

## Wall elements for AKRON grain storage bin type "M"

**Wall Sheets.** Wall Sheets for the bins are manufactured from hot galvanized steel sheets which are corrugated so that maximum rigidity is obtained. Accurate processes on the production line ensures a tight fit and easy erection. Depending on wall element length, and to what total height bins will have to be, different sheet thicknesses have to be selected.

**Corner Posts.** Corner posts are available in five design according to the illustrations. On each corner post there is strong flange welded for joining the post to the wall sheet in vertical direction.

Type 2 A is used for corners

Type 3 V and H where dividing walls are jointed to an outer wall.

Type 4 where four walls are jointed together.

Type 2 B is used where you want to make large bins and replace wall sheets with tie rods.

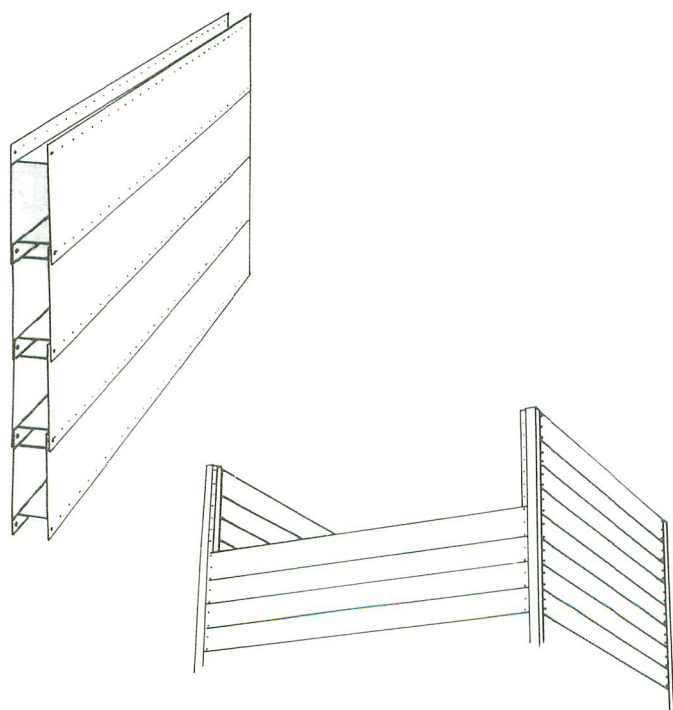
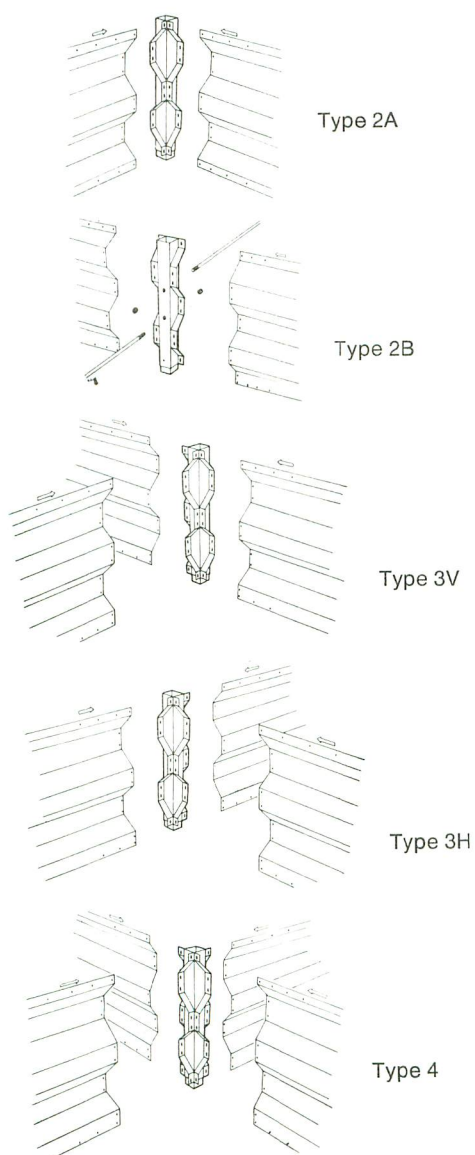
The posts are available as standard painted or hot dipped galvanized. Apart from standard posts above, there are a number of posts for special purposes, for instance, when hoppers are fitted.

**Tie Rods.** By using tie rods, larger bins can be constructed. This is done by replacing wall sheets with tie rods. They are delivered in corresponding lengths to the wall sheets.

**Leg Stands.** If the bin is to be fitted with air sweep floor, it is required that the lower section is elevated to whatever level the air sweep framework has. Legs to fit under the corner-posts are available in various lengths in order to suit the air sweep floor. They are delivered either painted or galvanized.

**Bolts and Nuts.** To join corner posts and wall sheets, flanged bolts M8 and nuts galvanized, are used. No washers are necessary because of the flanged nuts. This gives easier erection.

**Hoppers.** E. g. buffer silos for dryers and mills self emptying hoppers can be fitted to the storage bins. The hoppers are as standard delivered in sizes according to the wall element lengths. The hoppers are made from steel sheets strengthened by steelprofiles. They are delivered painted.



## AKRON Storage bin type S

### Smooth walls

In order to store meal and fine-grained materials where there is a large risk of lodging, AKRON has developed type S storage bins with smooth walls.

### Patented design with double wall

The unique patented wall element type S is made of a galvanized steel sheet that is bent to a U-shaped profile in which a reinforcement profile is welded. In those plants where galvanization is not permitted we can, according to customers specifications, offer alternative coatings.

### Simple installation

The wall elements type S are very simple to erect as they slide down on each other and only need to be bolted at the corner posts.

### Prepared for insulation

The wall elements type S are thanks to their double wall design, prepared for filling with insulation as for example cool storing or outer wall.

The wall element type S are made in the same lengths as the wallsheets type M.





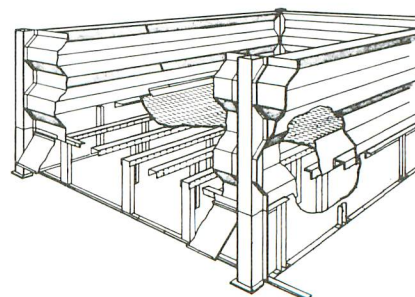
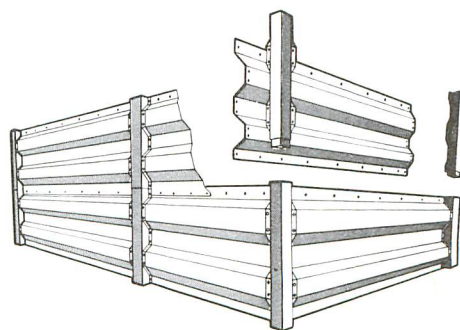
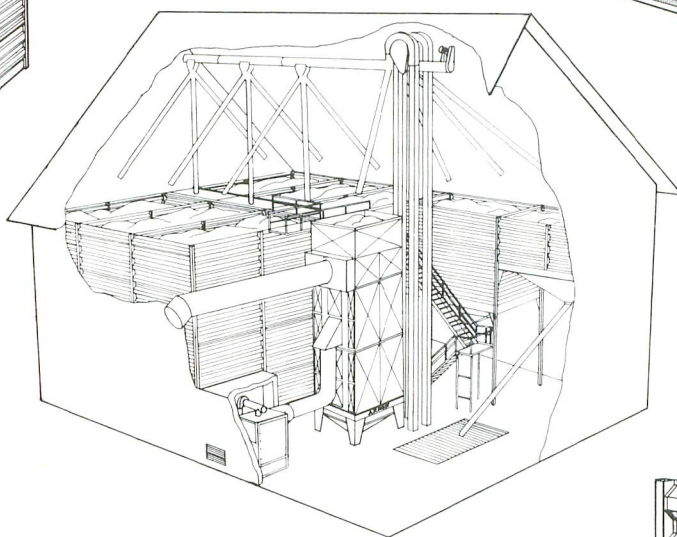
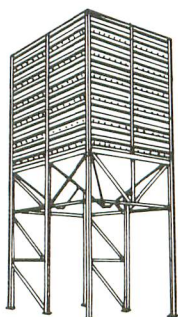
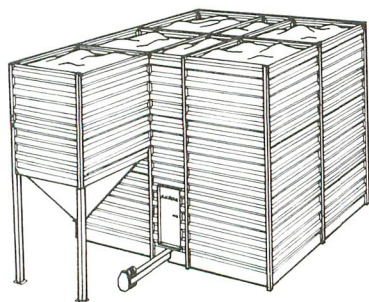
## The most flexible storage system

The AKRON storage bins type M is the most flexible square bin system on the market. The M-bin has joint interior walls which is the main reason to why the AKRON M-bins are such a competitive system. Bins can be supplemented with:

- 1 Hoppers at various sizes and angles with or without aeration.
- 2 Air sweep floor for aeration and emptying.
- 3 Air ducts for aeration and emptying.

## Galvanized for long life span

The galvanized wall sheets are made in standard lengths from 1 to 3 m. and are jointed with special corner posts. Due to the heavy galvanized panels, the life span of these bins is long and requires no maintenance. Corner posts and leg stands made from heavy material are delivered painted or galvanized.



The strength is calculated according to the height and the load of the bins. Special panels and posts allow up to 25 meters to be obtained.

## Roof and cladding directly on the bins

The construction of the bins are designed to carry a roof directly onto the support posts. Side claddings and work bays are also available.

## Simple erection

The AKRON Storage Bin Type M is an extremely flexible system which easily adapts to the space in both new and old buildings. The system can be adapted on small farms as well as in very large industrial plants.

The erection is very simple thanks to the ingenious module system. Dismantling can be done very quickly with no harm to the material.

## AKRON Storage Bin Type M

Panel size m.	Volume/section		Panel size m.	Volume/section		Panel size m.	Volume/section		Panel size m.	Volume/section	
	m <sup>3</sup>	cuft		m <sup>3</sup>	cuft		m <sup>3</sup>	cuft		m <sup>3</sup>	cuft
1,0 x 1,0	1,00	35	1,5 x 1,5	2,12	75	2,0 x 2,5	4,55	160	3,0 x 4,0	10,86	383
1,0 x 1,5	1,45	51	1,5 x 2,0	2,79	98	2,0 x 3,0	5,43	191	3,0 x 4,5	12,15	628
1,0 x 2,0	1,92	68	1,5 x 2,5	3,46	122	2,5 x 2,5	5,64	199	3,5 x 5,0	13,44	474
1,0 x 2,5	2,38	84	1,5 x 3,0	4,13	146	2,5 x 3,0	6,72	237	3,5 x 5,5	14,75	520
1,0 x 3,0	2,82	99	2,0 x 2,0	3,66	129	3,0 x 3,0	8,03	283	3,0 x 6,0	16,06	566

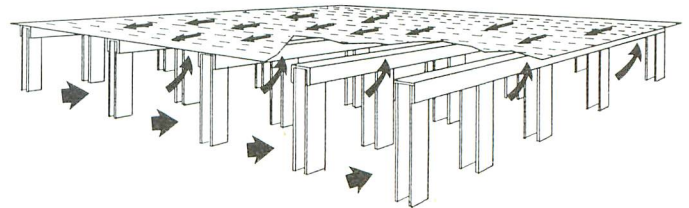
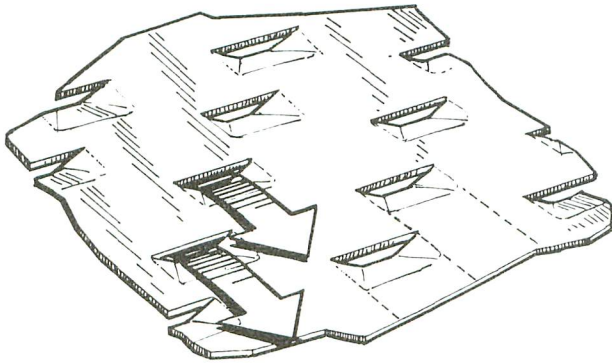


# Air sweep floor



The air sweep floor was introduced by AKRON in 1967. Since then many thousands of installations have been made and today it is obvious to consider AKRON Air Sweep Floor as natural part of every new plant. This success is a result of the intensive development that AKRON has done with improving, modifying and completing the original patent to a functioning system for grain handling.

With AKRON air sweep floor you can dry, aerate and empty not only grain but also most granular materials.



*AKRON DIAGONAL air sweep floor (patented).  
The AKRON Airsweep Floor is available in two version - the traditional ORIGINAL TYPE and the new patented DIAGONAL TYPE. Together with the PFD-TWIN fans the DIAGONAL floor provides higher emptying capacity and less air and dust per area unit.*

*AKRON is manufacturing a complete galvanized steel frame work for air sweep floors. This patented frame work enables a fast and simple installation of the air sweep floor.*

The advantages with air sweep floor are obvious and are as follows:

Bins and storage systems are easily planned.

The grain does not have contact with the concrete base. Absorption of rising ground dampness and formation of mould is thus prevented.

Maximum use of existing space is achieved.

Wet grain can be held while waiting for drying without turning thanks to the aeration facility.

Drying can take place directly in the bin, provided that the storage height is adjusted to the moisture content.

Dried grain can be cooled without turning if stored in bins with air sweep floor.

Possible temperature increases are easy to detect by starting the aeration and reducing high temperatures.

Peak load is easier to manage, even when drying capacity is too low.

Drying and storage capacity can be used 100 %.

Compared with self emptying lateral systems the air sweep floor is energy saving and distributes all the air evenly through the grain.

The total capital investment cost is often lower when using the air sweep system in a plant compared with other systems.

Considering all the advantages mentioned above, installations with AKRON Air Sweep Floor will give better economy of storage and drying of grain.

