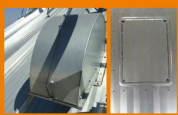


SILO AND ACCESSORIES



ROOF VENTS

Special designed aeration vents provides to exhaust air while preventing the insects and birds to get inside the silo. Also inside the vents there are special ailerons which helps to prevent snow and rain leakage inside the silo. According to the customer demands aeration vents are suitable to integrate for fumigation by manual and electrical lids. On the other hand, as seen in the photo side pre-cut roof exhaust fan opening on the roof panels provides, easy installation and surrounding embossment to ensure water run-off, insulation and increased rigidity.



EXHAUST FANS

Exhaust fans provides to discharge the humid air and grain dust out of silo. It's design is compatible with roof panels so there is no need to use for an extra connection part. Seen in the photo side, pre-cut roof exhaust fan opening on the roof panels provides, easy installation and surrounding embossment to ensure water run-off, insulation and increased rigidity.



WIND RINGS

Wind rings and wind ring brackets reduce bolt holes in stiffeners, resulting increased wind load capacity. Also during filling and discharge process, also resist the pressure and stress of the sidewalls by the help of these wind rings.



BOTTOM STIFFENER CONNECTION PARTS

Galvanized and bolted bottom stiffener connection parts have superiority when you compare with other companies similar parts against corrosion and calculated silo loads.



ROOF WIND RINGS

Roof wind rings provides to keep roof panels together and a robust roof structure against wind loads. Also wind rings provides security and convenience if roof work or inspection is needed.



ROOF OBSERVATION HATCH

Roof observation hatch located near roof ladder and very easy access from resting platform. The hatch isolated perfectly and provides to control the product inside the silo.



LADDERS AND RESTING PLATFORMS

Roof access is provided by safety sidewall ladders. Spacing between sidewall ladder and sidewall and embossing on the ladder steps are specially designed for safety. This design provides extra safety while climbing and sliding down to the silo and prevent sliding. Resting platforms are located at certain levels according to related American and European standards and it provides ascending-descending ladder safety in comfort. Inside ladders are also available for maintenance and inspection inside silo.

According to the customer demands and specially designed roof ladders with handrails can be manufactured which are extra comfortable and safe accessories.



ROOF RAILINGS

Roof railings are designed for occupational safety for possible roof work. According to the customer demands special roof railings can be manufactured which provides to surround all roof for extra security.



MANHOLE AND STEP

Manhole is offered in two different types as round or rectangle type. Manhole is located on second bottom ring for entering silo when silo is empty. By the help of inner cover of manhole, opening of the door is prevented when silo is loaded and safe usage is provided. All necessary calculations made against grain pressure and manhole is designed very robust with its special fortified frame. Insulation is also provided with special parts. There is a small lid on the inner cover of the manhole for specimen. Galvanized steel step providing step up to walk-in doors or other hard to reach areas.



SIDEWALLS AND STIFFENERS

BBICA Storx manufactures silos from narrow corrugated sidewall sheet (70mm/2.75") which is the optimum value for easy bolted installation and stronger silo design. When corrugation size is too narrow installation of the bolts may cause some problem if corrugation size is too wide resistance of silo is decreased. BBICA Storx uses S350GD+Z quality hot-dip galvanized steel from the World top steel producers. BBICA Storx delivers test certificates of its raw material. Sidewall and stiffener sheets have min. 350N/mm² (51.000 psi) yield and 420N/mm² (61.000 psi) tensile values and produced as min. 350g/m² or higher galvanneal coating. BBICA Storx's stiffeners are specially designed with 6 twist in order to give more resistance to stiffeners unlike other competitors.

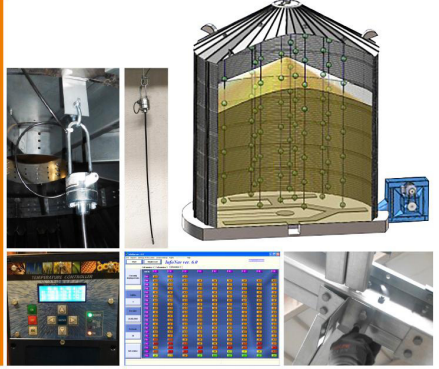


TEMPERATURE MONITORING AND CONTROL SYSTEMS

Temperature control systems can help to monitor temperature values of stored grain in silos that are installed in silo roof. Inside wire cable are placed micro-sensors that specially developed and which are durable from -55 °C to +127.5 °C of temperature. The special structure of wire cables helps strong stretching, flexibility, (45kn) and provides resistance to lateral pressure. It is covered with polyethylene insulation.

It's approved for medical and food industries. Reports of data and visualization is done through the control panel with LCD display.

According to the customer demands software with pc support can be adapted. It provides continuous and reliable temperature of the grain. It transfers all information to the system, create a profile for stored grain and provides the ability to choose the right technology to maintain. Also it is optional to provide automatic ventilation management. This is an automation that the software controlled and the software evaluate all information from temperature and humidity of the environment and obtained from system thermo control values.

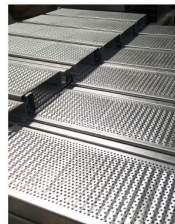


VENTILATION SHEETS

Designed and produced in accordance with the capacity of the silo and the specification of the product to be stored, ventilation channels are installed into the concrete during the basic reinforced concrete construction of the silo. These channels are coated with specially treated, galvanized slotted sheets which are designed according to the product specification.

BBICA Storx can manufacture plug-in type perforated aeration sheet which have high durability and easy to assembly and maintenance.

Small sized grains like rape seed, canola could also be aerated with this type of aeration sheet. The aeration sheet supports are manufactured from S350 GD steel quality with cold forming as U type that makes them robust. According to the customer demands BBICA Storx can manufacture full floor type aeration system in some conditions that grain need max. flow permeability.



VENTILATION FAN

Centrifugal fans frame is designed as galvanized steel for its long lasting against corrosion. Ailerons specially designed in order to get maximum efficiency by shedding its dynamic balance. Centrifugal fan selection depends on silo diameter, height, product inside silo and according to the calculations which made by expert engineers.

Ventilation systems decrease the moisture level and prevent the emergence of pests while they diminish the deterioration rate of the grain inside the silo.

