

Ladder System

Wide-Corr® Grain Bin Installation and Storage Instructions





Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.

Part Number: 198925 R39 Revised: December 2024 Original Instructions

New in this Manual

The following changes have been made in this revision of the manual:

Description	Section
Updated ladder components.	Various sections

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1. Introduction

Before assembling, please read this manual. Familiarize yourself with the process and the necessary precautions for efficient and safe assembly of this AGI Ladder System.

Everyone present at the assembly site is required to be familiar with all safety precautions.

Keep this manual available for frequent reference and review it with new personnel. Call your local distributor or dealer if you need assistance or additional information.

2. Safety

2.1. Safety Alert Symbol and Signal Words



This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury or death, carefully read the message that follows, and inform others.

Signal Words: Note the use of the signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTICE** with the safety messages. The appropriate signal word for each message has been selected using the definitions below as a guideline.

DANGER Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death.
WARNING Indicates a hazardous situation that, if not avoided, could result in serious injury or death.
CAUTION Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.
NOTICE Indicates a potentially hazardous situation that, if not avoided, may result in property damage.

2.2. General Safety Information

Read and understand all safety instructions, safety decals, and manuals and follow them when assembling the equipment.

• Only experienced personnel who are familiar with this type of assembly and installation should perform this work. Untrained assemblers/installers expose themselves and bystanders to possible serious injury or death.



- Do not modify the ladder in any way or deviate from the instructions in this manual without written permission from the manufacturer. Unauthorized modification or methods may impair the function and/or safety. Any unauthorized modification will void the warranty.
- Follow a health and safety program for your worksite. Contact your local occupational health and safety organization for information.
- Contact your local representative or AGI if you need assistance or additional information.
- Always follow applicable local codes and regulations.

2.3. Personal Protective Equipment

The following Personal Protective Equipment (PPE) should be worn when installing the equipment.

Safety Glasses



Wear safety glasses at all times to protect eyes from debris.

Coveralls



Wear coveralls to protect skin.

Hard Hat



Wear a hard hat to help protect your head.

2.4. Safety Equipment

The following safety equipment should be kept on site.

• First-Aid Kit



Have a properly-stocked first-aid kit available for use should the need arise, and know how to use it.

2.5. Auxiliary Equipment Safety

Unapproved auxiliary equipment could cause performance issues or structural failure, and is not covered by warranty.

- Do not install auxiliary equipment if the ladder is not designed for use with it. Refer to the specific information provided in this manual for auxiliary equipment or check with AGI or your dealer for written approval, if necessary.
- Obtain, read, and understand the instructions and safety warnings of the auxiliary equipment manufacturer.
- Attach auxiliary safety decals to the ladder as applicable.
- Store auxiliary operations/maintenance manuals in a safe place available for future use.

Steel-Toe Boots



Wear steel-toe boots to protect feet from falling debris.

Work Gloves



Wear work gloves to protect your hands from sharp and rough edges.

2.6. Working At Height Safety

- Ensure that all work at height is properly planned, organized and carried out by a competent person.
- Use appropriate work equipment and make sure that they are inspected to ensure safety.
- Select collective measures to prevent falls (such as guard rails and working platforms) before other measures which may only reduce the distance and consequences of a fall (such as nets or air bags) or may only provide fall-arrest through personal protection equipment.
- Ensure that those persons working at height are trained in how to avoid falling and how to avoid or minimise any injuries should they fall.
- Check the weather condition. Postpone any work at height until there is no risk to the health and safety of any person working at height.
- Ensure that nothing is thrown or tipped from height if it is likely to injure a person.

2.7. Overhead Power Lines

- Keep ladders a horizontal distance of at least 150 ft (45.7 m) from power lines. Increase distance to meet electrical code requirements where required.
- Do not load or unload the ladder if there is a chance of any loading or unloading equipment contacting power lines.
- Do not locate ladders on both sides of a power line or under a power line.
- Electrocution can occur without direct contact.

Figure 1. Power Lines and Conductor Clearance



2.8. Safety Decals

- Keep safety decals clean and legible at all times.
- Replace safety decals that are missing or have become illegible. See decal location figures that follow.
- Replaced parts must display the same decal(s) as the original part.
- Replacement safety decals are available **free of charge** from your distributor, dealer, or factory as applicable.

2.9. Decal Installation/Replacement

- 1. Decal area must be clean and dry, with a temperature above 50°F (10°C).
- 2. Decide on the exact position before you remove the backing paper.
- 3. Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
- 4. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
- 5. Small air pockets can be pierced with a pin and smoothed out using the decal backing paper.

2.10. Safety Decal Locations and Details

Replicas of the safety decals that are attached to the ladder and their messages are shown in the figure(s) that follow. Safe operation and use of the ladder requires that you familiarize yourself with the various safety decals and the areas or particular functions that the decals apply to, as well as the safety precautions that must be taken to avoid serious injury, death, or damage.

Safety Decal Locations



Safety Decals and Part Numbers

8110-00013



- Failure to heed these warnings could result
- in serious injury or death.



 B110-00012

 Image: Constraint of the state of

8110-00228

WARNING W

- 350 lb (160 kg). Do not overload.
- Do not carry items while climbing.

8110-00066

NOTICE

- When equipped with aeration system, to prevent roof and/or bin damage:
- Use a minimum 1 square foot (0.1m²) opening for each 1000ft³/min (30m³/min) of air.
- Ensure all roof vents are open and unobstructed
- Discontinue use of aeration fan if roof vents become obstructed with ice.

8110-01090



Unload grain only from the center of the bin. If equipped with an approved binsweep or sidedraw, refer to its instructions for proper use.

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3. Before You Begin

3.1. Site and Assembly

Unless otherwise specifically provided in writing, AGI does not take responsibility for any defects or damages to any property, or injury to any persons, arising from or related to any site or assembly considerations, including but not limited to:

- Bin location and bin siting
- Soil conditions and corresponding foundation requirements (Note that the examples provided in manuals are for specifically stated soil conditions.)
- Bin assembly (AGI recommends the use of qualified bin installers. Contact AGI for information on installers in your area.)
- Field modifications or equipment additions that affect the bin structure
- Interconnections with neighboring structures
- Have the builder make all non-bin equipment in excess of AGI's recommendations. All such equipment including: LEGS, WALKWAYS, SPOUTING, and CONVEYORS must be self supporting.
- Compliance with all applicable safety standards, including but not limited to fall restraint systems (ladders or other systems). Contact local safety authorities as the standards vary between jurisdictions.

3.2. Critical Assembly Requirements

To ensure a successful, safe and reliable outcome you must comply with the following assembly techniques and practices:

- 1. Comply with all local code and jurisdictional requirements applicable to your ladder installation.
- 2. Make sure that the proper hardware is utilized for all bolted connections. If a shortage occurs, do not substitute. Take the necessary steps to obtain the proper hardware. Make sure nuts are tightened to the required torque values as specified in the appropriate assembly manual.
- 3. Comply with all assembly instructions provided in the appropriate assembly manual to make sure your whole ladder is constructed safely.

3.3. Product Storage

If you won't be assembling the bin right away, store the bundles and boxes inside a building with good ventilation to prevent white or red rust from forming.

Note

White rust can be removed and does not cause permanent damage.

NOTICE

Red rust causes permanent structural damage.

Do not assemble any part containing red rust.

If you can't store the bundles and boxes inside, follow the instructions below for outdoor storage.

Storing Bin Bundles and Boxes Outdoors

Required Materials:

- Wood blocks
- Waterproof tarp

Storage Procedure:

1. First, place the bundles and boxes on wood blocks about 6"-8" off the ground.



2. For the bin boxes, ladder boxes, and hardware boxes: build a simple framework to support, cover with a waterproof tarp, and secure.

Note

The boxes are not waterproof and will deteriorate in normal weather conditions, allowing moisture to contact the parts inside.

If Parts Become Wet

- 1. Open the bundles as soon as possible.
- 2. Separate and dry the bin sheets or parts. Keep the parts separated until assembly.

▲ WARNING Risk of injury or damage.

Brace parts securely to avoid damage or injury from material falling when in storage.

- 3. Dry any boxed parts that are wet and store them in a new, dry box.
- 4. After drying the wall sheets, apply a food-grade oil with a clean, lint-free cloth.

Note

Applying oil will help prevent moisture to contact with the dried wall sheets.

WARNING Risk of slipping.

Do not use oil on roof sheets, ladders, or other parts where a person may walk or stand after the bin is assembled.

3.4. Important Notes

- AGI does not provide a foundation design for this product, and is not liable for any damages or injuries related to inadequately designed or constructed foundations. Customers must contract professional services for all foundation design and construction work.
- Contact local power officials for minimum power line clearance.
- See Section 3.2 Critical Assembly Requirements on page 13 for mandatory siting and assembly requirements.
- Tighten all bolts to the recommended torque settings.

4. Preparation

4.1. Check the Shipment

Unload the parts at the assembly site and compare the packing slip to the shipment. Ensure that all items have arrived and that none are damaged.

Report damaged parts or shortages immediately to your dealer. Your dealer will order replacement parts immediately to ensure that assembly will not be held up by missing parts. All parts will be charged for and credit will be issued by party at fault. No credit will be issued if freight bills are signed as received in good condition.

4.2. List of Tools and Equipment

Use quality tools and equipment. Use them safely, and correctly, for their intended use. Tools for this application should include:

Tools

- Electric or pneumatic (air) impact tools
- Power drill and drill bits
- Sockets (multiple 9/16" and 1/2" sockets recommended)
- Large-pocket carpenter pouch
- 8" (20 cm) metal punches (for aligning bolt holes)
- Step and extension ladders, construction grade
- 6-point wrenches (Imperial, box end)
- Metal-cutting saw suitable for cutting ladder sections
- Scaffolding

Minimum Recommended Safety Equipment

- A properly-stocked first-aid kit
- Eye, foot, head, and hand protection (safety glasses, steel-toed boots, hard hat, work gloves)
- Cable, chain, or rope to tie-off bin or jacks in case of wind
- Body harness and lifeline (for use where falling hazard exists)
- Ground fault interrupt protected electrical hook-ups

4.3. Order Optional Equipment

Optional equipment such as safety cages and platforms, etc., should all be on site and checked before assembly starts. Plan your installation in advance. For details, see assembly instruction supplied with optional equipment.

5. Assembly

5.1. Assembly Safety

• Do not take chances with safety. The components can be large, heavy, and hard to handle. Always use the proper tools, rated lifting equipment, and lifting points for the job.

- Do not stand on, under, or near any component that is not secured.
- Carry out assembly in a large open area with a level surface.
- Always have two or more people assembling the ladder.
- Make sure you have sufficient lighting for the work area.
- Tighten all fasteners according to their specifications. Do not replace or substitute bolts, nuts, or other hardware that is of lesser quality than the hardware supplied by the manufacturer.
- Stay away from overhead power lines and other obstructions during assembly. Contact with power lines can cause electrocution.
- Do not work in high winds.
- The equipment shall be installed in accordance with applicable local codes and regulations.

5.2. Planning the Location of Ladder Components

Important

Timing (assembling components in the correct order and relative position) is very important when assembling ladders, eaves rails, roof stairs or roof ladders, platforms and inside ladders, and other bin components. Consideration must be given to this during the planning stages, before assembly of the bin is initiated.

Consider the following:

Inside Ladders

The inside ladder sections bolt to existing holes in the horizontal seams of the wall sheets, which are spaced at a consistent 9 3/8". The inside ladders should also be centered on the roof panel that contains the inspection hatch opening. This roof panel should be centered on the horizontal wall sheet hole that will be the center of the inside ladder sections. Spinning the top ring angles and roof sheets relative to this location on the wall sheets may be required to achieve optimum fit-up.

Roof Stairs or Roof Ladders

The external ladder sections bolt to existing holes in the horizontal seams of the wall sheets. The roof stairs, or roof ladders, bolt to the ribs of roof panels, and are positioned to the right or left of the inspection hatch. The hatch should be centered on the inside ladders, if present. It may also be desirable to position the roof stairs, or roof ladders, relative to some external elements such as overhead conveyors, or catwalks.

The roof panel that the roof stairs / roof ladders are bolted to must be centered (as much as possible) to the center of the external ladder and eaves rails. To achieve optimum fit-up, it may be necessary to spin the top ring angles and roof sheets relative to the wall sheets, to align this roof panel relative to the intended location of the external ladder.

Uprights

Stiffened bins must be given additional consideration since the external ladder/platform combinations must be mounted on either side of a stiffener location. On a stiffened wall sheet the upright locations can be identified by the line of vertical holes set in from either end. (See Figure 4 on page 20.)

Timing Considerations

For fully featured bins containing external ladders, eaves rails, platforms, roof stairs or roof ladders, and inside ladders, the following is an example of the timing considerations that should be undertaken prior to the construction of the bin.

- 1. Select the location of the various ladder components relative to external elements such as conveyors or catwalks.
- 2. Select the location of the various ladder components relative to other bin elements such as stencil sheets, door openings, remote vent opener, etc.
- 3. Determine the upright location that the external ladder sections and platforms will be centered on. During the initial assembly phases mark these locations on the top ring of wall sheets. For non-stiffened bins this is not a consideration.
- 4. Determine if the inspection hatch is located on the right or left side of the external ladder sections.
- 5. Locate the top ring angles and roof panels relative to this position such that the roof panel containing the inspection hatch is centered, as much as possible, on the hole in the wall sheet that is the center of the inside ladder sections. In general, the center of the inside ladder sections should be 37 ½" (or 4 horizontal wall sheet spaces @ 9 3/8") to the right or left of the center of the external ladder sections.
- 6. In the absence of an internal ladder, center the roof panel to which the roof stairs or roof ladders are being bolted to, on the center of the external ladder sections.

Note

North American layouts are shown throughout this document, unless otherwise noted.

Figure 2. Accessory Layout





Figure 3. Ladder Attachment Starting Points





If there is a ladder/platform combination, it is necessary to position the consecutive sidewall ladder runs on either side of an upright. The proper side wall bolt holes are illustrated below for a ladder positioned to the left of the upright. The mirror image of these holes can be used if the ladder is on the right side of the upright.

5.3. Ladder Installation

(For flat bottom Wide-Corr[®] bin — EN version shown)

Figure 5. Side View of Bin with Ladder



Figure 6. Front View of Bin with Ladder



Note

- 1. This eaves rail configuration is compatible with a cage system.
- 2. The first step is to install the top ladder clips 4" below the top horizontal wall sheet seam as shown in Detail A1.
- 3. If extending the ladder to the ground, the ladder block-off plate (P/N 234530) should be installed to prevent unauthorized usage.

Figure 7. Detail A1



Figure 9. Detail 1







Figure 11. Reinforcement Brace



This reinforcement brace is designed to slip over pre-assembled ladder-clip-bolt assembly with no adjusting of the existing elements. When pressed fully into place, the brace will sit at an angle. This is normal and it is designed for shedding snow and water. You may slope the brace either inward or outward. Lastly, install and tighten the supplied nuts inside of the assembly.

Figure 12. Reinforcement Brace



Figure 13. Details A3, A4 and A5



5.4. Ladder Cage Installation

(for flat bottom Wide-Corr[®] Bin)

Figure 14. Ladder Cage Installation



Note

- 1. This cage system is compatible with "pass through rail" version of ladder system.
- 2. The top cage section uses 48" vertical cage bars, the second section uses 40" vertical bars, and all remaining sections use 44" vertical bars (as shown above). The top ladder clips must be moved down 4" below the top wall sheet seam.
- 3. Bottom cage hoop aligns with 2nd horizontal seam from bottom (i.e. 88" from the bottom seam).
- 4. Assemble ladder as indicated in the flat bottom bin section "A".
- 5. For EN versions, the standard hoop sections are also used at the bottom cage hoop location.

Figure 15. Ladder Cage Details



BOTTOM VIEW (STANDARD HOOPS NOT SHOWN)

5.5. Top Platform Installation

The top platform will be at the eave of the bin and can be accessed using the wall ladders. Planning the location of the ladder and the top platform is important for easier assembly and to avoid interference. The position of the sidewall ladder relative to the uprights is important. The attachment points of the ladder and the top platform to the bin are shown in the layout. The attachment points that do not lie on the wall sheet seams will be field drilled.

Figure 16. Top platform attachment points



5.5.1 Assembling the Single Eave Platform (15'-39' PN 234365) or (42'-135' PN 234369)

Note

The single eave platform is reversible. It can be installed so the ladder is on the left side or the right side of the platform. The following figure is an assembly layout for this platform. If your ladder is on the opposite side simply reverse the assembly layout shown.

Figure 17. Single Eave Platform Assembly Drawing



Use 3/8" x 1" hex bolts and flange nuts for all connections.





5.5.2 Assembling the Double Eave Platform (15'-39' PN 234367) or (42'-135' PN 234371)

Note

The double eave platform is reversible. It can be installed so the ladder is on the left side or the right side of the platform. The following figure is an assembly layout for this platform. If your ladder is on the opposite side simply reverse the assembly layout shown.

Figure 19. Double Eave Platform Assembly Drawing







5.6. Cage Assembly for Top Platform

The top platform will require a special ladder cage assembly. The top two cage sections will be assembled differently compared to the standard cage sections to accommodate installation of the top platform. Once the top two sections are assembled, the standard installation instructions can be followed to complete rest of the cage assembly.

- 1. The top cage section uses 48" vertical cage supports, the second section uses 40" vertical supports, and all remaining sections use 44" vertical supports.
- 2. The cage hoop (234161) adjacent to the top platform base is installed approximately 8" below the standard position of the hoop as shown. A ladder clip (234501) is bolted onto that cage hoop which connects it to the bin wall.
- 3. The top ladder clips must be moved down 4" below the top wall sheet seam.
- 4. Three of the vertical supports extend to the cage section below and overlap with the next set of vertical supports. In case the next cage section has a larger cage hoop (234162) at the bottom, the next set of vertical supports must be installed on the inside i.e. behind the extended vertical supports. The lower end of the vertical supports must be pulled out and bolted to the inside of the larger bottom cage hoop.





Note

The cage assembly and the top platform assembly are connected using the cage-to-platform bands (234622). These bands have a number of slots and holes for easy assembly with the cage hoop (234161). When securing the platform support arms to the roof make sure the support arm brackets (234518) are bolted to the ribs of the roof.

5.7. Top Platform to Ladder Cage Connection





5.8. Intermediate Platform Installation

Important

Platform can be installed on either side of the ladder. Illustrations show platform on the right side of ladder when facing the bin.

Note

It is advisable to bolt the platform to the bin wall before attaching the bottom ladder section that continues upward. It will be necessary to cut about 11" off of the bottom of this ladder section to fit. The two lower ladder clips will also need to be moved up 12" to a higher corrugation and drilled in.

5.8.1 Assembling the Single Rest Platform (15'-39' PN 234364) or (42'-135' PN 234368)

Note

The single rest platform is reversible. It can be installed so the ladder is on the left side or the right side of the platform. The following figure is an assembly layout for this platform. If your ladder is on the opposite side simply reverse the assembly layout shown.

Figure 23. Single Rest Platform Assembly Drawing







5.8.2 Assembling the Double Rest Platform (15'-39' PN 234366) or (42'-135' PN 234370)

Note

The double rest platform is reversible. It can be installed so the ladder is on the left side or the right side of the platform. The following figure is an assembly layout for this platform. If your ladder is on the opposite side simply reverse the assembly layout shown.

Figure 25. Double Rest Platform Assembly Drawing







5.9. Platform to Safety Cage

- 1. The cage to platform band bolts to the ladder safety cage hoops (234161). The cage to platform band is punched for various bin diameters. Use the holes or slots that fit best.
- 2. Use 44" vertical bars (234516) to enclose the space between the safety cage and platform.

Figure 27. Bolt the cage to the platform



5.10. Ladder Platform – Self Close Gate Installation

- 1. Bolt two spring hinges (234695) on the flat surface of the door pan (213061) with the ¼" hardware (bolt PN: 235901 and nut PN: 154156).
- 2. Position the door pan so that the flanged side is facing toward the inside platform. Bolt the two spring hinges (234695) on the outer post.
- 3. Bolt the latch handle to the door pan on the flanged side (facing inside the platform) with two 3/16" bolts (154005) and nuts (150008).

Note

The latch (213376) includes both the latch lock and latch handle.

- 4. Bolt the flange of the Z-channel post to the outside surface of platform toe board using two 3/8" x 1" bolts as shown in Figure 28 on page 40.
- 5. Bolt the latch lock (213376, part 2 of latch) on the Z-channel web surface (face toward platform) with four 3/16" bolts and nuts through the four 1/4" x 1/2" slots. Put one washer (193774) between the Z-channel and the latch lock for four bolts. The location of latch lock can be adjusted, so the best match location between latch lock and latch handle can be found.
- 6. Attach one end of the rope to the latch lock and attach the other end to the brace (213011).
- 7. Adjust the spring hinge strength to your requirement.

Figure 28. Installing the Platform Self Closing Gate





5.11. Block-Off Plate Installation

Figure 29. Block-Off Plate Installation







Note

- 1. Align holes on block-off plate hinges with existing holes in ladder rail (64" apart).
- 2. Do not line up hinges with ladder clips on flat bin models.
- 3. On hopper bin models, it is necessary to drill into ladder support channels to mount hinges.
- 4. Block-off plates can be mounted to swing either way. (Figure 29 on page 41 shows the block-off plate mounted on the left ladder rail.)

5.12. Hopper Ladder Support Installation



Figure 31. Top and side views of the ladder support

- 1. Pre-assemble ladder clips to the ladder segments.
- 2. Mount the ladder supports on the inside of the hopper legs as shown for hopper bottom (HBB) bins. For SSK bins, the ladder support mounts on the outside of the HSS beams.
- 3. Space the ladder supports at 44" or one per ladder segment and position the ladder support relative to the holes in the ladder clips.
- 4. Drill into I-beam webs and attach with 3/8" hardware.
- 5. If securing the ladder support to a HSS leg (square tube), use at least two self-drilling screws (3/8" minimum diameter) at every leg connection.
- 6. Drill holes in the ladder supports to align with ladder clips where required.
- 7. Use 3/8" hardware.

5.13. Optional Vertical Support Ladder Details

Hopper Size	# of Legs	Hopper Ht (ft)	Rows of Supports	Rows of Supports Configuration				
Stiffened SSK								
15' Dia	10	9.2	3	3	1			
18' Dia	12	10.6	3	3	1			
21' Dia	14	12.1	4	4	1			
		AGI Welded -	Non-Stiffened	-				
14' Dia	6	6.6	2	4	2			
15' Dia	6	7.2	2	4	2			
15' Dia	7	7.2	2	4	2			
16' Dia	8	7.8	2	4	2			
18' Dia	9	8.0	3	6	2			
19' Dia	9	8.4	3	6	2			
19' Dia	11	8.4	3	6	2			
21' Dia	11	9.1	3	6	2			
21' Dia	13	9.1	3	6	2			
		AGI Welded	l - Stiffened					
18' Dia	12	11.7	3	3	1			
21' Dia	14	13.2	4	4	1			
AGI Commercial Hoppers								
15' Dia	10	9.9	3	3	1			
18' Dia	12	11.4	3	3	1			
21' Dia	14	13.0	4	4	1			

Table 1. 234569 Vertical Ladder Support Chart For 21' Diameters or Less

Hopper Size	# of Legs	Hopper Ht (ft)	Rows of Supports Configuration		Needed For Span Between 2 Legs				
	Stiffened SSK								
24' Dia	16	11.9	4	4	1				
27' Dia	18	13.2	4	4	1				
		AGI Welded -	Non-Stiffened						
24' Dia	12	10.4	3	6	2				
27' Dia	16	11.8	4	8	2				
		AGI Welded	l - Stiffened						
24' Dia	16	14.7	4	4	1				
		AGI Comme	cial Hoppers						
24' Dia	16	14.5	4	4	1				
27' Dia	18	13.9	4	4	1				
30' Dia	20	15.1	4	4	1				
33' Dia	22	15.2	5	5	1				
36' Dia	24	16.4	5	5	1				

Table 2. 234568 Vertical Ladder Support Chart For 24' Diameters or Greater

• Hoppers with diameters of 21' or smaller use the 234569 ladder support.

• Hoppers with diameters of 24' or larger use the 234568 ladder support.

- Use the vertical ladder charts to identify the quantity of ladder supports needed to span between hopper legs.
- Two ladder supports need to be overlapped and connected together with at least two self drilling screws, 3/8" dia. min., for spans greater than 60".
- Please see Wide-Corr[®] Ladder Installation Manual 198925 for further installation details of vertical ladders.
- For every one of 234568 or 234569 purchased, you will also need to purchase four of 297418, 3/8" self-tapping screws.

Figure 32. Ladder Configuration



5.14. Inside Ladder Installation Instructions

Figure 33. Inside Ladder Details



5.15. Inspection Hatch Cage Installation

Figure 34. Inspection Hatch Cage Details



- 1. Install the pass through rails (234505) and support arms (234504) supplied with the bin as per previous instructions, with the one following exception. On the side closest to the inspection hatch, the one support arm that would normally secure to the eave bolt location, is utilized as one of the three support arms referred to in #2. The other support arm on the inspection hatch side, that attaches inward to the roof rib, as well as the two support arms on the non-inspection hatch side, are installed as per previous instructions.
- 2. Attach three support arms (234504) to the pass through rail adjacent to the inspection hatch as illustrated, using support arm clips (234517). Position the lowest support arm just above the bend in the pass through rail, position the top support arm as high as possible and position the center support arm midway between the other two.
- 3. Using these support arms as guides, position the vertical support tube (234069) such that it attaches to the other ends of the support arms using the support arm clips, bridges the eave of the roof panel, and aligns alongside the wall sheet. Using the holes in the vertical support tube as a guide, drill 3/8" holes through the crest of the mating wall sheet corrugations and attach using 3/8" x 2 ½" bolts(150517). Putting the sealing washer on the inside insures a water tight seal. Attach the plastic cap (234559) to the vertical support tube.
- 4. Also bolt on the 1 ¼" diameter, longer, lower support rail (234100) between the pass through rail and the vertical support tube, again using support arm clips. Position this lower rail further down on the pass through rail, below the bend as shown.
- 5. Prevent the support arm clips from sliding down the pass through rail tube and the vertical support tube by securing with the self drilling screws provided (900461).
- 6. Attach the final support arm (234504) to the vertical support arm, and to the nearest roof rib, as shown, utilizing the support arm clip and support arm bracket, as shown. Drill into, and secure to the roof rib as required.

5.16. Wide-Corr[®] Ladder Packages c/w Pass Through Rail

LADDER PACKAGES	Ladder Section (44")	Ladder Clips - WC	Ladder Support Arm	Ladder Passthrough Rail	Hardware Package	Carton 51 x 27 x 7
	234500	234501	234504	234505	234507	185011
234520-2	2	6	4	2	1	1
234520-3	3	8	4	2	1	1
234520-4	4	10	4	2	1	1
234520-5	5	12	4	2	1	1
234520-6	6	14	4	2	1	1
234520-7	7	16	4	2	1	1
234520-8	8	18	4	2	1	1
234520-9	9	20	4	2	1	1
234520-10	10	22	4	2	1	2
234520-11	11	24	4	2	1	2
234520-12	12	26	4	2	1	2
234520-13	13	28	4	2	2	2
234520-14	14	30	4	2	2	2
234520-15	15	32	4	2	2	2
234520-16	16	34	4	2	2	2
234520-17	17	36	4	2	2	2
234520-18	18	38	4	2	2	2
234520-19	19	40	4	2	2	3
234520-20	20	42	4	2	2	3
234520-21	21	44	4	2	2	3
234520-22	22	46	4	2	2	3
234520-23	23	48	4	2	2	3
234520-24	24	50	4	2	2	3
234520-25	25	52	4	2	2	3
234520-26	26	54	4	2	3	3
234520-27	27	56	4	2	3	3

5.17. Wide-Corr[®] Cage Packages

CAGE PACKAGES	TOP CAGE HOOP	STAND- ARD CAGE HOOP	BOT- TOM CAGE HOOP	CAGE -48" VERTICAL BAR BUNDLE	CAGE -40" VERTICAL BAR BUNDLE	CAGE -44" VERTICAL BAR BUNDLE	3/8" X 1" BOLT (Bag of 50)	3/8" NUT (Bag of 100)	BRACE BAR	BRACE ¹
	234163	234161	234162	234514BDL	234515BDL	234516BDL	235943	235951	234166	234650
234521B-3	2	6	2	1	1	2	2	1	4	4
234521B-4	2	8	2	1	1	3	2	1	6	5
234521B-5	2	10	2	1	1	4	2	1	8	6
234521B-6	2	12	2	1	1	5	3	2	10	7
234521B-7	2	14	2	1	1	6	3	2	12	8
234521B-8	2	16	2	1	1	7	3	2	14	9
234521B-9	2	18	2	1	1	8	3	2	16	10
234521B-10	2	20	2	1	1	9	4	2	18	11
234521B-11	2	22	2	1	1	10	4	2	20	12
234521B-12	2	24	2	1	1	11	4	2	22	13
234521B-13	2	26	2	1	1	12	4	2	24	14
234521B-14	2	28	2	1	1	13	5	3	26	15

1. Reinforcement brace

5.18. Wide-Corr[®] Ladder Hardware Package - 234507

PART NUMBER	DESCRIPTION	QTY
235943	3/8" x 1" BOLT (Bag of 50)	1
193797	3/8" x 1½" HEX BOLT	5
150517	3/8" x 2½" HEX BOLT	5
235951	3/8" NUT (Bag of 100)	1
154977	3/8" FLAT WASHER	4
234131	1/4" x 3/4" SELF-DRILL BOLT (Bag of 12)	1
234517	SUPPORT ARM CLIP	4
234518	SUPPORT ARM BRACKET	4
234559	PIPE CAP	2
234580	LADDER PASS THRU RAIL SUPPORT STRIP	2
8110-00228	WARNING LABEL - FALLING HAZARD 350LB	1
198925	MANUAL	1

6. Appendix

6.1. Single Rest Platform 15'-39' - 234364

PART NUMBER	DESCRIPTION	QUANTITY
M080618	LADDER PLTFRM BASE 15-39'	1
234355	INNER POST 15'-39'	1
234353	OUTER POST 15'-39'	2
M080621	GUARDRAIL 15'-39'	2
M080619	GUARDRAIL END	2
M080793	SIDEWALL SUPPORT	2
M080794	BASE SUPPORT	2
M080795	SUPPORT GUSSET	2
M080620	TOEBOARD END	1
234622	LADDER PLATFORM-TO-CAGE BAND	2
235943	BLT HFW .375-16X1.0 GR8.2 (50)	2
235955	NUT HX FLLK.375-16 GR5 (50)	2
185011	CTN 53X27X7 for BIN PARTS	1
M089500	AGI LADDER SYSTEM MANUAL	1

6.2. Double Rest Platform 15'-39' - 234366

PART NUMBER	DESCRIPTION	QUANTITY
M080618	LADDER PLTFRM BASE 15-39'	2
234353	OUTER POST 15'-39'	2
234355	INNER POST 15'-39'	3
M080621	GUARDRAIL 15'-39'	4
M080619	GUARDRAIL END	2
M080793	SIDEWALL SUPPORT	4
M080794	BASE SUPPORT	4
M080795	SUPPORT GUSSET	4
M080620	TOEBOARD END	1
M080467	DOUBLE PLATFORM TOEBOARD SPLICE	1
M080469	CENTER POST GUSSET 15'-39'	2
234622	LADDER PLATFORM-TO-CAGE BAND	2
235943	BLT HFW .375-16X1.0 GR8.2 (50)	3
235955	NUT HX FLLK.375-16 GR5 (50)	3
185011	CTN 53X27X7 for BIN PARTS	1
193797	BLT HFW .375-16X1.5 JS500 GR8.2	4
M089500	AGI LADDER SYSTEM MANUAL	1

6.3. Single Rest Platform 42'-135' – 234368

PART NUMBER	DESCRIPTION	QUANTITY
M080634	LADDER PLTFRM BASE 42'-135'	1
234359	OUTER POST 42'-135'	2
234360	INNER POST 42'-135'	1
M080635	GUARDRAIL 42'-135'	2
M080619	GUARDRAIL END	2
M080793	SIDEWALL SUPPORT	2
M080794	BASE SUPPORT	2
M080795	SUPPORT GUSSET	2
M080620	TOEBOARD END	1
234622	LADDER PLATFORM-TO-CAGE BAND	2
235943	BLT HFW .375-16X1.0 GR8.2 (50)	2
235955	NUT HX FLLK.375-16 GR5 (50)	2
185011	CTN 53X27X7 for BIN PARTS	1
M089500	AGI LADDER SYSTEM MANUAL	1

6.4. Double Rest Platform 42'-135' – 234370

PART NUMBER	DESCRIPTION	QUANTITY
M080634	LADDER PLTFRM BASE 42'-135'	2
234359	OUTER POST 42'-135'	2
234360	INNER POST 42'-135'	3
M080635	GUARDRAIL 42'-135'	4
M080619	GUARDRAIL END	2
M080793	SIDEWALL SUPPORT	4
M080794	BASE SUPPORT	4
M080795	SUPPORT GUSSET	4
M080620	TOEBOARD END	1
M080483	DOUBLE LANDING TOEBOARD SPLICE 42-135'	1
M080482	CENTER POST GUSSET 42'-135'	2
234622	LADDER PLATFORM-TO-CAGE BAND	2
235943	BLT HFW .375-16X1.0 GR8.2 (50)	3
235955	NUT HX FLLK.375-16 GR5 (50)	3
185011	CTN 53X27X7 for BIN PARTS	1
193797	BLT HFW .375-16X1.5 JS500 GR8.2	4
M089500	AGI LADDER SYSTEM MANUAL	1

6.5. Single Rest Platform 15'-39' Insert Package – 234362

PART NUMBER	DESCRIPTION	QUANTITY
234364	LADDER REST PLATFORM SINGLE 15-39'	1
234500	LADDER SEGMENT 44"	1
234501	LADDER CLIP WC	4
234162	LADDER CAGE HOOP - BTM	2

6.6. Single Rest Platform 42'-135' Insert Package – 234363

PART NUMBER	DESCRIPTION	QUANTITY
234368	LADDER REST PLATFORM SINGLE 42-135'	1
234500	LADDER SEGMENT 44"	1
234501	LADDER CLIP WC	4
234162	LADDER CAGE HOOP - BTM	2

6.7. Double Rest Platform 15'-39' Insert Package – 234294

PART NUMBER	DESCRIPTION	QUANTITY
234366	LADDER REST PLATFORM DOUBLE 15-39'	1
234500	LADDER SEGMENT 44"	1
234501	LADDER CLIP WC	4
234162	LADDER CAGE HOOP - BTM	2

6.8. Double Rest Platform 42'-135' Insert Package – 234295

PART NUMBER	DESCRIPTION	QUANTITY
234370	LADDER REST PLATFORM DOUBLE 42-135'	1
234500	LADDER SEGMENT 44"	1
234501	LADDER CLIP WC	4
234162	LADDER CAGE HOOP - BTM	2

6.9. Single Eave Platform 15'-39' – 234365

PART NUMBER	DESCRIPTION	QUANTITY
M080618	LADDER PLTFRM BASE 15-39'	1
234355	INNER POST 15'-39'	1
234353	OUTER POST 15'-39'	1
234372	LADDER PLTFRM POST OUTER 15-39' F/CAGE	1
M080621	GUARDRAIL 15'-39'	2
M080619	GUARDRAIL END	2
M080793	SIDEWALL SUPPORT	2
M080794	BASE SUPPORT	2
M080795	SUPPORT GUSSET	2
M080620	TOEBOARD END	1
234622	LADDER PLATFORM-TO-CAGE BAND	3
235943	BLT HFW .375-16X1.0 GR8.2 (50)	2
235955	NUT HX FLLK.375-16 GR5 (50)	2
185011	CTN 53X27X7 for BIN PARTS	1
M089500	AGI LADDER SYSTEM MANUAL	1

6.10. Double Eave Platform 15'-39' – 234367

PART NUMBER	DESCRIPTION	QUANTITY
M080618	LADDER PLTFRM BASE 15-39'	2
234353	OUTER POST 15'-39'	1
234355	INNER POST 15'-39'	3
234372	LADDER PLTFRM POST OUTER 15-39' F/CAGE	1
M080621	GUARDRAIL 15'-39'	4
M080619	GUARDRAIL END	2
M080793	SIDEWALL SUPPORT	4
M080794	BASE SUPPORT	4
M080795	SUPPORT GUSSET	4
M080620	TOEBOARD END	1
M080467	DOUBLE PLATFORM TOEBOARD SPLICE	1
M080469	CENTER POST GUSSET 15'-39'	2
234622	LADDER PLATFORM-TO-CAGE BAND	3
235943	BLT HFW .375-16X1.0 GR8.2 (50)	3
235955	NUT HX FLLK.375-16 GR5 (50)	3
193797	BLT HFW .375-16X1.5 JS500 GR8.2	4
M089500	AGI LADDER SYSTEM MANUAL	1
185011	CTN 53X27X7 for BIN PARTS	1

6.11. Single Eave Platform 42'-135' – 234369

PART NUMBER	DESCRIPTION	QUANTITY
M080634	LADDER PLTFRM BASE 42'-135'	1
234359	OUTER POST 42'-135'	1
234360	INNER POST 42'-135'	1
234373	LADDER PLTFRM POST OUTER 42-135' F/CAGE	1
M080635	GUARDRAIL 42'-135'	2
M080619	GUARDRAIL END	2
M080793	SIDEWALL SUPPORT	2
M080794	BASE SUPPORT	2
M080795	SUPPORT GUSSET	2
M080620	TOEBOARD END	2
234622	LADDER PLATFORM-TO-CAGE BAND	3
235943	BLT HFW .375-16X1.0 GR8.2 (50)	2
235955	NUT HX FLLK.375-16 GR5 (50)	2
185011	CTN 53X27X7 for BIN PARTS	1
M089500	AGI LADDER SYSTEM MANUAL	1

6.12. Double Eave Platform 42'-135' – 234371

PART NUMBER	DESCRIPTION	QUANTITY
M080634	LADDER PLTFRM BASE 42'-135'	2
234359	OUTER POST 42'-135'	1
234360	INNER POST 42'-135'	3
234373	LADDER PLTFRM POST OUTER 42-135' F/CAGE	1
M080635	GUARDRAIL 42'-135'	4
M080619	GUARDRAIL END	2
M080793	SIDEWALL SUPPORT	4
M080794	BASE SUPPORT	4
M080795	SUPPORT GUSSET	4
M080620	TOEBOARD END	1
M080483	DOUBLE LANDING TOEBOARD SPLICE 42-135'	1
M080482	CENTER POST GUSSET 42'-135'	2
234622	LADDER PLATFORM-TO-CAGE BAND	3
235943	BLT HFW .375-16X1.0 GR8.2 (50)	3
235955	NUT HX FLLK.375-16 GR5 (50)	3
193797	BLT HFW .375-16X1.5 JS500 GR8.2	4
M089500	AGI LADDER SYSTEM MANUAL	1
185011	CTN 53X27X7 for BIN PARTS	1

6.13. Inside Ladder Packages

	DESCRIPTION	LADDER SEGMENT	INSIDE LADDER CLIP	FOAM PLUG	GLUE	INSIDE LADDER HARDWARE
NOWIDER		234500	234519	234529	234556	234548
234560-4	INSIDE LADDER PACKAGE - 4 TIER	4	10	32	1	1
234560-5	INSIDE LADDER PACKAGE - 5 TIER	5	12	40	2	1
234560-6	INSIDE LADDER PACKAGE - 6 TIER	6	14	48	2	1
234560-7	INSIDE LADDER PACKAGE - 7 TIER	7	16	56	2	1
234560-8	INSIDE LADDER PACKAGE - 8 TIER	8	18	64	2	1
234560-9	INSIDE LADDER PACKAGE - 9 TIER	9	20	72	3	1
234560-10	INSIDE LADDER PACKAGE - 10 TIER	10	22	80	3	1
234560-11	INSIDE LADDER PACKAGE - 11 TIER	11	24	88	3	1
234560-12	INSIDE LADDER PACKAGE - 12 TIER	12	26	96	3	2
234560-13	INSIDE LADDER PACKAGE - 13 TIER	13	28	104	4	2
234560-14	INSIDE LADDER PACKAGE - 14 TIER	14	30	112	4	2
234560-15	INSIDE LADDER PACKAGE - 15 TIER	15	32	120	4	2
234560-16	INSIDE LADDER PACKAGE - 16 TIER	16	34	128	4	2
234560-17	INSIDE LADDER PACKAGE - 17 TIER	17	36	136	5	2
234560-18	INSIDE LADDER PACKAGE - 18 TIER	18	38	144	5	2
234560-19	INSIDE LADDER PACKAGE - 19 TIER	19	40	152	5	2
234560-20	INSIDE LADDER PACKAGE - 20 TIER	20	42	160	5	2
234560-21	INSIDE LADDER PACKAGE - 21 TIER	21	44	168	6	2
234560-22	INSIDE LADDER PACKAGE - 22 TIER	22	46	176	6	2
234560-23	INSIDE LADDER PACKAGE - 23 TIER	23	48	184	6	2
234560-24	INSIDE LADDER PACKAGE - 24 TIER	24	50	192	6	2
234560-25	INSIDE LADDER PACKAGE - 25 TIER	25	52	200	7	3
234560-26	INSIDE LADDER PACKAGE - 26 TIER	26	54	208	7	3
234560-27	INSIDE LADDER PACKAGE - 27 TIER	27	56	216	7	3

6.14. Inside Ladder Hardware Package - 234548

PART NUMBER	DESCRIPTION	QUANTITY
193797	3/8" x 1 1/2" Hex bolt c/w sealing washer	25
235943	3/8" x 1" Hex bolt c/w sealing washer (Bag of 50)	1
235951	3/8" Nut (Bag of 100)	1
198932	Inside Ladder Instructions	1

6.15. Self Closing Gate Kit 15'-39' – 234285

PART NUMBER	DESCRIPTION	QUANTITY
213061	DOOR SELF CLOSING GATE C/W DECAL	1
234354	LADDER PLTFRM Z-CHANNEL POST 15-36'	1
234695	LADDER PLATFORM SPRING HINGE	2
213376	CATWALK LATCH	1
235901	BLT HFW .25-20X.75 GR8.2 (75)	0.2
154156	NUT HX FLLK.25-20 JS500 G2	15
154005	BLT RH MACH #10-24X.75 ZINC	8
150008	NUT HX #10-24 ZN	8
193774	WSHR SEALING .313 STL/NEO	8
185011	CTN 53X27X7 for BIN PARTS	1

6.16. Self Closing Gate Kit 42'-135' – 234286

PART NUMBER	DESCRIPTION	QUANTITY
213061	DOOR SELF CLOSING GATE C/W DECAL	1
234361	LADDER PLTFRM Z-CHANNEL POST 42-135'	1
234695	LADDER PLATFORM SPRING HINGE	2
213376	CATWALK LATCH	1
235901	BLT HFW .25-20X.75 GR8.2 (75)	0.2
154156	NUT HX FLLK.25-20 JS500 G2	15
154005	BLT RH MACH #10-24X.75 ZINC	8
150008	NUT HX #10-24 ZN	8
193774	WSHR SEALING .313 STL/NEO	8
185011	CTN 53X27X7 for BIN PARTS	1

6.17. Ladder Parts Identification



6.18. Platform Part Identification



234353 - Outer Post 15'-39' 234359 - Outer Post 42'-135'



234355 - Inner Post 15'-39' 234360 - Inner Post 42'-135'







234354 – Ladder Platform Z-Channel M080469 – Center Post Gusset 15'-39' M080482 - Center Post Gusset 42'-135' 234361 – Ladder Platform Z-Channel



M080467 - Double Landing Toeboard Splice 15'-39' M080483 – Double Landing Toeboard Splice 42'-135'



Post 15'-39'

Post 42'-135'

M080619 - Guardrail End



M080618 – Ladder Platform Base 15'-39' M080634 – Ladder Platform Base 42'-135'



M080621 - Guardrail 15'-39' M080635 - Guardrail 42'-135'

6. APPENDIX

M080794 – Base Support

M080795 – Support Gusset



213376 - Self Closing Gate Latch













234695 – Self Closing Gate Hinge

7. Warranty

AGI Grain Bin Products

Ag Growth International, Inc. ("AGI") warrants that the goods and/or services being supplied (the "Goods") will be free from defects in materials and workmanship under normal conditions, use, service, and maintenance, for a period of twelve (12) months from the date of first operation of the Goods, but in no event more than eighteen (18) months from the date of delivery of the Goods to the end-user (or as otherwise set out in the chart below) (the "Warranty Term"). If the Goods are being used for rental purposes, the Warranty Term for the subject Goods shall be limited to 90 days.

Galvanized Bins	5 Years
SureTrack	2 Years
Easyflow2	2 Years
Fans	3 Years
Heaters	1 Year
Side Draw	5 Year
Transitions	3 Years
Roof Exhauster	1 Year
Floors	5 Years
Catwalk	1 Year
Bulk Feed Tanks	2 Years
Hopper Tanks	5 Year
SeedStor-K Cones	
Paint	1 Year
Structural	10 Year
Commercial HBB Hopper	
Paint	1 Year
Structural	10 Year
Welded Cone(s)	
Paint	1 Year
Structural	10 Year
Farm Smoothwall Bins	
Paint	1 Year
Structural	10 Year
Commercial Smoothwall Bins	
Paint	1 Year
Structural	10 Year
SMARTStir Accessories	
Trolley	1 Year
Down Auger	1 Year
Disconnected Box	1 Year
Grain Spreader	1 Year
EasyDry Accessories	
Plenum	5 Year
Controls	1 Year

Subject to AGI's sole discretion, if the Goods, or a component thereof, are found to have a default in materials and/or workmanship within the Warranty Term, AGI will, at its own option and expense, repair or replace the subject Goods or refund the purchase price for the applicable Goods. Any warranty related expenses incurred on behalf of or by the end-user without the prior written consent of AGI shall be the sole responsibility of the end-user. Expenses relating to travel, customs or import duties and tariffs, equipment rental, and any costs associated with accessing the Goods are the sole responsibility of the customer. Warranty shall be void in the event that the Goods are returned or disposed of without the written consent of AGI.

The customer shall not assert a claim that the Goods are defective unless the customer gives written notice to AGI of such defect within forty-eight (48) hours of discovering such defect. In the event of a warranty claim, the customer must complete any and all information

required by AGI in order to properly assess or investigate the claim. AGI shall be given a reasonable opportunity to inspect and test the Goods in question. Failure by the customer to notify AGI of such claim within 48 hours shall operate as a waiver of any and all such claims by the customer.

THIS IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY AGI WITH RESPECT TO THE GOODS AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS, OR OTHERWISE, AND WHETHER OR NOT AGI'S GOODS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY AGI FOR BUYER'S USE OR PURPOSE.

This limited warranty extends solely to Goods manufactured by AGI and does not cover any third-party parts, components, or materials. To the extent permitted by the manufacturer, AGI will pass on applicable warranties on third-party parts, components or materials to the end-user. This warranty does not extend to any losses or damages due to misuse, use of a kind and/or to a degree not reasonably expected to be made of the Goods, any use of the Goods which is not an intended use as specified in AGI's published product literature or otherwise specified by AGI in writing, accident, acts of God, abuse, neglect, normal wear and tear (including corrosion and cosmetic issues), any equipment attached to or used in conjunction with the Goods, any field modifications or substitutions to original Goods, component damage incurred during shipping and handling, modification or alteration, used beyond rated capacity, or improper installation, maintenance or application.

THE SOLE AND EXCLUSIVE REMEDY FOR ANY CLAIM HEREUNDER SHALL BE LIMITED TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE. AGI SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE AND IN NOT EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL AGI'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PURCHASE PRICE OF THE GOODS. BUYER AGREED THAT IN NO EVENT SHALL AGI'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES. THE TERM "CONSEQUENTIAL DAMAGES" SHALL INCLUDE, BUT NOT BE LIMITED TO, LOSS OF ANTICIPATED PROFITS, LOSS OF USE, LOSS OF REVENUE, FAILURE TO MEET GOVERNMENT AND/OR ADMINISTRATIVE REQUIREMENTS, CLEAN UP COSTS, COST OF CAPITAL AND DAMAGE OR LOSS TO OTHER GOODS, PROPERTY OR EQUIPMENT.

To the fullest extent permitted by law, Buyer, on behalf of itself, its suppliers, their agents, employees or any entity or person for which Buyer is or may be responsible ("Indemnitors") shall fully indemnify, save and hold AGI, its agents, employees, officers, directors, partners and related entities harmless from and against all liability, damage, loss, claims, demands, actions and expenses of any nature whatsoever, including, but not limited to reasonable attorney's fees which arise out of or are connected with: (a) any negligent act, error or omission by any Indemnitor in the performance of this agreement; (b) the failure of the Indemnitor to comply with the laws, statutes, ordinances or regulations of any governmental or quasi-governmental authority; or (c) the material breach of any term or condition of this agreement by any of the Indemnitors. Without limiting the generality of the foregoing, the indemnity hereinabove set forth shall include all liability, damage, loss, claims, demands, and actions on account of personal injury, death or property loss to any third party, any Indemnitee, any of Indemnitee's employees, agents, licensees or invitees. The indemnity set forth herein shall survive any termination of this agreement.

THIS WARRANTY IS NON-TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL END-USER AND SHALL BE CONSIDERED VOID IF NOT REGISTERED WITHIN 30 DAYS OF RECEIPT OF THE GOODS BY THE ORIGINAL END USER.

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, India and Italy and distributes its products globally.



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