

# Construct a **bunker silo**

The design of a silage bunker is very important if you want to produce proper silage. Silage is the end product of the fermentation of a high moisture crop. A wide selection of crops can be harvested as silage. Silage is better suited as an ingredient in total mixed rations.

## Site selection

- **Drainage:** Select an elevated location that allows rainwater to drain from the site.
- **Ground water:** Construct the bunker at least 60 m away and above existing wells.
- **Feeding:** Locate the bunker as close to the feeding system as possible. Remember that you will have to move the silage to the cattle.

## Site preparation

- Make sure that the surface is well prepared for vehicles.
- Concrete makes the best all-weather traffic surface, while asphalt is the next best alternative.
- Slope concrete floors 25 mm per 2,5 m for drainage of water and silage moisture.
- Use a 2% to 5% surface slope to drain runoff away from the bunker.
- Collect runoff in a storage basin for later disposal.

## Design criteria

- **Face removal rate:** A minimum amount of silage must be removed from the silo face each day to keep ahead of spoilage in warm weather. Design the bunker to remove at least 200 mm per day. In larger operations, design the bunker for a 300 mm removal per day.
- **Bunker width:** The minimum width is determined by the packing-tractor width. Determine the minimum width by multiplying the packing tractor width by two. If using a 2,5 m wide tractor, the minimum bunker width is 5 m for full coverage of the silage while packing.
- **Bunker height:** The maximum height is usually limited by cost. In some cases, it can be limited by the maximum safe vertical reach of the silage unloading equipment.
- **Bunker length:** Length is usually determined by the quantity of forage that must be stored.

If you need more information on the construction of a silage bunker, call Rykie Visser at 082 596 8416, or e-mail him at [rykiev@agrinet.co.za](mailto:rykiev@agrinet.co.za).

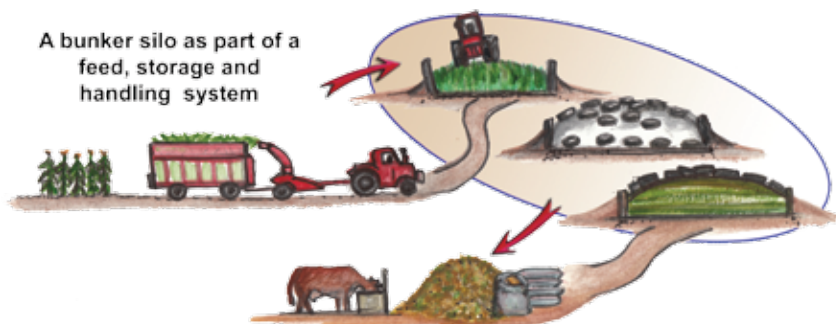
# Construct a **bunker silo**

**Site:** Sloped to allow rainwater and silage moisture to drain runoff away. Close to feeding system. Easy access for trucks, tractors and other equipment. **Important:** At least 60 m away from a borehole or well.

**Floor:** Concrete or asphalt.

**Height:** Safe for unloading equipment. **Width:** At least 5 m wide for full coverage by packing tractor. **Length:** Determined by the quantity of forage that must be stored.

**Usage:** Mix silage into the feed for your livestock every day.



## Bou 'n kuilvoerbunker

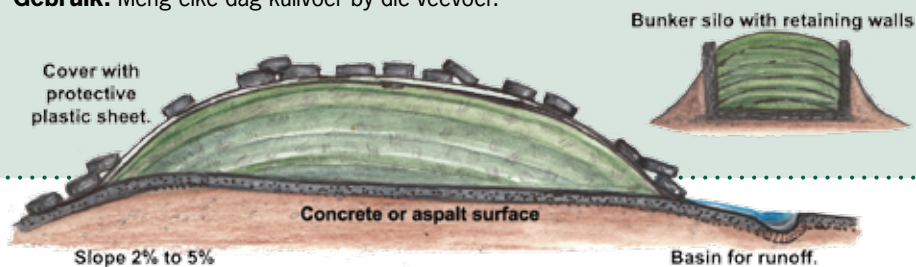
**Terrein:** Teen 'n heuwel om reënwater en kuilvoervog te laat wegvloei. Naby voedselstelsel. Maklike toegang vir vragmotors, trekkers en ander implemente.

**Belangrik:** Moet minstens 60 m van boorgat of put wees.

**Vloer:** Beton of asfalt.

**Hoogte:** Veilig om toerusting af te laai. **Wydte:** Minstens 5 m wyd sodat trekker dit behoorlik kan vastrap. **Lengte:** Vastgestel deur die hoeveelheid voer wat geberg moet word.

**Gebruik:** Meng elke dag kuilvoer by die veevoer.



## Ukwakha i-bunker silo

**Indawo:** yenziwe yehlela ukuvumela amanzi emvula kanye nokudla okuluhlaza ukuthola umhnamuko ukomisa indawo eyehlelayo kalula. Iseduzane nohlelo lokupha izilwane ukudla.

Ifinyelelwe kalula izingolovane, ogandaganda kanye nezinye izikhali. **Okusemqoka:** **Okungenani ama-60 m ukusuka egodini ombelwe amanzi noma umgodi ongumthombo wamanzi.**

**Indawo ephansi:** ukhonkolo noma i-asfalt.

**Ubujijane:** iphephile ekwehliseni izikhali. **Ububanzi:** Okungenani ububanzi obungama-5m ukuze bengamelwe ngokuphelele wugandaganda wokupakisha. **Ubude:** butholakala ngobuningi bokudla kwemfuyo (ifoliji) okumele igcinwe.

**Ukusetshenziswa:** hlanganisa ukudla okuluhlaza ngaphakathi kokudla kwemfuyo yakho nsuku zonke.

## Yakha isigingqi sesisele sefula

**Indawo:** ethambekileyo ukuze amanzi emvula kunye nomfumo wefula yesisele zikhuphele ngaphandle. Kufutshane nendawo yokondla. Ufikelelo olulula kwiilori kunye nezinye izixhobo.

**Okubalulekileyo:** **Okungenani kude ngeemitha ezingama-60 kumngxuma wesitsala-manzi okanye iqula.**

**Umgangatho:** isamente okanye i-asfalt.

**Ubude:** kukhuselekile ekothuleni izixhobo. **Ububanzi:** Okungenani ububanzi beemitha ezi-5 ukuze kungene itelelele epakishayo.

**Ubude:** bumiselwa bubungakanani befula ekufuneka ligcinwe.

**Ukusetyenziswa:** xuba ifula yesisele ekutyeni kwemfuyo yakho yonke imihla.

## Ho haha modiko

**Setsha:** O be motheong e le ho dumella metsi a pula le silaji e mongobo ho phalla. O be haufi le moo diphoofolo di jelang. Ho be bonolo hore kganna diteraka, diterkere le disebediswa tse ding ho sona. **Taba ya bohlokwa: O be 60m bonyane ho toha sedibeng se borilweng kapa sediba.**

**Fuluru:** E be konkreiti kapa aspalte.

**Bophahamo:** Modiko e be o bolokehileng ho laolla disebediswa. **Bophara:** O be 5m bonyane ka bophara bakeng sa terekere e pakang. **Bolelele:** ho tla itshetleha ka boleng ba furu e bolokwang moo.

**Tshebediso:** tswaka silaji le dijo tsa diphoofolo tsa hao letsatsi le letsatsi. 