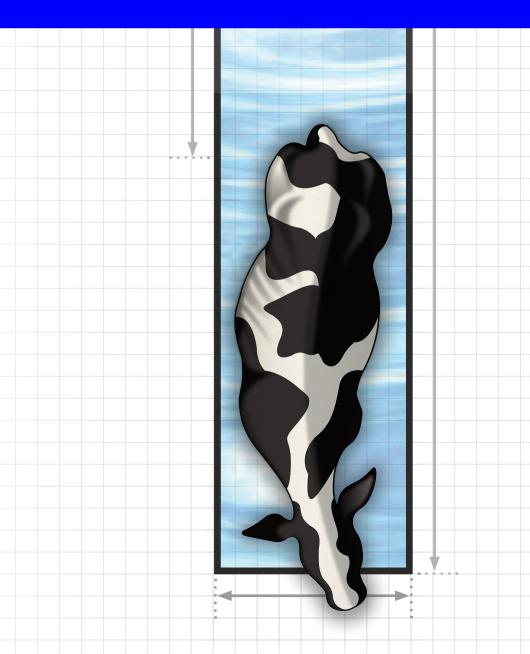


# Creating and Managing **An Effective Footbath**



## Dairy Hygiene Starts With Clean Cows

Many dairy producers rely on footbath programs to help prevent and control chronic infectious claw lesions in their herds. Maximizing the effectiveness of a footbath programme hinges on three key factors:

#### 1 Hygiene

- 2 **Proper design** (size, length and depth)
- **3 Effective management** (chemical concentration, number of cow passes per change and frequency of use).

Footbath regimes are an integral component of infectious foot disease control in confinement dairy systems. The footbath is a simple mechanism for treating large numbers of cattle quickly and efficiently.

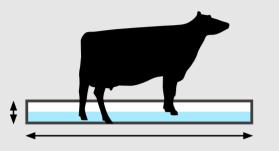
### **Hygiene Scoring**



Use hygiene scoring to help determine ideal footbath frequency.

Proportion of cows with hygiene score 3 and 4	Suggested footbath frequency (minimum)	
< 25%	As required	
25 - 50%	2 days per week	
51 - 75%	5 days per week	
> 75%	7 days per week	

# Design, Location and Management are key to **Footbath Effectiveness**



A footbath system is a simple way to guickly and effectively treat large numbers of cattle, no matter the type of operation. But a footbath system that isn't properly built and managed can actually do more damage than good.

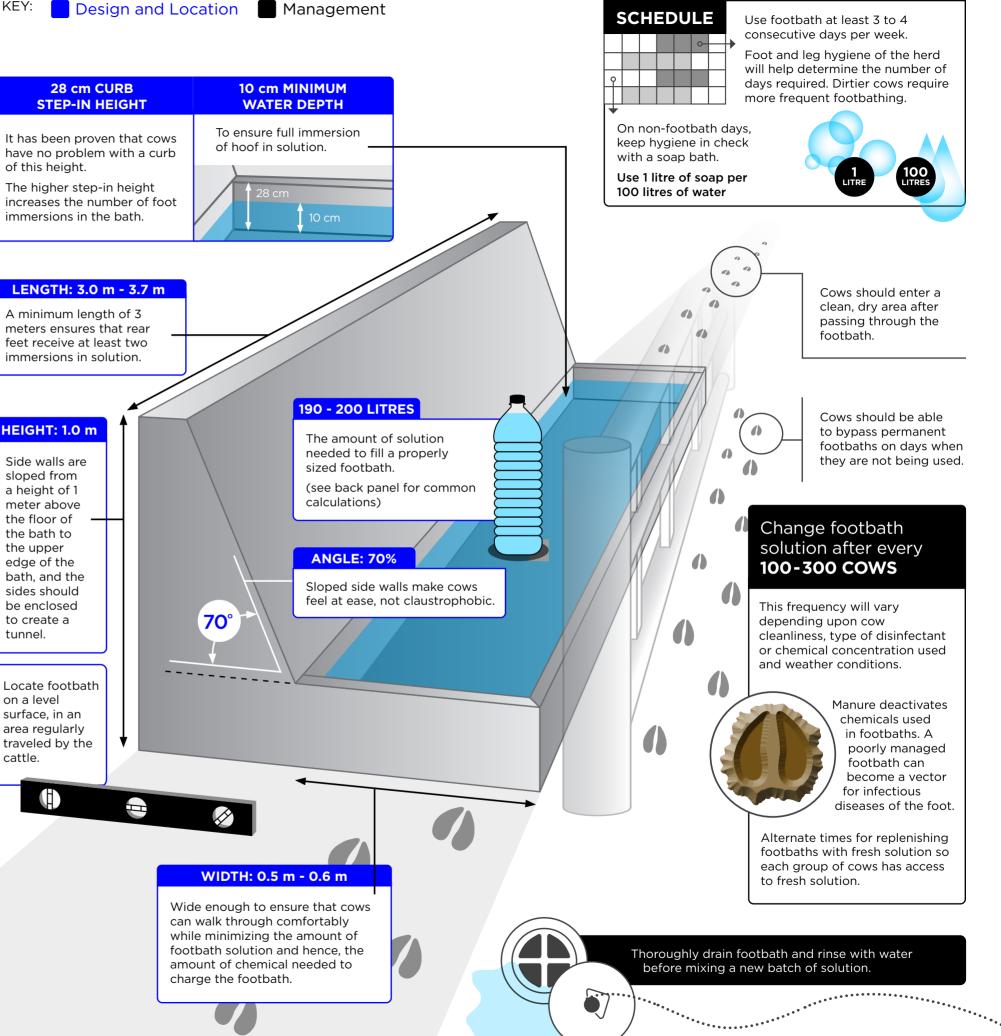
To increase effectiveness of the footbath and minimize injuries to the animals, it's important to follow proper construction guidelines and - once built - to install a system of management practices.



Assess your footbath

The FirstStep® Footbath Assessor, when used in conjunction with hygiene scoring, helps develop a footbath programme for your operation. Make adjustments based on FirstStep recommendations to create a footbath programme that works to optimize your herd performance.

KEY:



Source: Footbath design and use recommendations are adapted from paper published in The Veterinary Journal (Cook, *et al.*, 2012) titled "Observations on the Design and Use of Footbaths for the Control of Infectious Hoof Disease in Dairy Cattle."



#### Calculating Appropriate Footbath Volume

(12 cm solution depth)

Footbath Length (cm)	Footbath Width (cm) 60 cm 100cm	
100 cm	Not recommended <sup>a</sup>	Not recommended <sup>a</sup>
200 cm	Not recommended <sup>a</sup>	Not recommended <sup>a</sup>
300 cm	216 litres	360 litres
400 cm	288 litres	480 litres

<sup>a</sup> Footbath must be at least 300 cm in length to ensure rear feet receive at least two immersions in solution.

#### Calculating Appropriate Quantity of Footbath Chemical/Product to Use

Footbath Volume	Litres (or kg) per Footbath <sup>a</sup>				
(litres)	2%	3%	4%	5%	
200 litres	4	6	8	10	
300 litres	6	9	12	15	
400 litres	8	12	16	20	

<sup>a</sup> Based on recommended chemical/product concentrations.

#### Steps to Achieve the Desired Solution:

#### 1. Determine capacity of a footbath.

Multiply: length (m) x width (m) x depth (m) x 1000 = number of litres

2. Convert litres to kilograms. Number of litres = kg of water

### **3.** Determine kilograms of dry product needed to achieve the desired solution.

Multiply: kg of water x percent solution desired = kg of dry product to add

Disclaimer: The guidelines for use set forth herein are assumed to be accurate based on common knowledge. However, the accuracy and applicability of guidelines for administration are not guaranteed. Zinpro Corporation disclaims any liability, loss, or damage caused by usage or non-usage of any guidelines set forth herein resulting from improper mixing, handling or the labelling accompanying the product, including serious injury and death.



### About FirstStep<sup>®</sup>

The FirstStep® Dairy Hoof Health & Management Program takes the guesswork out of dairy assessments by providing a methodical way to evaluate an overall operation. With FirstStep, you can move from simply managing challenges to proactively planning for and preventing the greatest risk factors within dairy businesses.



For more information: contact your Zinpro representative or visit **zinpro.com/dairy**