

FARM GRAIN STORAGE



On-Farm storage systems that protect valuable grain and the people who grow it

Why sacrifice strength and long life for price? With AGI MFS, you can have it all!

You've invested money, time, intelligence, technology and sweat into your crop. You deserve an on-farm grain storage system that protects that investment — with no worries.



The strongest, highest-rated roof system in the industry

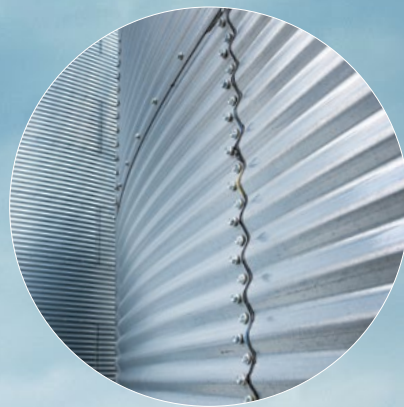
Our roof systems meet the industry's highest load ratings for wind and snow, for non-structured roofs—and we have the documented engineering data to prove it.

G-115 galvanization throughout for longer life

Every roof, sidewall and hopper we make uses G-115 galvanization, which adds up to 27% longer life than competitors who settle for G-90.

Industry-leading bin safety equipment & accessibility

From sturdy ladders and stairs to roomy access doors—everything we do is focused on making your grain storage system as safe and easy to use as possible. These features can help you comply with OSHA guidelines



Up to 27% longer life

Why G-115 Galvanization Matters

AGI MFS uses G-115 hot-dip galvanization on key components of every on-farm storage bin system.

Industry research indicates that G-115 galvanization can extend the life of the galvanized coating on the bin's surface by up to 27% over competitors who settle for G-90 galvanization.

That means the galvanization on your bin maintains its integrity longer—and that means greater service life, increased reliability, optimal grain protection and a better return on investment for you.

Commercial grade quality at an affordable price

Our on-farm storage systems are rugged, reliable and long-lasting—providing outstanding performance and value over the long haul. Every grain bin is backed by a **5-year warranty**.

Innovative design that solves big problems

We've engineered features that address key issues including personal safety, easier access, resistance to moisture, strength and stability, and reliability and performance over the long haul.

Precise engineering for easier construction

Bolt holes that line up. Sheets that are sized right and sized consistently. Sensible bundling of materials for easier handling on the job site. It all adds up to savings of time, labor and headaches.

MP+ Roof System

The strongest, highest quality roof in the business.

Available for bins from 12' (3.65 m) to 60' (18.28 m) diameter.

The MP+ Roof System offers strength and protection that are the best in the business. You get maximum grain protection, superior strength and reliability that are simply unmatched by any other non-structured roof. Why pay more for a structured roof when you can get a high-performance, industry-leading roof system for less?

- Highest load ratings for wind and snow in the industry, for non-structured roofs. You get maximum strength without paying extra for a structured roof
- Meets IBC 2011 and ASCE 7-2010 building codes — the only bin roof system in the industry that does
- Steep 30° slope sheds moisture and snow quickly and efficiently
- G-115 galvanization provides 27% longer life than competitors settling for G-90
- ASTM A653 Grade 50 with 50K yield and 65K tensile for the ultimate in strength and durability.
- Corrugation in flat of roof sheets provides an extra measure of strength

Best performance specifications in the industry.

NON-STRUCTURED ROOFS

LOADING

Live Load	35 lbs/ft ² (1.0 kPa)
Dead Load	3 lbs/ft ² (0.14 kPa)
Wind Load	105 mph (168 kph)

CONCENTRATED PEAK LOADING

12' to 24' (3.66 to 7.32 m)	3,000 lbs (1,361 kg)
27' to 30' (8.23 to 9.14 m)	5,000 lbs (2,268 kg)
33' to 36' (10.06 to 10.97 m)	6,000 lbs (2,721 kg)
42' to 48' (12.80 to 14.63 m)	8,000 lbs (3,629 kg)
54' to 60' (16.46 to 18.29 m)	10,000 lbs (4,536 kg)

MP+ Roof Systems are simply the best in the business, providing load capacity that no one else can match. Example: Our 60' bin roof is rated at 10,000 lbs. Nobody else comes close.





The Contractor's Choice

Fewer parts for quicker, easier construction

Precise manufacturing for accuracy and trouble-free in-field assembly

Bolt holes that line up every time for faster installation

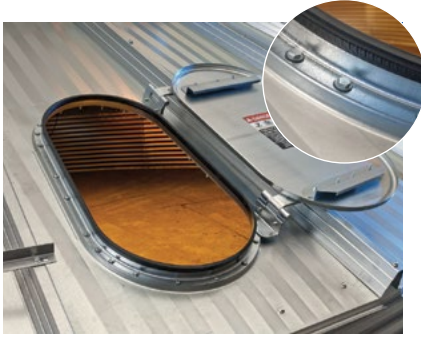
Quality, strength and industry-leading specifications provide confidence and reliability



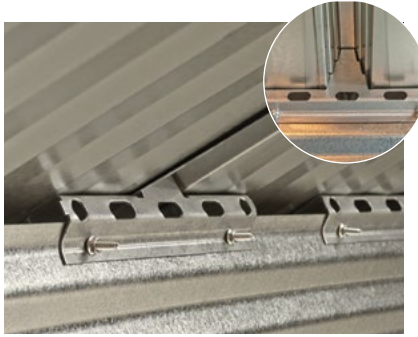
Proprietary state-of-the-art roll former controls the distance between holes from rib-to-rib, not from the edge of the coil like competitive products. The result: Higher quality roof sheets that fit better—with bolt holes that line up every time. Bolts drop right in place. That means trouble-free, labor-saving, frustration-free installation on site.

MP+ Roof System

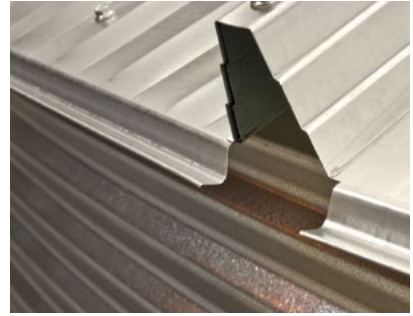
Design details that surpass industry standards – and your expectations.



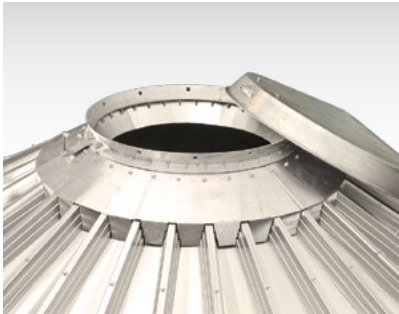
Large pre-formed manway roof opening is standard, featuring a hinged lid and big 5.5 sq. ft. (0.51 m²) opening for easy access. Easy-open lid with big beefy hinges lays flat to avoid wind. Seamless extruded collar (inset) with rubber gasket provides moisture-tight seal when closed. Pre-formed opening makes for simpler construction and tight fit.



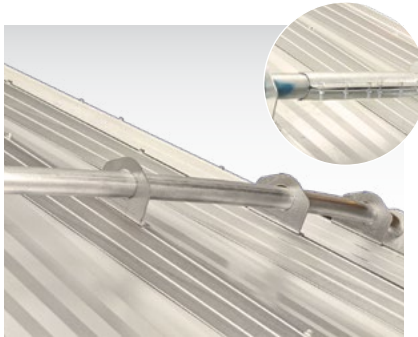
Specially designed 12-gauge eave clips connect roof sheets to sidewalls. "Up" position helps exhaust moisture-laden air. "Down" position preferred for long-term storage. Built-in rib stops keep out pesky birds. Continuous eave ring used in lieu of clips on 54' (16.46 m) and 60' (18.28 m) models.



Extra-tall 3-3/4" (9.5 cm) stair-stepped ribs are staggered to provide even greater strength. Hemmed drip edge deflects moisture, eliminates sharp edges to reduce injury and strengthens the cross-section of the roof sheet.



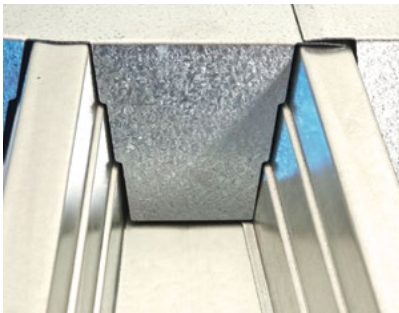
Large 36" (91.4 cm) peak opening provides easy filling and optimal access. A roof ladder from the eave to the peak—plus a roof safety ring—are standard on all models. Easy-open removable cap is standard. Heavy-duty cap for spouting is optional.



Oversized bridging ring enhances structural integrity. Splice clamps (inset) and expansion bolts ensure ring segments function as one continuous pipe.



Well-designed 2.25 sq. ft. (0.686 m²) roof vents for maximum airflow. Vent openings are pre-punched for easy construction and tight fit and seals. Vents feature seamless raised lip (inset) for improved integrity and moisture resistance.



Peak flashing is formed to the ribs to improve resistance to moisture and birds.



Safety ring is a continuous round pipe for safer, easier access to and around the roof cap.



Extra-large manway is sized for plenty of shoulder-room and easy maneuverability, even for large-framed farmers wearing cold-weather gear!

The industry standard for strength, quality and long life

Sidewall

- G-115 galvanizing
- ASTM A653 Grade 50 with 50K yield and 65K tensile
- 2.66" (6.76 cm) corrugation (the industry standard)



One-ring base anchor firmly and securely holds bin wall to concrete base for stability, strength and weather resistance.



Bin hold-down bracket on 42' (12.80 m) to 60' (18.28 m) bins provides supplemental security and strength to one-ring base anchor.

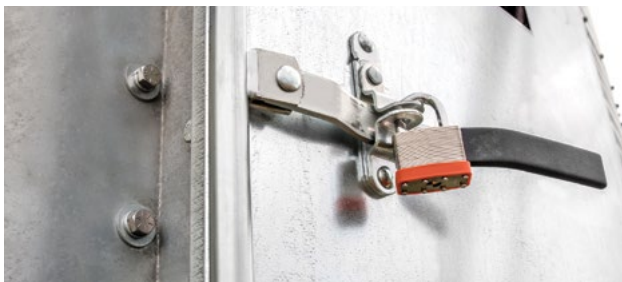


27% longer life thanks to G-115 galvanizing.

Door



Full opening door in sidewall provides full and easy access regardless of door option selected. Both 1R and 2R options available.

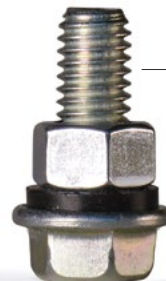


Outer door cover with bar lock firmly holds door cover closed, even in challenging weather conditions.

Fasteners



Grade 8.2 bin bolts are used throughout to ensure strengths and stability. Roofs and lighter gauge sidewalls use 5/16" (0.79 cm) bolts. Heavier gauge sidewalls use 3/8" (0.95 cm) bolts.



Top-quality fasteners feature JS1000 plating system, SAE Grade 8.2 for maximum shear capacity as well as industry standard washers to seal the bolt to the sidewall.

On-Farm Grain Storage

Setting the industry standard for strength, long life & quality.

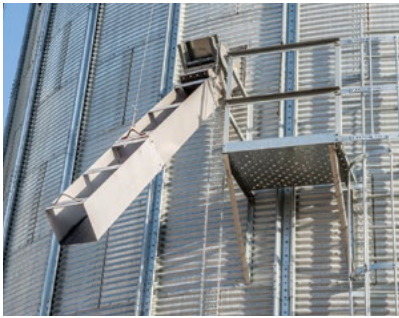
- The highest-rated roof system in the industry—without question
- G-115 galvanization throughout; 27% longer life than competitors who settle for G-90
- Industry-leading bin safety equipment & accessibility features that help you comply with OSHA guidelines
- Commercial grade quality & strength at an affordable price
- Available from a dealer you can trust—with unmatched service



Ag-Comm Grain Storage

Standing tall in the grain storage marketplace.

Ag-Comm grain storage systems from AGI MFS are engineered for structural integrity, unmatched strength, and the ultimate in protection of grain quality. AGI MFS can also provide grain handling systems including legs, conveyors, towers and catwalks. Through our manufacturing partners, we can also provide additional grain handling and drying systems—resulting in a turn-key Ag-Comm system that will serve you well over the long haul.



Optional side draw unloading allows for high-speed, economical bin unloading. This optional side draw design package includes upgrades such as heavier stiffeners, sidewalls and wind rings to ensure structural integrity.



Wind rings are standard on larger sizes and optional on others and can be easily mounted to the stiffeners. Wind rings provide improved wind load—and help maintain the round bin shape when using off center unloading such as a side draw system.

Prepunched wind ring holes simplify the installation of wind rings.



G115 galvanizing of stiffeners provides up to 27% longer life. Stiffeners are ASTM A653 Grade 55 with 55K yield and 70K tensile (except 18 gauge).



12 gauge splice ensures that stiffeners are properly butted to effectively transfer sidewall load to the foundation.

The industry standard for strength, quality and long life.

Stiffeners provide integrity and strength for high eave heights. The stiffeners carry the vertical load and let the sidewall account for hoop load. Two stiffeners per sidewall panel provide required strength while being simple to install. Stiffeners are externally mounted to eliminate grain hang-up and easier cleaning and sweeping.



Large Hopper Bins

Built for strength and versatility.

The perfect solution for:

- Grain storage
- Seed storage
- Wet holding in front of a dryer
- Load-out tank applications

All large hopper bins offer these powerful benefits:

- Capacities from 1,400 (36.6 m/ton) bushels up to 6,400 (161.5 m/ton) bushels
- Industry-leading MP+ roof system used on all hopper tanks 15' to 21' (4.57 m to 6.40 m)
- G-115 galvanization for up to 27% longer life than competitors who settle for G-90
- Common sense design features that protect grain and improve load-out
- A steep 45° slope for fast and complete load-out

Options available:

- Roller valves
- Rack & pinion gates
- 4", 6" & 8" auger boots
- Aeration kits
- Sidewall ladder kits
- Safety cages for taller bins
- Roof ventilation
- For larger capacities, please see our excellent line of commercial hopper tanks with diameters to 36' (10.97 m) and capacities exceeding 50,000 bushels (1280 m/ton).



Large hopper bins from AGI MFS are engineered and built to provide optimum protection, ease of use and outstanding strength and reliability.

Feed Hopper Bins

Engineered to stand up to daily use & tough conditions.

40° roof pitch for better feed fill and greater capacity.

G-115 galvanization for up to 27% longer life than competitors who settle for G-90.

Specially engineered design features for increased safety, strength and outstanding protection against moisture and environmental threats.



Rolled and crimped connections on the roof-to-sidewall and sidewall-to-hopper matches the sidewall corrugation for extra strength and improved protection of bin contents.



Access lid with 200° opening range lays flat to provide greater access and reduce potential damage during fill. **Ground-controlled lid** (inset) can be opened and closed from the base of the bin for extra convenience and safety.



Heavy-duty ladder with top handrail provides extra safety and easier access.



Extended sidewall drip edge directs moisture away from the outlet end of the hopper.



Heavy-duty one-piece 14 gauge 16" (40.64 cm) outlet collar provides strength and reliability on the working portion of the bin.



Plenty of ground clearance provides adequate work area with less chance of injury.



Fans

Rugged, efficient grain bin fans engineered to run a long, long time.



Axial Fans

- Motors are specifically designed for use in axial fans and designed to run at less than full load amperage to extend motor life and increase fan efficiency
- Unique airfoil profile of precision blades provide high airflow with low horsepower requirements, saving energy costs
- Blades are precision balanced for low vibration
- Fan housing fabricated from heavy gauge G-90 galvanized steel; bolted together to eliminate cracks and breaks typically associated with welded housings and rolled flanges
- 3/4 HP to 15 HP models available



Centrifugal Fans

- Designed for high air flows at low to medium static pressures—typically outperforming vane axial fans (propeller type) of the same horsepower when operating at over 4" of static pressure
- Special airfoil blades provide maximum air output while minimizing noise
- Most fan wheels constructed with energy-efficient continuously welded airfoil blades for optimal safety; keeps water out to prevent imbalance
- Fan housing fabricated from heavy gauge G-90(Z275) galvanized steel and assembled with special locking bolts and nuts for rust-free long life and minimum maintenance
- 3 HP to 60 HP models available
- Optional high speed models also available



Bin Unloading Systems

Helping you capture every kernel of value in your grain storage system.



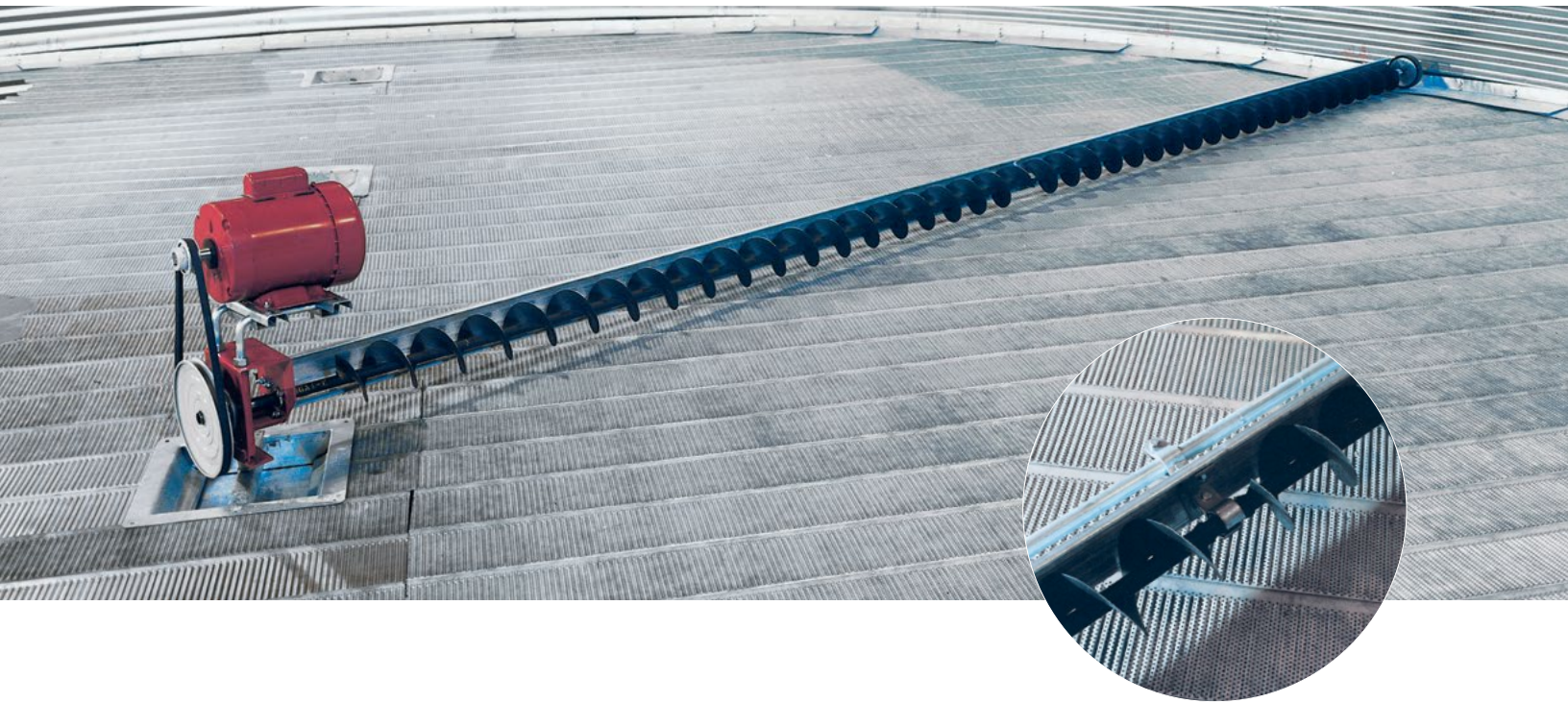
This simple, easy to handle sweep provides an inexpensive tool for emptying bins up to 48' (14.6 m) diameter. The unique back-shield and torque tube combination adjusts for close floor clearance to maximize bin cleanup. After one or two revolutions of the sweep, the job is done.

Features:

- Rubber disk end-wheel assembly drives sweep around the bin
- Intermediate flight bearings on 30' (9.1 m) diameter bins and larger
- Drive includes driven sheave, belt and simplistic motor mount
- 10" units have intermediate bronze bearings that support the flight every 10' (3.1 m) or less

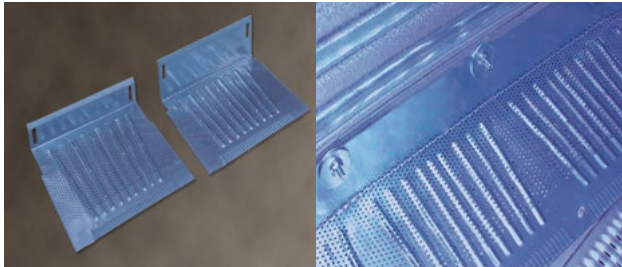
STANDARD KLEAN SPECIFICATIONS

SWEEP MODEL	BIN DIAMETERS	FLIGHT DIAMETER	FLIGHT STRIP	FLIGHT SPEED	CAPACITY
6"	15' (4.6 m) to 36' (11.0 m)	4" (10.2 cm)	1/8" (3.0 mm)	625 RPM	650 BPH (18 TPH)
8"	15' (4.6 m) to 48' (14.6 m)	5" (12.7 cm)	1/8" (3.0 mm)	525 RPM	1,175 BPH (32 TPH)
10"	24' (7.3 m) to 48' (14.6 m)	7" (17.8 cm)	3/16" (4.6 mm)	438 RPM	2,200 BPH (59 TPH)



Flashing

Bin flashing is an underappreciated but critical component of bin construction. At AGI MFS we take great care in designing and manufacturing flashing that is strong and durable, regardless of the gauge you choose for your flooring system.

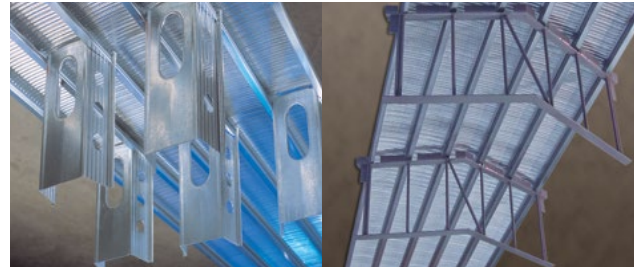


Choice of high back or low back flashing works for both new bin installation or retrofits.

Multi-rib design adds strength and durability. Also provides traction for sweep augers.

Supports

AGI MFS supports are available in either galvanized or welded styles, providing a choice for customers. Supports come in multiple heights to accommodate different sizes of bin unloading systems and fan transitions for optimum performance.

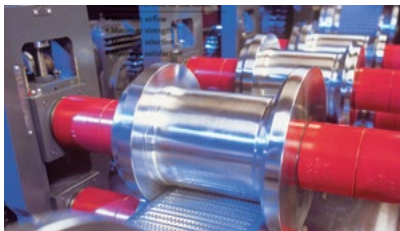


Locking tabs on galvanized supports lock into place during assembly. 17 gauge galvanization provides strength and dependability.

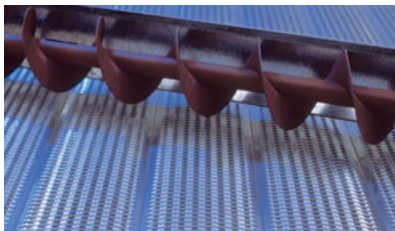
Powder-coated welded design resists rust and lasts longer than non-painted supports. Facilitates easy installation.

Floors

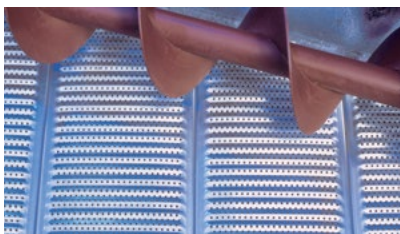
AGI MFS bin floors are available in a wide variety of styles to match the application, storage system and customer preference. Long-lasting galvanized construction coupled with state-of-the-art design and manufacturing makes for a bin floor that stands up to use and abuse under the most challenging conditions. Floors can be constructed in any diameter, which makes an AGI MFS floor available on our bins—plus any other brand of bin.



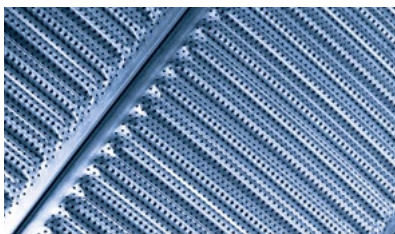
16-Gauge Floor Option is the heaviest specification available in the industry. AGI MFS also offers the widest variety of gauges in the industry—providing even more assurance that the construction matches the challenge.



Built-in crown on planks prevents sagging and provides additional strength. Slotted design offers strength and economy.



Built-in corrugation on planks increases strength and rigidity. Round perforation (0.093") design is smooth and easy to sweep.



Small perforation (0.050") floor planks are ideal for use in storing small grains such as canola. Smooth surface facilitates easy clean-out.

The Contractor's Choice

Every floor plank is labeled for easy identification in the field

Floor planks are precisely bundled to enable building from the stack

On-side shipment makes parts easier to handle and reduces damage during loading/unloading

Multiple bundles on larger systems make for easier loading and unloading

Single piece option for larger bins can make on-site construction easier

One-man installation of flashing possible thanks to use of nuts on the inside of the bin

Easy-to-use construction guide simplifies the process – especially for first-time installers

Powder-coated welded supports resist rust and enhance appearance upon delivery at job-site

Stairs & Ladders

Safety and quality that are several steps above the competition.



Personal safety and easy accessibility are hallmarks of on-farm storage systems from AGI MFS. Thanks to our Global Industries "family" affiliation with Brownie Systems, we can offer a wide range of industry-leading stairs and ladders that are a perfect match to our on-farm grain storage bins—at a competitive price.

All galvanized steel construction ensures long life and lasting strength under the most demanding conditions.

Extra-wide step and toe space provide additional confidence and safety, while helping you comply with OSHA regulations.

Extruded non-slip stair helps prevent build-up of ice and water for sure footing under tough conditions and heavy loads.

Single or doublewide platforms at the top provide easy access to roof stairs and manway. Optional rest stop and working platforms below provide a safe, convenient surface when and where you need it. Four-inch (102 mm) toe-boards ensure a safer platform for everyone — above and below.

Large pipe handrails with OSHA-compliant spacings provide a sure grip as you ascend or descend. There are no rail breaks, sharp ends, corners or protruding bolts. An optional inner handrail is available for extra assurance.



Roof Handrails



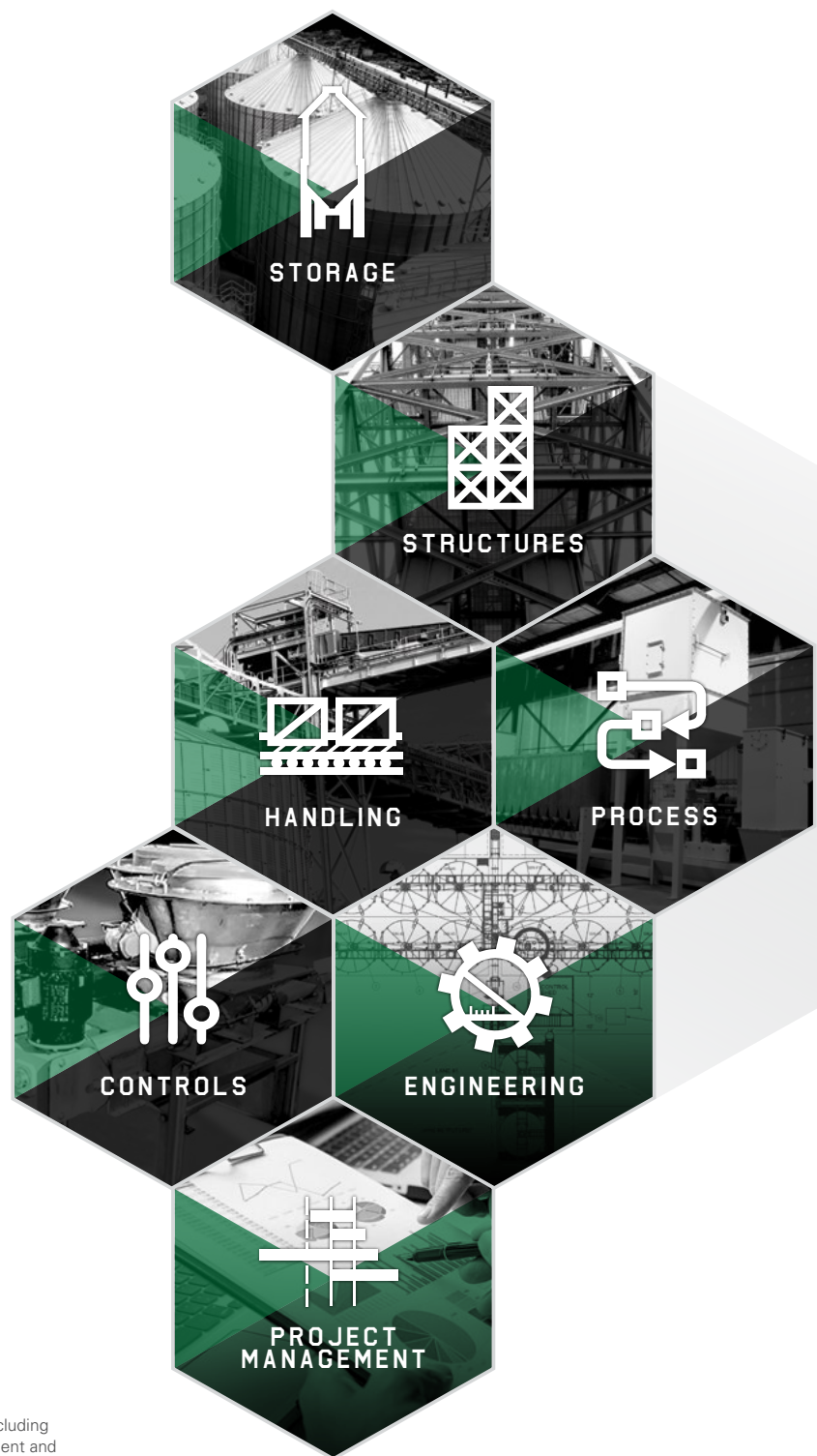
Ladder Safety Cage



Roof Stairs



In-Bin Emergency Ladder



MFS is an AGI Brand.

AGI is a leading provider of equipment solutions for agriculture bulk commodities including seed, fertilizer, grain, and feed systems with a growing platform in providing equipment and solutions for food processing facilities. AGI has manufacturing facilities in Canada, the United States, the United Kingdom, Brazil, South Africa and Italy and distributes its products globally.

AGI  MFS

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