

# SILOSTOP

more silage, better silage, less plastic

## Silostop Agri

### Presentation to MGA 28<sup>th</sup> February 2024

### Your Partner in Achieving High Quality Maize Silage & Meeting SSAFO Compliance



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# Your Partner In Your Future



Dairy Farm, East Sussex



Dairy Farm, Kent

# The Water Resources (Control of Pollution) (Silage, Slurry and Agricultural Fuel Oil) (England) Regulations 2010

## “The SSAFO Regulations”

Guidance Notes for Farmers

September 2010

## Key Points From SSAFO Regulations

- The silage clamp system must be impermeable, resistant to corrosion and constructed to meet BS5502 Part 22 1998. It must have a life expectancy of at least 20 years. **Both Ark sloping walls and Bosch Beton sloping walls by Silostop Agri fully comply and have no exposed metal construction parts that inevitably will fail with exposure to leachate and other corrosive elements.**



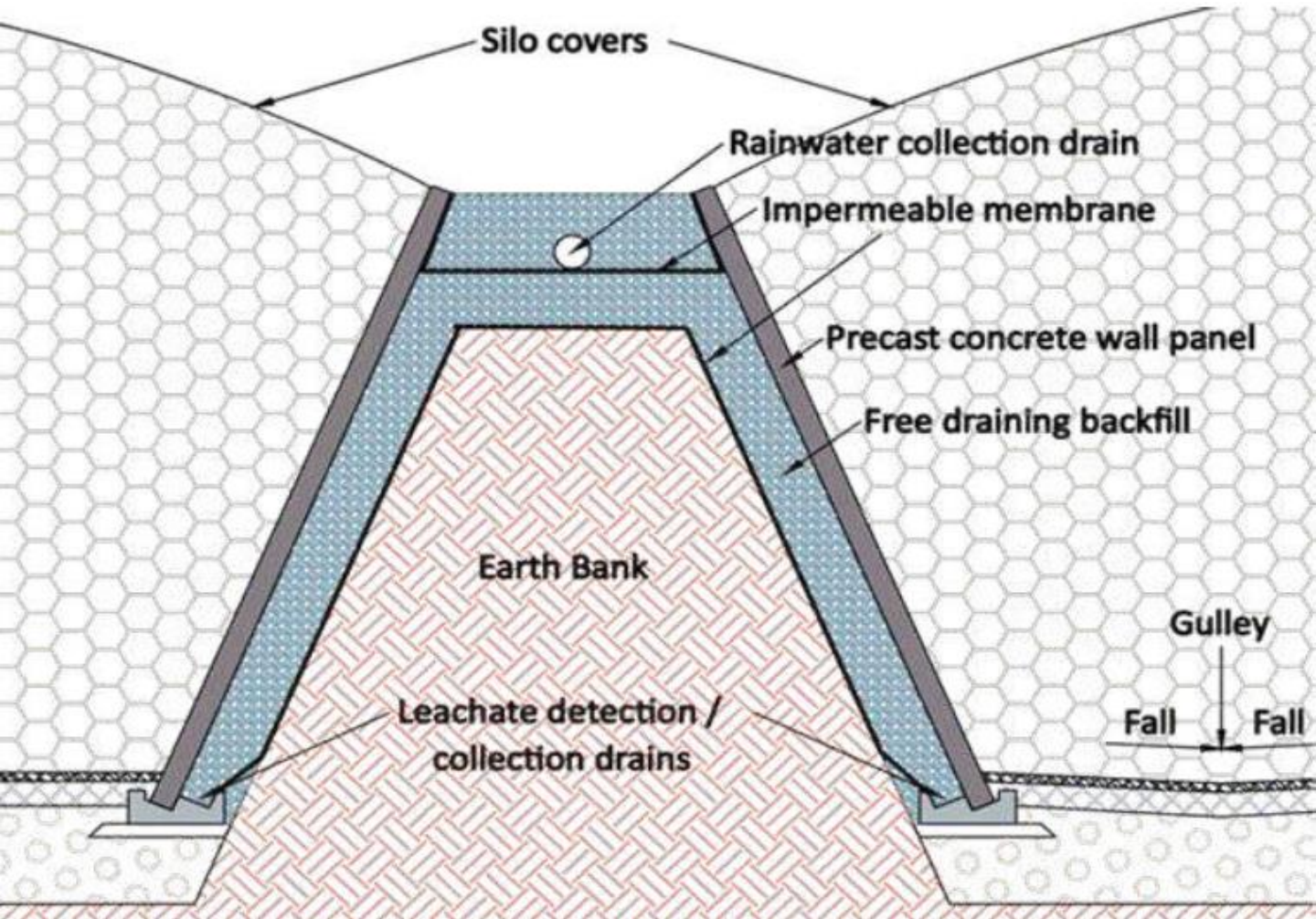
## **Key Points From SSAFO Regulations**

- **Collected leachate should be conveyed to a purpose-built leachate tank and have a life expectancy of 20 years without maintenance. To meet the SSAFO regulations (and form part of the compulsory 14 day prior notification of works to the EA); it is a very straightforward process utilising the Silostop Agri site construction notes, a layout plan outlining drainage and leachate tank position. Nothing further should be required.**

## **Key Points From SSAFO Regulations**

- The base must have drainage channel collection channels around the outside. **ARK sloping panels and Bosch Beton vertical wall L-panels have an integrated drainage channel in a seating channel and rear lip respectively. The Patented seating channel design has been an integral design element approved by the Environment Agency**

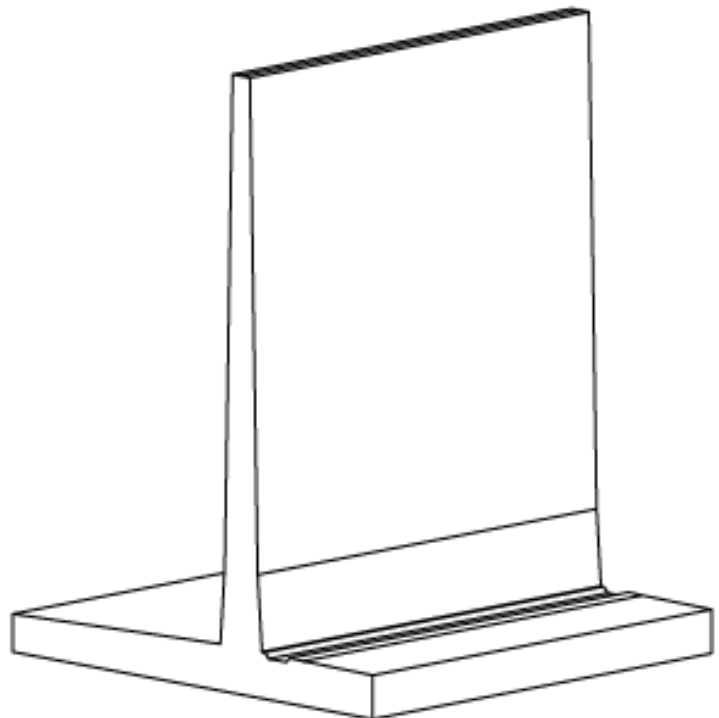
# Ark Sloping Wall Concept



## Ark Vertical Wall Concept

- The LA-Retaining walls, with the specially designed heel on the back of the wall to give it maximum stability and safety, has been developed for agricultural applications.
- The foot side is the internal, load-bearing side, where it is possible to ensile up to the rim using heavy shovels or tractors
- LA-Walls come with 40cm of reinforcement at the base to mitigate impact from shovels or tractors
- The rounded corners protect the silage film from slipping or being damaged

3D view



# Best practice for the building of your silage clamp:

1

**Face the front away from wind and sun**

2

**Angle your clamp at a slight slope of 1 – 2% to avoid water build-up**

3

**Plan for sufficient advancements of the silo front:  
10cm/day (winter)  
20cm/day (summer)**

4

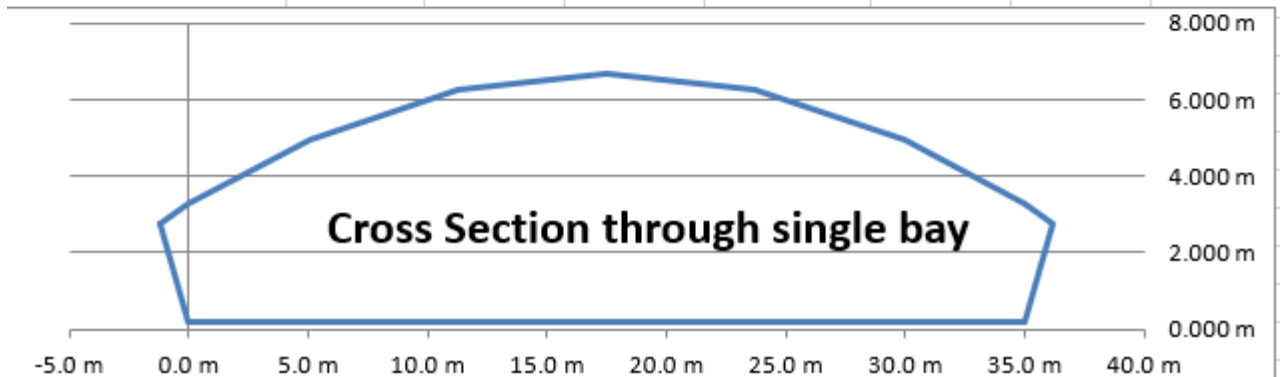
**Adjust length, width and height according to the ratio of cattle on farm**



**An example of great quality silage using our 4 simple steps to ensure minimal wastage and good storage.**

# Capacity Calculations for Welsh Dairy Farm

<b>Client:</b>	Dairy Farm						<b>Est No:</b>
<b>Site Address:</b>	Wales						
<b>Option:</b>	Open Ended Clamp						
Bay Dimensions	No of Bays	Bay Width	Bay Length	Surcharge Height	Wall Angle	Wall Panel	Version v9
	1 No.	35.0 m	60.0 m	3.90 m	23.0 °	3.0 m	
Bank Dimensions	Min Width (Top)	External Bank Slope	External Bank Angle	External Bank Width	Internal Bank Width	Silo Floor base thickness	
	1.40 m	1 :1.5	33.7 °	7.00 m	4.00 m	0.18 m	
<b>Clamp Use</b>	<b>Cattle</b>						
Stored Material	Maize						Density = 0.800 T/m <sup>3</sup>
	Capacity each Bay =	9,932 m <sup>3</sup>	@ 0.800 T/m <sup>3</sup> =	7,946 T			
	Total Capacity 1 Bays =	9,932 m <sup>3</sup>	@ 0.800 T/m <sup>3</sup> =	7,946 T			
	Exposed face Area =	189 m <sup>2</sup>	Feed out Time	180 Days			
	Max Height =	6.48 m	Weekly Feedout	2.04 m			
	Gross Clamp Area = 49m x 60m =	2,940 m <sup>2</sup>	Width of Clamps =	49 m			
	Net Floor Area = 1 x 60m x 35m =	2,100 m <sup>2</sup>	Length of Clamps =	60 m			



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- Long Term Financial Benefits
- Optimum Silage Quality
- Long Life Panels



# Contact Details

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Thank you for your time.



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