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SINCE 2080

Science of Seed Processing

SILO with CONVEYOR BOTTOM

ADDAMS Rectangle Silo with Conveyor's Bottom

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The ADDAMS rectangle silo is suitable for storing grain, corn, oilseeds, and rape. The silo with a conveyor floor, however, is not ideal for pelleted and floury goods. Optionally, a version for seeds is available.

ADDAMS rectangle silos can be optimally fitted to each building. The individual cells can be up to 10 meters long, 4 meters wide, and up to 10 meters high. Single existing supports within the building can be integrated into the silos.

In the version with the conveyor or ventilation floor, the silo can be used as a cold air dryer. In the ADDAMS ventilation silo, grain can be stored with a moisture content of up to 20% and can be dried through full ventilation combined with "move". The mounted conveyor and ventilation floor can be used for either ventilation or emptying the grain.

Choose ADDAMS grain storage, for your precious crop is threatened by the following factors:

- spoilage by molds
- damage by beetles
- can be eaten by rats and mice
- may be contaminated by cats

The rectangular silos by ADDAMS are available in three versions:

- grounded mounting
- mounted on a hopper (screwed or welded) or
- conveyor floor installation

Advantages of ADDAMS rectangle silos

- the weather risk is reduced because the grain can be stored moist
- large quantities can be taken over and are immediately under control
- the takeover effectiveness of large quantities guarantees also a busy harvester-use
- reduction of worktops - thus lower costs
- conservation of the crop for more extended periods at a low cost and time taken
- high sales proceeds during seasonal fluctuations
- exact design - therefore easy and fast assembly
- all elements are galvanized - modular system
- favourable "price-benefit ratio".

A lot of reasons to argue for conveyor-bottom:

Pollution:
The union of ventilation and grain removal saves conveyors above all in several cells.

Conveyor's bottom:
The removal by conveyor bottom is wear-free and handles the grain with care.

Plate between the bottom and the grain:
Through the complete separation of ground and grain, no ground moisture can reach the storage grain.

Excellent ventilation:
The ventilation is excellent through the big air exit surface. Cooling of the grain through winter ventilation at 10°C is possible and protects it from insects.

Storage of grain up to 17% humidity:
Due to the good ventilation of the grain, it can be stored at a maximum humidity of 17%. With a ventilation of 50 - 100m³ air capacity / h. /m³, you can conserve the grain and prepare it for storage.

Cold air drying:
With an air performance of the fan of approximately 100-200 m³/h per m³ of grain, cold-air drying is possible up to a maximum of 20% grain humidity. The maximum filling height is 4-5m. You have to work in as low an air humidity as possible. With a heater, the air can be heated (max. heating 4°-5°C!). Air heating via a heater reduces the relative air humidity by approximately 5% per degree Celsius. For "cold-air-drying, " a relative air humidity of approx. 65-70% is enough.

Saving space:
Through the rectangular and quadratic silos, you optimize your expensive building to its fullest potential. Finally, you don´t build your hall in a round shape.

Saving material:
Often, you can save a lot of material by a clever installation of silo cells because the first cells build parts of further cells.

You don´t waste money because of higher investment costs, but over time, it saves a lot of expenses for drying, and it is very effective against insects and is environmentally friendly. Using a conveyor belt saves a lot of time by allowing for total emptying and is a great assistance.

Advantages of the ADDAMS conveyor bottom in galvanized design:

- No hopper necessary
  ventilation and emptying all in one.
- Also suitable for rape
  The height of the ventilation slots on the ventilation sheet metal is approximately. 1.2 mm, so it is also suitable for rape.
- Effective air guide shafts
  The roof turrets are air guide shafts and direct the airflow to the nozzle sheet metal, galvanized, fixed to the roof turret.

- Empty easily
  When emptying, the conus ensures a constant grain inflow to the ventilation sheet metal and prevents grain avoidance.
- Easy montage and long life expectancy
- Simple and secure
  The way the system (per flow path one air damper) guarantees maximum safety and best performance at complete emptying.

Specification

Elements of rectangle silos:
Consists of trapeze-sheet metal elements, tube legs, and stiffening parts.

Possible sheet length:
675 mm, 1000 mm, 1250 mm, 1450 mm, 1500 mm, 1750 mm, 2000 mm, 2225 mm, 2500 mm, and 3000 mm.

Sheet height:
800 mm or 400 mm.

Legs:
1600 mm, 1200 mm, 800 mm, and 400 mm.

Calculation:
For the calculation of the silo-width of the 1st cell, you have to add 2 times the leg-width, and for every further cell, 1 time the leg-width.
When emptying, the grain current, through the opened outflow slides, causes the larger part of the grain to flow out independently. The last rest is delivered entirely by the conveying bottom (fan).

The scheme illustrates that a cell has been built. All elements are zinc-coated, without wood parts, and are screwed together. The arrows show the air current

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