

“Grains happy with MYSiLO”

# MYSiLO<sup>®</sup>

GRAIN STORAGE SYSTEMS



[www.mysilo.com](http://www.mysilo.com)



# MYSILO®

## DISCOVER THE POTENTIAL



### Our Vision

To be the first company that comes to mind in the grain storage and handling equipments need of everyone who cares about their money and time.



### Our Mission

Is to aim our bussiness partners' happiness, present them such an understanding that makes life easier and cares.



### Our Values

- ✓Trustworthy
- ✓Sensetive
- ✓Powerful
- ✓Sharing
- ✓Innovative
- ✓Fast
- ✓Cleanness
- ✓Customer-focused

## » About Us

Mysilo was founded in 2000 to manufacture grain storage silos and handling equipments with the 40 years' Milling Industry experience.

Since the foundation, Mysilo has successfully delivered more than 2000 silo sites projects to over 2.500 customers in more than 80 countries on 5 continents by the great contribution of over 800 expertised staff. Mysilo has become a young, innovative, ever-growing, expert and leader company in the industry.

Annually, 40 million tons of grain is safely stored in Mysilo grain storage silos. Mysilo, representing a consistent performance and sustainable growth in the industry, as the biggest silo manufacturer in Europe.

### **MYSiLO®**

Manages international sales and marketing activities .

### **SILOPORT®**

Producer of our company . Also carries out engineering and R & D Works.

### **SILOPARK®**

Manages domestic sales and construction operations.

### **MYSiLO LiDAŞ®**

Manages licensed grain storage operations.



## » Design and Norms

There are five factors which impact on the design of steel silos.

### **Loads ;**

- » Seismic Load
- » Wind Load
- » Snow Load
- » Weather Conditions

### **Grain to be stored ;**

- » Density
- » Moisture Rate
- » Impurity
- » Duration of storage

### **Aeration Design ;**

- » Dust Suction
- » Cleaning
- » Fumigation

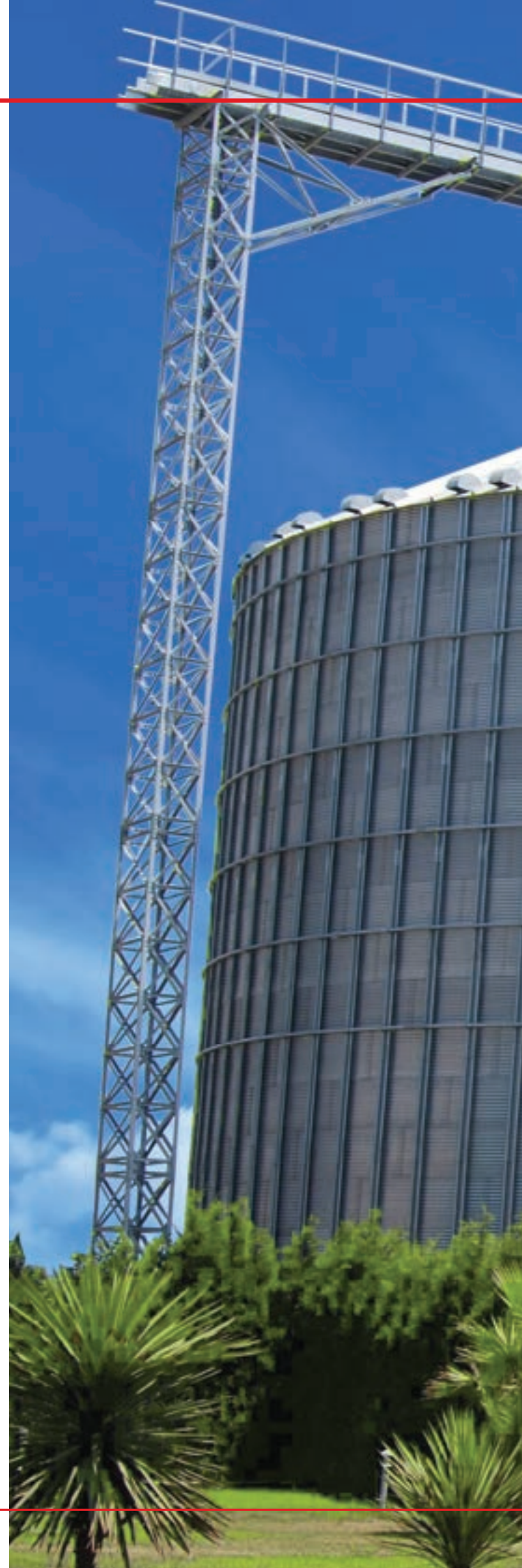
### **Requirements of the customer;**

- » Annual loading and unloading capacity
- » Field Measurements

Ground Conditions and lots of other criteria are considered in the design of silos.

Silo static calculation is made according to following norms and standarts ;

- » ASABE 2008 EP433,
- » 2007 AISI Cold Formed Steel Design,
- » DIN 1055-6 Design Loads for Building and Silos,
- » EN 1991-4 (2006) : Eurocode 1,
- » Any other required norms.







**Mysilo is the biggest silo  
manufacturer in Europe.**





## » Flat Bottom Silos (F Model)

Mysilo flat bottom silos are used for the long term storage requirements and high capacity storage with diameters varying from 4.58 m to 41,25 m and capacity up to 38.736 m<sup>3</sup>.





**“Grains are happy with Mysilo”**



## » Commercial Hopper Silos (CH Model)

Mysilo Commercial Hopper Silos are suitable for high capacity storage requirements, continuous loading and unloading needs at the facilities, collation and classification before drying process. The hopper bottom silos prevent time, energy, and financial losses during these processes.

Hopper angles are offered as 37° - 40° - 45° or 60° degrees according to silo diameter and grain type to be stored. Commercial Hopper Silos are presented with diameters from 4.58 m to 12.33 m and capacity up to 2528 m<sup>3</sup>.

Mysilo Commercial Hopper Silos have very strong structure thanks to specially designed steel construction and support columns that ensure the successful transfer of loads in the silo to the ground.









## » Economical Hopper Silos (EH Model)

Economical Hopper Silos are suitable for low capacity grain and feed storage needs. Economical Hopper Silos are designed for easy unloading and safe storage of the grain and feed. Economical hopper silos have diameter options between 2,75<sup>3</sup> and 6,41<sup>3</sup> with up to 270m<sup>3</sup> capacity. The angle of the hopper silos are designed as 45° - or 60° according to the grain to be stored.







## » Farm Silos (FS Model)

Farm type silos are manufactured up to 14,50 m height and 2500 m<sup>3</sup> capacity, and at varying diameters between 4,58 m and 16,50 m. Farm type silos are designed as non-stiffened. Thus the silo assembly is easier and the appearance is more elegant.

Advantages of farm silos;

- Easy to assemble,
- Lower substructure cost,
- More effective use of special aeration design compared to other models,
- User-friendly design.





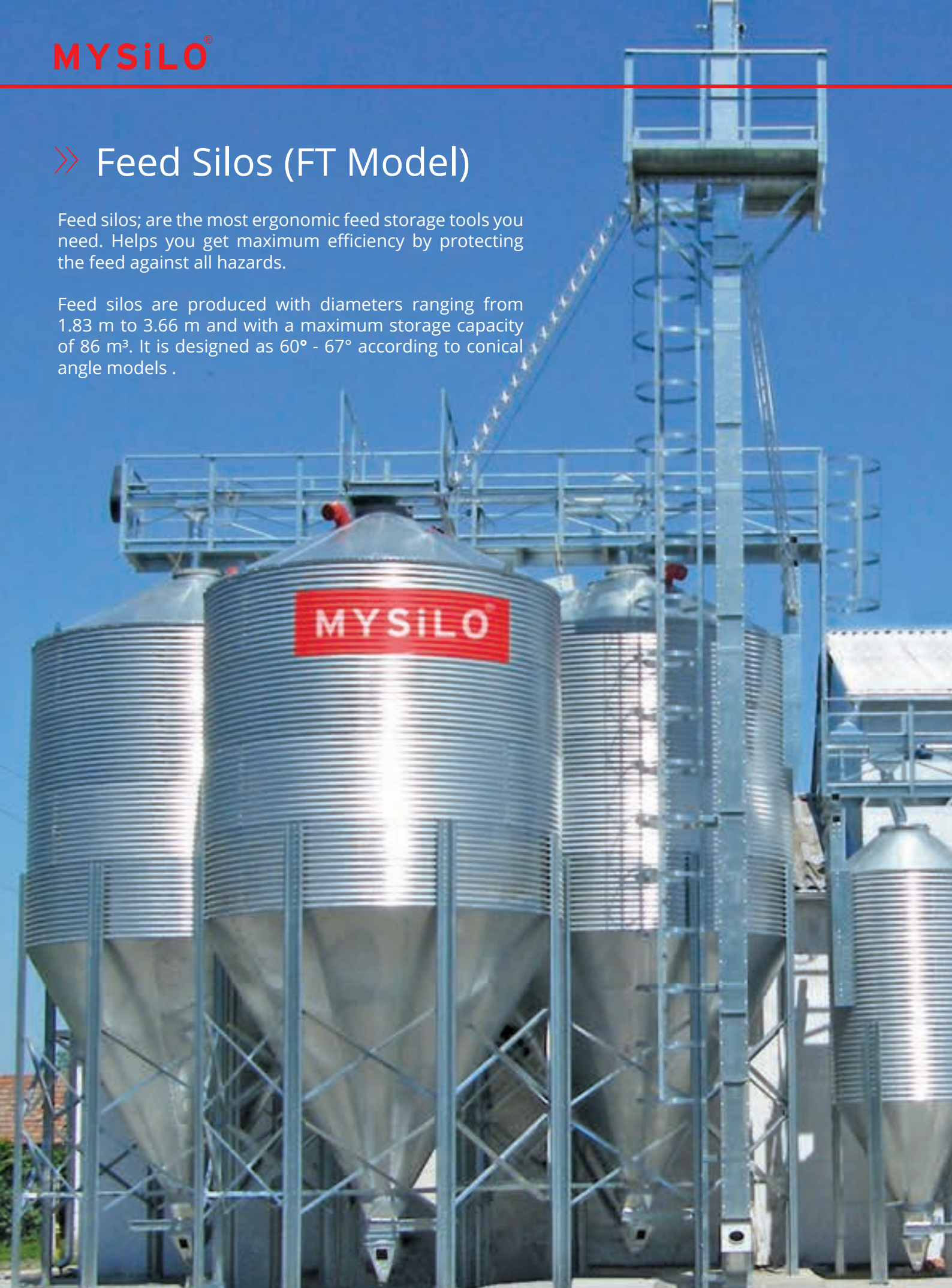




## » Feed Silos (FT Model)

Feed silos; are the most ergonomic feed storage tools you need. Helps you get maximum efficiency by protecting the feed against all hazards.

Feed silos are produced with diameters ranging from 1.83 m to 3.66 m and with a maximum storage capacity of 86 m<sup>3</sup>. It is designed as 60° - 67° according to conical angle models .









## » Roof

Silo roofs are designed as beamed or beamless forms according to the need and load-carrying capacity. In order to maintain optimum storage capacity level, all roofs are resigned with 30° natural angles.

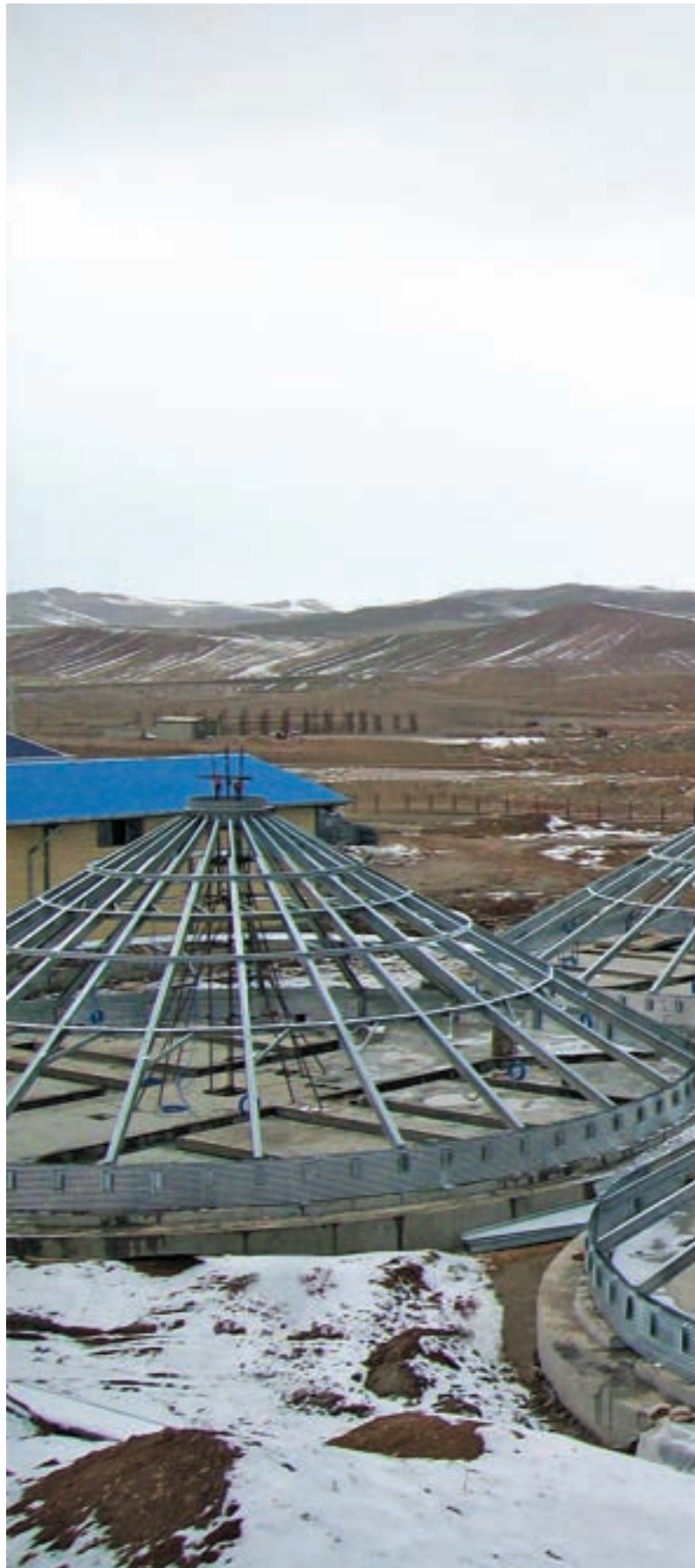
Optionally, roofs are also designed according to different load-bearing capacities.

### Roof Beam Structure

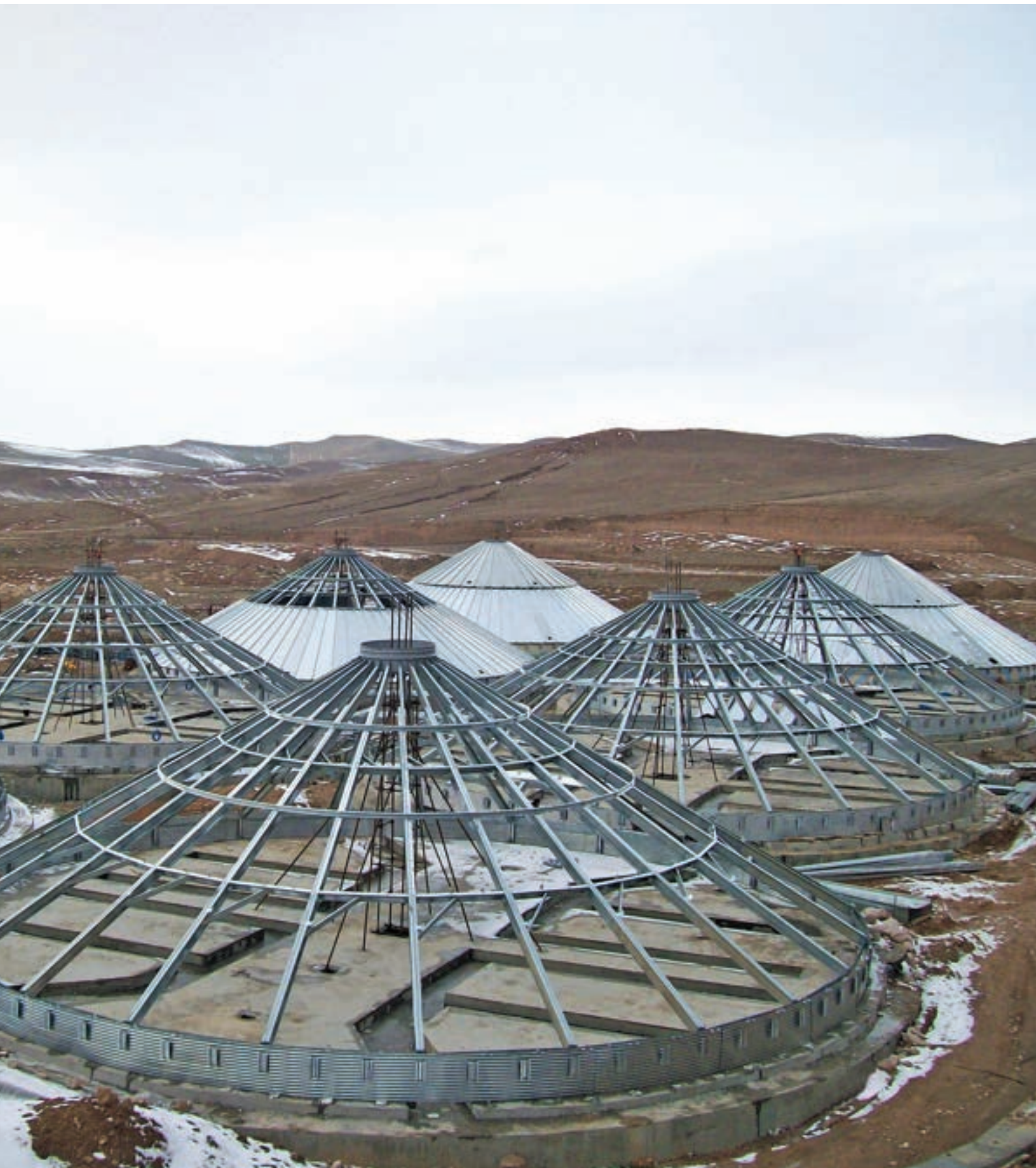
C profile roof beam structure has more loading capacity comparing to the competitors that use Z or other profile structures.

### Roof Panel Curve

Roof beams designed as C Profile having the depth of 75 mm and more bended offers more durability than the competitor's designs such as Z profile type beams or 7 type overlapping of the roof panels. Mysilo gives a great advantage of easy installation by using 3 roof panels per sidewall sheet.









## » Roof Access Door

Our new designed big size roof door offers great comfort for the operator to be in and out of the silo. Also it provides full protection against rain water leakage by its new form.





## » Roof Eave Platform (optional)

It provides safe access to the air vents during fumigation process.



## » Roof Sealing Kit (optional)

It prevents the leakage of the gas during fumigation process.





## » Roof Ladder

### Roof Ladder LB Model (optional)

LB Model Roof Ladder is designed as L shaped footsteps ,with hand-rail pipe made of with special profiles.



### Roof Ladder BB Model (optional)

BB Model Roof Ladder offers maximized safety as well as wider footsteps. In comparison to the others,







Every year more  
than 40 million tons  
of the grain is safely stored  
in Mysilo branded silos



## » Side Wall

**65 MM**

Mysilo, manufacturing more durable silos by using the narrowest corrugated sidewall sheet as 65 mm. Mysilo has a huge advantage against competitors with this feature.

We use high quality raw material with a 600 gr/m<sup>3</sup> galvanize coating. That makes silos durable against corrosion.

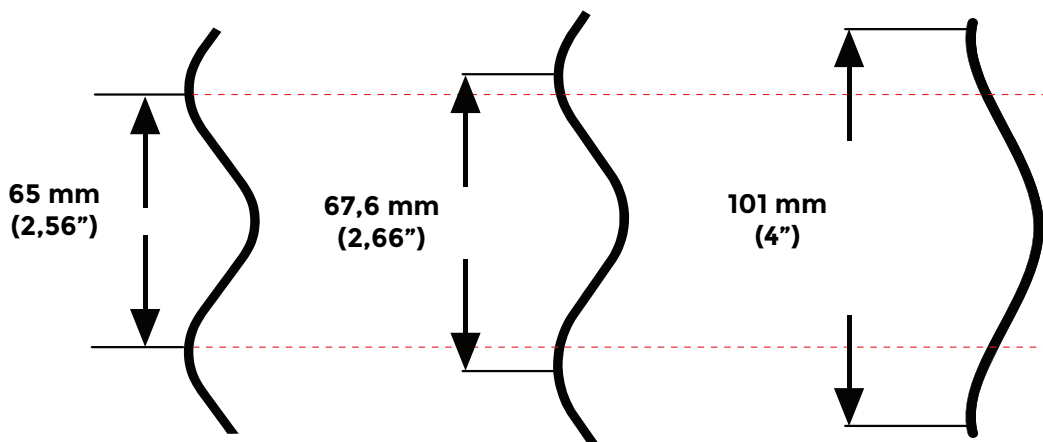
## » Bolt

**Quality 10,9**

At all junction points of sidewall sheets and stiffeners, DACROMET 500 coated 10.9 quality bolts are used in order to ensure the maximum durability. Thanks to the high-density polyethylene conical washers found in bolts, sealing is kept at the highest level.







The World's Narrowest  
Corrugated Wall Sheet

**MYSILO®**

Narrow Corrugated  
Wall Sheet

A Number of  
Companies

Wide Corrugated  
Wall Sheet

A Lot Of  
Companies



## » Galvanized Coating

**%120**

Lifespan and coating of the galvanized sheet, that is used on the silos, may vary in terms of the weather conditions of the area, loading and unloading frequency, type of the stored product and its humidity content.

We are manufacturing more durable silos compared to our competitors by using 600gr/m<sup>2</sup> galvanized coated steel on our silos.





## » Caulking

The heat and cold resistant strip mastics used in the joints of the wall sheets provide excellent sealing in any climate.





## » Stiffener

### Stiffener Ground Junction Detail

This part used for the connection of columns to the floor. This design provides ease of assembly.



## » Wind Rings

Different numbers of wind rings are used according to the silo diameter, height and the wind speed of the region.




## » Side Unloading (optional)

It is specially designed equipment to unload the silos to a certain level without spending electrical energy.







When compared with other silo producers' stiffeners, Mysilo stiffeners have more load-carrying capacity thanks to 6 times bended special design. The quantity of stiffeners on per sidewall sheet may change according to Silo diameter, height or seismic hazard of the site.

## » Silo Door

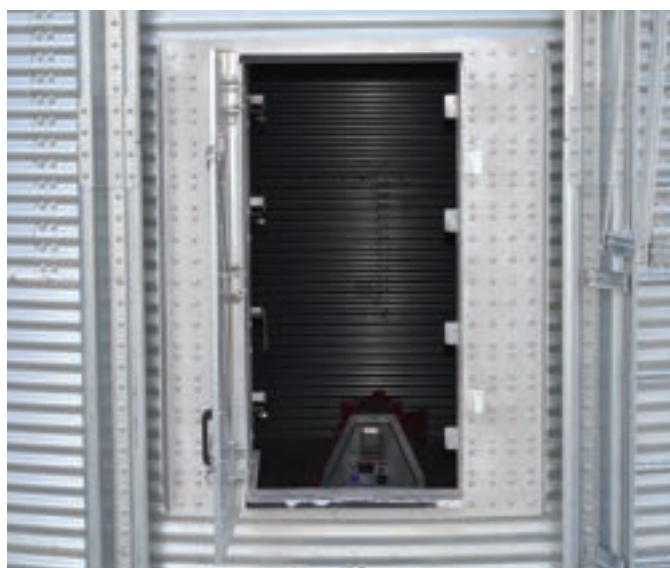
### K Model

Our K Model Sidewall Access doors are offered as standard in 05 - 14 model silos and mounted on the second ring. Safety measures have been increased and safe access has been ensured by two doors that open in and out.



### I Model (optional)

I Model Sidewall Access Doors are bigger and 1690mm taller compared to our standard doors. Entry into the silo is easier and more comfortable.









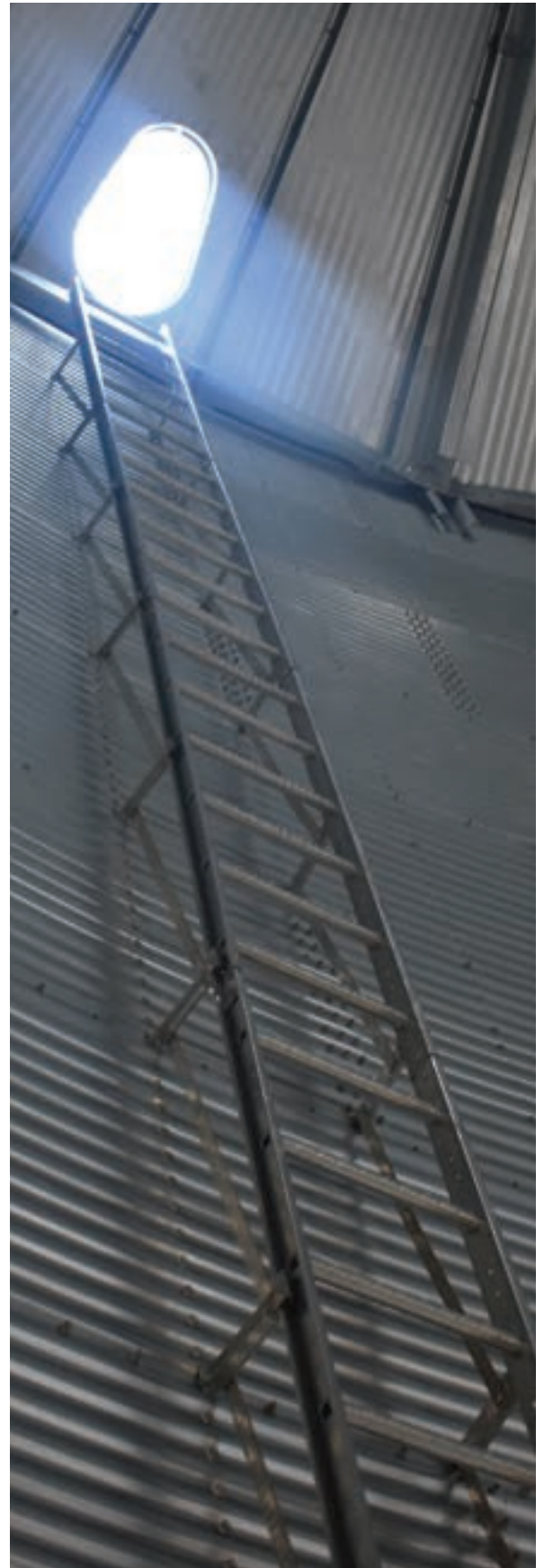
## » Ladders (optional)

### **Spiral Ladder (G Model)**

By the optionally produced stair, comfortable and safe access is provided on the silo roof.

### **Inside Ladder S Model (Optional)**

In order to unload the grain in the silo to a certain level and reach the grain safely, the sailing ladder is used.







### Outside Ladder and Safety Cage

The safety of the operator is maximized against the risk of foot slipping, by its special form and safety cage .



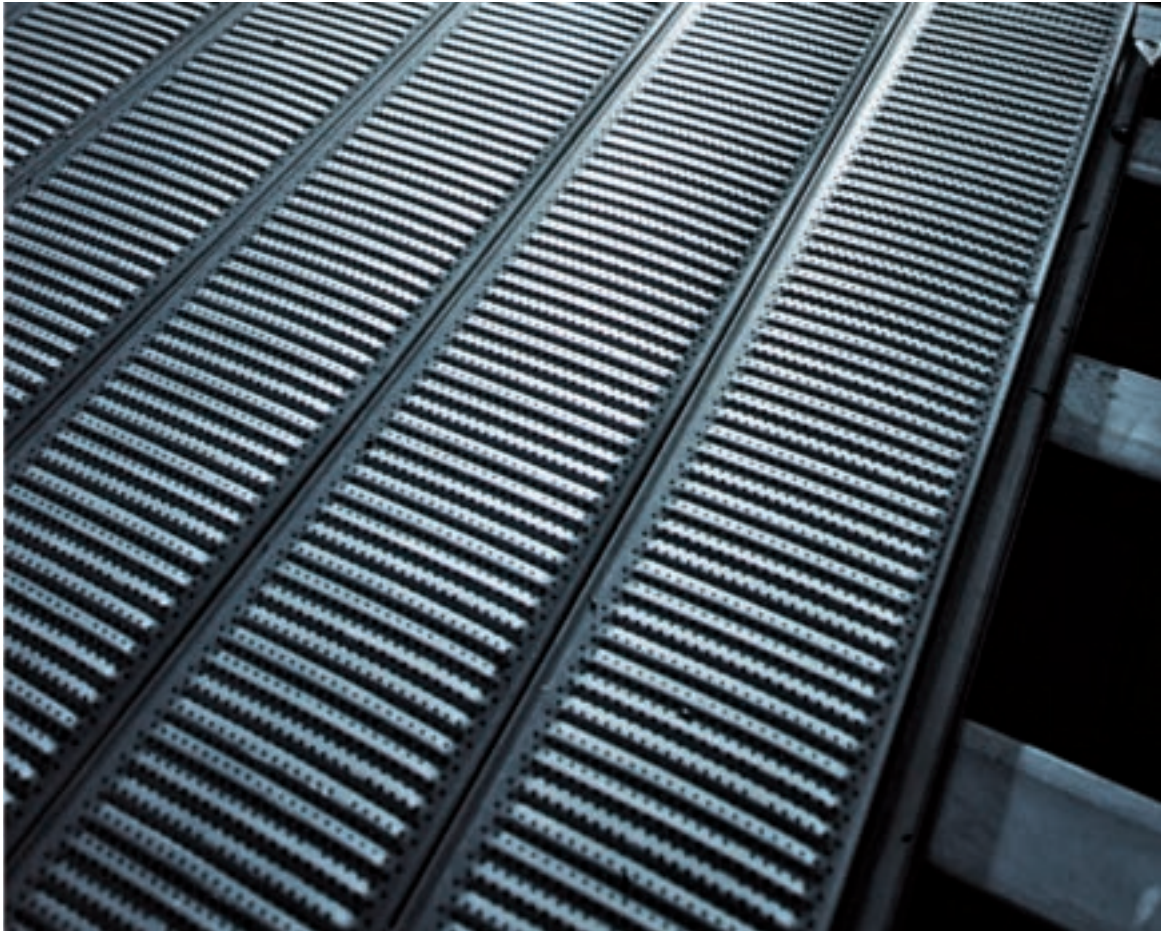
## » Aeration

Mysilo offers you special aeration systems depending on the grain type and size. Aeration grilles provide resistance against excessive loads by its unique locking system and durable support legs made of durable galvanized perforated sheet.

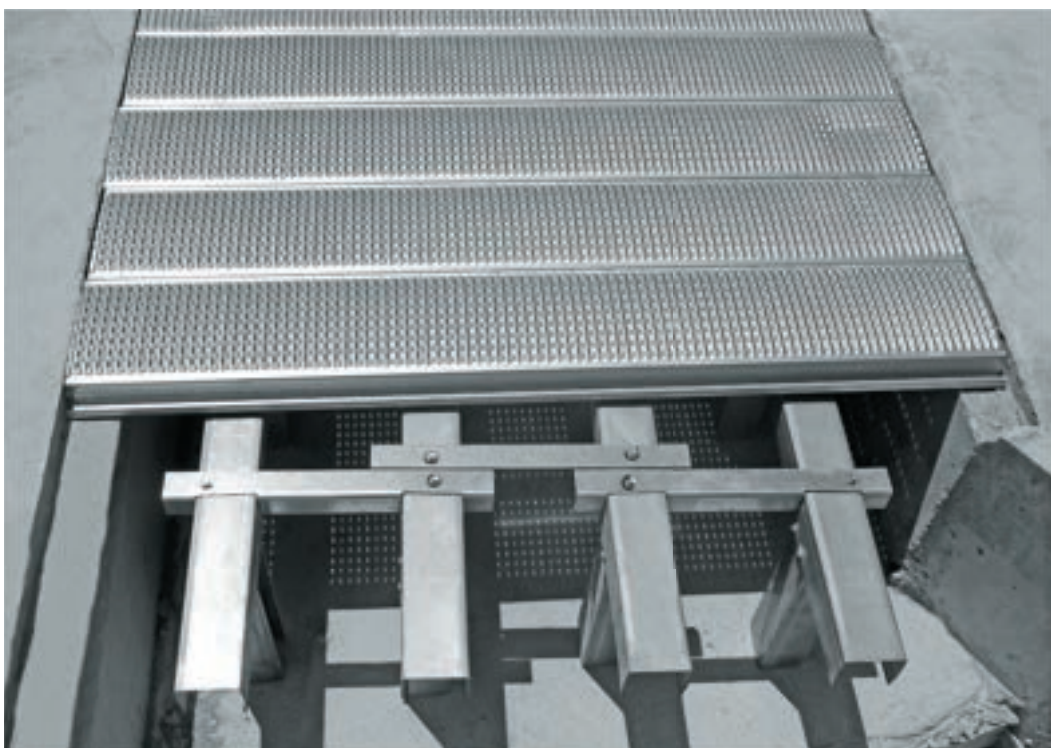




Locked Type Aeration



Monorail Type Aeration Sheet Support Leg





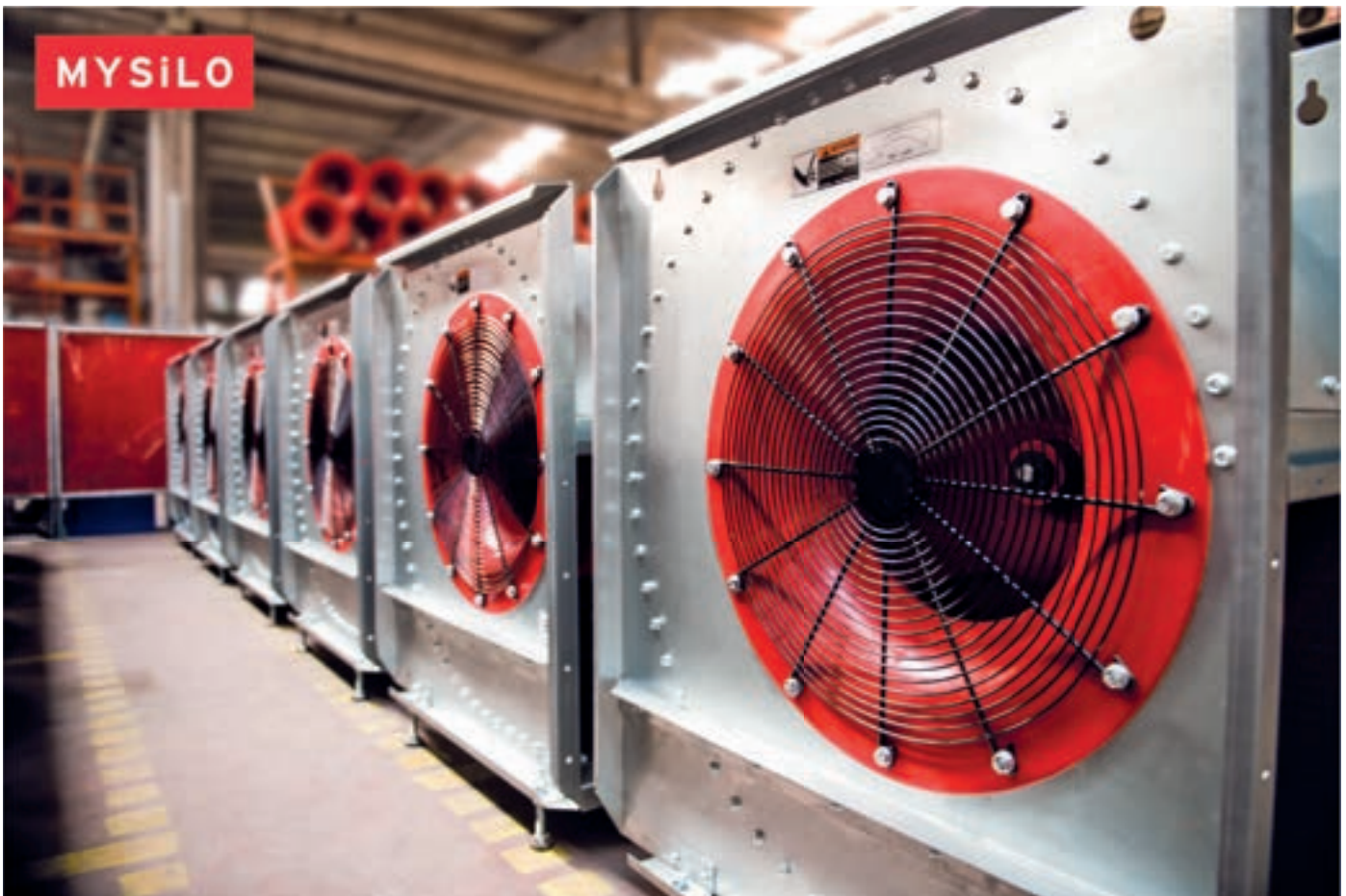
## » Fan

### Fan

Fan models are selected according to the silo capacity and the product to be stored in particular. It can be Axial or Centrifugal Fan according to the silo models and it is also offered in different strengths and numbers depending on the grain type.

### Centrifugal Fan

Centrifugal fans are designed as two options: high speed (2950 rpm) and low speed (1450 rpm). The fan housing is designed as galvanized and it is long lasting against corrosion. Turbine is designing as airfoil and dynamic balance is taking with computer balance device Through it provides high performance by decreasing noise and vibration.



### Axial Fan

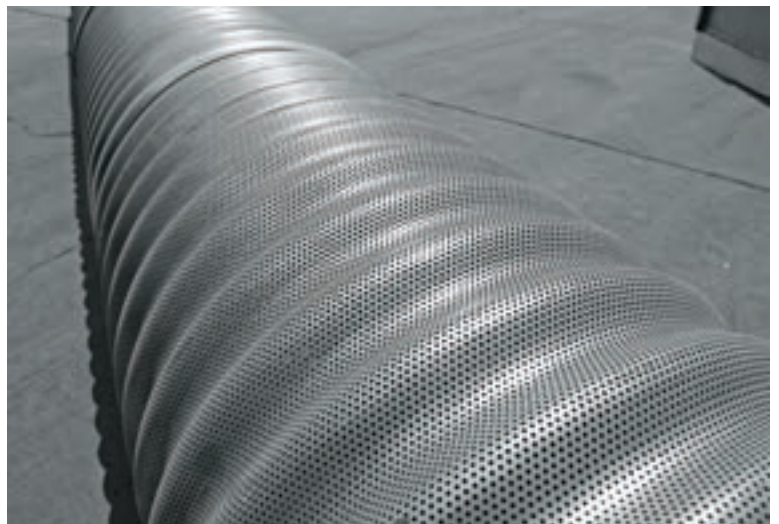
Axial fans designed for efficient long time operation are produced in different powers according to the need. The powerful motor is fixed to the galvanized fan case, preventing vibration and noise during operation. The casing of the axial fans is produced from completely galvanized sheet and its lifetime is extended against corrosion.





## Aeration System - C Series

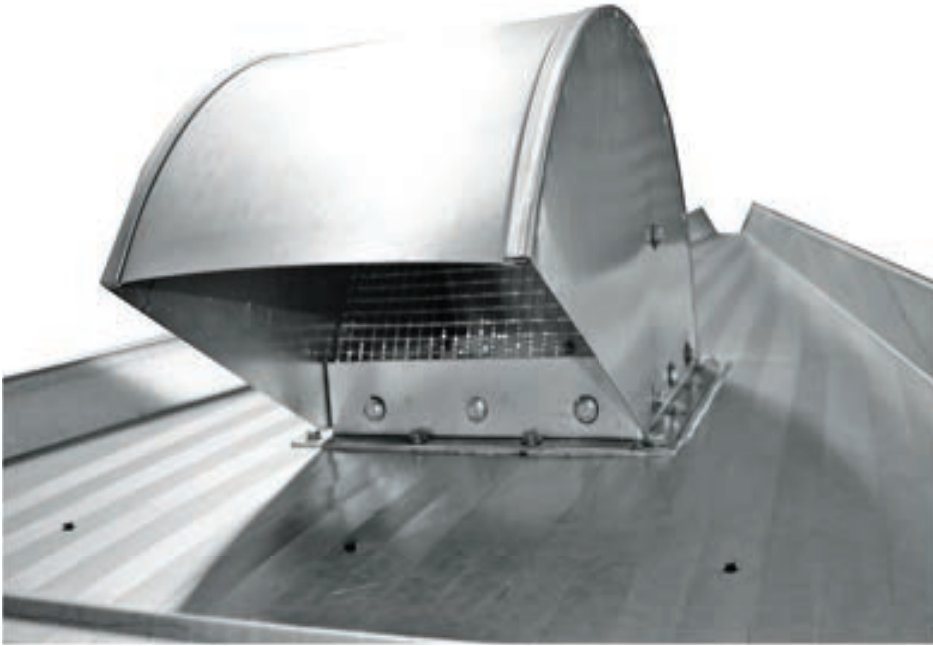
Due to the adapter connected to the hopper's cone and its nested modular design, C Series Aeration System enables air transition through the narrowest sections of the cone. Aeration modules used at the C series are manufactured from the most narrowest corrugated sheet which is 65 mm. By this feature it provides more durable and larger aeration surface.





## Air Vent (S Model)

It is thanks to exhaust the air inside of the silo to the outside in a natural way. Thanks to its special design, leakage of the rainwater and entering the birds inside of the silo prevented.



## Air Vent M Model (optional)

M Model Air Vents are used to exhaust the accumulated air at the top of the silo. M Model Air Vents are in the nearest place to top of the roof.







### Exhaust Fan (optional)

Exhaust Fan (Suction Fan) is used to exhaust the humid and hot air to the outside of the roof.





## » Temperature and Humidity Monitoring Systems

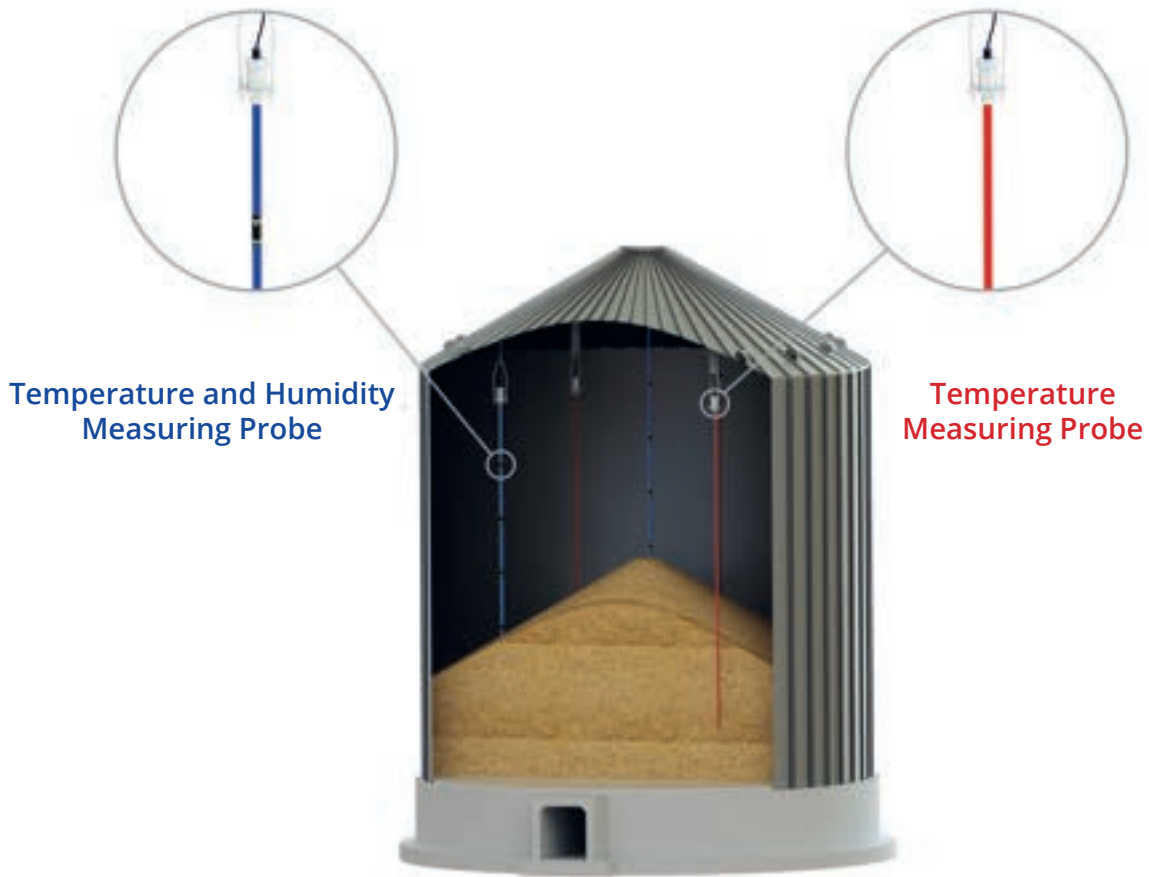
Stored grain is in constant danger of mold activity and insect infestation. For healthy product preservation, the temperature and moisture content in the silo must be kept under control. Safe storage refers to the longer storage of the grain without any deterioration or loss of quality. The stored grain changes physically and chemically during the storage period. Freshly harvested grain often respire at higher humidity and temperature levels and generates additional heat and moisture, leading to hot spot growth, mold growth, mycotoxin growth and grain spoilage in storage. Dry, cool and clean grain can be safely stored for longer periods with careful moisture and temperature monitoring and proper grain management practices.

Temperature and moisture monitoring systems with CE (European Conformity) certificate and IP 66 protection class have been specially designed by Mysilo. Temperature and moisture monitoring systems allow you to optimize the value of your grain with cutting-edge tools that provide precise real-time information on the condition of your grain. It ensures that you prevent the growth of mold, mites, insects and microbes and get the best yield from your stored grain. Our technology provides the ability to precisely monitor and control stored grain conditions with the best possible market advantage.

Temperature and moisture measurement probes are connected to special support sheets on the roof of the silo at certain intervals. These probes hang down to the ground along the grain and measure the relative humidity and temperature in the silo thanks to the sensors at certain distances; and can calculate the equilibrium moisture content according to the grain types with maximum accuracy such as Barley, Canola, Corn, Oat, Gin Corn, Rice, Sorghum, Soybean, Sunflower, Wheat, Hazelnut etc. Together with the temperature and moisture values measured by the sensors, they report the equilibrium moisture content variation calculated with maximum accuracy according to the grain type. These reports can be viewed from mobile phones and tablets. In case of emergency, the operator is informed by the alarm system. It gives you access to vital information about your grain using your computer or internet connection. It allows you to receive alarm notifications in a variety of ways, including on-screen, on-site, on your mobile device, and via email.







<09 Model 1 measuring probe		20 Model 8 measuring probe	
09 Model 3 measuring probe		22 Model 9 measuring probe	
10 Model 3 measuring probe		24 Model 11 measuring probe	
11 Model 3 measuring probe		25 Model 12 measuring probe	
12 Model 3 measuring probe		26 Model 12 measuring probe	
13 Model 3 measuring probe		28 Model 12 measuring probe	
14 Model 4 measuring probe		30 Model 19 measuring probe	
16 Model 3 measuring probe		35 Model 20 measuring probe	
18 Model 7 measuring probe		40 Model 24 measuring probe	
		45 Model 27 measuring probe	





## » Our Product Range

### Grain Storage Silos

- » Flat Bottom Silos,
- » Commercial Hopper Silos,
- » Economical Hopper Silos,
- » Farm Type Silos,
- » Feed Silos,
- » Aeration Systems,
- » Temperature and Humidity Monitoring System.

### Grain Handling Systems

- » Chain Conveyor,
- » Belt Conveyor,
- » Auger Group,
- » Flowing Materials,
- » Slide Gate.

### Grain Dryer Machines

- » Grain Dryer Machines,
- » Grain Dryer Silos.

### Grain Cleaning Machines

- » Dust Collection Systers,
- » Cleaning machine,
- » Filter systems.

### Steel Construction

- » Steel structures,
- » Machinery buildings,
- » Catwalk,
- » Catwalk supports,
- » Intake Buildings.

### Automation control systems

- » PLC panel,
- » MCC systems,
- » Compensation panel,
- » Distribution panel.

**“Mysilo is everywhere”**



» Some of our reference





































“ MYSiLO is everywhere ”

# MYSiLO<sup>®</sup>

GRAIN STORAGE SYSTEMS



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