



Food and Agriculture  
Organization of the  
United Nations



МИНИСТАРСТВО  
ПОЉОПРИВРЕДЕ, ШУМАРСТВА  
И ВОДОПРИВРЕДЕ

Овај пројекат финансира  
Европска унија



#ЕУ  
ЗА ТЕБЕ

Пројекат:

Јачање отпорности сектора пољопривреде на елементарне непогоде

**Поступци са стајњаком**

**Примери добре пољопривредне праксе**

**Проф. др Душан Радивојевић**

[r08dusan@gmail.com](mailto:r08dusan@gmail.com)

[rdusan@agrif.bg.ac.rs](mailto:rdusan@agrif.bg.ac.rs)

065/6347 552

**Ваљево**

**Октобар. 2024. године**

# VRSTE STAJNJAKA

## TEČNI STAJNJAK

Suspenzija obe faze izlučevina sadrži:

- 5% SM kod svinja
- 7-9% SM kod goveda.

## ČVRSTI STAJNJAK

Obe faze izlučevina sa prostirkom sadrži

- 25% SM
- 5 - 8 kg slame/grlo/dan
- 1kg slame : 4 lečne faze

# Količine tečnog stajnjaka

## Goveda m<sup>3</sup>/UG

Dnevna količina 55 lit/UG

Odnos faza

Čvrsta : tečna = 3:2

## Svinje m<sup>3</sup>/UG

Dnevna količina 40 lit/UG

Odnos faza

Čvrsta : tečna = 2:3

## Uticaj sadržaja suve materije na sastav tečnog stajnjaka

Suva materija (%)	N (kg/m <sup>3</sup> )	P <sub>2</sub> O <sub>5</sub> (kg/m <sup>3</sup> )	K <sub>2</sub> O (kg/m <sup>3</sup> )	MgO (kg/m <sup>3</sup> )	CaO (kg/m <sup>3</sup> )
7	6,0	3,2	3,2	1,0	3,0
5	4,0	2,0	2,0	0,7	1,6
3	2,9	1,9	1,7	0,6	1,8
1	0,8	0,6	0,5	0,2	0,5

# Uslovi za formiranje tečnog stajnjaka: kanali, rešetkasti podovi...

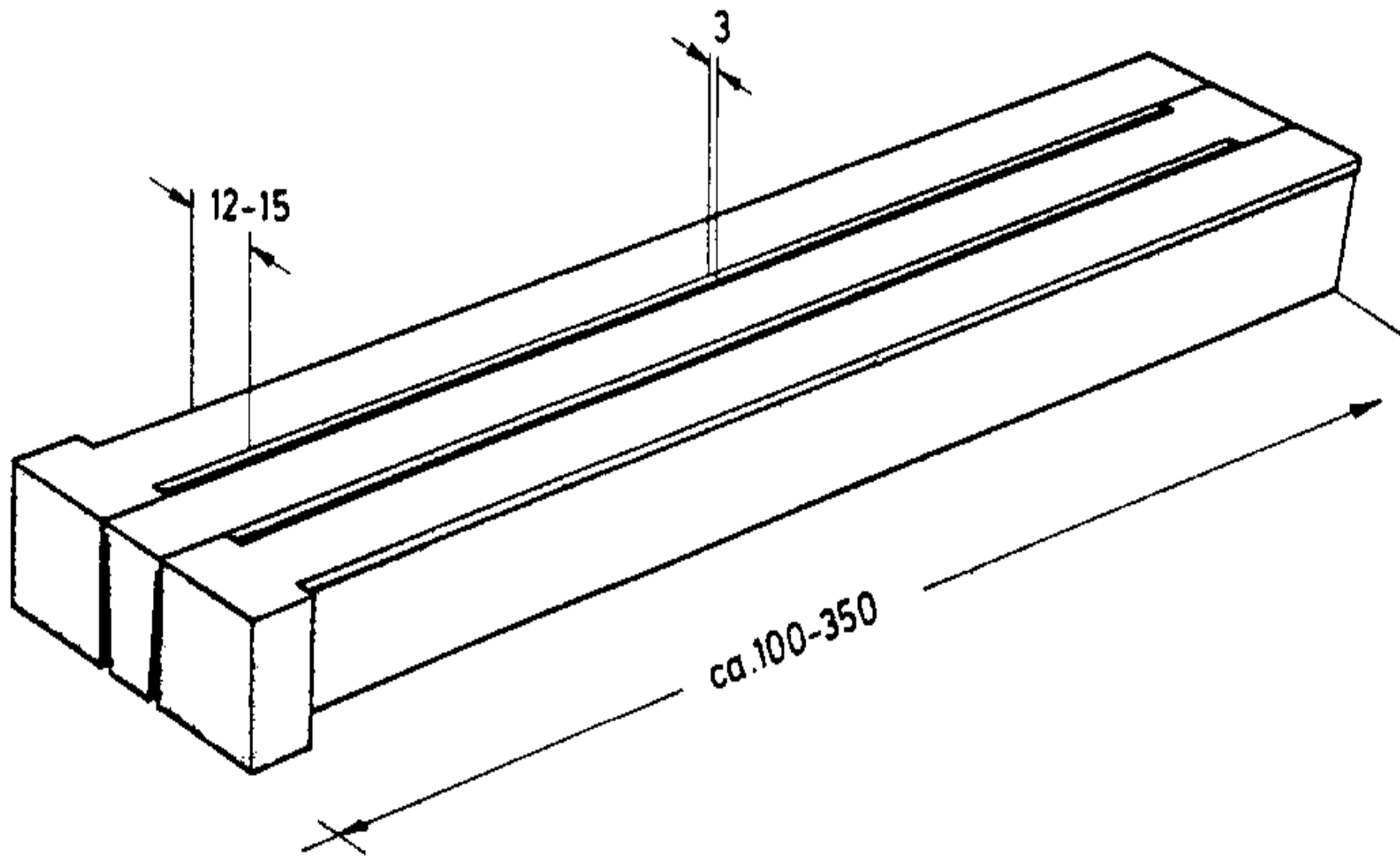


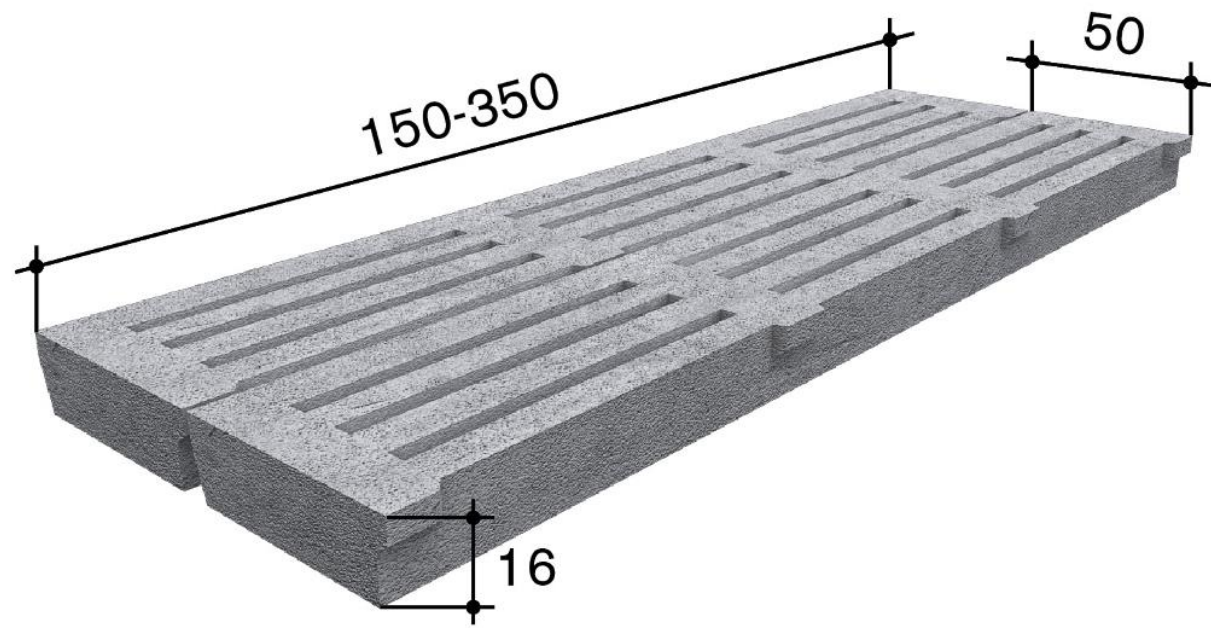




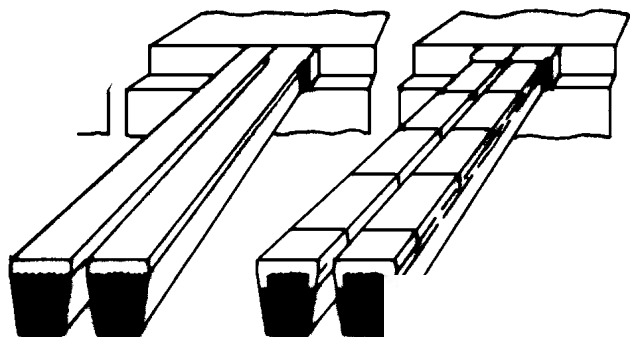
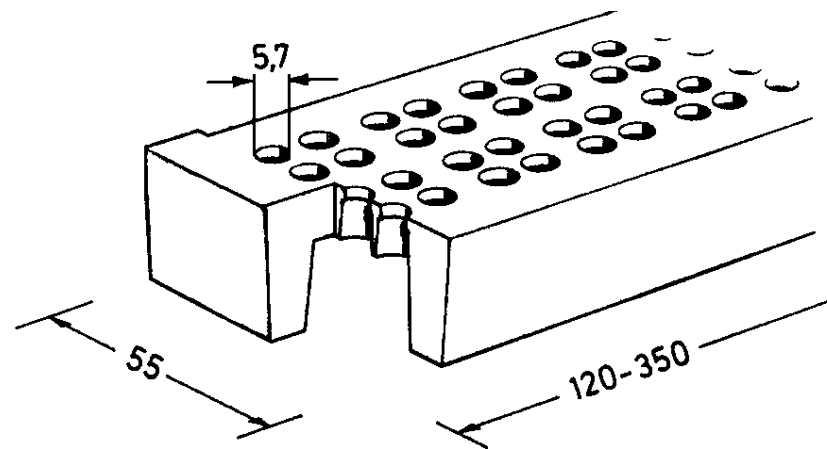
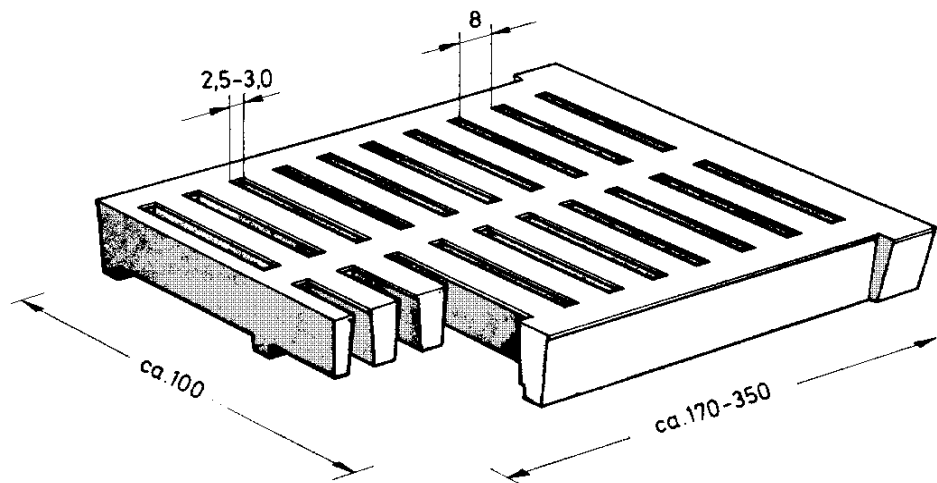


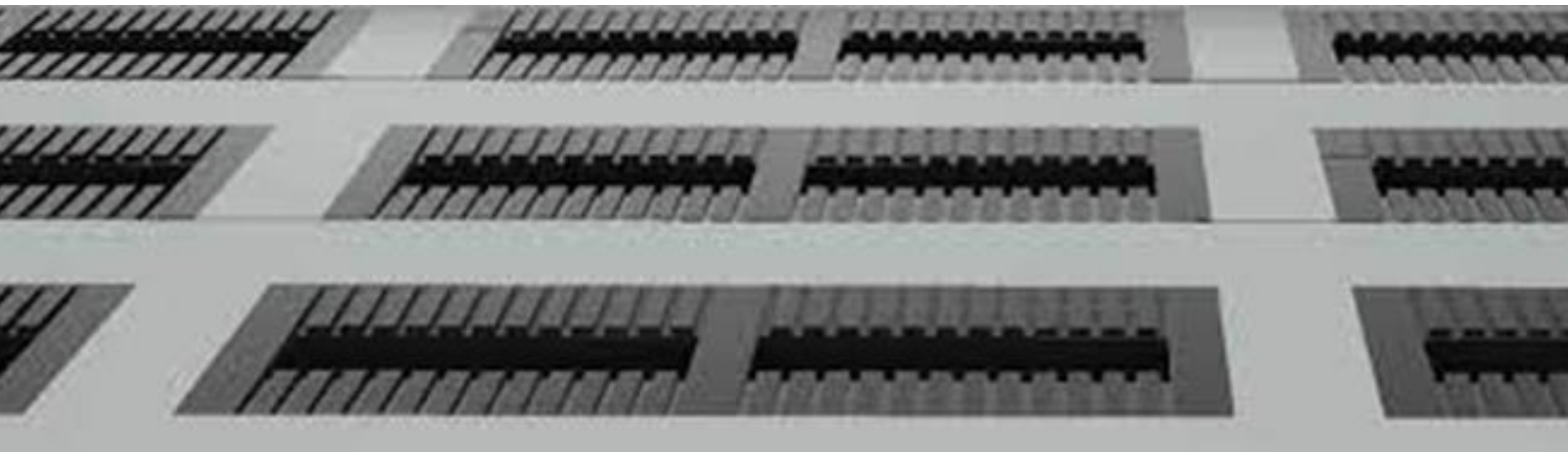


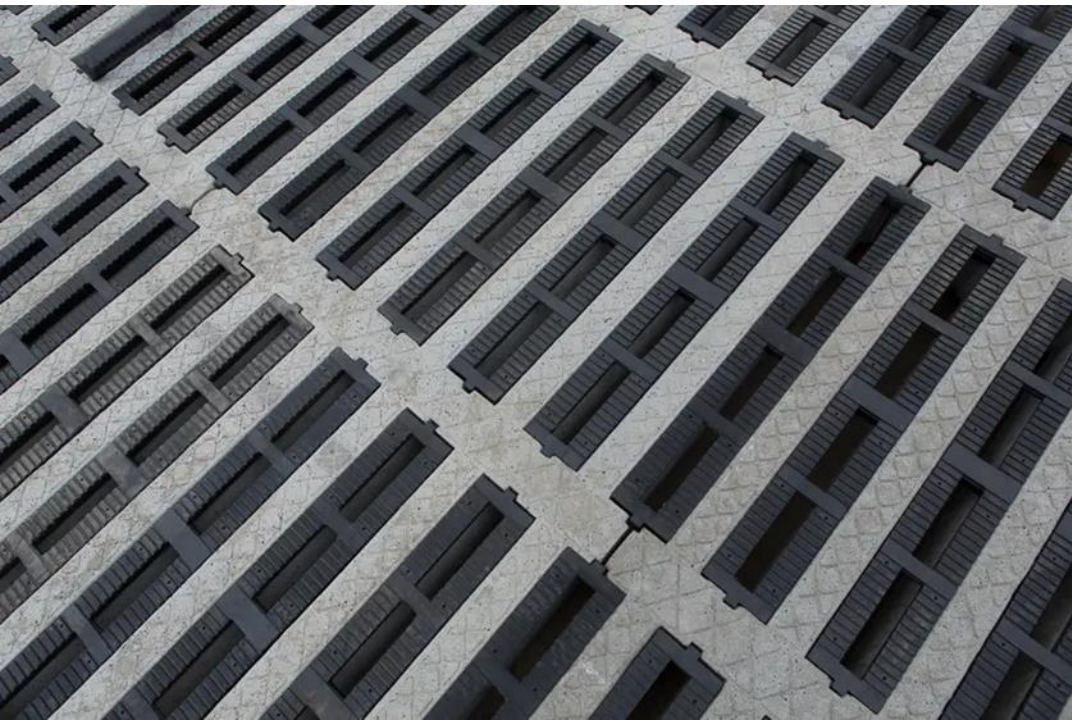












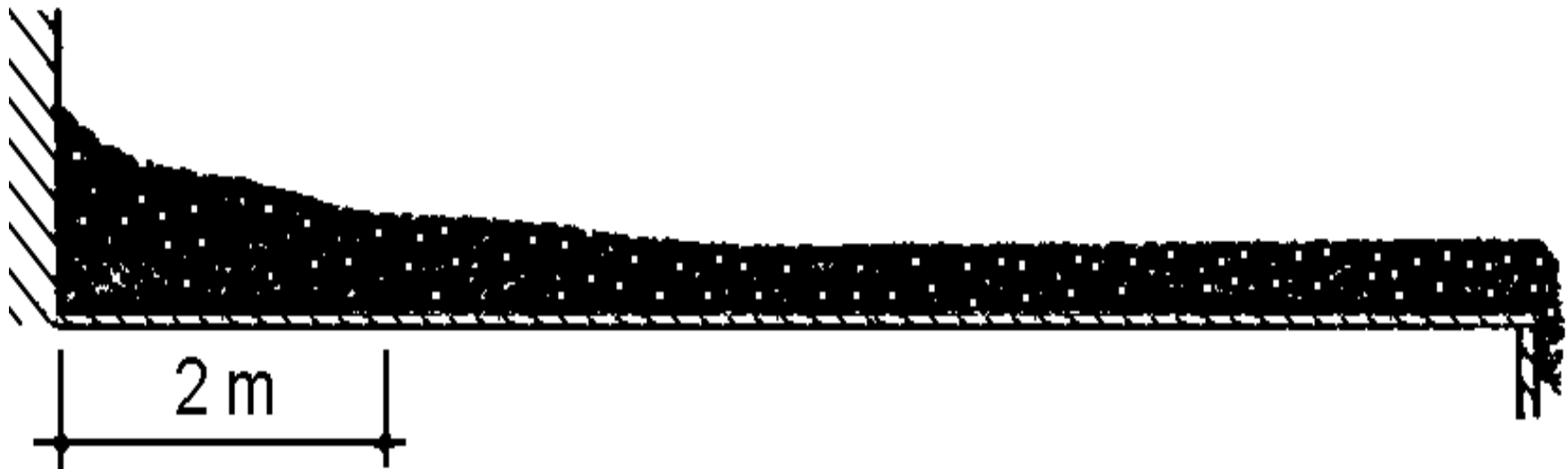


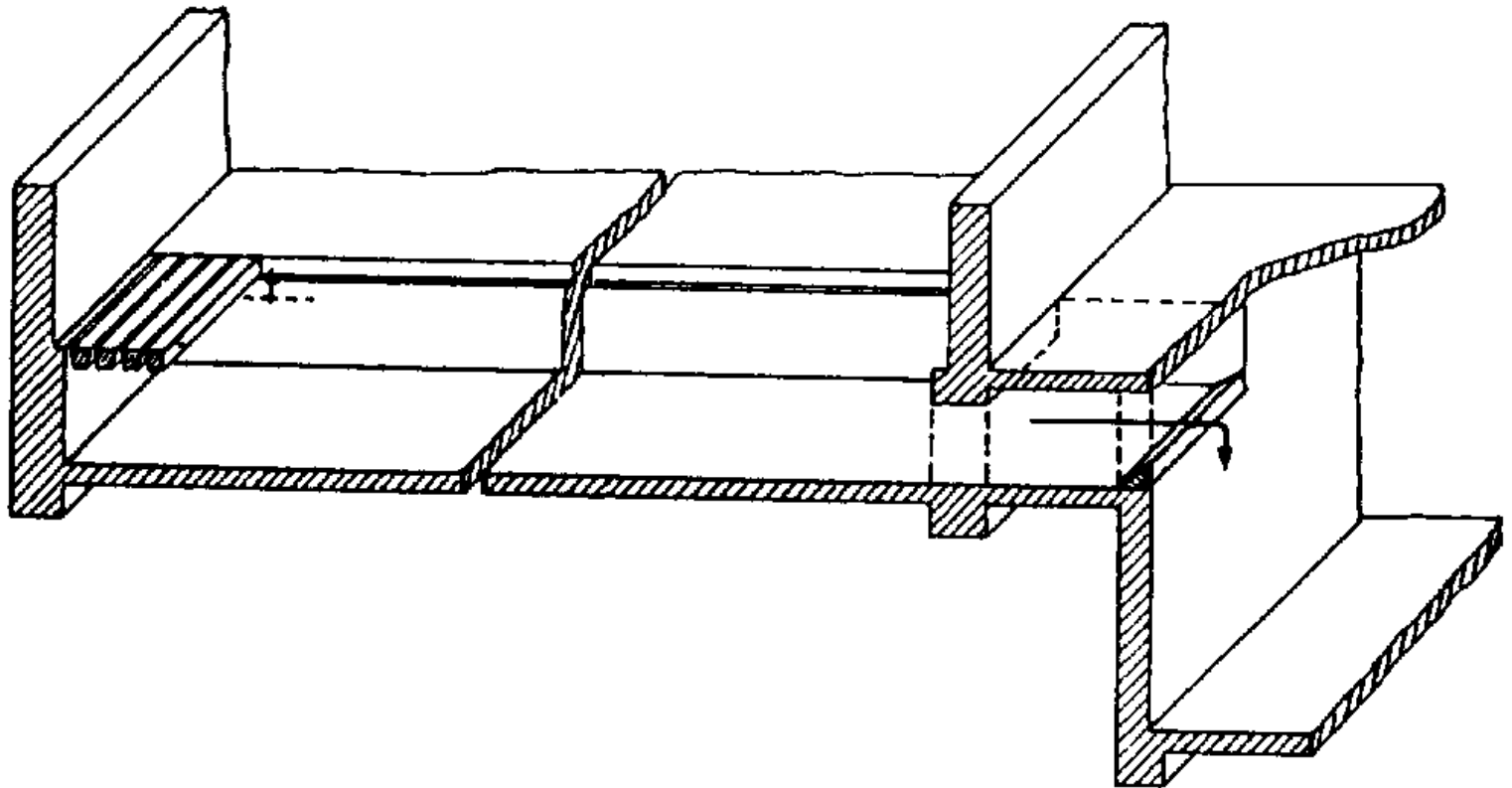
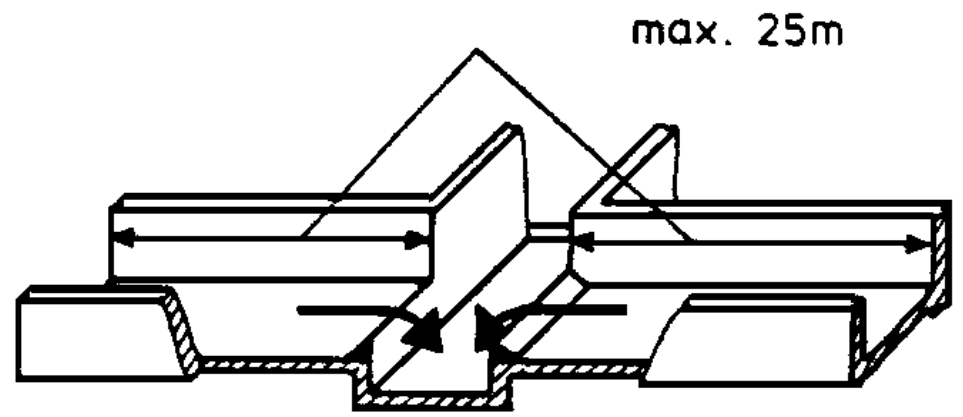
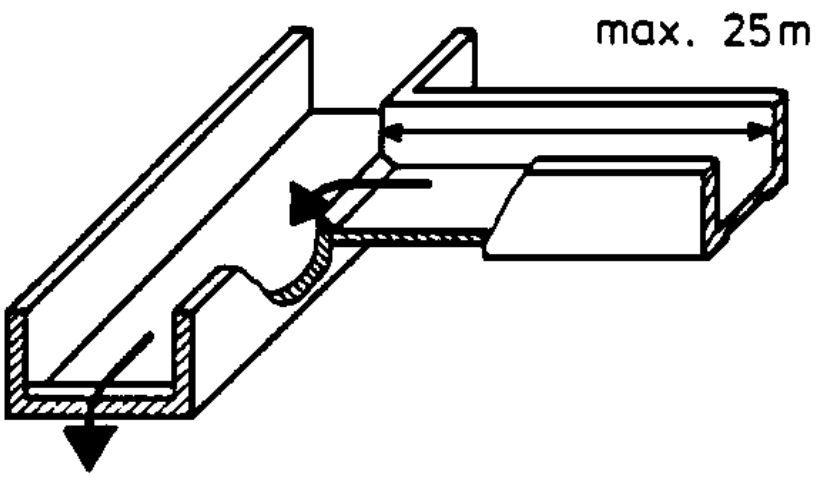


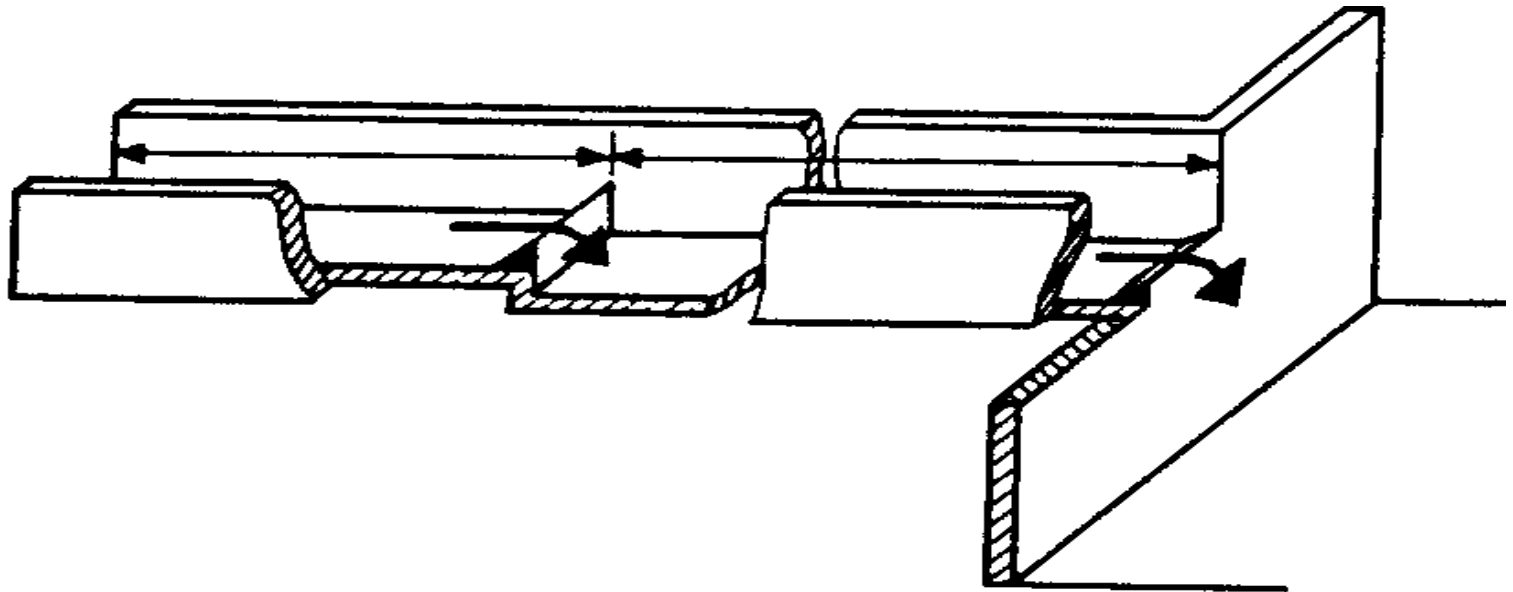
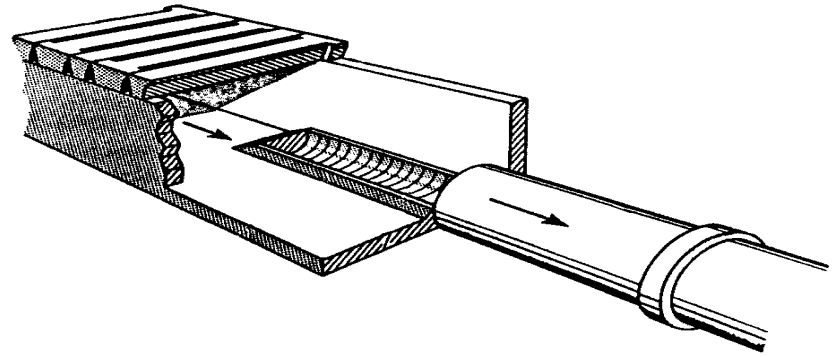
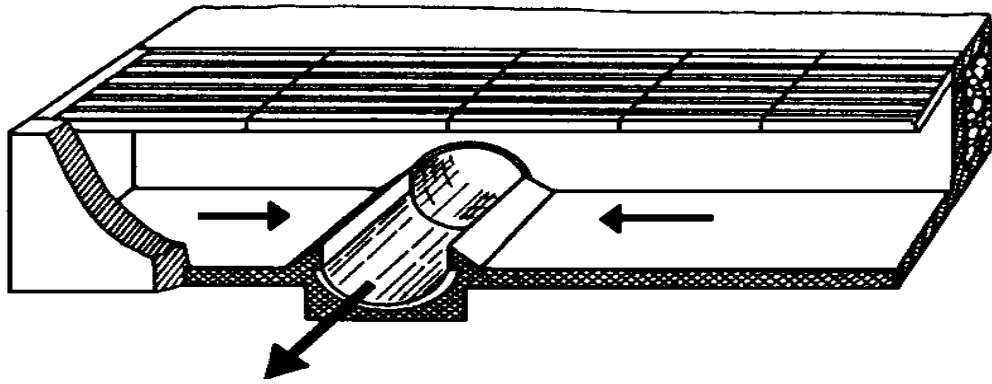


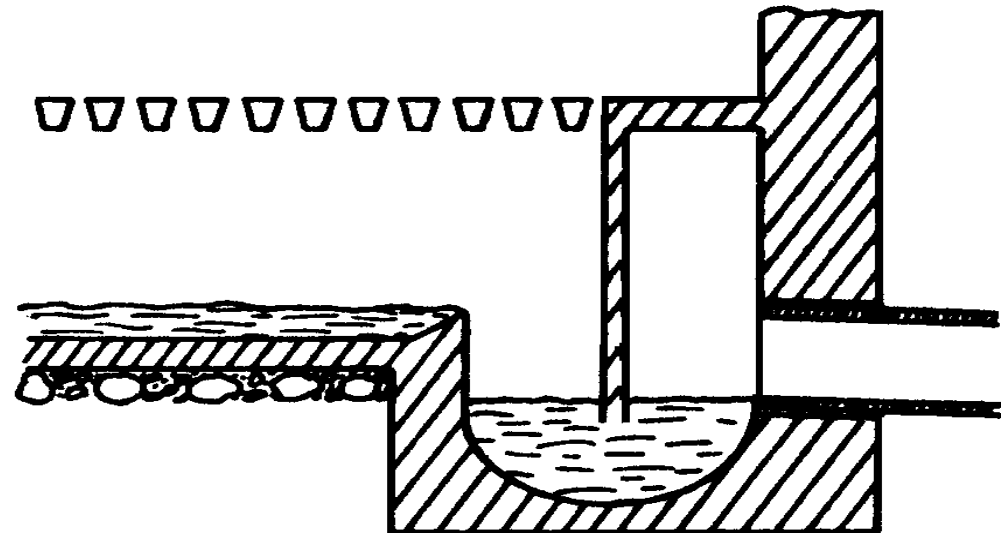
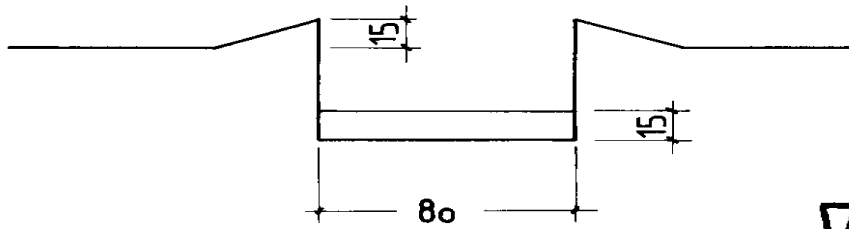
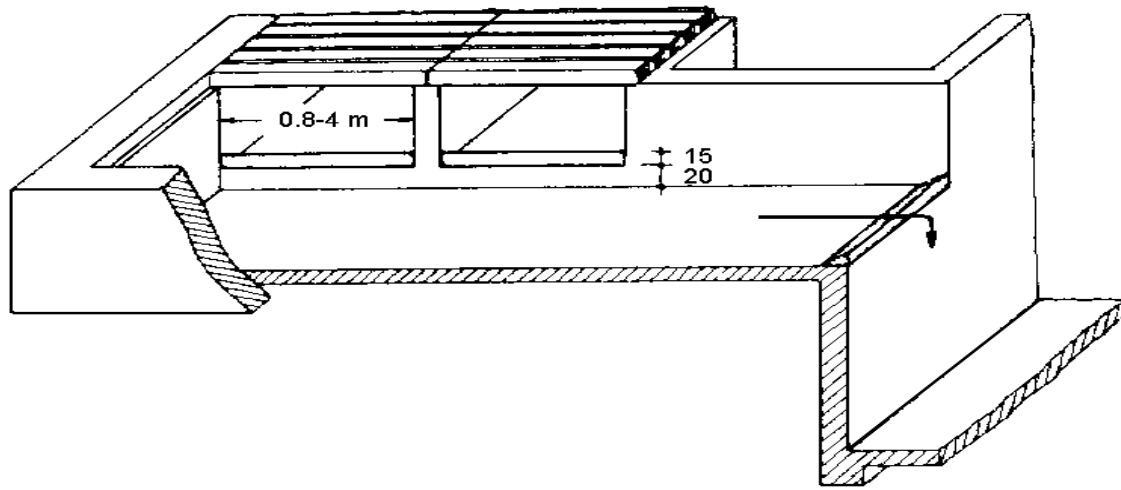
# SISTEMI TEČNOG IZĐUBRAVANJA

## SAMOOTICANJE ( ZA GOVEĐI STAJNJAK)

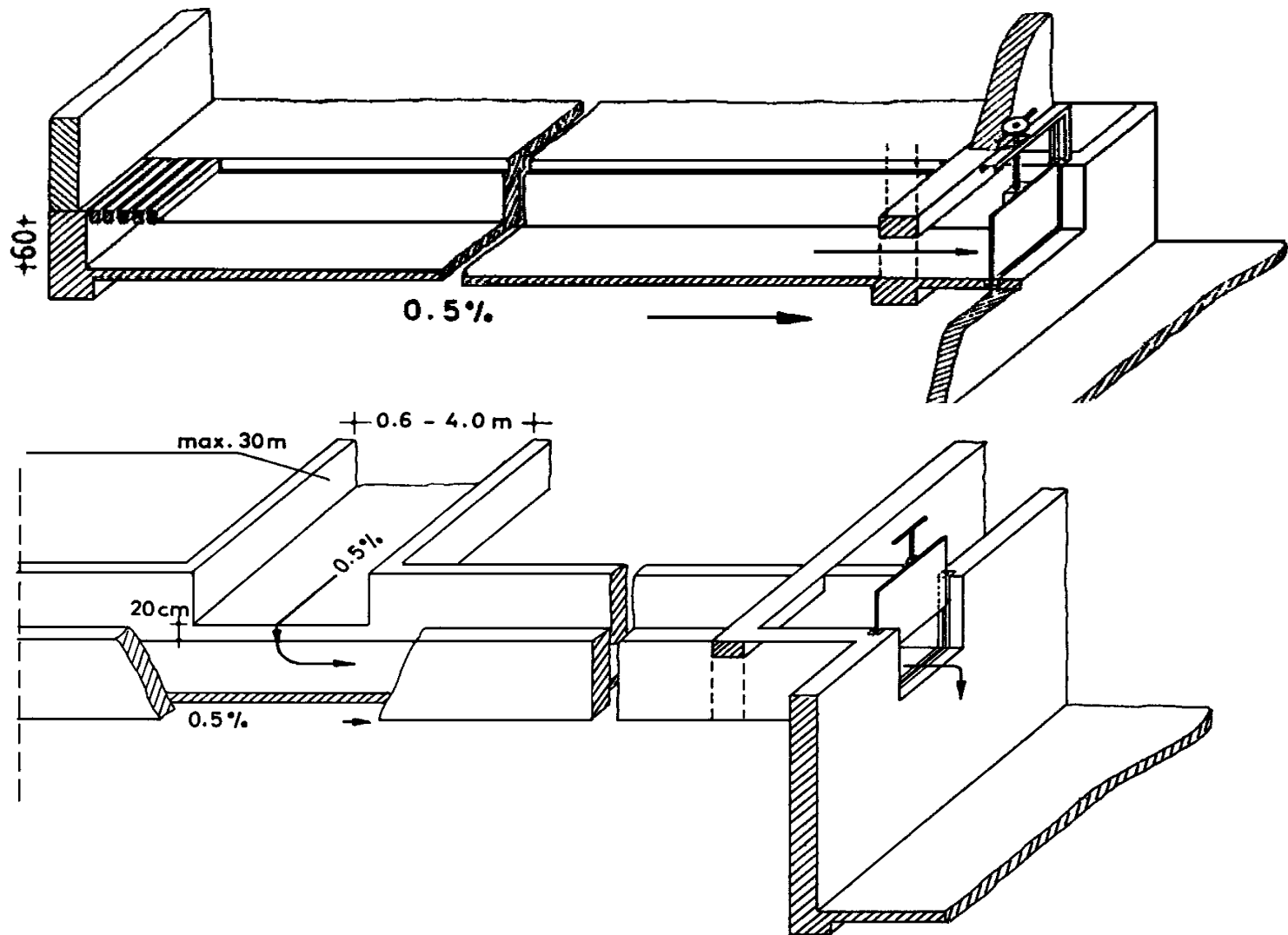


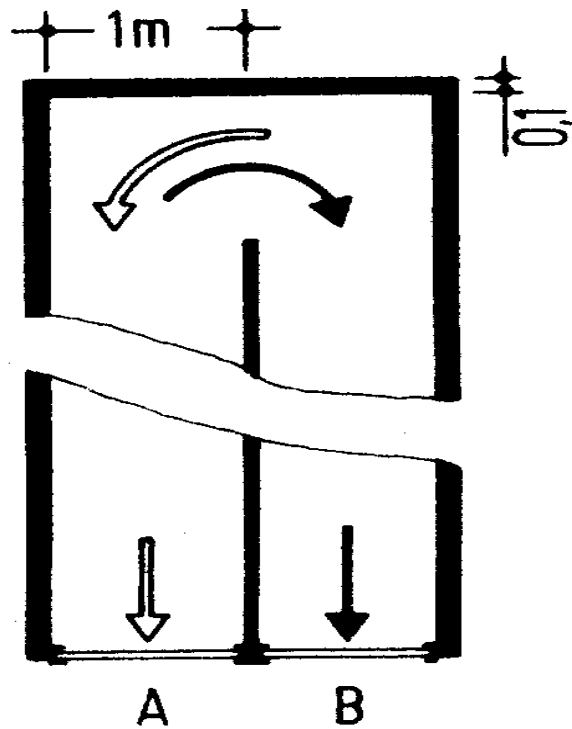
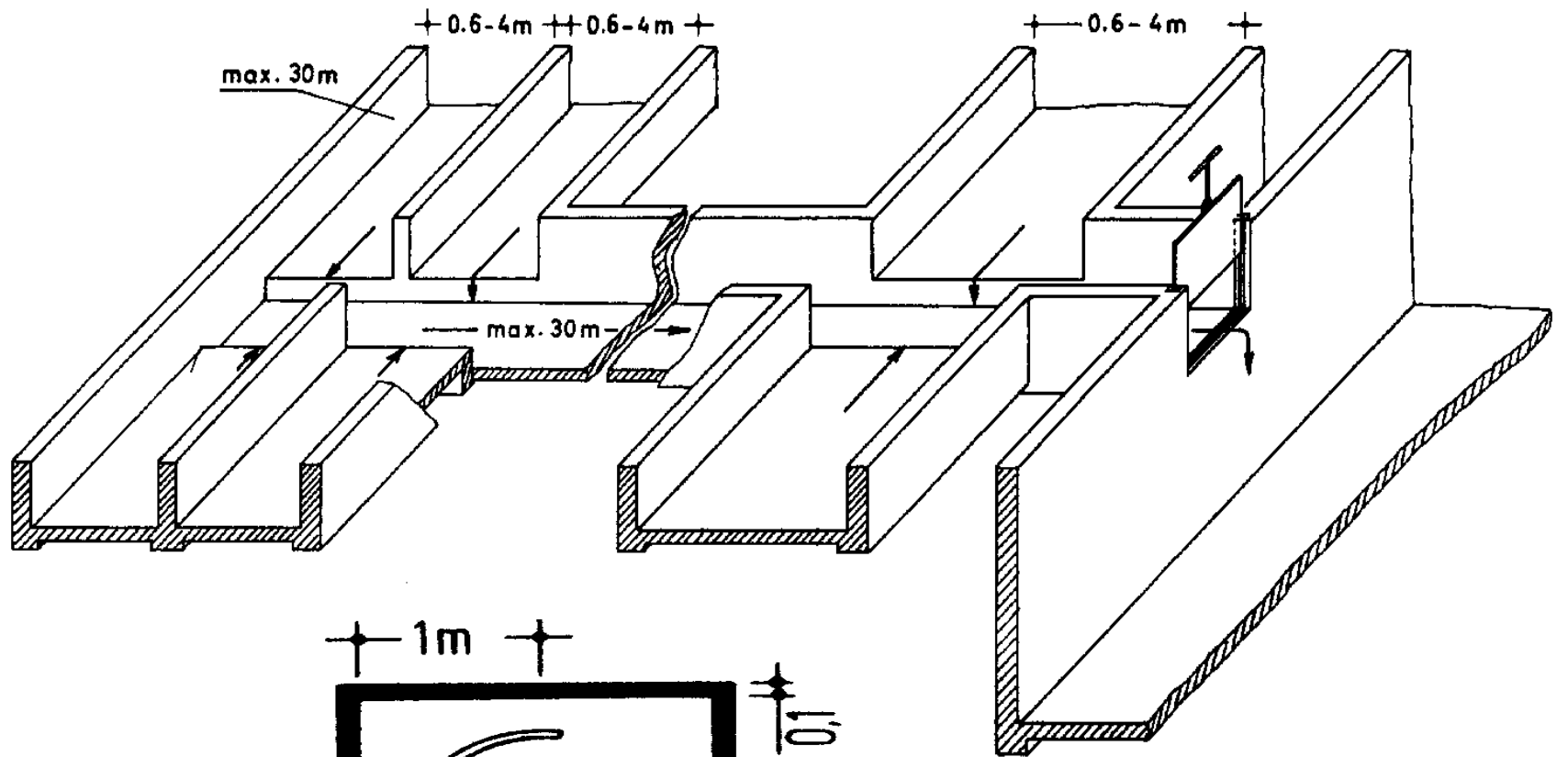




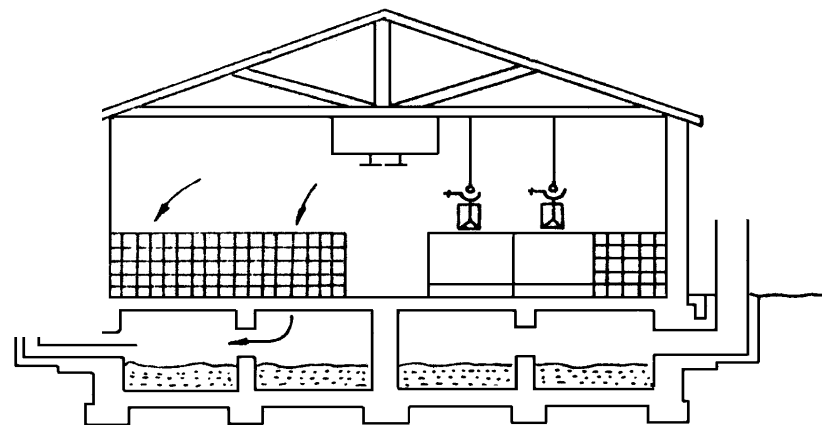
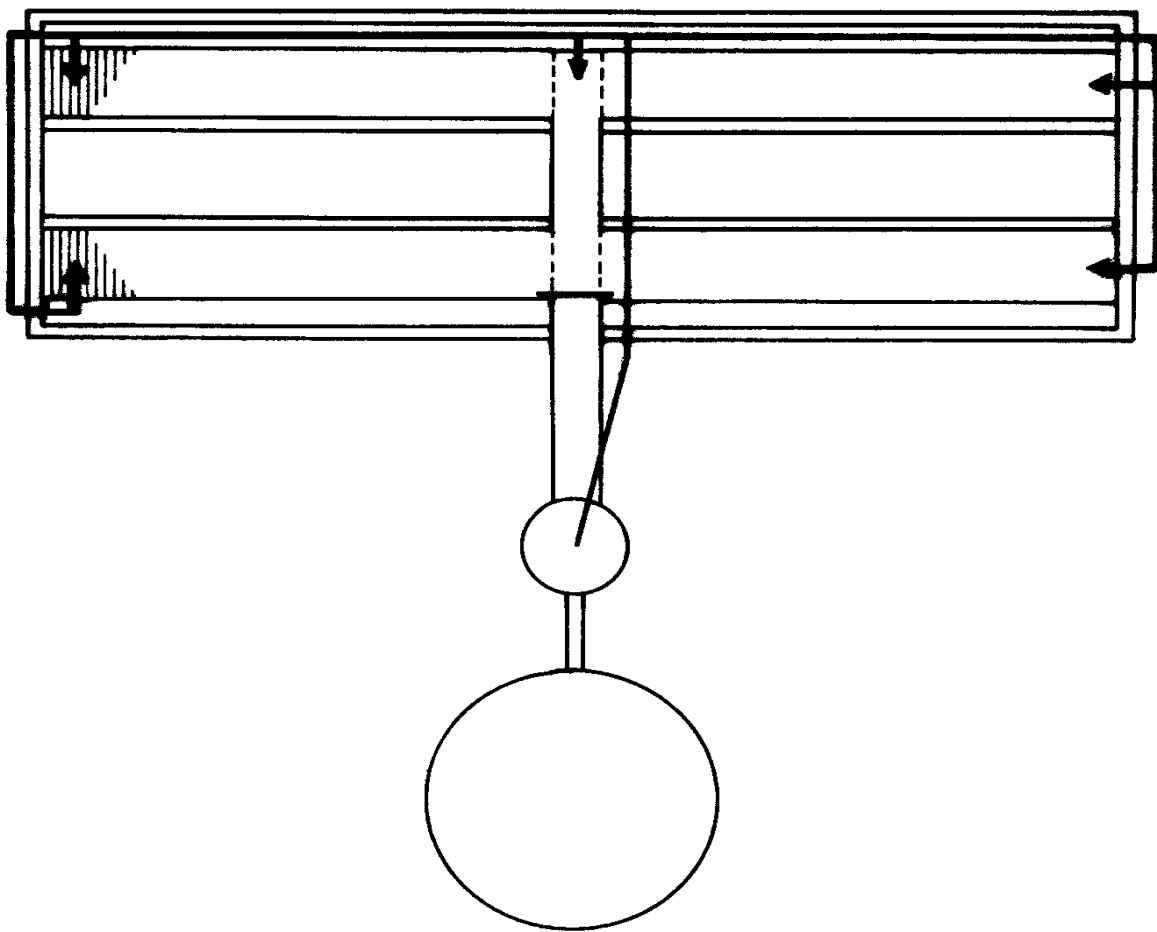


# SA USTAVAMA ( ZA SVINJSKI STAJNJAK )

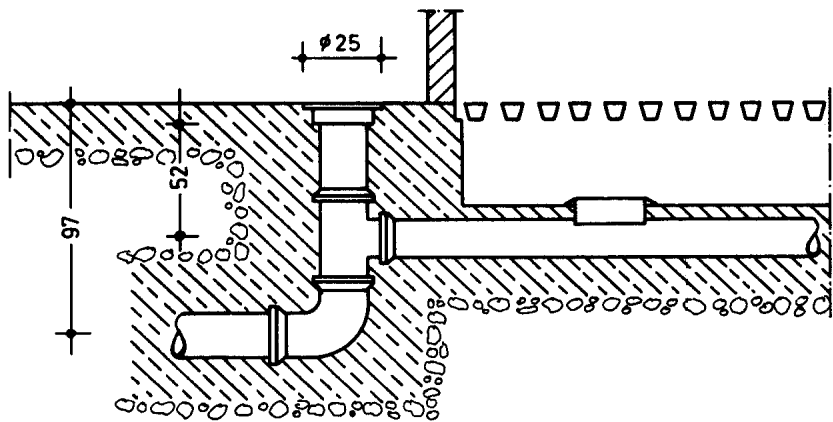
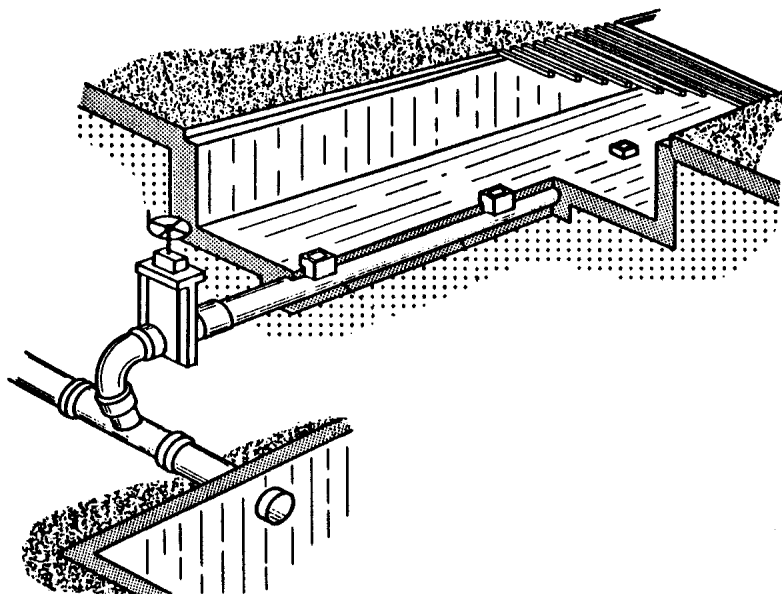




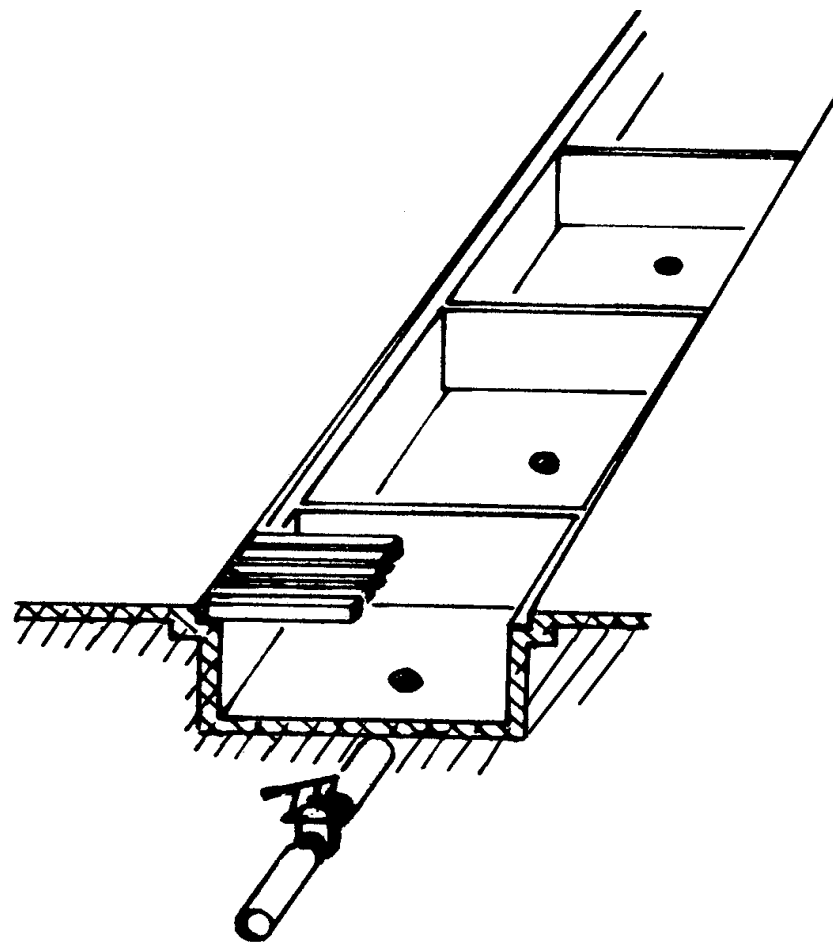
# Recirkulaciono ispiranje



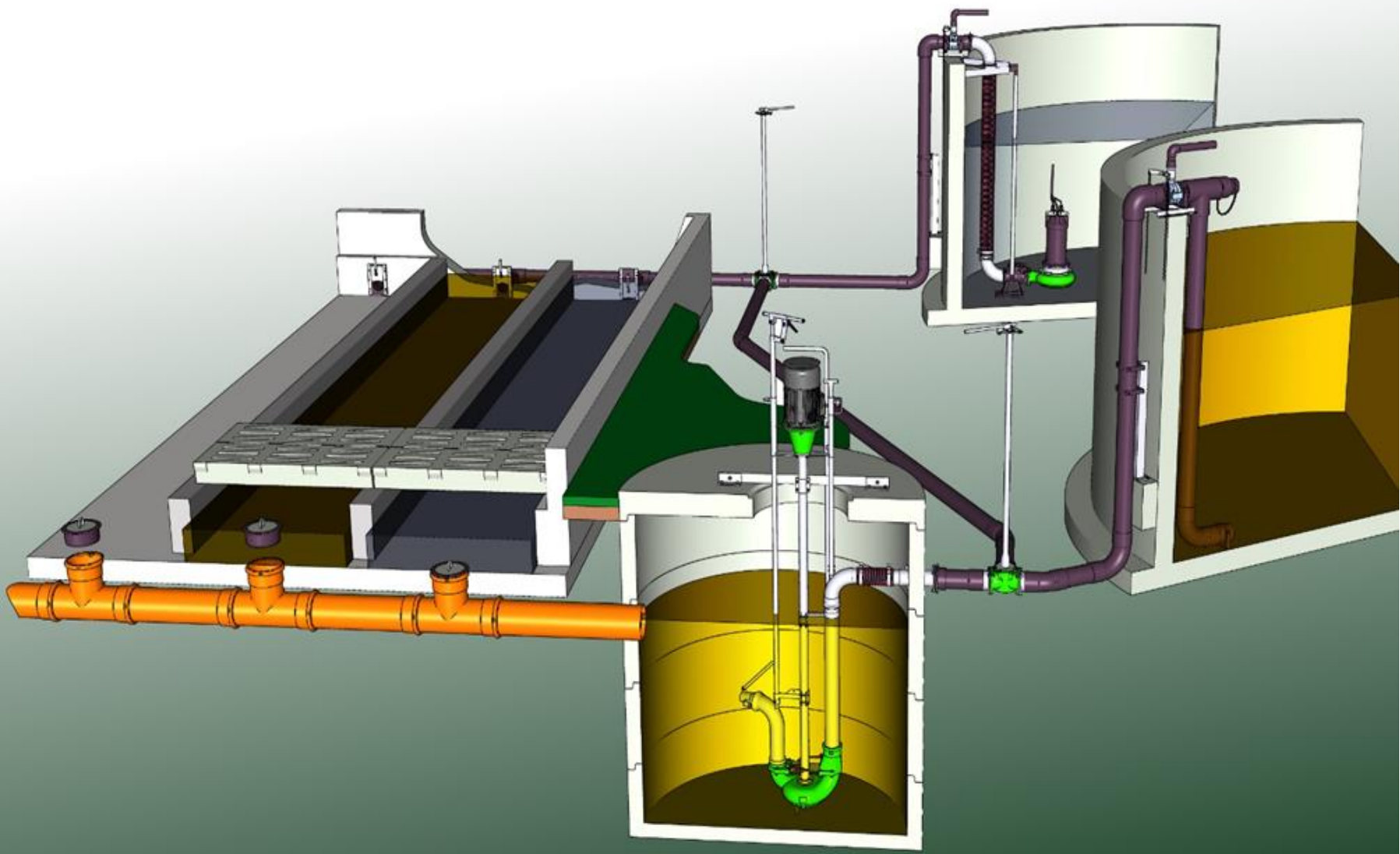
# Sistema kada sa čepovima

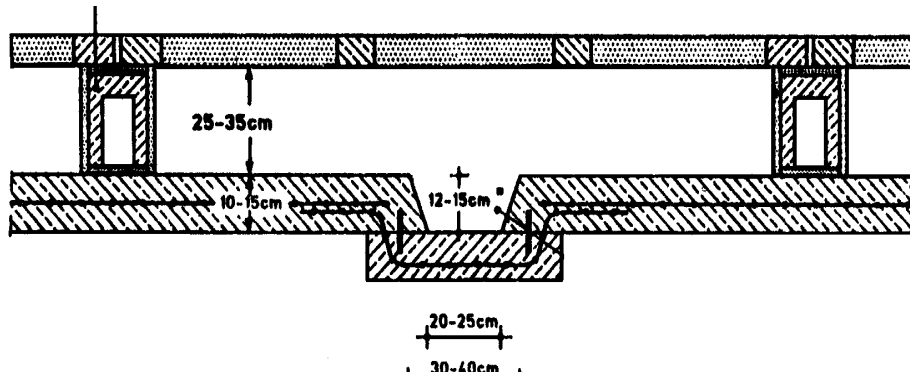
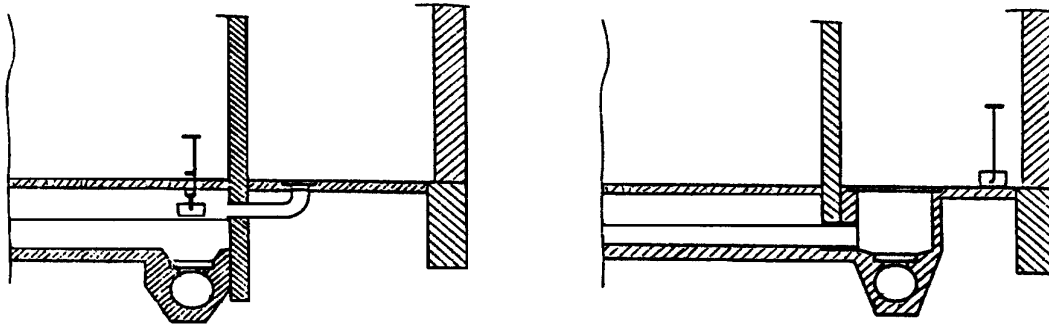


6 + 40 + 7

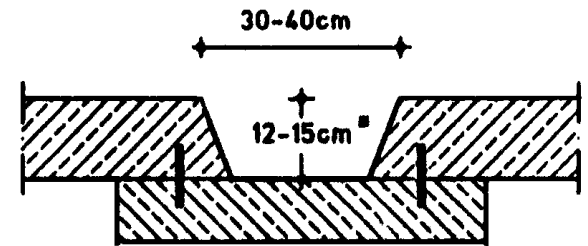
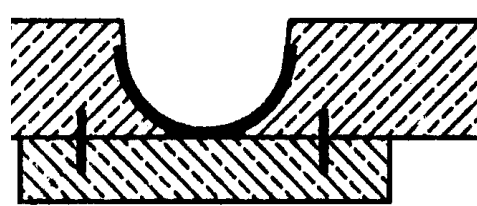
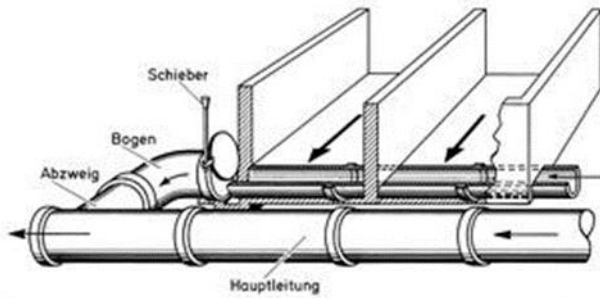




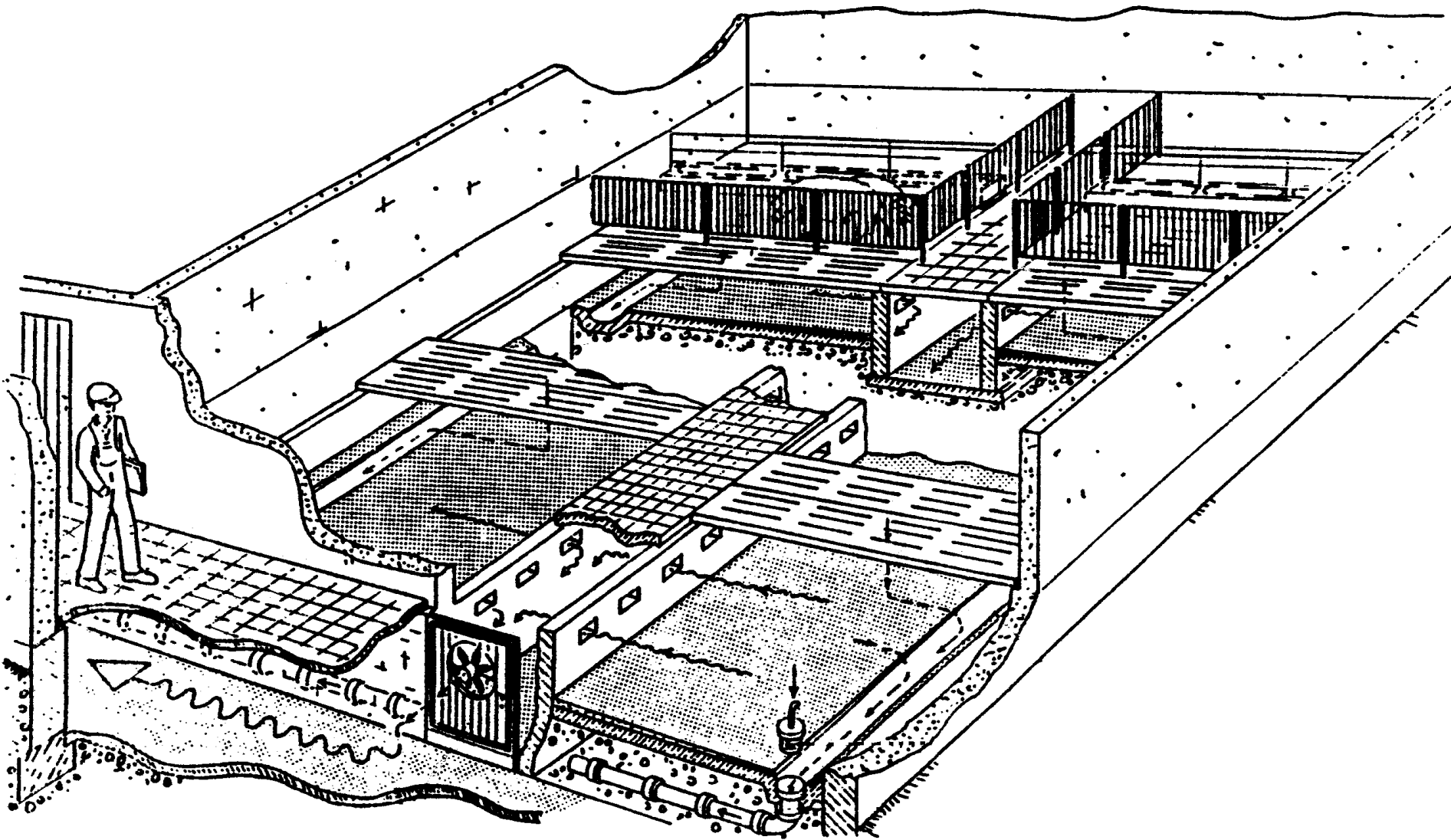


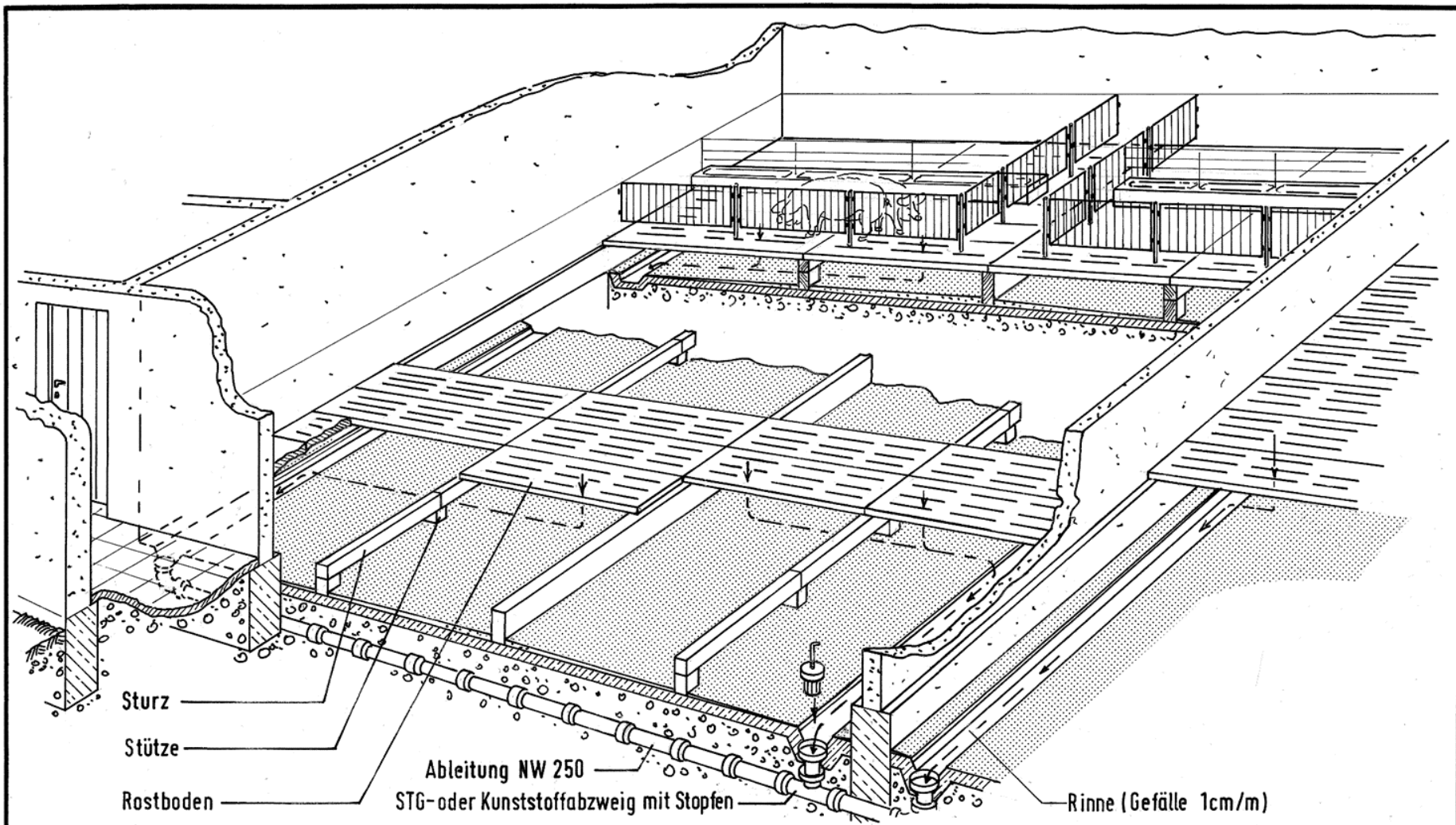


Staumistverfahren  
Anschluß eines Stallabteils an die Hauptleitung





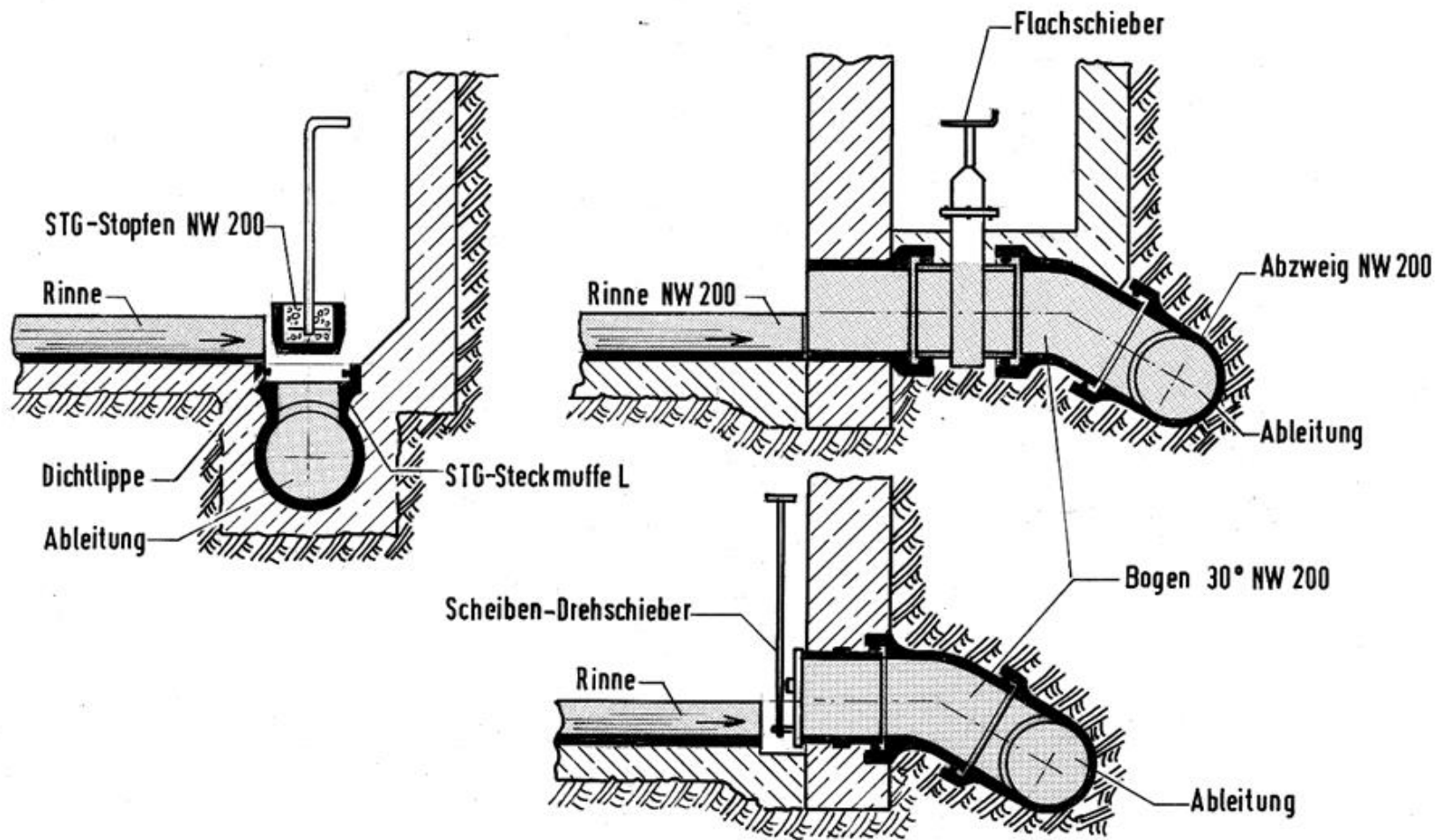




Langenegger

## Staukanal-Rinnenentmischung ( Doppelkanal )

LANDTECHNIK  
 WEIHENSTEPHAN  
 Ke 892 164

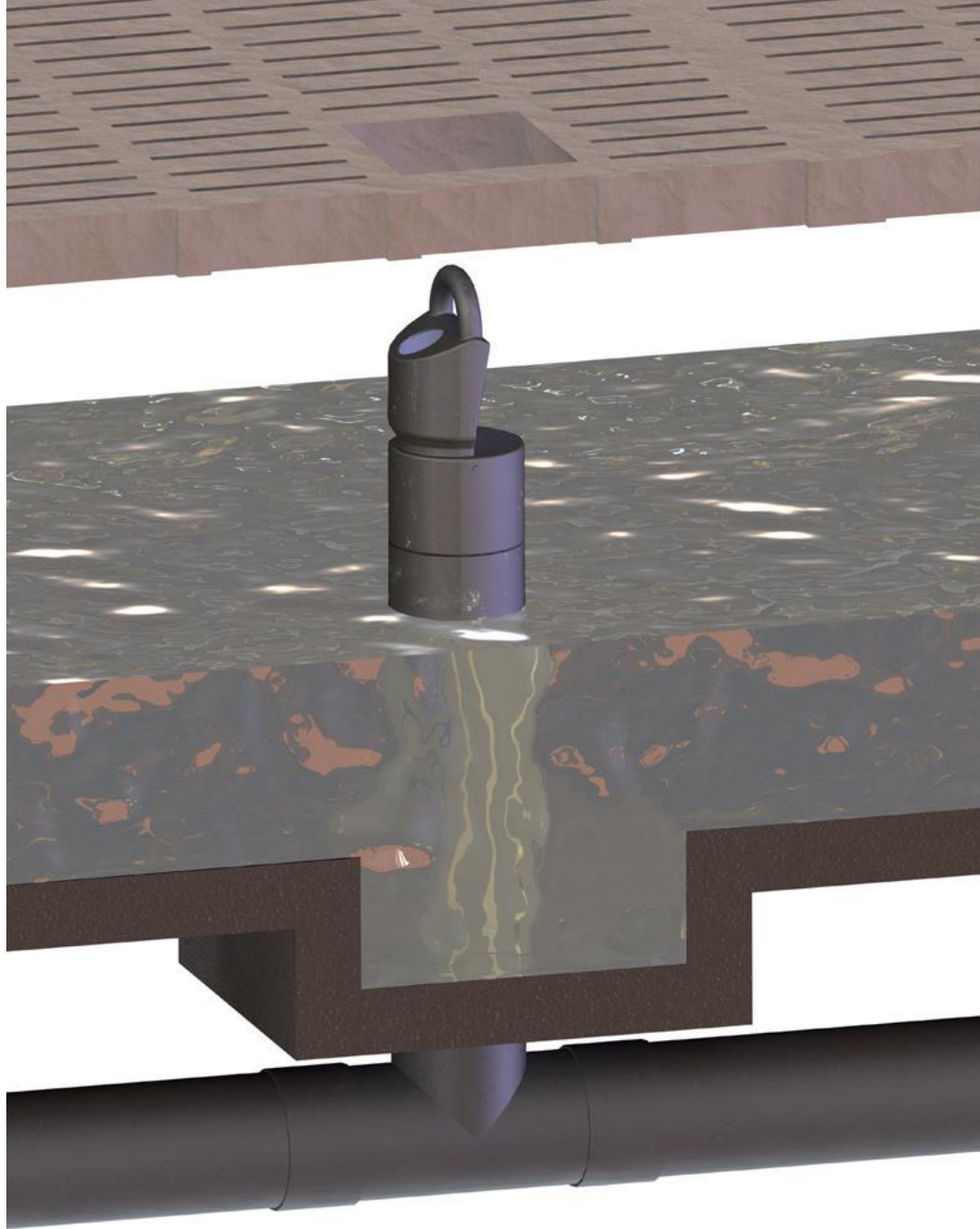


Boxberger  
Langenegger

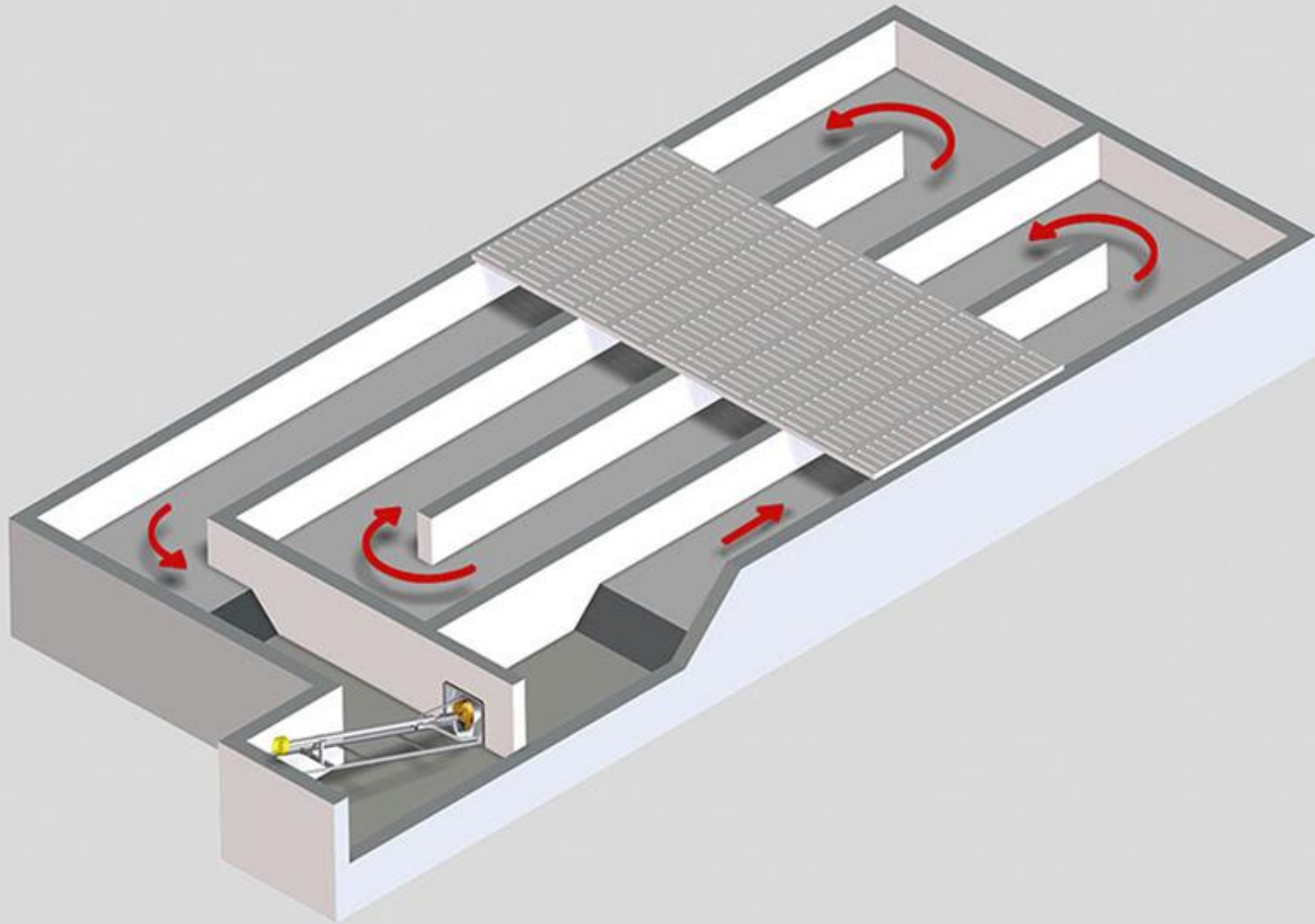
## Staukanal-Rinnenentmistung

### Absperrschieber- und Ableitungsanordnung

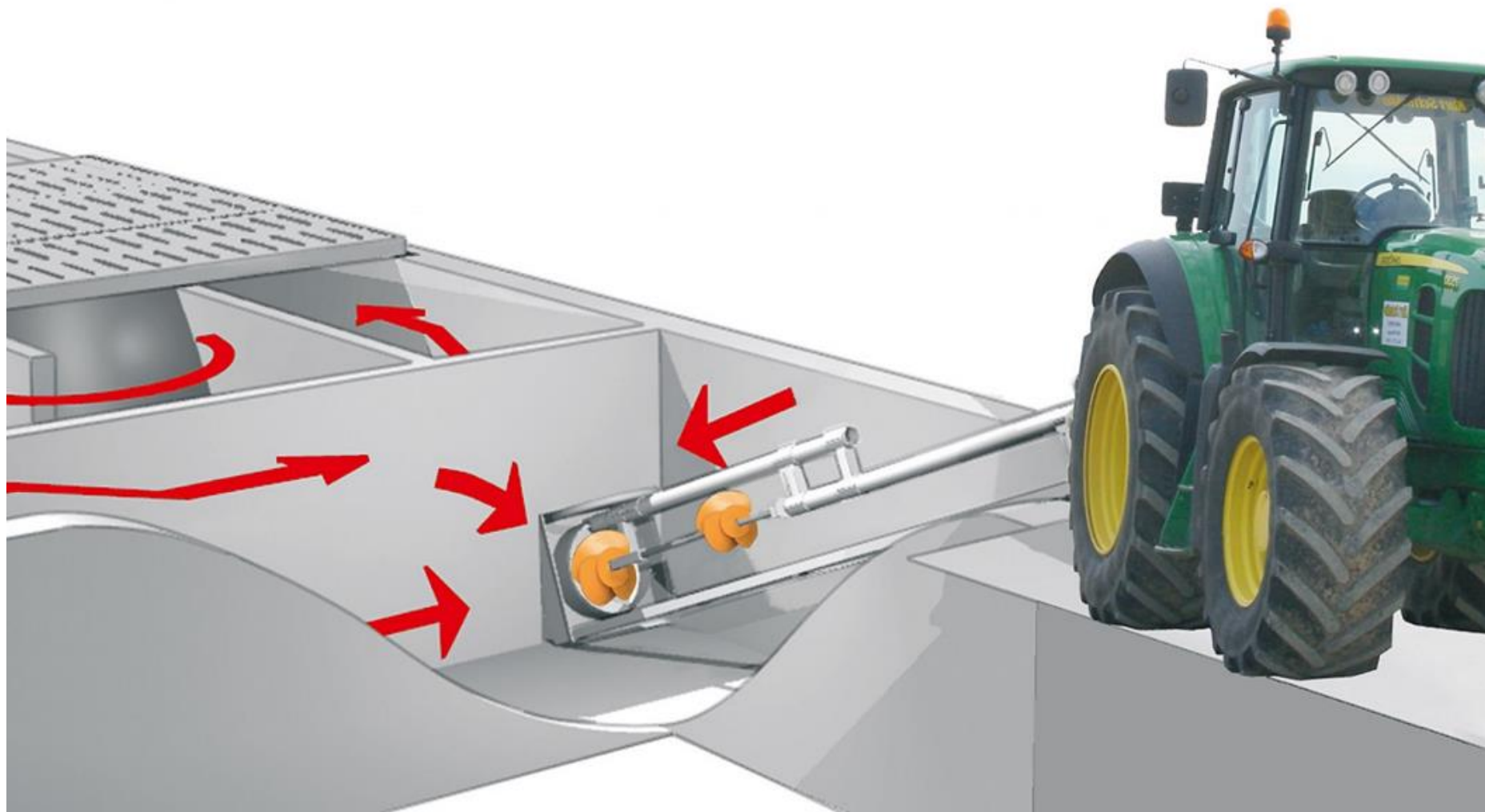
LANDTECHNIK  
WEIHENSTEPHAN  
Ke 87243

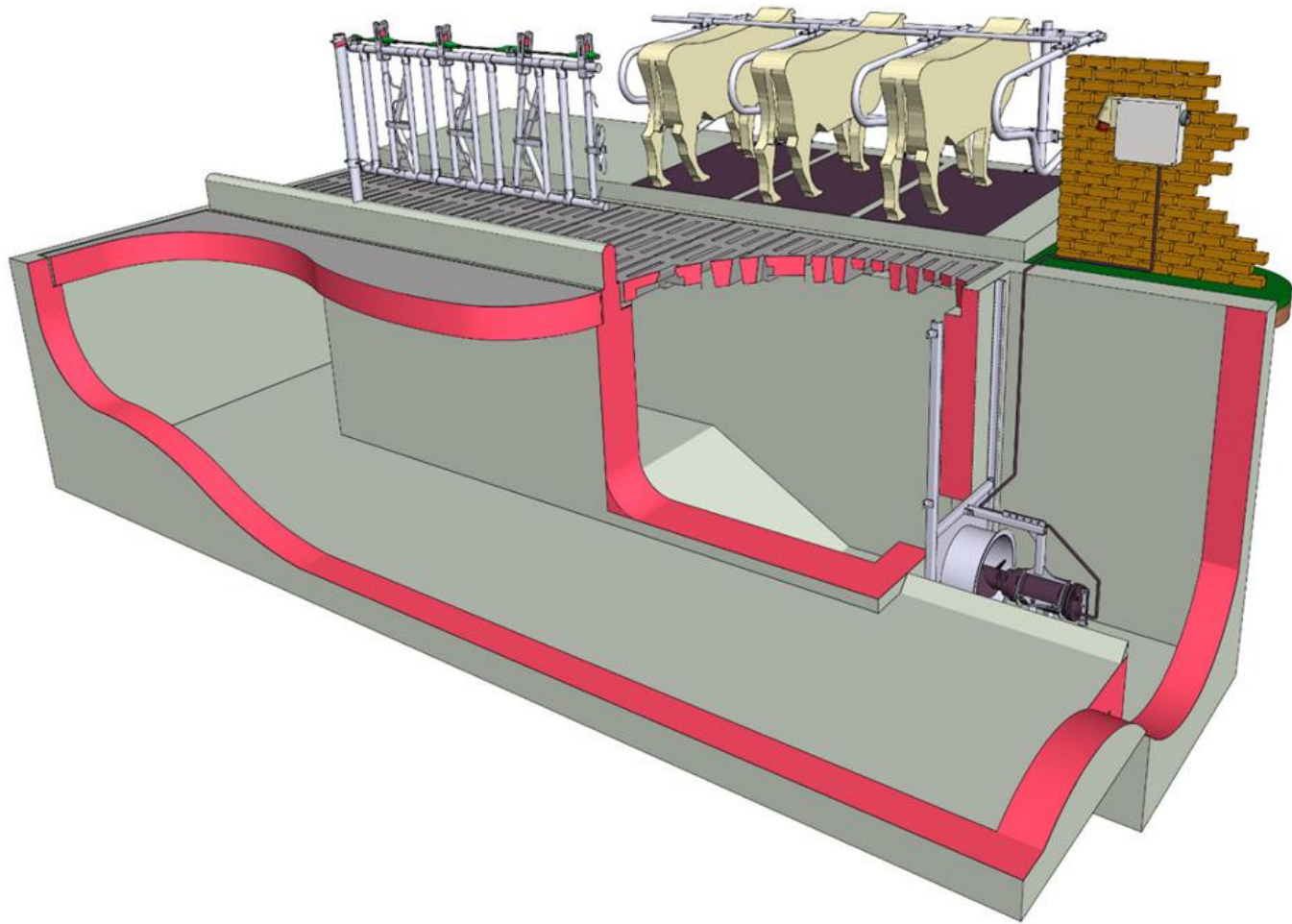


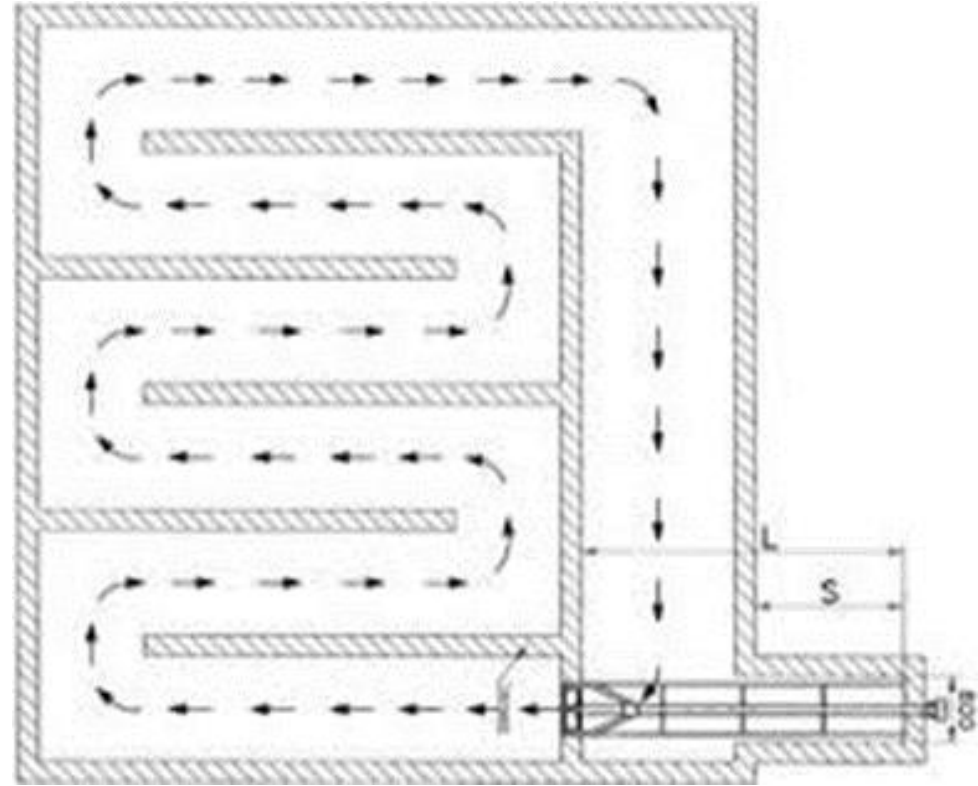
# Slalom sistem sa prinudnim kretanjem

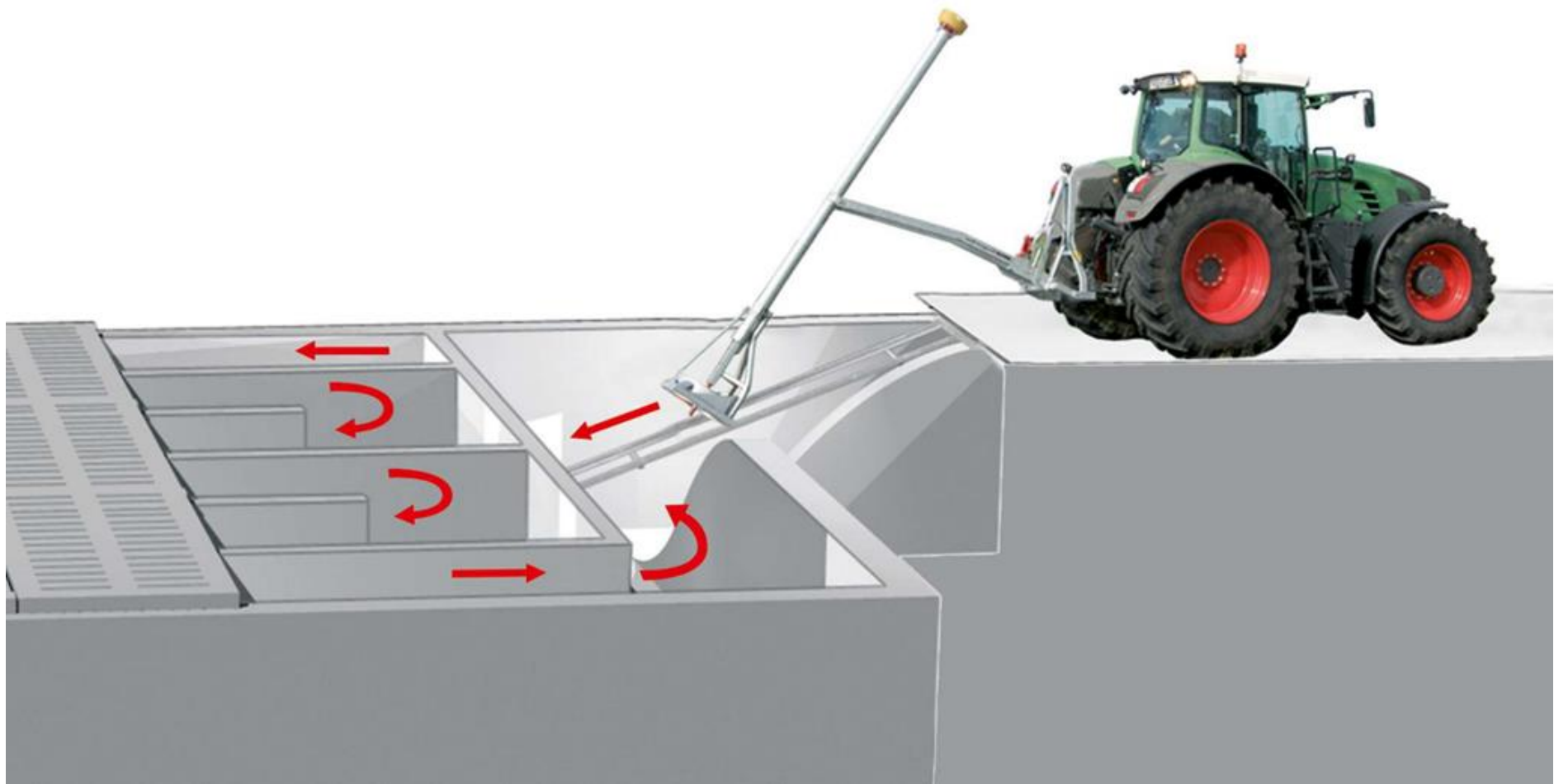




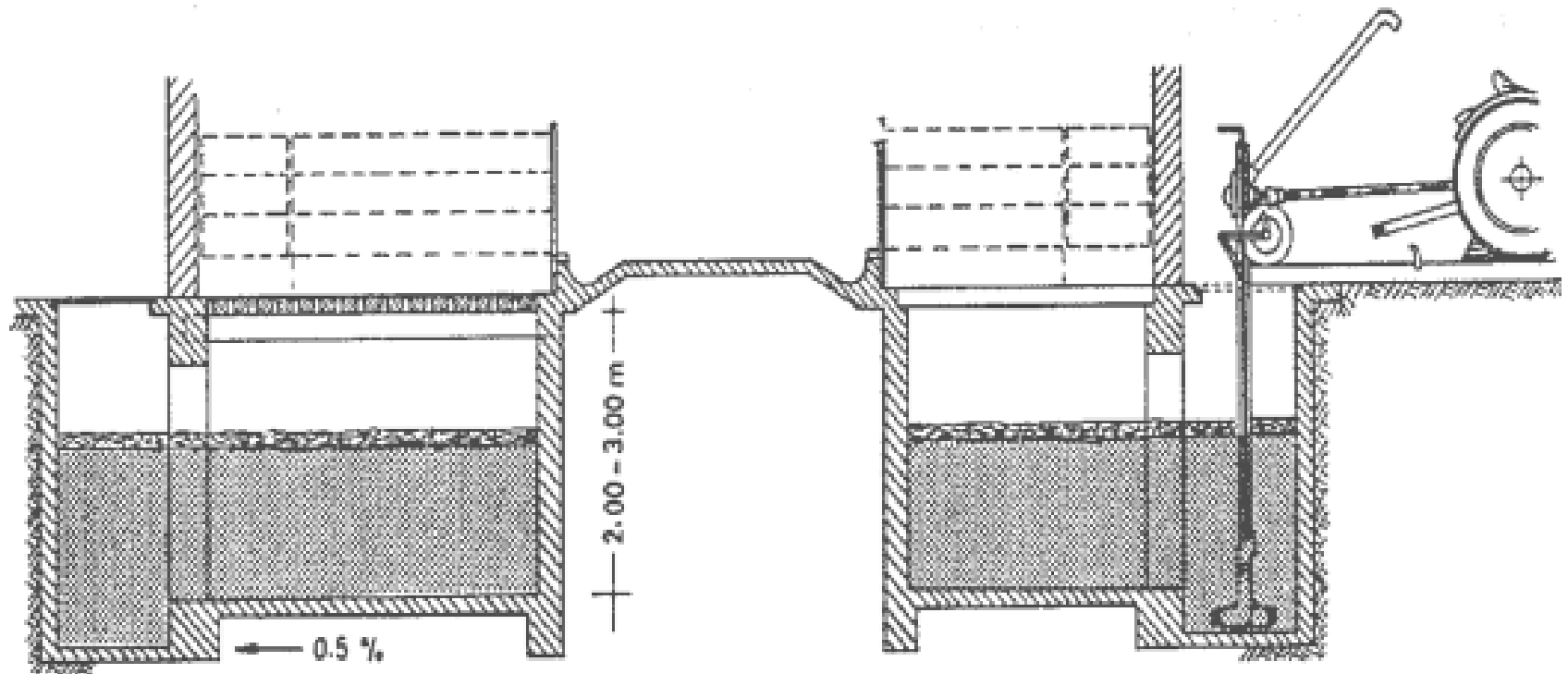






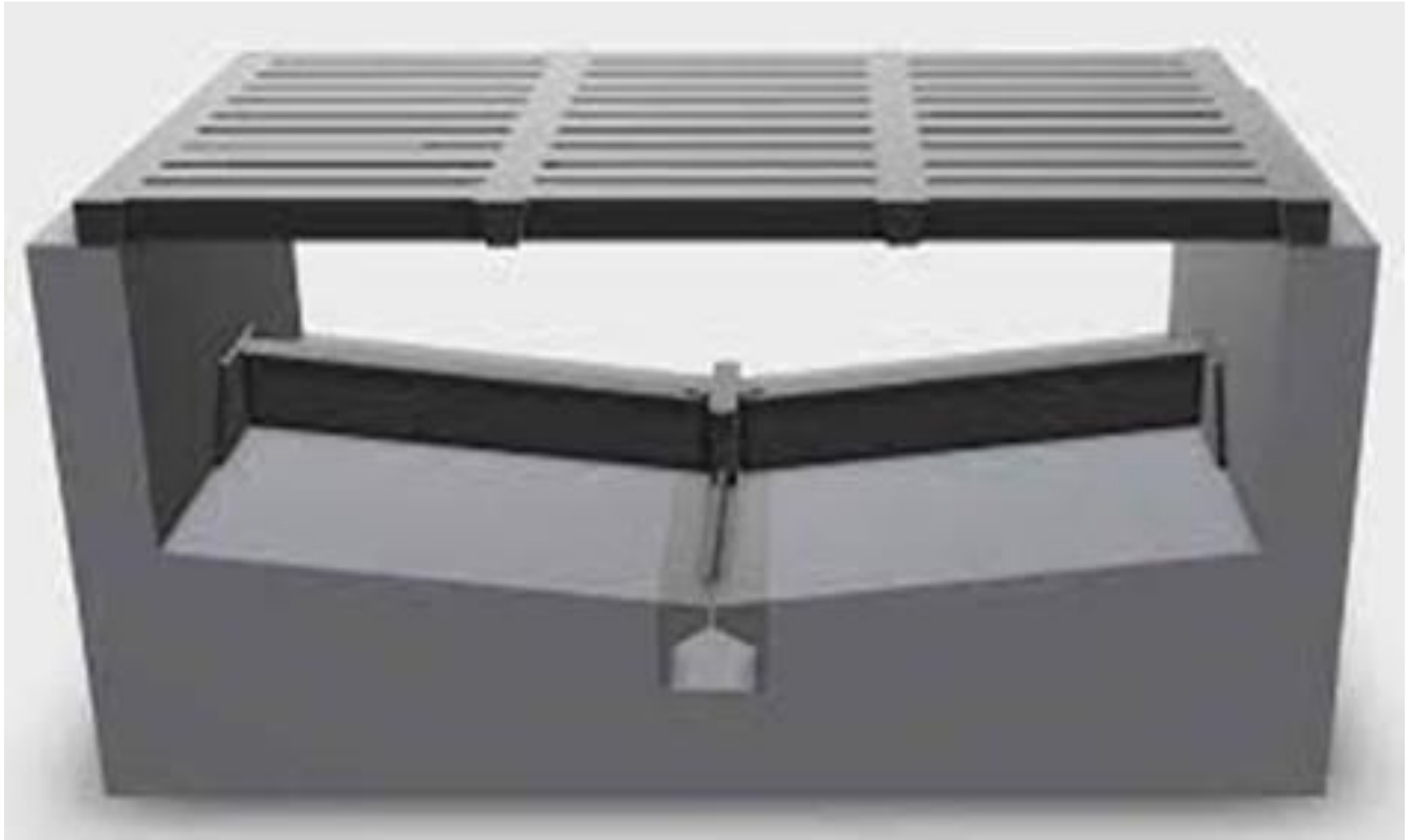


# Duboki bazeni sistem sve u nutra sve napolje

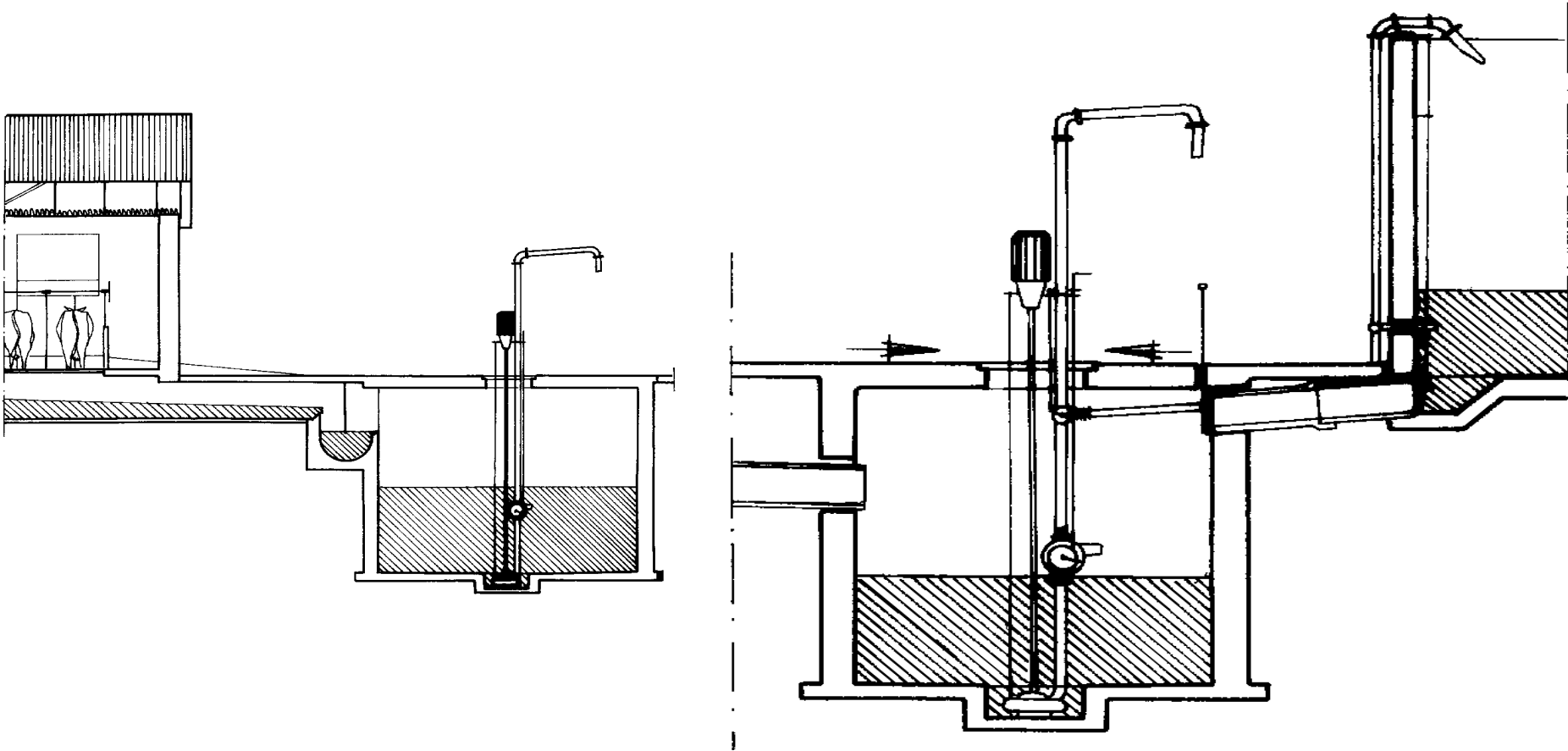




## Hidromehanički sistem

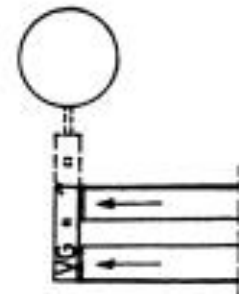
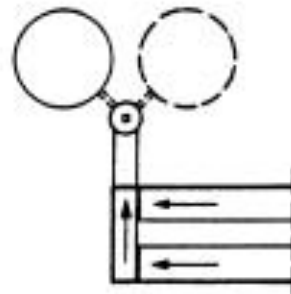
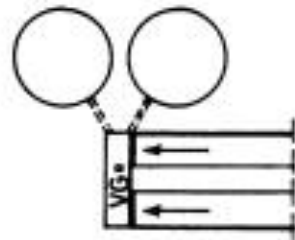
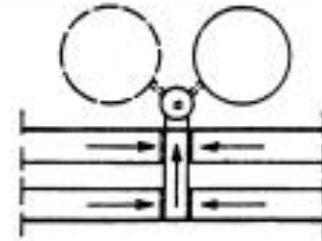
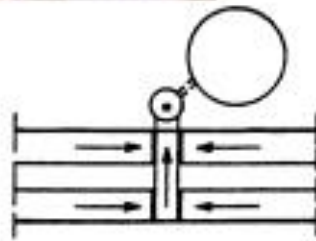


# Prijemni bazen

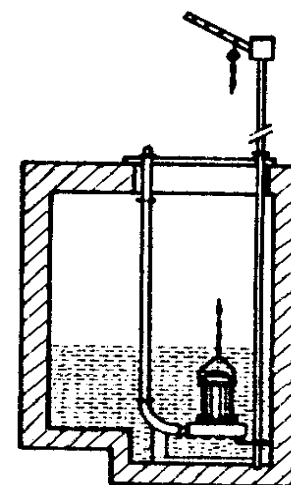
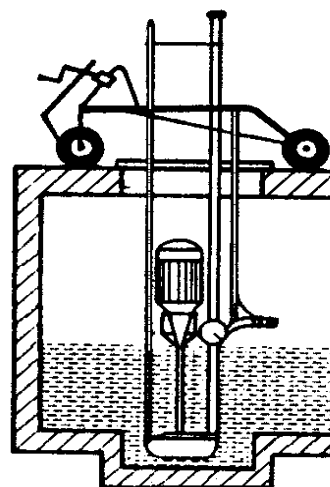
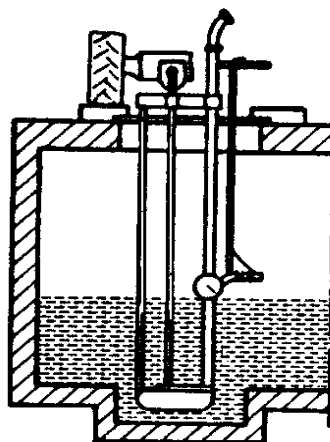
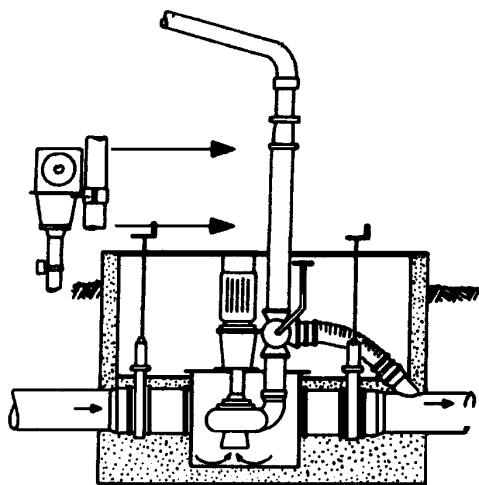




# Lager bazen



# Oprema u prijemnom bazenu

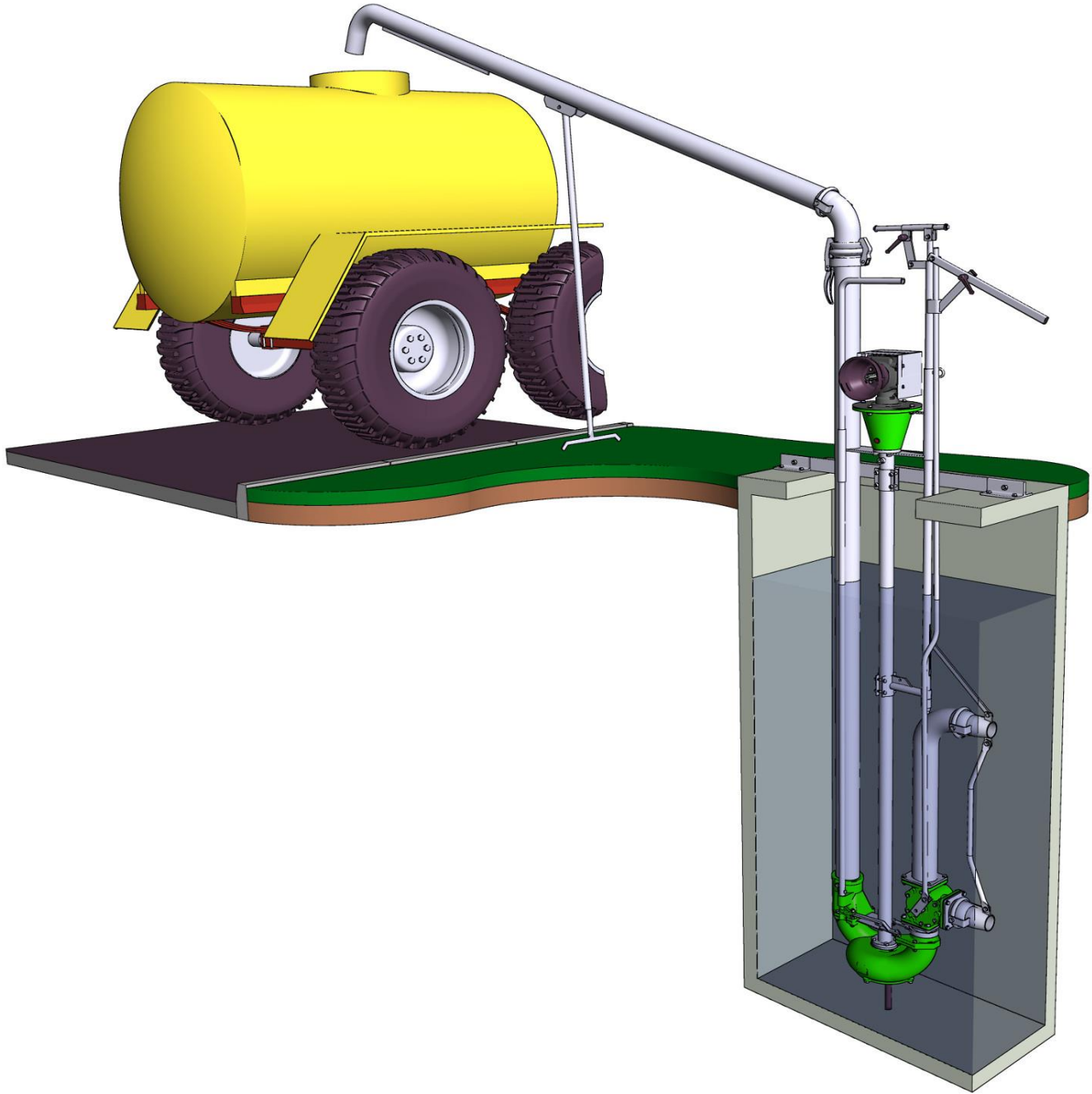


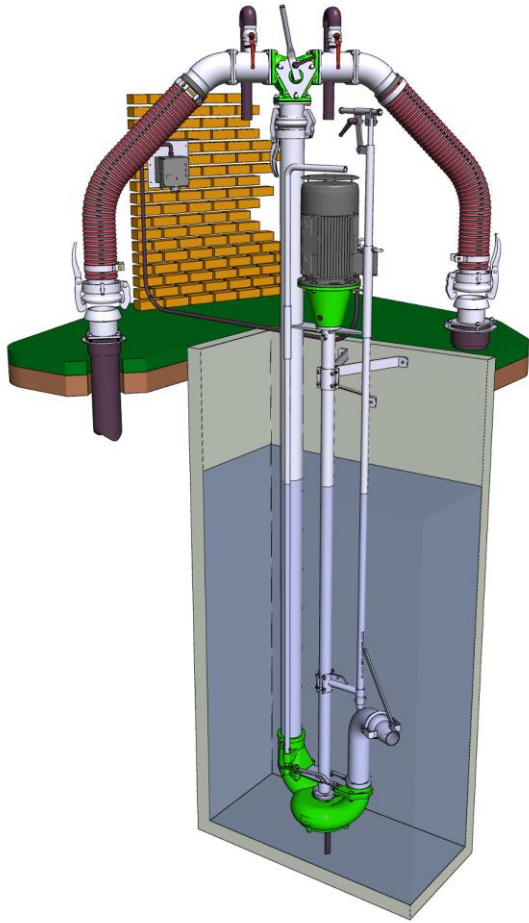
# Oprema u bazenu za lagerovanje

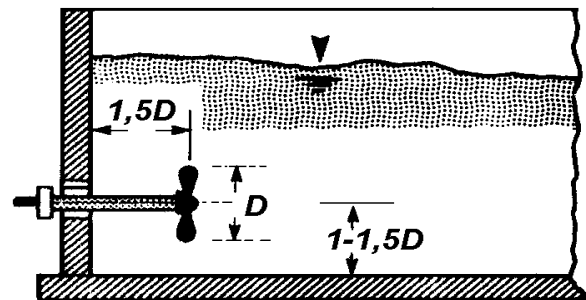
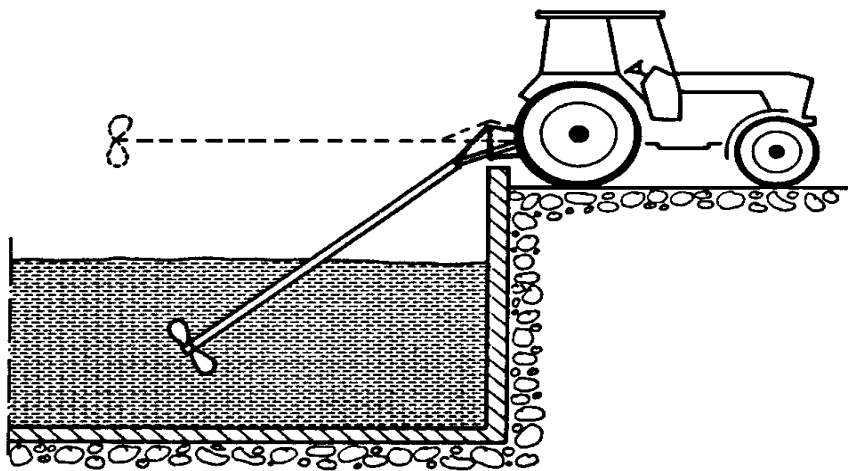
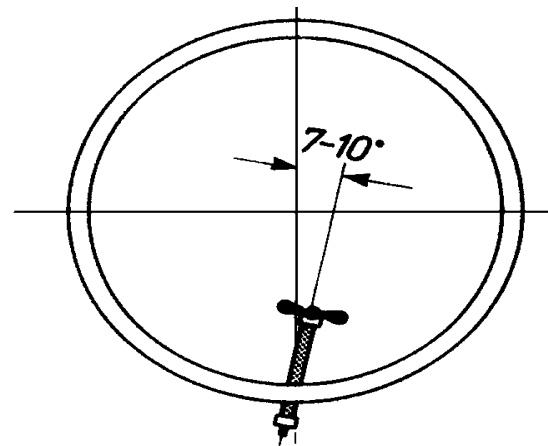
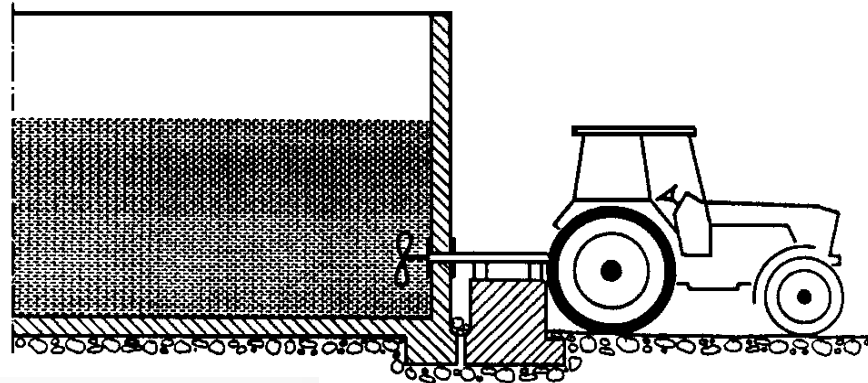
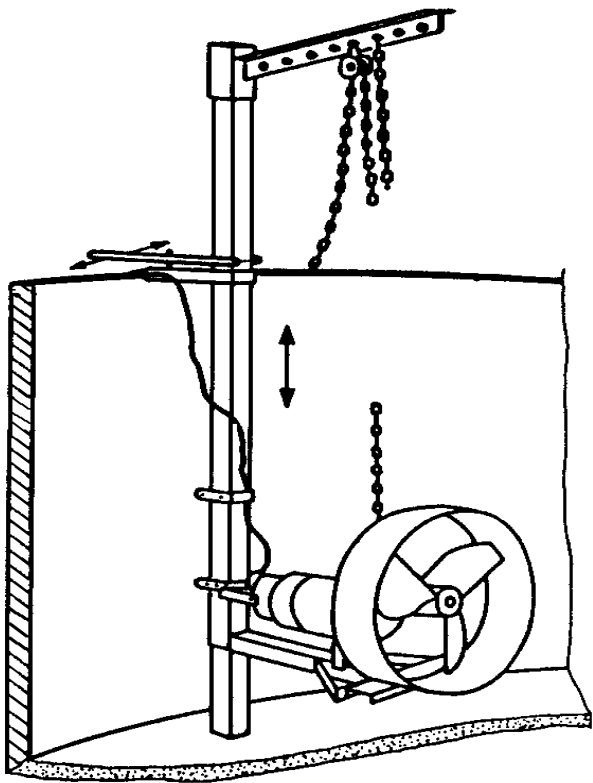


















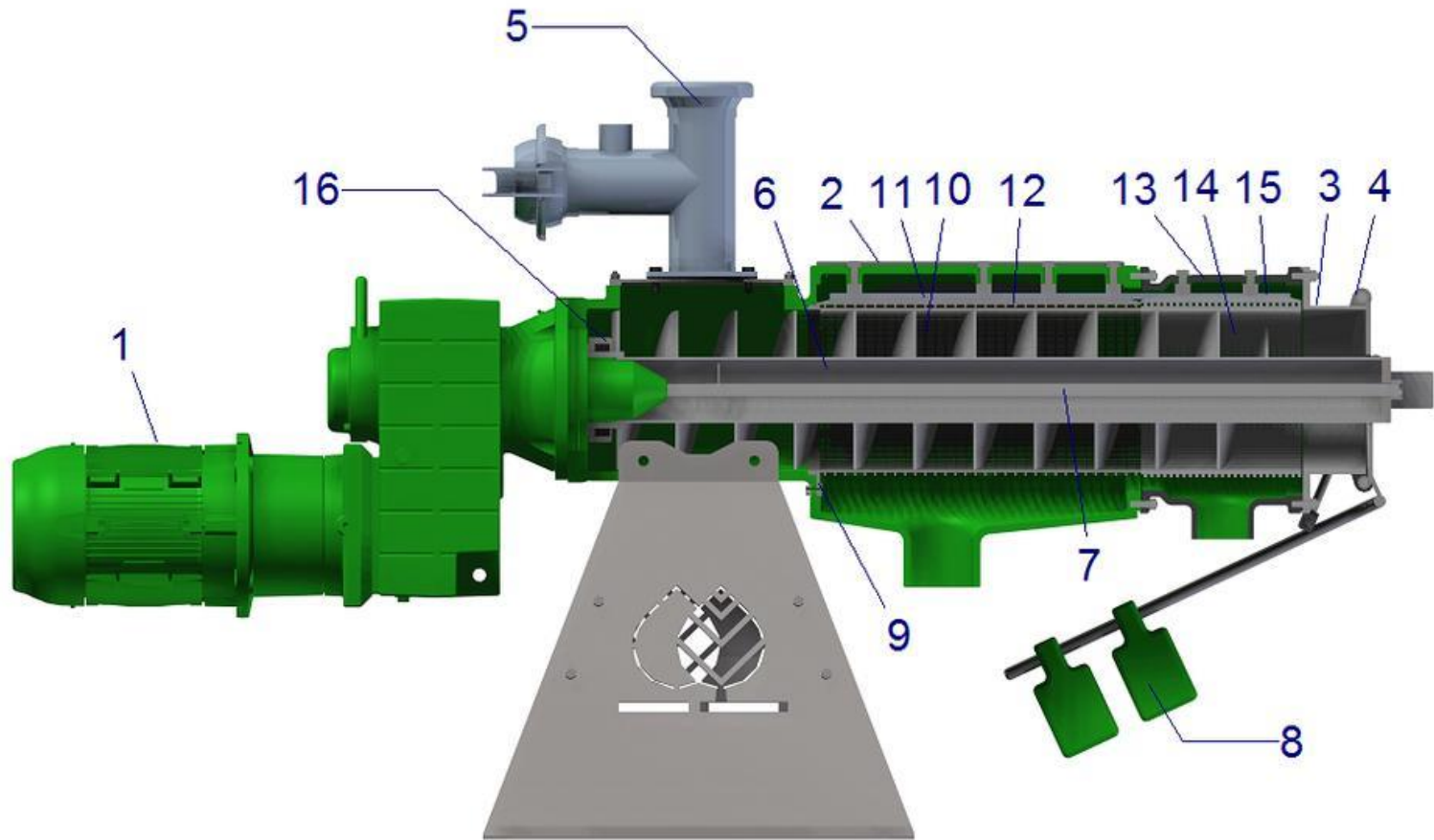


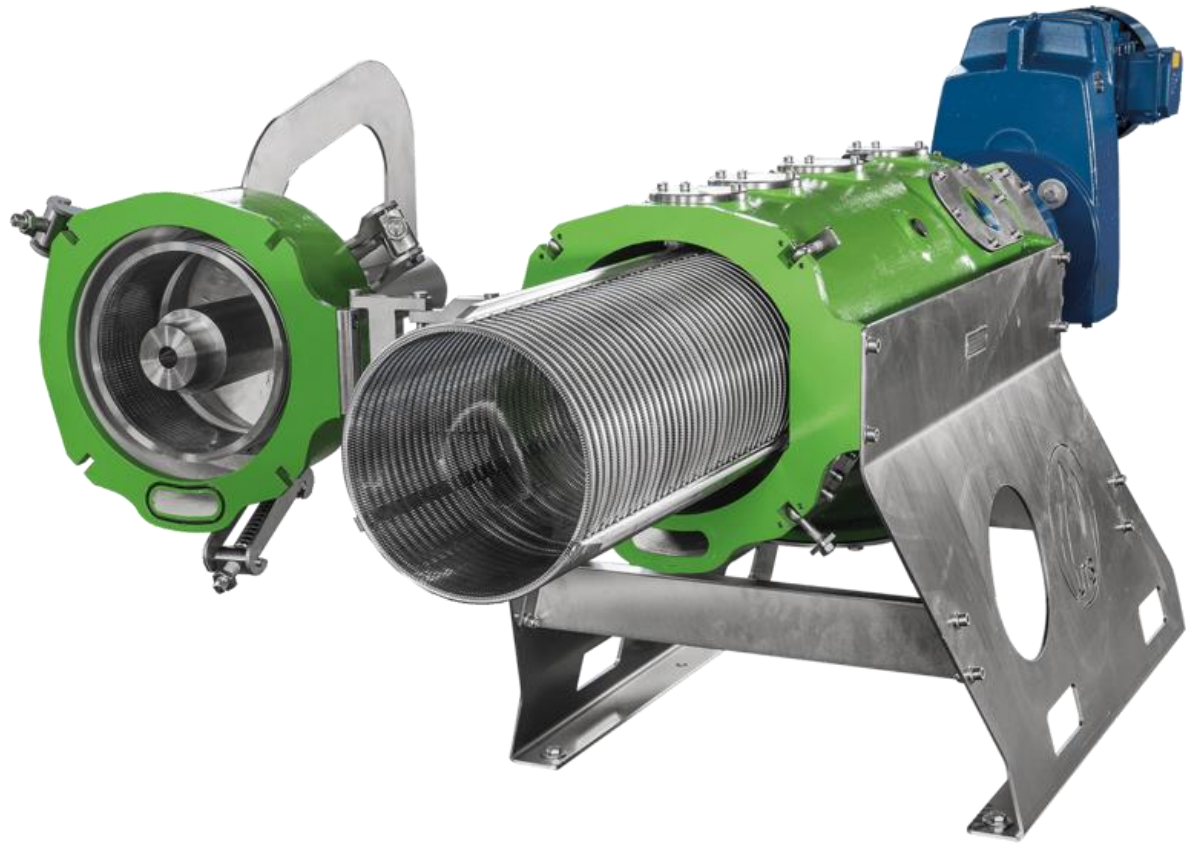






# SEPARATORI



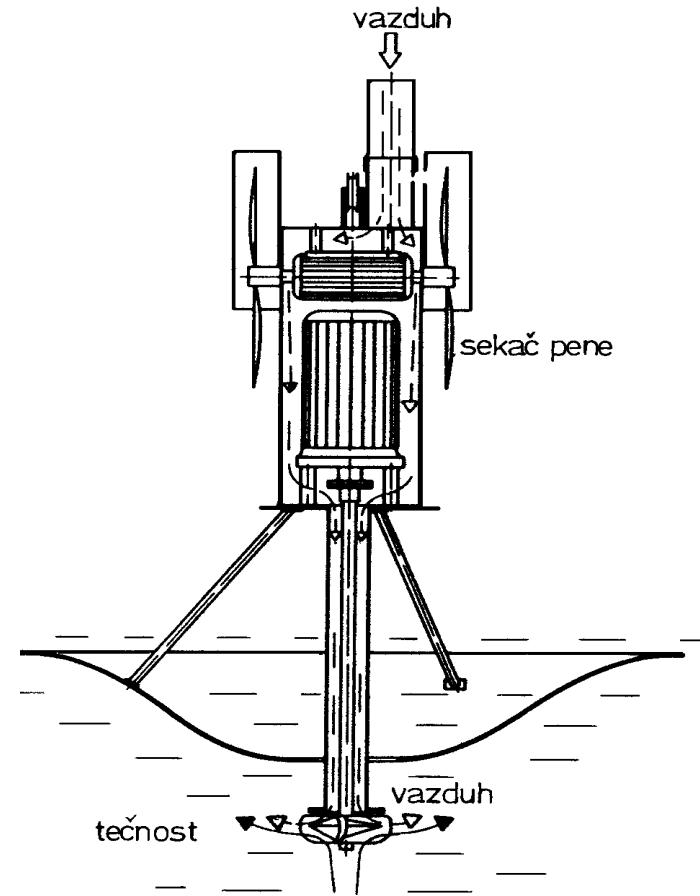
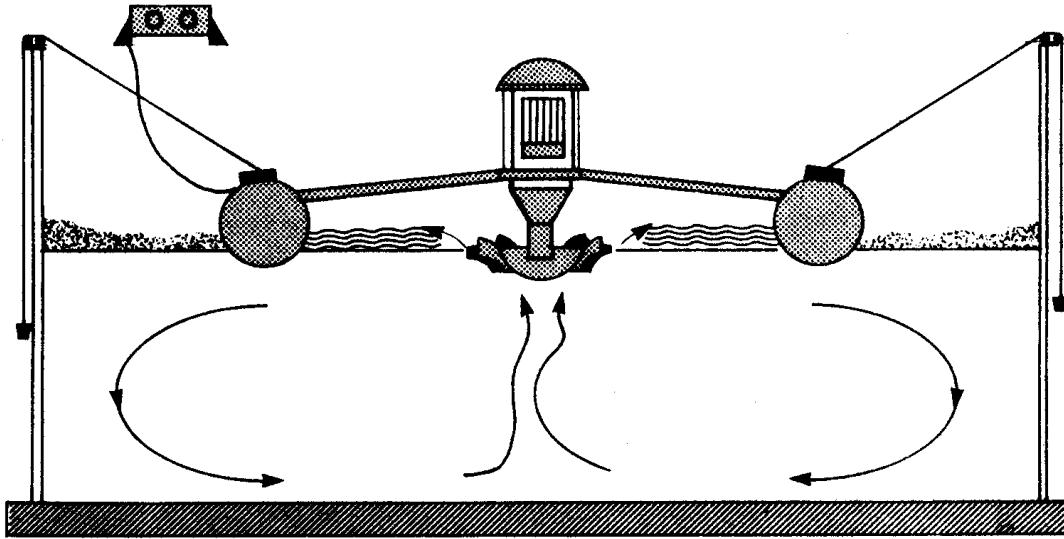








# AERATORI





# RECIPIJENTI ZA LAGEROVANJE





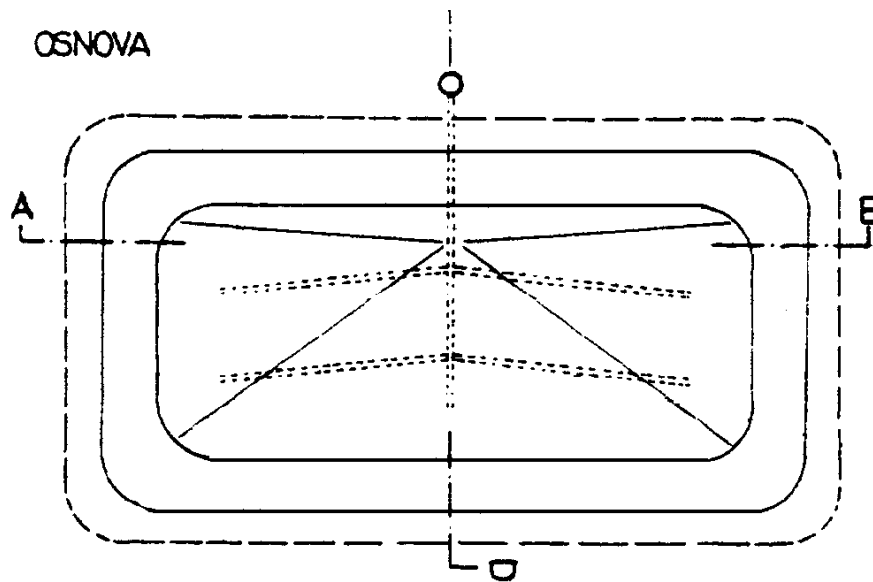








OSNOVA



50 -1.00

20.00

2.50

1%

17.00

2

3

4

5

SEK A - B

SEK C - D

8

8

80 -1.00

2.50

1

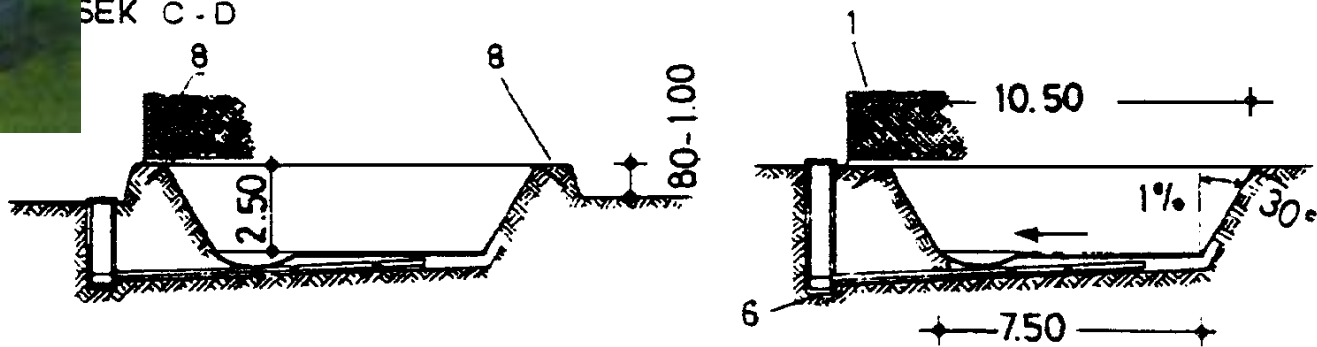
10.50

1%

30°

6

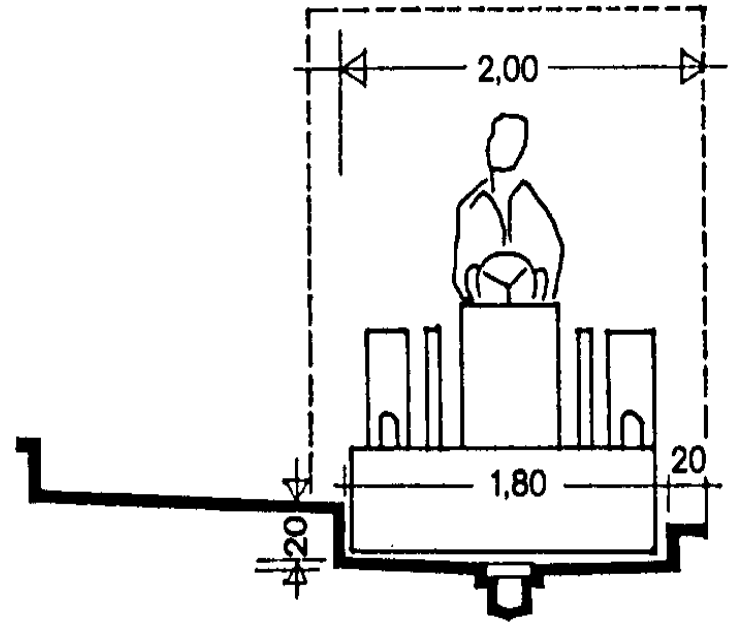
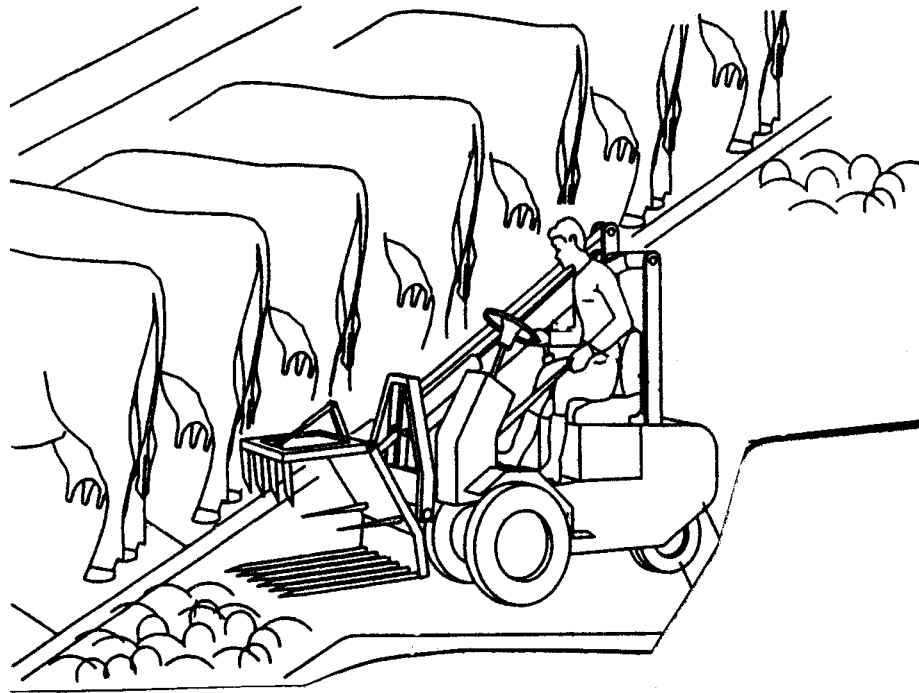
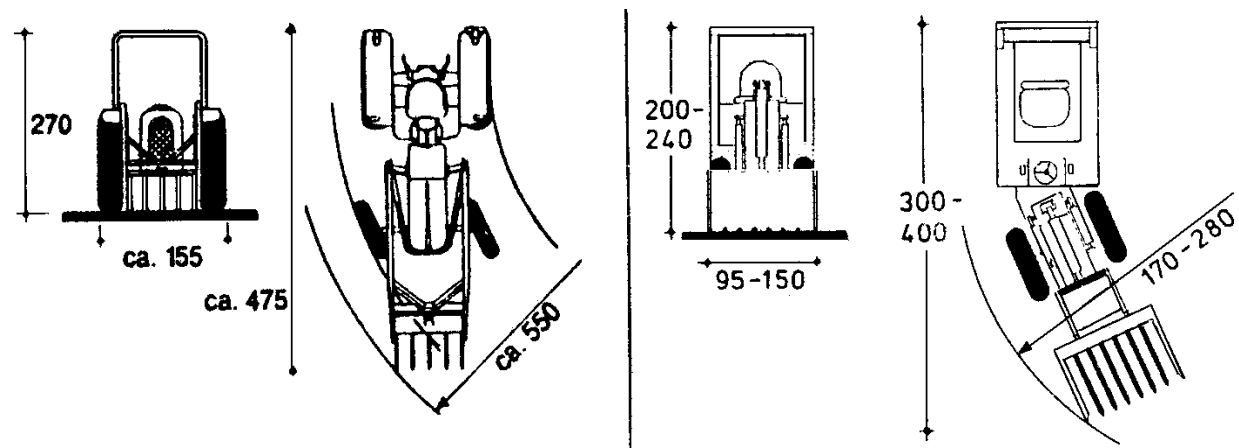
7.50

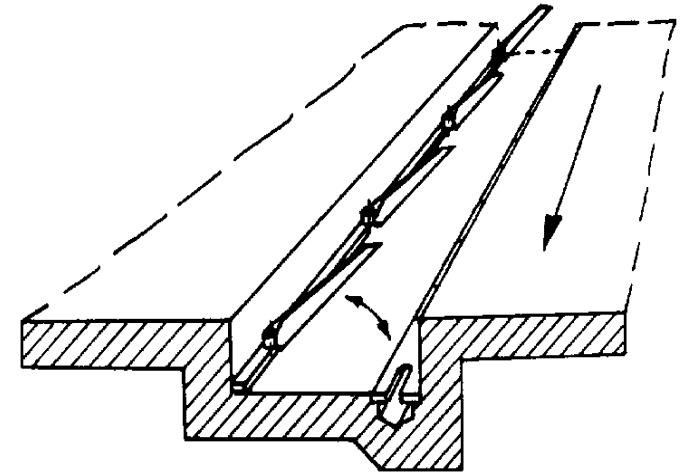
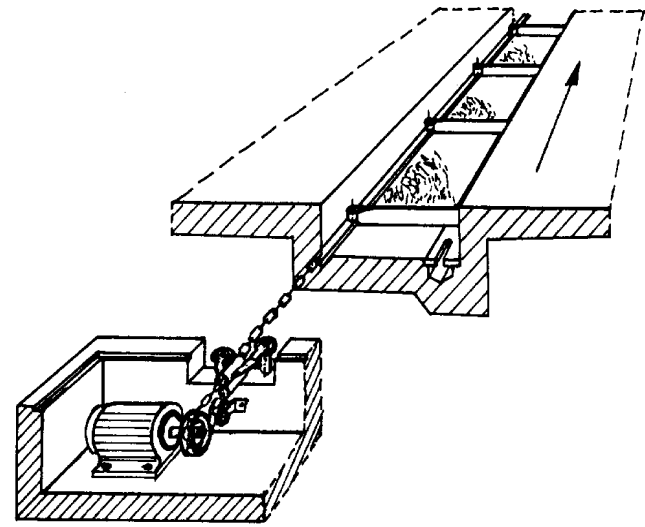
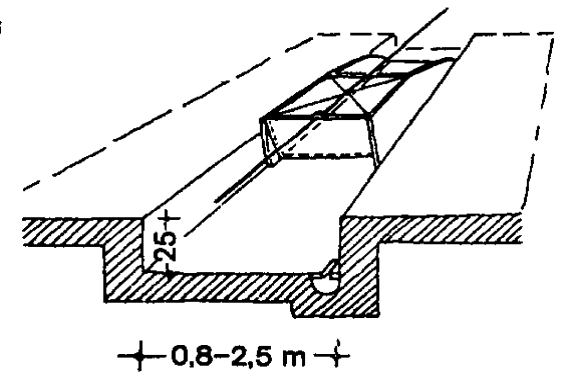
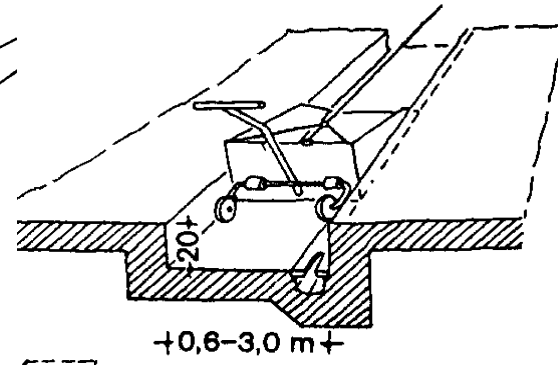
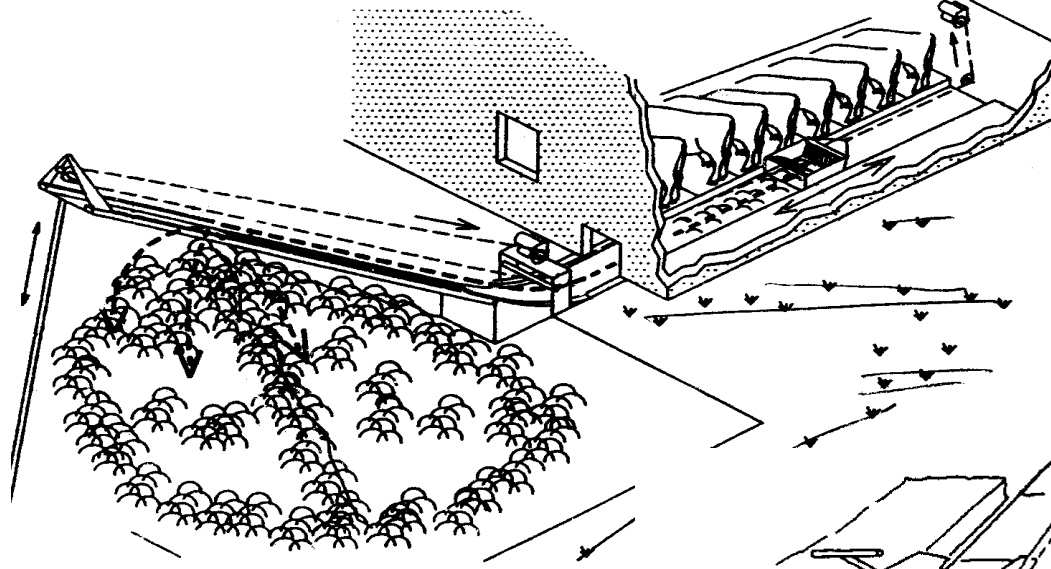


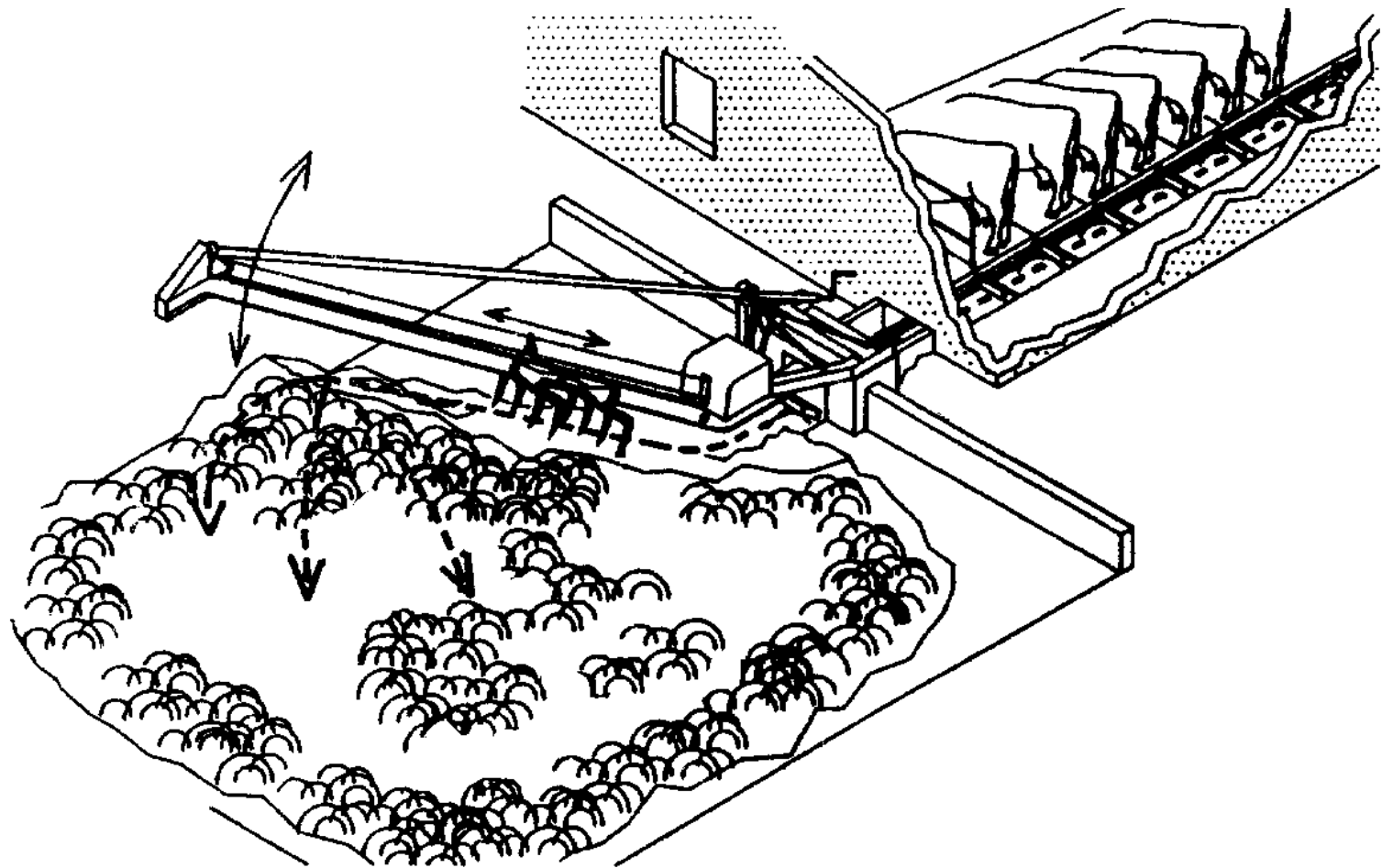


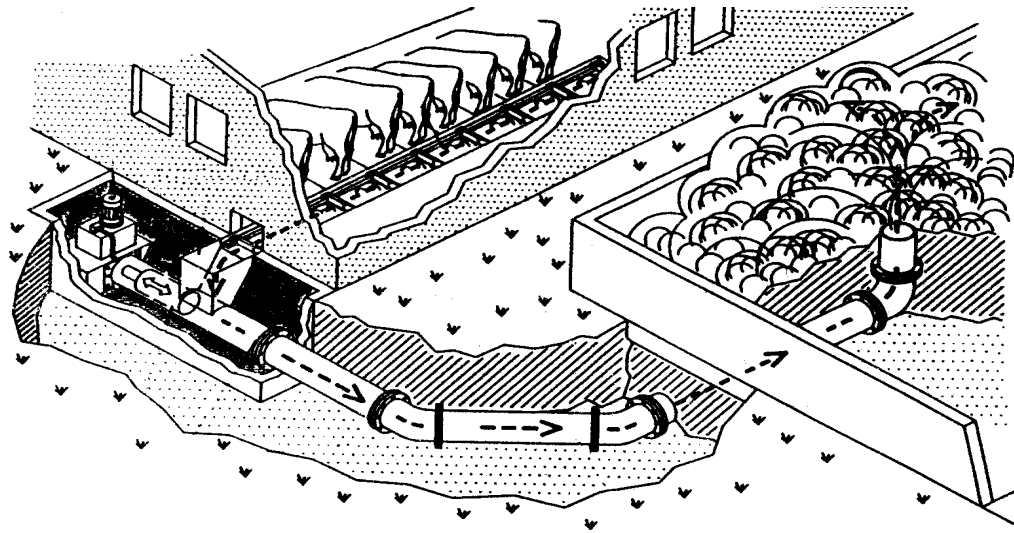
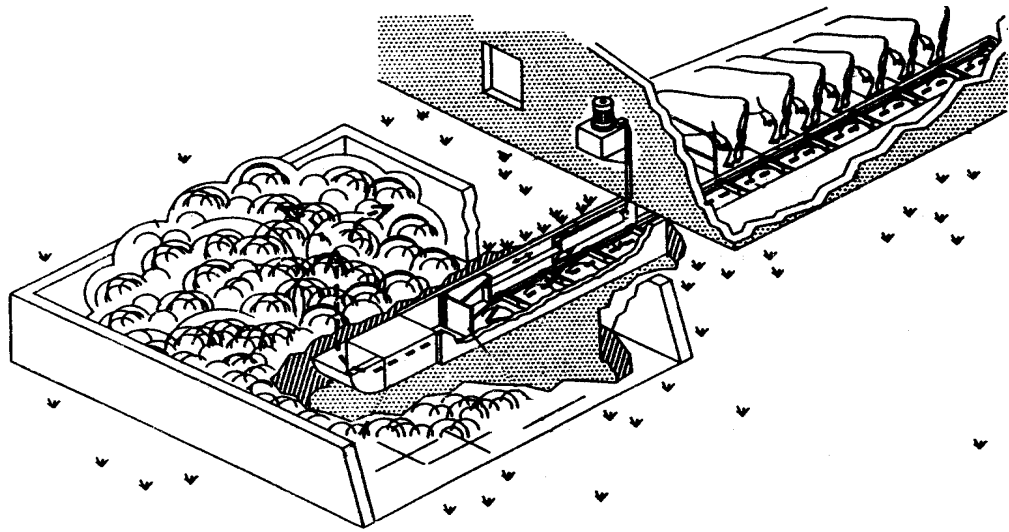




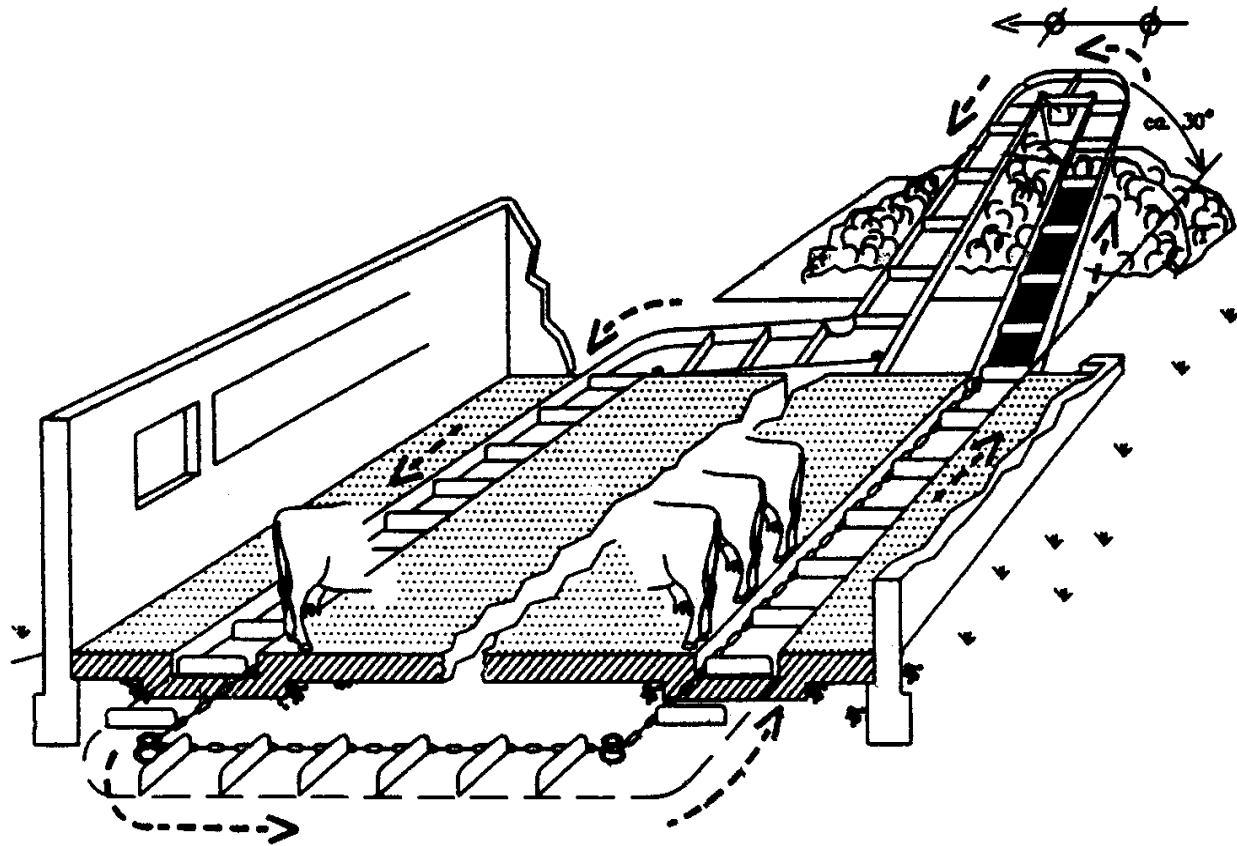




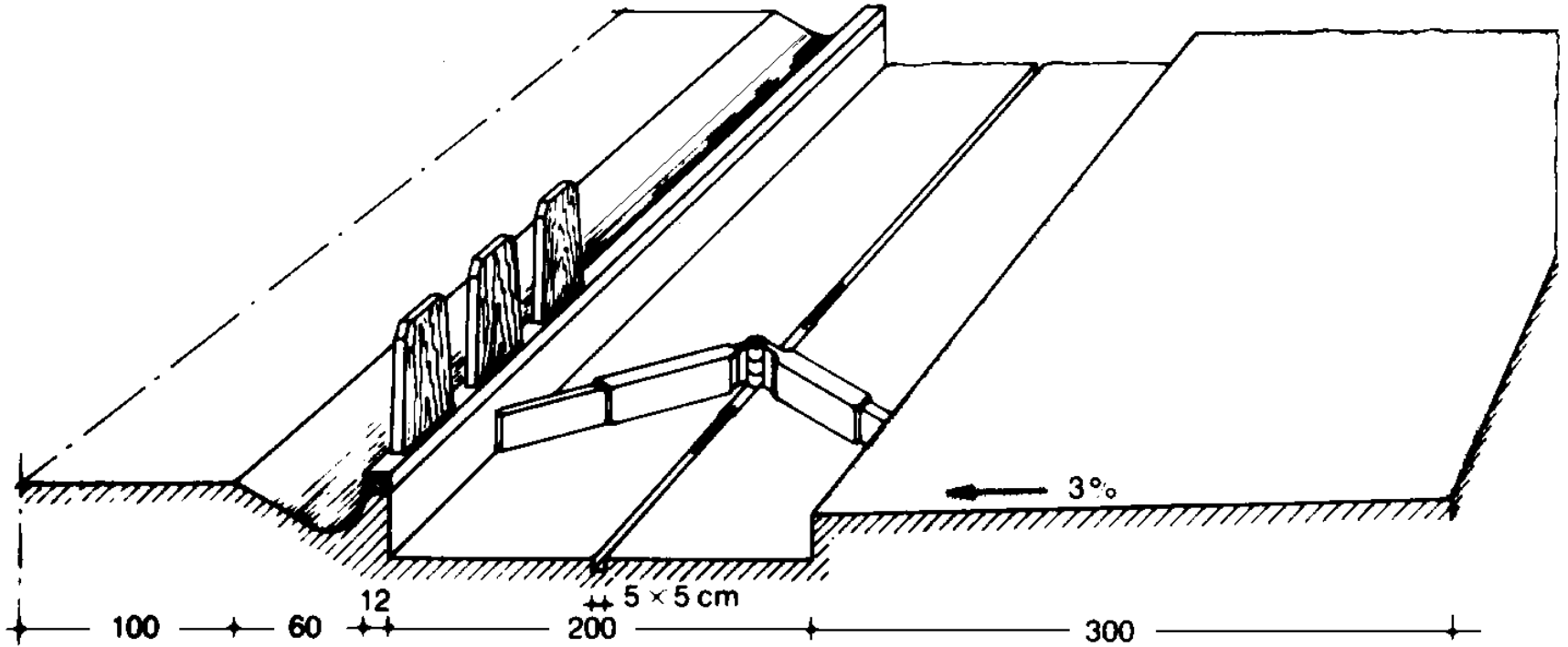
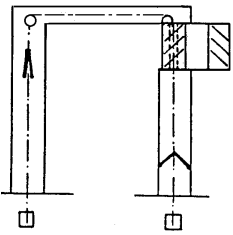




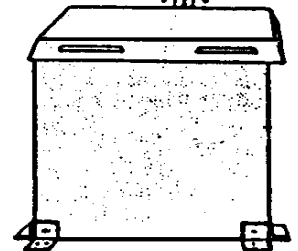
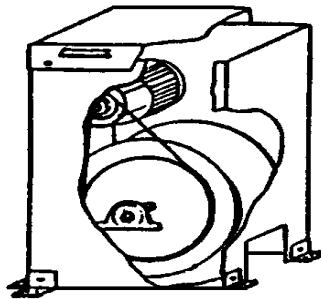
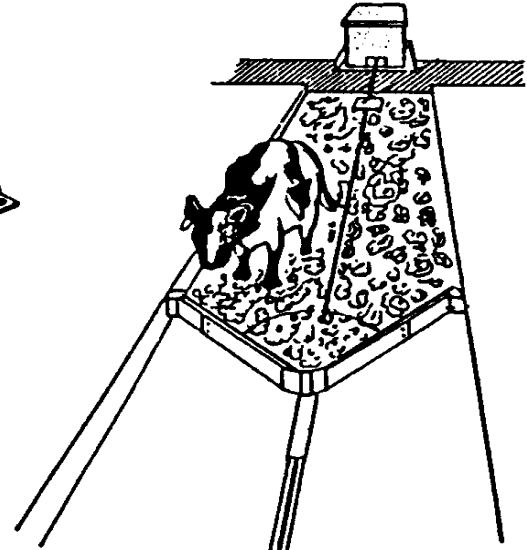
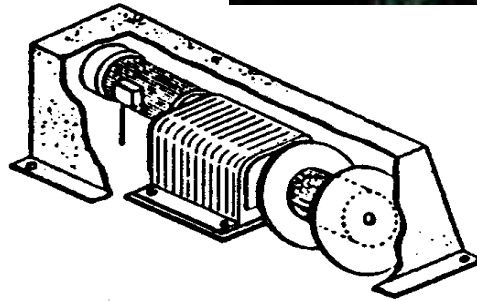


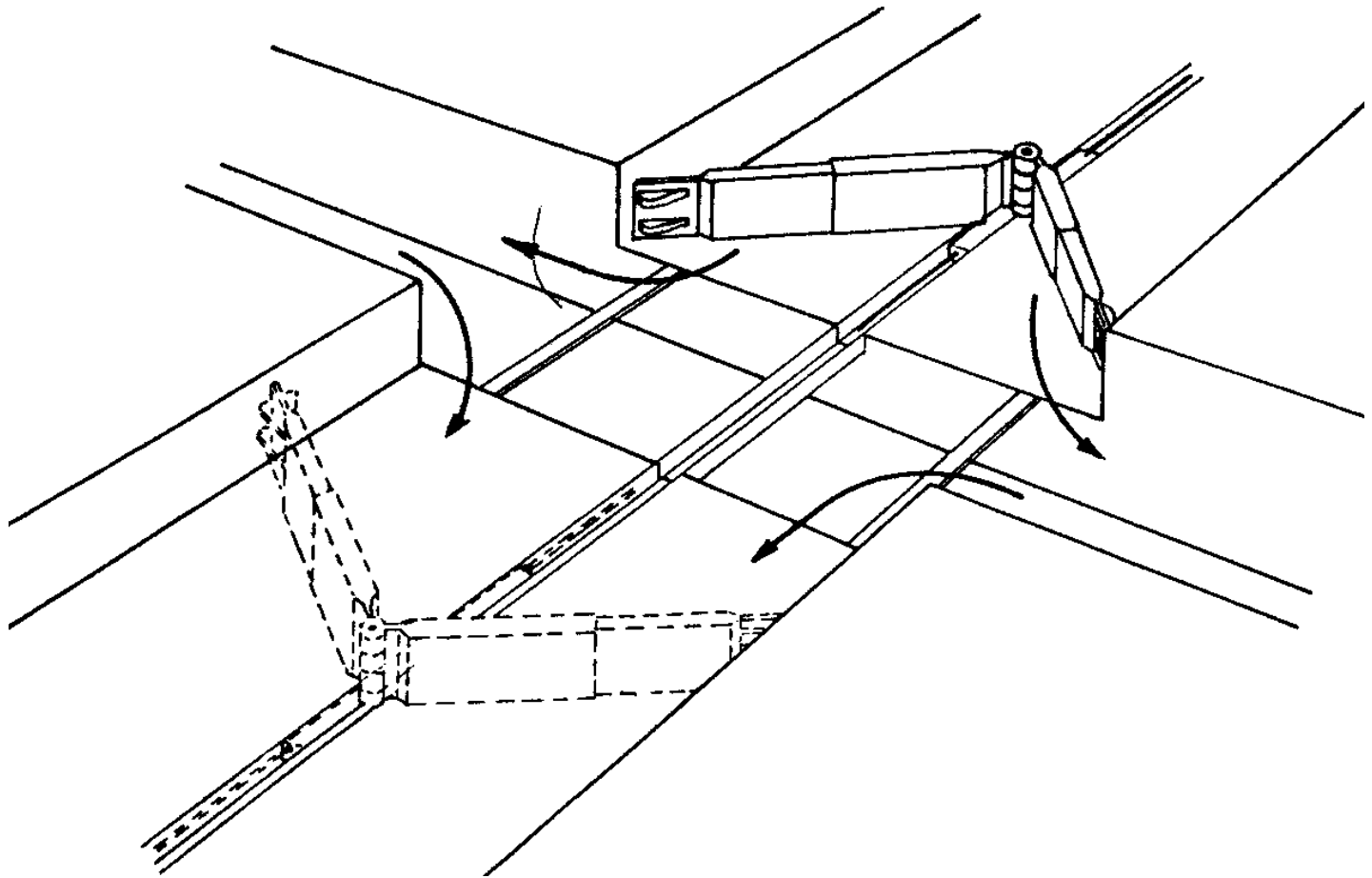




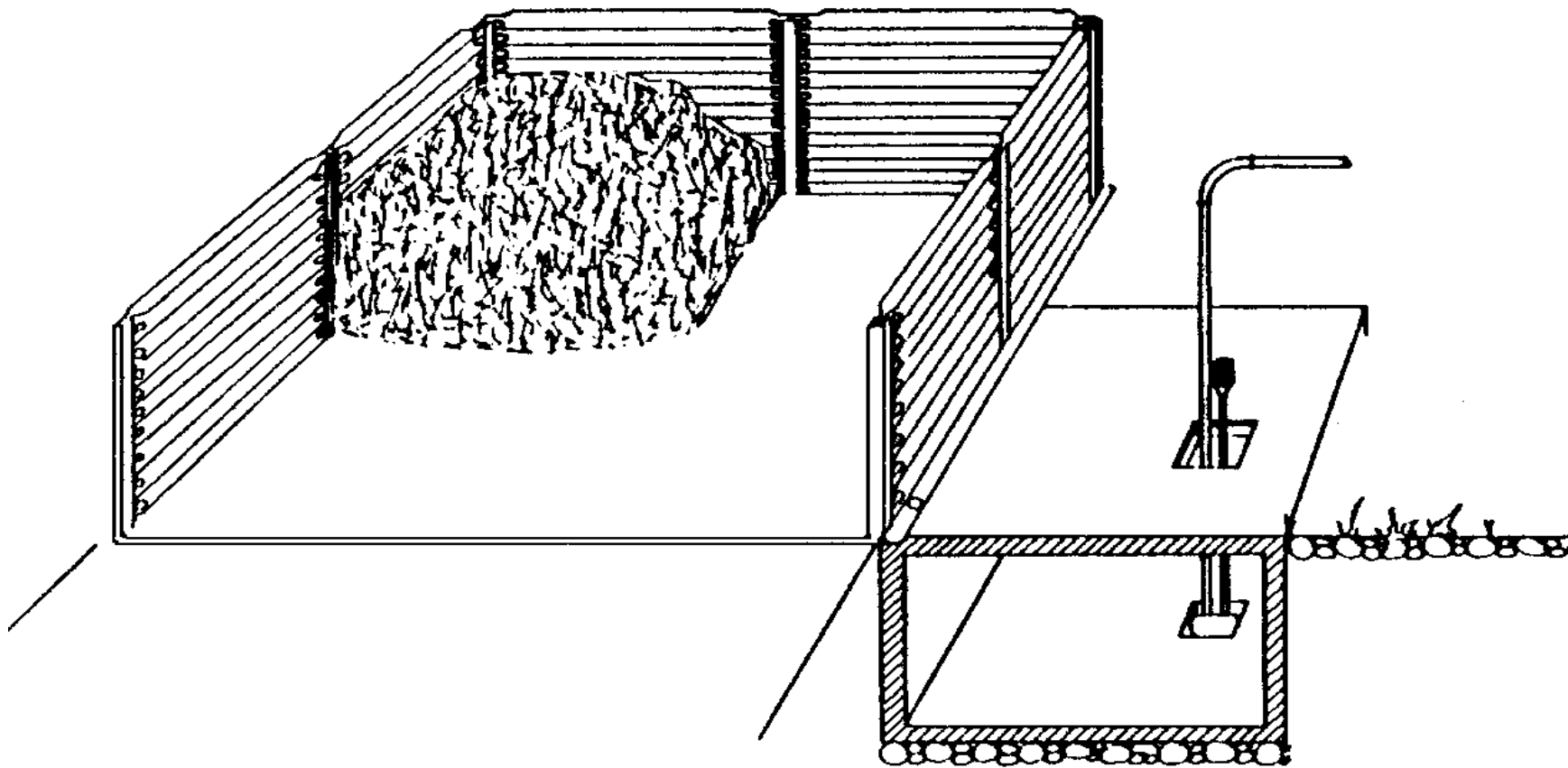




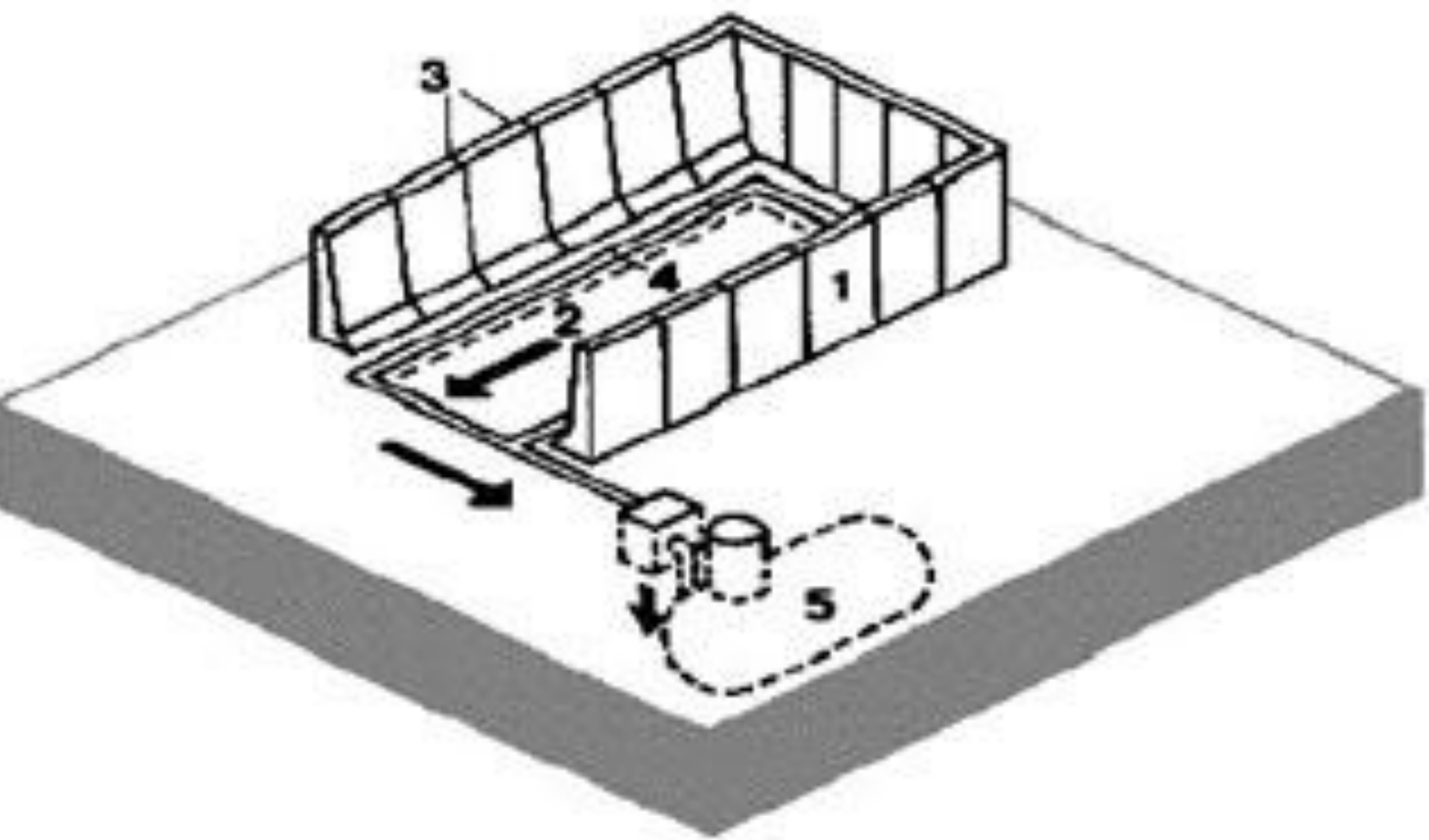


















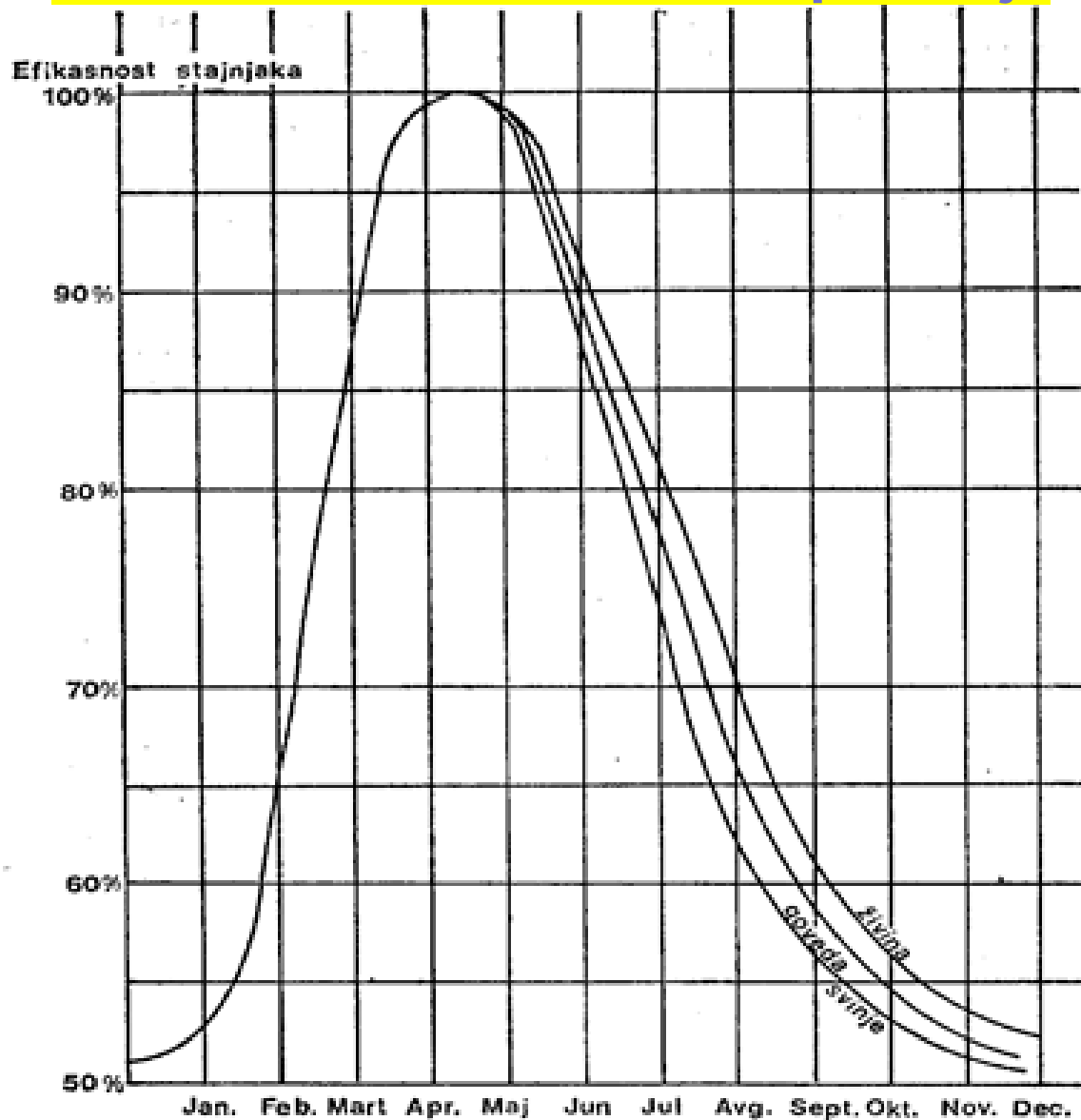




# Aplikacija tečnog stajnjaka



# Iskorišćenje sadržaja tečnog stajnjaka u zavisnosti od vremena aplikacije







# Značaj aplikacije na normu tečnog stajnjaka po jedinici površine

Vrsta kulture	Tip zemljišta	Norma tečnog stajnjaka prema vremenu iznošenja (m <sup>3</sup> /ha)											
		Jan.	Febr.	Mart	Apr.	Maj	Jun	Jul	Avg.	Sept.	Okt.	Nov.	Dec.
Ozima pšenica	-	< 20 - 30 >.....											
	+	< 20 - 30 >.....<											
Jara pšenica	-	.....< 20 - 40 >.....											
	+	.....< 20 - 40 >											
Uljana repica	-	.....< 20 - 40 >....						.....< 20 - 30 >.....					
	+	.....< 20 - 40 >.....						.....< 20 - 40 > ....					
Šećerna repa	-	.....< 20 - 60 >.....< 40 - 60 >.....											
	+	.....< 40 - 60 >.....< 40 - 60 >.....											
Stočna repa	-	.....< 50 - 80 >.....< 30 - 50 >.....											
	+	.....< 50 - 80 >.....< 30 - 50 >.....											
Kukuruz	-	.....< 40 - 70 >.....											
	+	.....< 40 - 80 >.....											
Krompir	-	.....< 20 - 40 >.....											
	+	.....< 20 - 50 >.....											
Livade	-	.....< 20 - 20 >.....< 20 >.....< 20 >.....											
	+												
Strnjika	-	< 30 - 50 >.....											
	+	< 30 - 60 >.....											

- lako zemljište    + teško zemljište





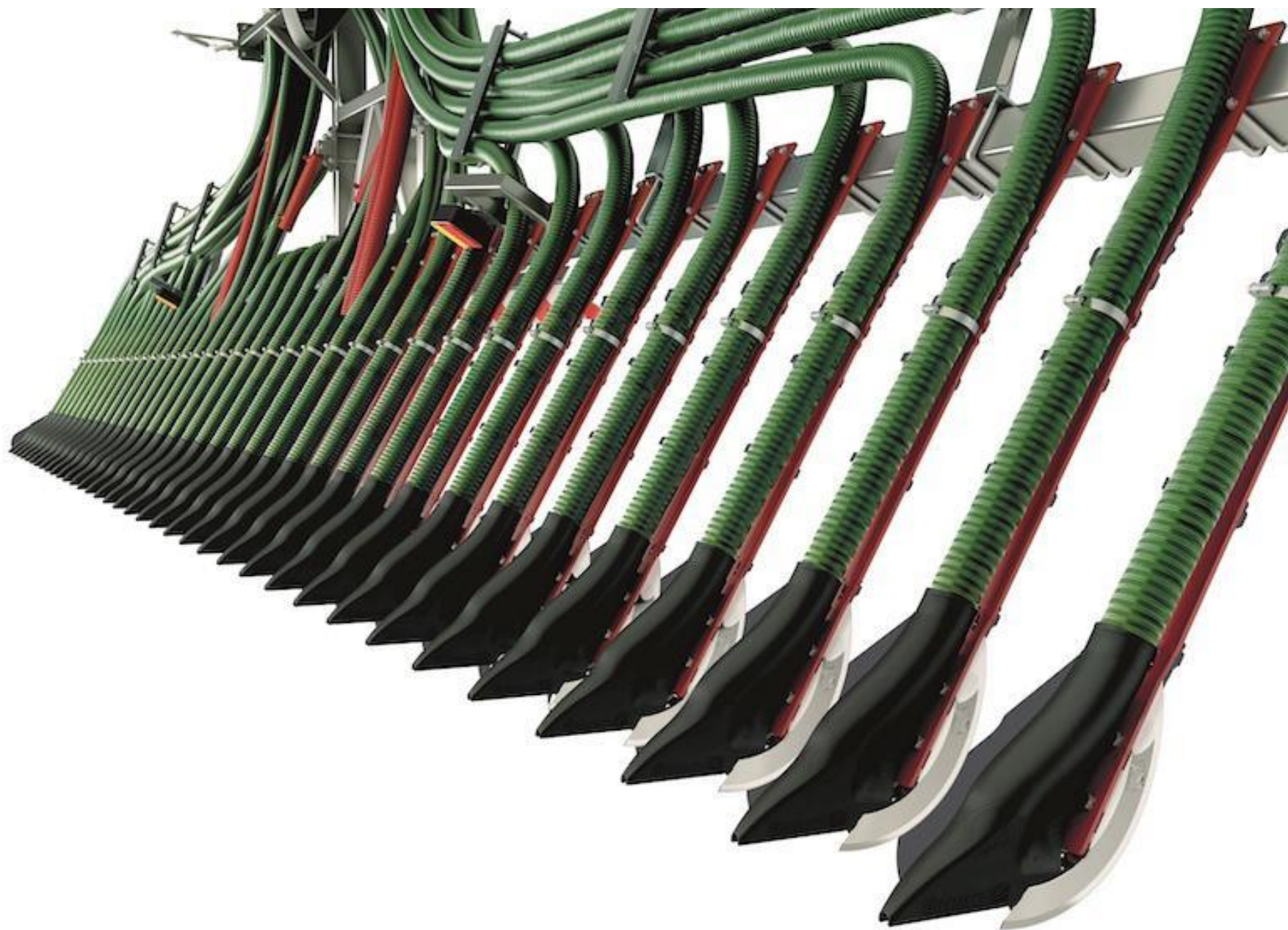










































































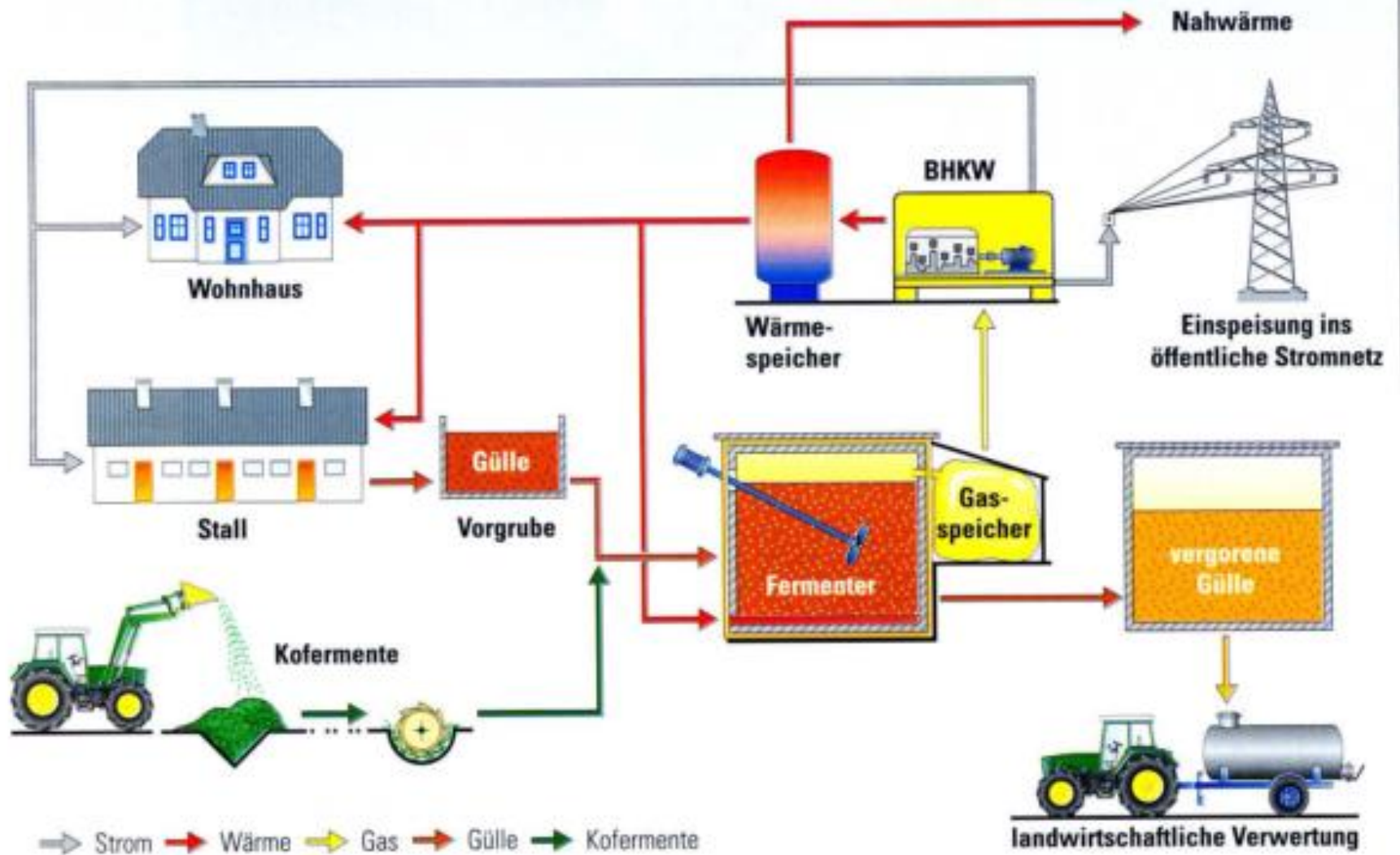




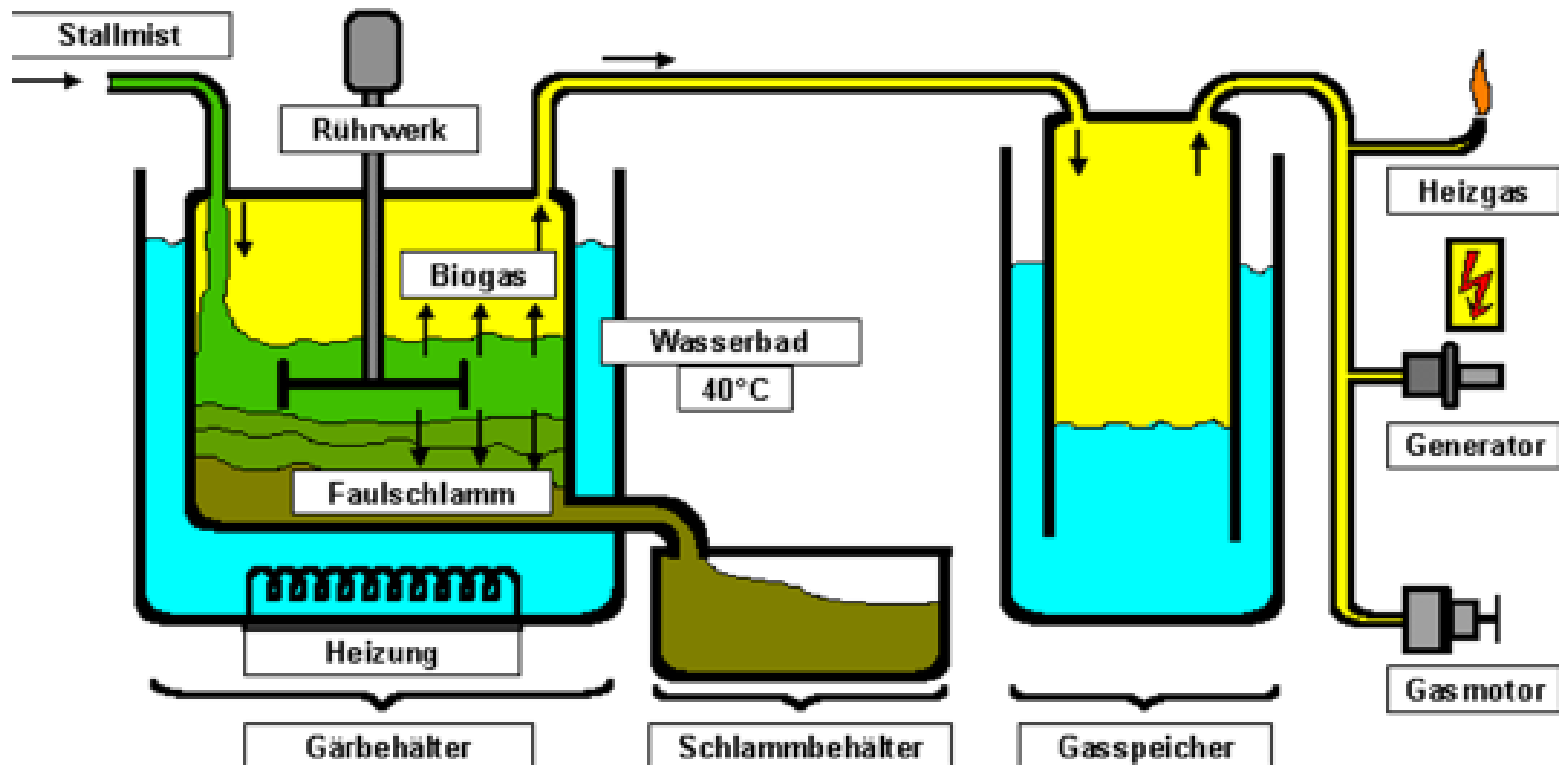








# Funktionsweise einer Biogasanlage



















# Hvala na pažnji

