



15' – 54' Farm Series Grain Bin

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: 198862 R68

Revised: May, 2025

Original Instructions

New in this Manual

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

Description	Section
Updated	Section 5.2 – Foundation Construction on page 26
Updated	Section 5.4 – Foundation Detail and Anchor Bolt Layout on page 28
Updated	Section 5.4.1 – Anchor Bolt Plan on page 28

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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 15' – 54' Farm Series Grain Bin.

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.



Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death.



Indicates a hazardous situation that, if not avoided, could result in serious injury or death.



Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.



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 grain bin 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.

- **Steel-Toe Boots**



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

- **Coveralls**



Wear coveralls to protect skin.

- **Work Gloves**



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

- **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 grain bin 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 grain bin as applicable.
- Store auxiliary operations/maintenance manuals in a safe place available for future use.

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

WARNING

- Keep grain bins 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 grain bin if there is a chance of any loading or unloading equipment contacting power lines.
- Do not locate grain bins on both sides of a power line or under a power line.
- Electrocution can occur without direct contact.

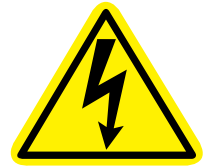
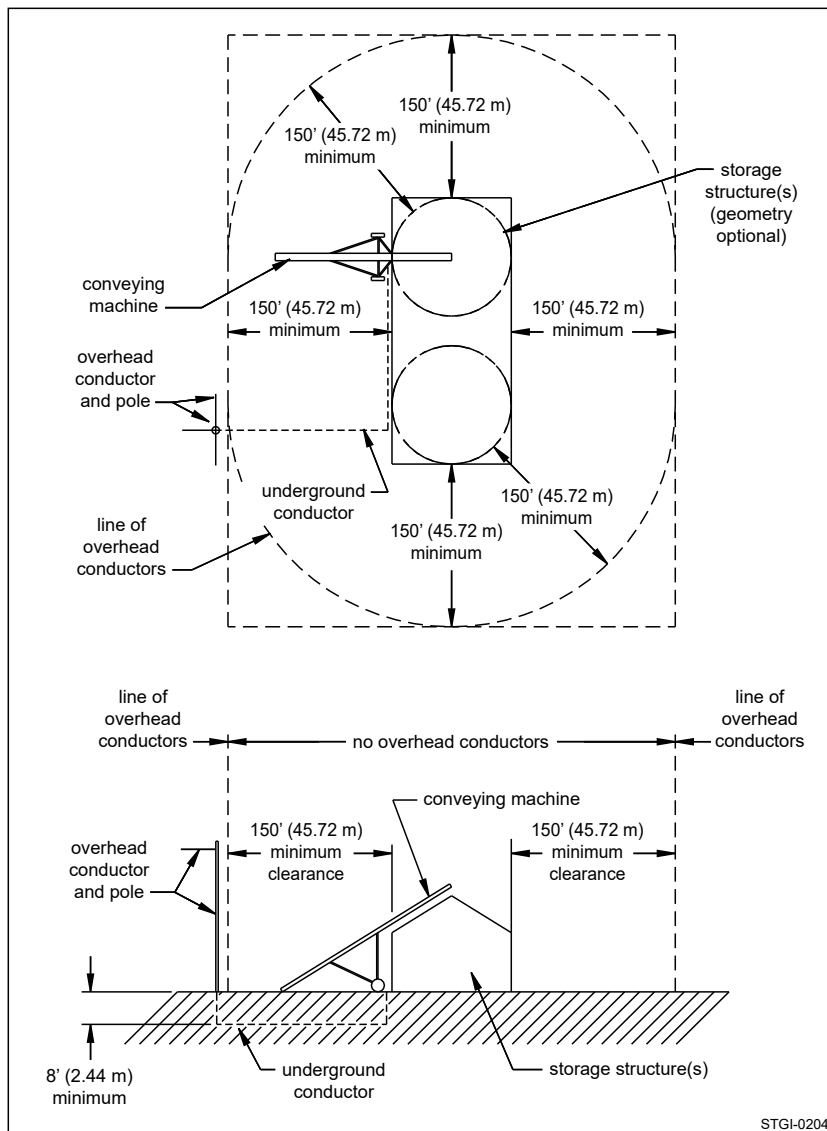


Figure 1. Power Lines and Conductor Clearance



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.

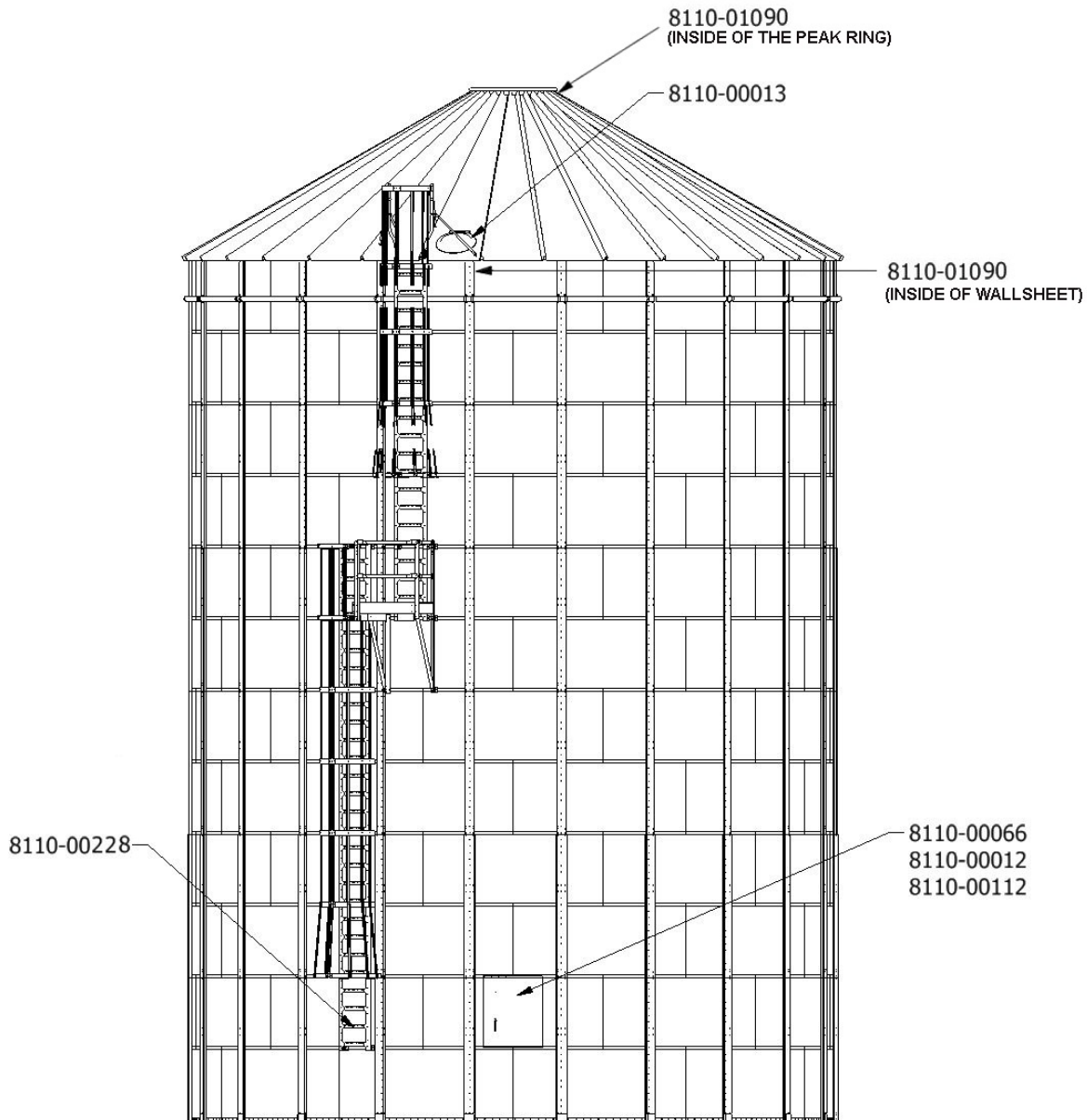
2.9. Decal Installation/Replacement

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.

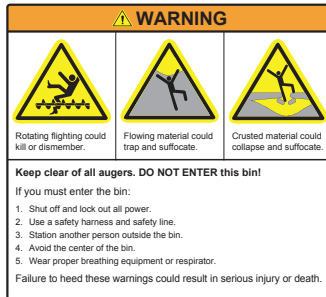
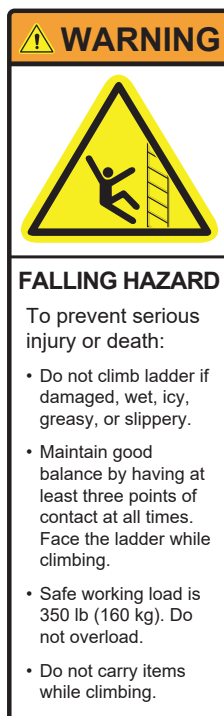
2.10. Safety Decal Locations and Details

Replicas of the safety decals that are attached to the grain bin and their messages are shown in the figure(s) that follow. Safe operation and use of the grain bin 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

8110-00112**8110-00013****8110-01090****8110-00228**

3. Before You Begin

3.1. Bin Design and Capacity

Standard AGI Grain Bins are designed for:

1. Non-corrosive free-flowing materials up to 52 lbs/ft³ (833 kg/m³) average compacted bulk density.
2. Maximum horizontal wind pressure based on 94 mph (151 km/h) as per NBCC 2015 and 105 mph (169 km/h) as per ASCE 7-16.
3. Zero seismic activity.

Note

Seismic resistance in grain bins varies with height and diameter. Many standard designs have significant seismic capabilities. Designs can be reviewed and/or modified to reflect local seismic requirements.

4. Roof loading capabilities vary with diameter, peak load and snow load.

- a. Peak Loads – standard peak loads follow. **Upgrades are available.**

Table 1. Peak Loads for Various Roofs

Size	Type of Roof	Load (lbs)	Load (kg)
15' to 24'	non-structural	4000 lbs	1814 kg
27' to 48'	non-structural	5000 lbs	2268 kg
51' to 60'	non-structural	8000 lbs	3629 kg
48' to 108'	structural	20,000 lbs	9072 kg
135'	structural	100,000 lbs	45359 kg

- b. Roof Snow Loads (RSL) – at the above stated standard peak loads, standard RSLs vary with diameter and range from 16 psf (78 kg/m²) to 45 psf (220 kg/m²). **Upgrades are available.**

Note

The correlation between ground snow load (GSL) and roof snow load (RSL) for grain bin designs vary with jurisdictions. In the US $GSL = 2 \times RSL$. In Europe $GSL = 1.25 \times RSL$. In Canada the correlation between GSL and RSL varies and is site specific.

- c. For maximum roof snow load capacities for various sizes and types of roofs, refer to the Roof Design Capacities sections that follow.

3.2. Guidelines for Supporting Catwalks and other External Loads on AGI

Frequently catwalk and related equipment loads are supported on grain bins. Such connections are commonly made into the grain bin stiffeners and across the peak. A grain bin is a thin shell structure primarily designed to withstand the internal uniformly distributed loads inherent with the stored bulk material inside of the bin. Special considerations must be given to the manner in which external loads are supported. AGI has developed products which are compatible with these requirements and considerations. If a third party solution is provided, the provider assumes full responsibility of the structure, its load distribution, and the manner in which it is connected to the grain bin. The following guidelines must form part of the third party design considerations.

Connection to Stiffeners

1. The available catwalk support stiffeners in AGI stiffened bins are for 10,000 lb incremental catwalk loads and 20,000 lb incremental catwalk loads per upgraded stiffener. The actual loads subjected to a single stiffener by the mating catwalk support shall not exceed these maximum capacities.
2. AGI recommends that the vertical load transfer between the catwalk supports and the stiffener occur over a minimum distance of 66" for 10,000 lb loads and 120" for 20,000 lb loads. Adequate connection strength must be provided.
3. The catwalk support stiffener in AGI bins are designed to provide vertical load support only. Any lateral loads subjected to the grain bin must be negligible.
4. There is a restriction of 2 upgraded catwalk support stiffeners per bin location. Therefore, the maximum supported load at the grain bin eave is 20,000 lbs (for two 10,000 lb upgrades) and 40,000 lbs (for two 20,000 lb upgrades). This can be repeated on the opposing side of the bin at a second location. Deviation from this must be approved by AGI Engineering.

Connection to Peak Rings

1. The allowable vertical peak load to any AGI bin roof is restricted to its published rated capacity. The load must be centered and evenly distributed into the peak ring. Any off-centre load and/or improper load distribution may cause roof failure.
2. A AGI structural roof requires the peak support loads to be transferred directly into the compression ring/ roof rafter system. This is accomplished with peak load support brackets that are included with the structural roof. They must be installed as shown in the structural roof manual, connecting the peak support structure to the compression ring. They are required even if a non-AGI peak support structure is used. A non-AGI peak support structure needs to be designed to be able to connect with the brackets. The required bolt pattern is shown in the structured roof manual.
3. A AGI non-structural roof that is supporting a catwalk requires six clips to be installed in order to attach the flat cap to the peak ring. These clips are available from AGI.

3.3. Foundation Design and Loads

The foundations for the stiffened bin models are based on 3000 lbs. per sq. ft. (144 kPa) soil bearing capacity. All foundation designs use 3000 lbs. per sq. in. (21 MPa) ultimate compressive strength (after 28 days) for concrete and 43,500 lbs. per sq. in. (300 MPa) re-bar. The foundation designs included in this manual are suggestions only, and will vary according to local soil conditions. AGI will not assume any liability for results arising from their use.

Important

Foundation should be uniform and level. Level should not vary by more than ¼" over a span of four feet under the bottom ring angle. Any variance from level must be shimmed under upright base assembly. If being utilized to support a full floor aeration system, this levelness requirement should extend across the complete floor area.

3.4. Lifting with Bin Jacks

Use bin jacks to lift the bin safely during assembly and help prevent strength and functionality problems later, including alignment, tolerance, bin roundness, distortion, and twisting issues.

**WARNING**

To prevent risk of serious injury or damage to the equipment:

- Prior experience is required. Do not use bin jacks if you are not properly trained or have never used them.
- Do not use bin jacks in windy conditions.
- Do not exceed lifting capacity of a bin jack.
- Powered bin jacks are recommended. If using manually operated chain jacks, lift carefully and evenly to prevent damage.

For important additional information, refer to:

- Specifications section in your manual, the sales order, or approval drawing of the bin's radius and total weight of the grain bin (including roof, fasteners, stiffeners, and all accessories).
- Bin jack manufacturer's instructions and bin jack lifting capacity.

Tools and Equipment

Use the following to lift the bin:

- bin jacks (internal or external)
- scaffolding/ladders
- lifting lugs
- drift pin
- socket/impact set
- wrench set

Additional tools and equipment may be required.

General Bin Jacking Instructions

Refer to the bin jack manufacturer's instructions in addition to the following to safely lift the bin during assembly:

- Use one bin jack per wall sheet.
- Confirm that the number of bin jacks can support at least 5X the weight of the bin.
- Fabricate lifting lugs to match the hole spacing on the bin.
- Assemble the top 1-2 wall sheet rings directly on the foundation.
- Layout and space the bin jacks evenly at each stiffener/seam according to the bin's radius.
- Anchor the bin jacks securely to the concrete.

- Connect the bin jacks securely to the stiffeners/seams.
- Lift using the bin jacks at an even and slow pace.
- Align the stiffener/seam holes with the wall sheet holes using a drift pin.
- When not actively assembling, lower the bin fully and secure it to the foundation to protect against wind gusts and other conditions.

3.5. Lifting Wide-Corr® Bins with Cranes

The table below lists the maximum height and weight limits for each diameter of bin which AGI approves for lifting by the roof using a crane. These limits assume that the total lifted load is evenly distributed around the peak ring, through the use of a lifting tripod or similar device of adequate strength. Any bin exceeding EITHER the height or weight limit **MUST** be lifted using jacks or similar method which supports the wall sheets directly.

These limits are critical. Failure during lifting carries the risk of serious injury or death.

Table 2. Lifting Weights for Various Bin Sizes

Bin Diameter	Maximum Tier Height	Approximate Weight
15'	7	5,200 lbs
16'		
18'		
21'	8	9,000 lbs
24'		
27'	8	11,000 lbs
30'	8	13,000 lbs

Important Safety Notes

- Limits above are based on safe lifting of the bin only. They are not based on design factors for lifting people or objects over people. Adequate safety blocks or supports must be used when working under or near the bin wall.
- Extreme caution must be used when lifting bins more than a few inches, as occurs when mounting bins on hoppers. “Bouncing” of the load and/or wind gusts can add significantly to the loads on the roof and could cause overloading and/or failure.
- Please refer to any additional capacity information, lifting instructions, and safety information provided by the crane manufacturer.

3.6. 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.

3.7. Methods of Installation

The recommendations for assembling and installing AGI grain bins must be closely followed to achieve the full strength of the bin and to achieve adequate weather sealing. The product warranty is void if:

1. Wall sheets and/or uprights not specified for a given tier are used.
2. Foundations are found to be inadequate or out-of-level.
3. Anchor bolts (cast-in-place, drill-in, chemical type or other) are found to be inadequate.
4. Off-center loading or unloading is used. (This does not apply to the use of approved side unloading systems).
5. Materials stored are not free-flowing or have a compacted bulk density greater than 52 lbs/ft³ (833 kg/m³).

If using bin jacks during assembly, always lift on an upright. Choose a hoist with an adequate capacity for the expected empty bin deadload. Make sure the rated capacity of the hoist is not exceeded.

3.8. Cutting Openings in Wide-Corr® Grain Bins

This section provides instructions for cutting openings to accommodate fan transitions, unloading augers and roof vents.

General Rules for Cutting openings

1. Never cut any uprights, roof ribs, or wall sheet bolted vertical seams to create an opening.
2. Openings shall be located so equipment being installed won't interfere with any bin components/accessories.
3. Openings shall be minimized as much as possible for structural integrity of grain bins.
4. Corners in openings shall be cut with minimum radius of 1/8" to reduce stress concentration.
5. Openings shall be sealed all the way around for all weather conditions.
6. Instructions shall be followed closely to avoid damage to bin structure.
7. Except cutting openings described below, any other modification to AGI bins shall be approved by a professional engineer.

Openings for Fan Transitions of Aeration Floors

1. Consult aeration floor installation instructions for information on Planning floor layout.
2. Openings shall be centered to a wall sheet in horizontal direction.
3. Opening shall be cut as tight as it can be for the transition to go through and shall have no more than 1/4" gap on any side to the section of a fan transition going through a bin wall.

4. Opening height for fan transition shall be limited to 12.5" inches from bottom edge of a bottom wall sheet.
5. Opening width shall not exceed 46.5" for stiffened bins and 72.5" for unstiffened bins.
6. Vertical support shall be required to support load above opening.
7. Bottom angles may be cut flush to the sides of an opening to form part of opening.

Openings for Unloading Augers of Wide-Corr® Bins with Full Floor Aeration

1. Consult aeration floor installation instructions for information on Planning floor layout.
2. Openings shall be centered to a wall sheet in horizontal direction.
3. Openings shall be cut as tight as it can be for unloading auger to go through and shall have no more than 1/4" gap to auger flange section on any side.
4. Opening height for any auger shall be limited to 12.5" from the bottom edge of a bottom wall sheet.
5. Vertical flange of a bottom angle may be cut flush to sides of an opening to form part of opening.

Openings for Roof Vents in Roof Sheets

1. Openings shall be centered between roof ribs and have 2.5" minimum distance between edge of opening and base of a roof rib.
2. Openings can be square, rectangular, or round.
3. Openings shall be the same size as the inlet opening of a vent being installed.
4. Any side of a square/rectangular opening shall have a maximum length of 18" and a circular opening shall have a maximum diameter of 24".

3.9. 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 grain bin installation.
2. Design and build foundations with the necessary strength for the loads they must support, and for local soil conditions. AGI foundation guidelines are based on specific stated conditions and may not be applicable to local conditions.
3. Your foundation must provide uniform and level support to the structure being supported. Surface imperfections causing gapping must be remedied. This may involve, but not be limited to a) grouting under the bottom ring of a non-stiffened bin or tank, and b) shimming under the uprights of a stiffened bin or tank, or under the legs of a hopper.
4. 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.
5. Comply with all assembly instructions provided in the appropriate assembly manual to make sure your whole grain bin is constructed safely. Important: Do not deviate from the wall sheet and upright layouts provided.
6. Before anchoring your structure to its foundation, make sure the structure is round. The maximum variation from perfect roundness is 3/4" on the radius. Locate anchor bolts toward the outside of the anchor bolt holes (away from the circle) to permit the incremental expansion that can occur with the initial filling.

7. When installing roof stiffening rings, if it is necessary to shorten the stiffening ring tubes, shorten them as little as possible. Initially the nuts on the expanders should be centered and as close together as possible. When tightening, share the amount of take-up between expanders such that the nuts remain centered, and the amount of engagement between all expanders on the same ring is equalized.
8. If extending an existing bin or tank, ensure that the foundation is adequate for the increased loads it must support.
9. If installing an existing bin on a hopper, make sure the bin is designed for a hopper application, and that the foundation is capable of withstanding the substantial point loads that the hopper legs apply. If uprights are present, make sure that they are supported.
10. Make sure that an integral end-to-end connection exists between all mating uprights. Successive uprights must not overlap.
11. Vertical tolerances between uprights and wall sheets are tight. This can be affected by “jacking” techniques, which can allow the tolerance to grow or shrink depending on the technique used. The gapping between successive uprights must be monitored to ensure that upright holes align with wall sheet holes.
12. If catwalks are being installed on the structure, upright catwalk upgrades are likely required. The upgraded stiffeners must be installed in the correct locations to support the intended catwalk loads. Also, the structure must be properly oriented to ensure the eventual correct alignment between the catwalks and the supporting uprights. Finally, the connectors that tie into the uprights and support the catwalks are best installed during assembly of the structure. See the catwalk assembly manual for additional details.

3.10. 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.

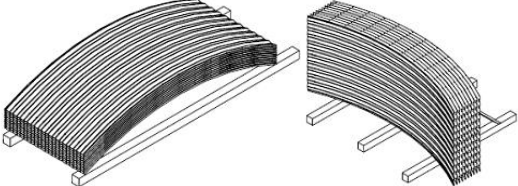
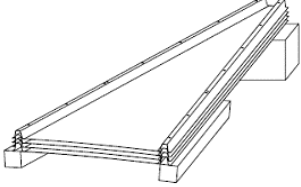
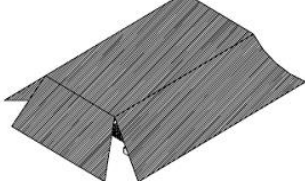
Storing Bin Bundles and Boxes Outdoors

Required Materials:

- Wood blocks
- Waterproof tarp

Storage Procedure:

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

Place the curved wall sheets with the hump facing up.	
Elevate the roof sheets at least 12" at the small end of the sheets.	
Place all the other bundles so they are well-sloped.	

- 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

- Open the bundles as soon as possible.
- 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.

- Dry any boxed parts that are wet and store them in a new, dry box.
- 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.

3.11. Grain Bin Use

- Fill the bin through the center roof opening only.
- Do not overfill the bin roof area! This may cause roof damage or failure.
- Do not off-center unload a grain bin. It is imperative to unload from the center of the bin first, until as much grain as possible has been removed, and only then proceed to unload from the next closest unload gate to the center. Continue utilizing the unload gates in succession from the center towards the outside. Gate control mechanisms should be clearly marked and interconnected to prevent an external gate from being opened first.
- The only exception to center unloading is when a properly designed and installed side draw system is utilized. However, as bins tend to go out of round when employing side draws, the bin must be completely emptied before refilling.
- When unloading a bin with a mobile auger through a properly designed auger chute, the entry end of the auger should be pushed into the center of the bin before the auger is engaged. Slower rates of flow are preferable and should not exceed the capacity of an 8" auger.
- Ensure that the inner door panels of grain bin doors are completely closed and latched before filling the grain bin.
- Never enter a loaded grain bin for any reason. Grain can be a killer.

3.12. 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.
- In order to maintain your wall sheets in good condition separate sheets and allow air circulation between them. Store sheets in a dry place. Do not store sheets with sheet ends pointing upwards.
- To keep an even pressure on walls, the bin must always be unloaded from the center.
- Contact local power officials for minimum power line clearance.
- See [Section 3.9 – Critical Assembly Requirements on page 18](#) for mandatory siting and assembly requirements.
- Store only non-corrosive, free-flowing materials up to 55 lbs/ft³ (880 kg/m³) average compacted density in AGI .
- Tighten all bolts to the recommended torque settings.
- Do not locate grain bins close to high buildings, which might cause snow to fall onto or build up on the roof of the grain bin. Consider future expansion and allow space for loading and unloading of the bin. Your dealer and local government agricultural consultants can help you plan your storage system for maximum efficiency.

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 roof rings and wind rings
- Scaffolding
- Centre-post bin stand
- Crane and/or bin jacks

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 unloading augers, aeration equipment, anchor bolts, foundation sealant, external ladders, safety cage 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.

4.4. Pre-Plan Assembly

Before assembling:

1. Read and understand this manual.
2. Develop an assembly plan, with consideration given to the layout of accessories and auxiliary equipment.
3. Predetermine the locations for access doors, anchor bolts, ladders, manways, side draws, roof steps, roof vents, fans, and other auxiliary equipment.
4. Plan your construction in accordance with your assembly and layout plan.

Important

Installation of accessories or equipment on grain systems equipment/structures that overstresses the bin in any manner will void the warranties.

In cases where additional loading is involved, if you do not already have specific recommendations from AGI, contact AGI engineering department before installation begins.

Do not install 15' – 54' Farm Series Grain Bin controls or the like near anything having a strong electromagnetic field such as large power transmission lines or transformers.

4.4.1 Pre-Planning: Side Draw Discharge, Aeration, and Unload Equipment

Side draw discharge pre-planning: Make certain side draw discharge does not fall on a vertical sidewall seam.

Figure 2. Never Position a Side Draw Opening at a Sidewall Seam

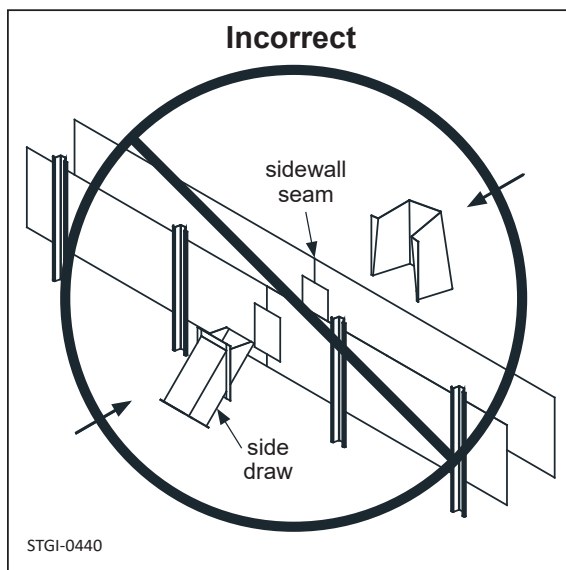
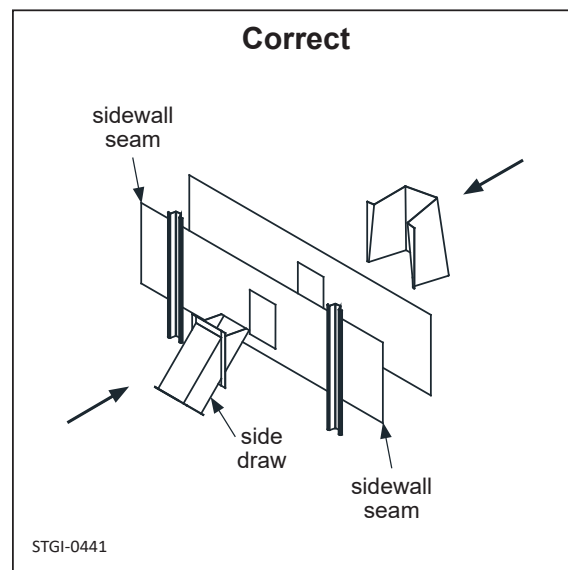
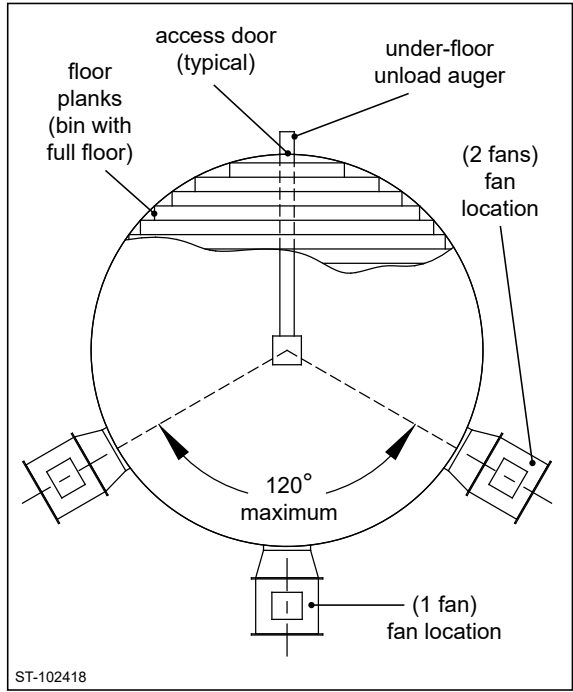


Figure 3. Position Midway Between Stiffeners and Not on a Vertical Seam



The following [Figure 4](#) is one suggested guide for locating aeration fans and floor unload equipment.

Figure 4. Example Fan and Unload Equipment Layout



5. Assembly

5.1. Assembly Safety

WARNING

- 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 grain bin.
- 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. Foundation Construction

1. Choose a site that is well drained and has a minimum soil-bearing capacity of 3000 lbs. per sq. ft. (144 kPa). If soil-bearing capacity is not known, consult a local engineering representative.
2. Use 4" to 6" (100-150 mm) of well compacted coarse gravel below slab and ring footing.
3. Use 3000 lbs. per sq. in. (21 MPa) concrete.
4. Make sure the foundation is level. The bin wall must have a uniform support to carry the wall loads and weather-sealing the bottom is made easier if the foundation is level. Camber the outside edge of the concrete to ensure that water drains.
5. The bin may be anchored using either 1/2" drill-in anchor bolts or 1/2" cast-in-place anchor bolts. Layout dimensions are provided in [Section 5.3 – Foundation Specifications on page 27](#).
6. Install one anchor bolt for every hole provided (6 per bottom ring angle section).

Note

For areas where wind speeds exceed 100km/h, use an additional 5/8" washer underneath the 1/2" anchor bolt washer. The 5/8" washer should have an OD of at least 1.4" and a thickness of at least 1/10". This is needed to provide adequate resistance against angle uplift.

7. Additional information for rebar:
 - a. 15" rebar end laps are included in weights
 - b. Standard length assumed to be 6 m (19 ft., 8 in.)
 - c. Add 15" (380 mm) for each additional lap if using shorter lengths
 - d. For 10M add 0.3 kg.
 - e. For #3 imp. add 0.5 lb

f. For #4 imp. add 0.8 lb

Note

One 1/2" anchor bolt needs to be installed into every slot in the bottom angle (6 per angle) to ensure that the bin is fixed at the bottom. The minimum embedment depth of the anchor bolts is 3"

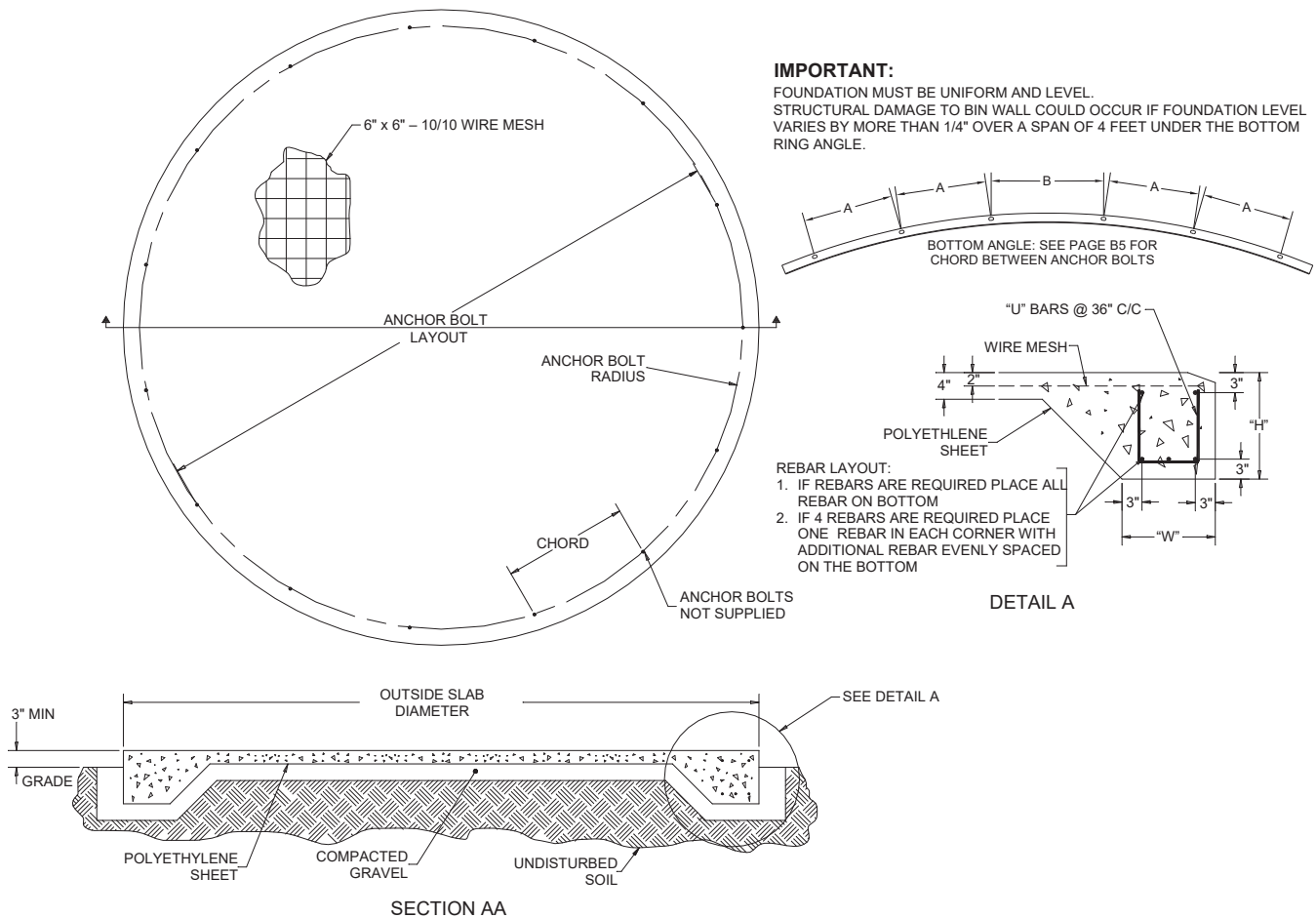
5.3. Foundation Specifications

Table 3. Foundation Specifications

Bin model	Slab dia.	“H”	“W”	Rebar - metric			Rebar - imperial				Wire mesh sq. ft.	Anchor bolt circle	Anchor bolt radius	Chord between anchor bolts		Min. no. 1/2" dia. anchors	Concrete (3000 psi) yards
				qty. & size	qty. of 1m “U” bars	kg.	qty. & size	lb.	qty. of 39” “U” bars	lb.				A	B		
1503-07	15'-11"	16"	14"	(3)10M	-	36	(2)#4	53	-	-	200	15'-1 3/8"	7'-6 11/16"	19"	23 5/8"	30	5.5
1803-07	18'-11"	16"	14"	(3)10M	-	43	(2)#4	80	-	-	281	18'-1 3/16"	9'-0 19/32"	18 31/32"	23 19/32"	36	7
2103-07	21'-11"	16"	14"	(3)10M	-	51	(2)#4	94	-	-	377	21'-1"	10'-6 1/2"	18 15/16"	23 9/16"	42	8
2108	21'-11"	18"	22"	(4)10m	-	65	(4)#4	182	-	-	377	21'-1"	10'-6 1/2"	18 15/16"	23 9/16"	42	11.5
2403-07	24'-11"	16"	15"	(3)10M	-	57	(2)#4	100	-	-	488	24'-0 13/16"	12'-0 13/32"	18 15/16"	23 17/32"	48	11
2408	24'-11"	18"	22"	(4)10M	-	74	(4)#4	207	-	-	488	24'-0 13/16"	12'-0 13/32"	18 15/16"	23 17/32"	48	16
2703-07	27'-11"	16"	15"	(3)10M	-	65	(2)#4	120	-	-	612	27'-0 5/8"	13'-6 5/16"	18 29/32"	23 17/32"	54	13
2708-09	27'-11"	18"	22"	(6)10M	-	128	(8)#3	245	-	-	612	27'-0 5/8"	13'-6 5/16"	18 29/32"	23 17/32"	54	17
3004-07	30'-10"	16"	15"	(3)10M	-	71	(2)#4	133	-	-	747	30'-0 3/8"	15'-0 3/16"	18 29/32"	23 1/2"	60	15
3008-09	30'-10"	18"	23"	(6)10M	-	140	(8)#3	273	-	-	747	30'-0 3/8"	15'-0 3/16"	18 29/32"	23 1/2"	60	20.5
3304-07	33'-10"	16"	15"	(3)10M	-	79	(2)#4	147	-	-	900	33'-0 3/16"	16'-6 3/32"	18 7/8"	23 1/2"	66	17.5
3308-09	33'-10"	18"	24"	(6)10M	(34)10M	176	(8)#3	301	(34)#3	45	900	33'-0 3/16"	16'-6 3/32"	18 7/8"	23 1/2"	66	23
3604-07	36'-10"	16"	15"	(3)10M	-	86	(2)#4	160	-	-	1065	36'-0"	18'-0"	18 7/8"	23 1/2"	72	20
3608-09	36'-10"	18"	24"	(7)10M	(37)10M	228	(8)#3	329	(37)#3	51	1065	36'-0"	18'-0"	18 7/8"	23 1/2"	72	24.5
4204-07	42'-10"	18"	16"	(4)10M	(43)10M	168	(4)#4	372	(43)#3	54	1440	41' -11 5/8"	20'-11 13/16"	18 7/8"	23 15/16"	84	28.5
4208-09	42' -10"	18"	24"	(7)10M	(43)10M	267	(8)#3	386	(43)#3	60	1440	41' -11 5/8"	20'-11 13/16"	18 7/8"	23 15/16"	84	33
4504-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4508-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4804-07	48' -10"	18"	17"	(4)10M	(49)10M	192	(4)#4	425	(49)#3	61	1873	47' -11 5/16"	23'-11 21/32"	18 27/32"	23 15/16"	96	36
4808-09	48'-10"	18"	25"	(7)10M	(49)10M	306	(8)#3	442	(49)#3	68	1873	47'-11 5/16"	23'-11 21/32"	18 27/32"	23 15/16"	96	42
5104-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5108-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5404-07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5408-09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5.4. Foundation Detail and Anchor Bolt Layout

Figure 5. Foundation and Anchor Bolt Detail



See [Section 5.3 – Foundation Specifications on page 27](#) for chord between anchor bolts.

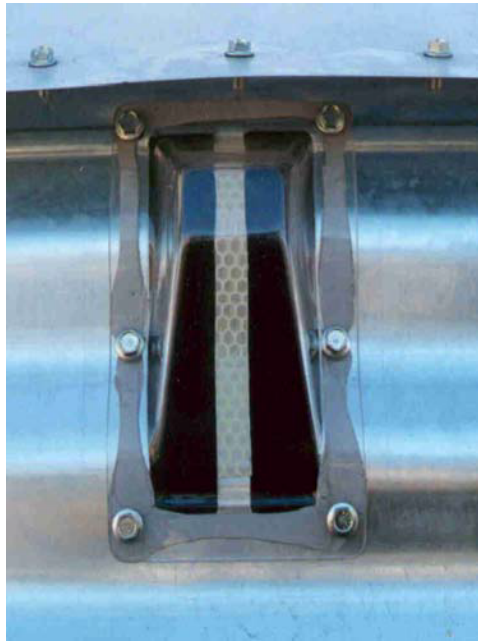
5.4.1 Anchor Bolt Plan

One 1/2" anchor bolt needs to be installed into every slot in the bottom angle (6 per angle) to ensure that the bin is fixed at the bottom. The minimum embedment depth of the anchor bolt is 3".

5.5. Grain Gauge Installation and Operation (Optional)

The Grain Gauge™ is a clear polycarbonate unit that shows when the grain level reaches the top of the sidewall. The highly reflective tape is visible at night when a light is directed at it. **When you can no longer see this reflective tape - the Grain Gauge™ is full and the grain auger should be shut off.** The Grain Gauge™ and reflective strip comes packaged in the parts box.

Figure 6. Grain Gauge



If the Grain Gauge Cutout IS Present

The cut-out for the Grain Gauge is located in a separate top tier wall sheet.

1. Position the sheet with the cutout for maximum benefit, either;
 - facing the direction of the auger that will be loading the bin, or
 - directly under the inspection hatch for easy clean out.

The Grain Gauge wall sheet can also be rotated to position the Grain Gauge at two possible positions:

- an upper position for smaller augers and/or larger bins
 - a lower position for larger augers and/or smaller bins
2. Install the reflective strip on the center web of the cut-out as shown.
 3. Caulk around the outside of the bolt holes on the Grain Gauge™ flange with the 1/16" x 3/8" tape caulking supplied.
 4. Fasten the Grain Gauge™ to the decal sheet using grain bin bolts with the indented upside down "V" at the bottom.

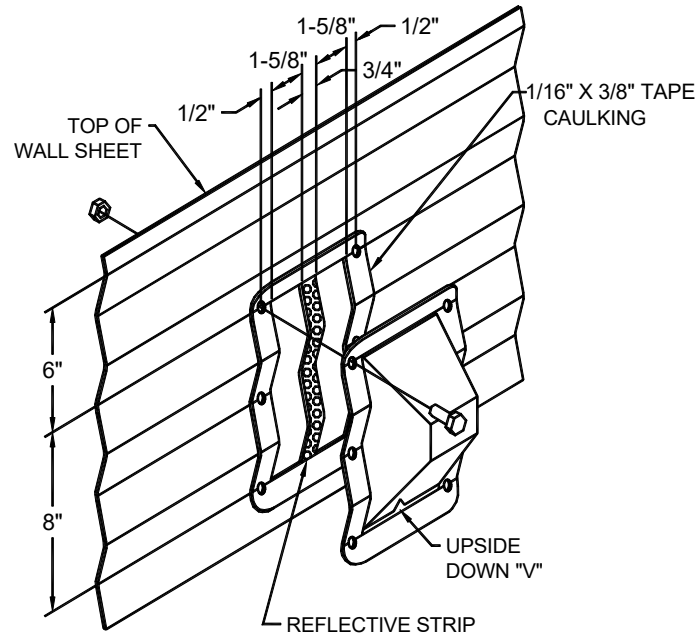
Note

Do not position the joint between two adjacent top ring angles directly over the Grain Gauge™ cutout. Insure that the top angle "bridges" the cutout and that the closest joint is at least 2 or 3 holes away.

If the Grain Gauge Cutout IS NOT Present

1. Using the grain gauge, position the grain gauge at a desirable location on the bin. The normal location is such that the top holes in the grain gauge are centered in the second corrugation valley below the top horizontal row of bin bolts at the eave (see [Figure 7 on page 31](#)).

Figure 7. Grain Gauge Detail



2. Mark and drill out holes using a 3/8" drill.
3. Mark and cut-out the two slots, using the holes as a reference, according to the diagram.
4. Install the reflective strip on the center web.
5. Install the grain gauge using bin bolts with the indented upside down "V" at the bottom.

5.6. Bin Roundness

It is imperative that the bin be as round as possible. The following steps describe how to ensure the bin is round.

1. Verify that the foundation meets all the requirements of the installation.
2. Scribe the bin circumference onto the foundation as follows:
 - a. Anchor a string to the exact center of the concrete foundation.
 - b. Consult the following table to find the scribe radius for the size of the bin being assembled.
 - c. Using the required string length, scribe the bin circumference onto the foundation.

The radius values given in the chart are 3/4-inch smaller than the wall sheet radius at the bottom. This ensures that the scribed circle can be seen during assembly. A perfectly placed ring of sheets should be 3/4 inch on the outside of this scribed circle.
3. After the first ring of wall sheets has been assembled, check the position and roundness of the ring:
 - a. Verify that the maximum amount that the bin is out of round is no more than 0.75" on the radius, when measured from the center of the bin.
 - b. Verify that the wall sheets form a smooth circle with no flat spots or cauliflower shaped curves.
 - c. Before anchoring the bin to the foundation, re-check to ensure that the bin is round and within tolerance.

Note

The longer you wait, the more it becomes difficult to correct the bin roundness.

4. Locate anchor bolts towards the outside of the anchor bolt slots (away from bin) to permit the incremental expansion that can occur with the initial filling of the bin.
5. When setting jacks, make sure they are also set round and that they are anchored to the concrete.

Table 4. Scribe Radius – 15' to 54' Bins

Nominal Bin Diameter (ft)	Scribe Radius (ft in)
15	7'4-3/4"
18	8'10-11/16"
21	10'4-9/16"
24	11'10-1/2"
27	13'4-3/8"
30	14'10-5/16"
33	16'4-3/16"

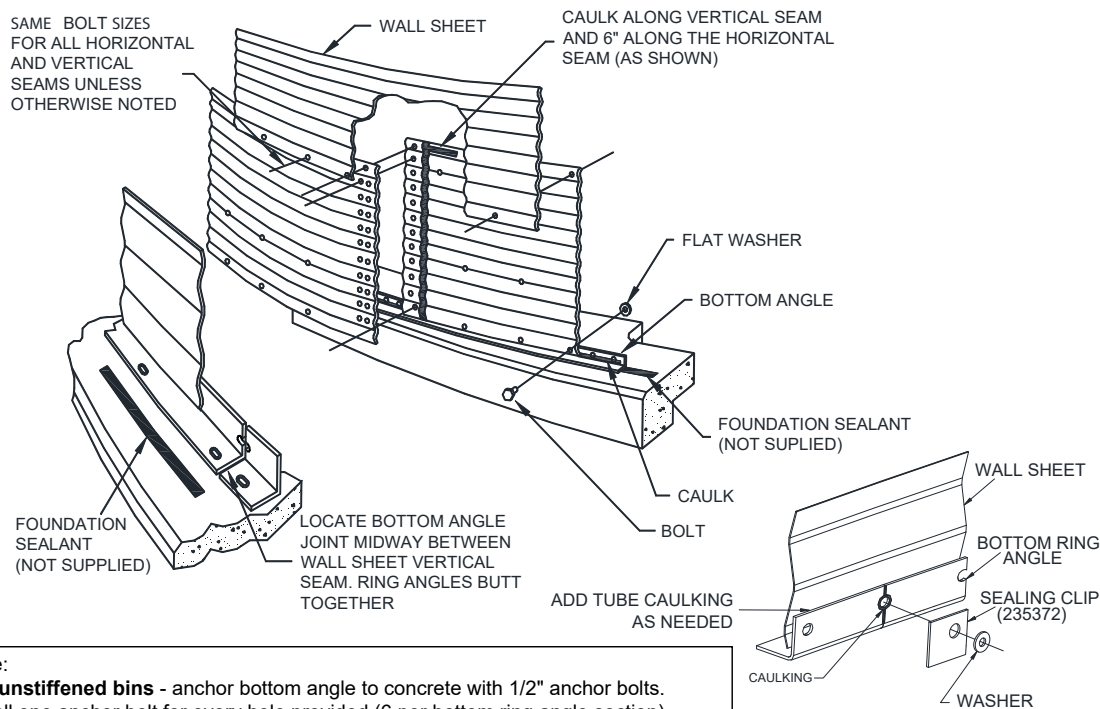
Nominal Bin Diameter (ft)	Scribe Radius (ft in)
36	17'10-1/8"
39	19'4"
42	20'9-15/16"
45	22'3-13/16"
48	23'9-3/4"
51	25'3-5/8"
54	26'9-9/16"

5.7. Wall Sheet and Bottom Angle Assembly

Note

For bin hardware specification, refer to .

Figure 8. Wall Sheet and Bottom Angle Assembly Detail



Note:

For unstiffened bins - anchor bottom angle to concrete with 1/2" anchor bolts. Install one anchor bolt for every hole provided (6 per bottom ring angle section).

For stiffened bins - the bottom angle anchors are not required for stiffened bins as long as the stiffener base assembly anchors are making a good seal between the bottom angle and the foundation. If the seal is not good due to uneven concrete it is recommended to also anchor the bottom angle with as many 1/2" anchor bolts as are needed to achieve a good seal.

5.8. Farm Series Sheet Part Number Matrix

Table 5. Farm Series Sheet Part Number Matrix

CORRUGATED FLAT WALL SHEETS					PUNCHED WALL SHEETS PRE 2005			PUNCHED WALL SHEETS 2005 AND LATER		
THICKNESS NOM (MIN)	GAUGE	LABEL COLOUR	WEIGHT lbs	LENGTH Overall (hole-to-hole)	FLAT	REGULAR	BOTTOM	REGULAR	BOTTOM	
.040 (.036)	20	Yellow	58.3	116.5" (112.5")	194651	194910 Stencil		194546 Stencil		
					194698	n/a		194576 Grain-Gauge		
					194679	194926	194940	194550	194560	
.050 (.045)	18	Orange	72.8		194652	194913 Stencil		194547 Stencil		
					194699	n/a		194577 Grain-Gauge		
					194680	194927	194949	194551	194561	
.057 (.052)	17	Red	83.0		194681	194928	194941	194552	194562	
.066 (.061)	15	Pink	97.7		194682	194929	194942	194553	194563	
.076 (.070)	14	Lime	112.2		194683	194930	194943	194554	194564	
					194653			194548 Stencil		
					194718			194549 Grain-Gauge		
.096 (.088)	13	Green	141.1		194684	194936 for Seed-Stor only		194555	194565	
						194931	194944			
.116 (.107)	12	Blue	171.4		194685	194932	194945	194556	194566	
.126 (.117)	11	Purple	188.2		194686	194933	194946	194557	194567	
.139 (.130)	10	Black	208.5		194687	194934	194947	194558	194568	
.168 (.159)	8	Tan	251.0		194688	194935	194948	194559	194569	
SHORT SHEETS INSTALLED BESIDE WALK-IN DOOR										
.076 (.070)	14	Lime	67.1	69.6" (65.625")	194672	194952	194953	194570	194573	
.116 (.107)	12	Blue	102.4		194674	194962	194963	194571	194574	
.168 (.159)	8	Tan	150.0		194650	194986	194987	194572	194575	

Bottom wall sheets are punched for full floor aeration flashing. Use bin bolts provided to plug unused holes if a full floor aeration system is not being used.

5.9. Wall Sheet Caulking Detail

Figure 9. Wall Sheet Caulking Detail (inside view) — Imperial

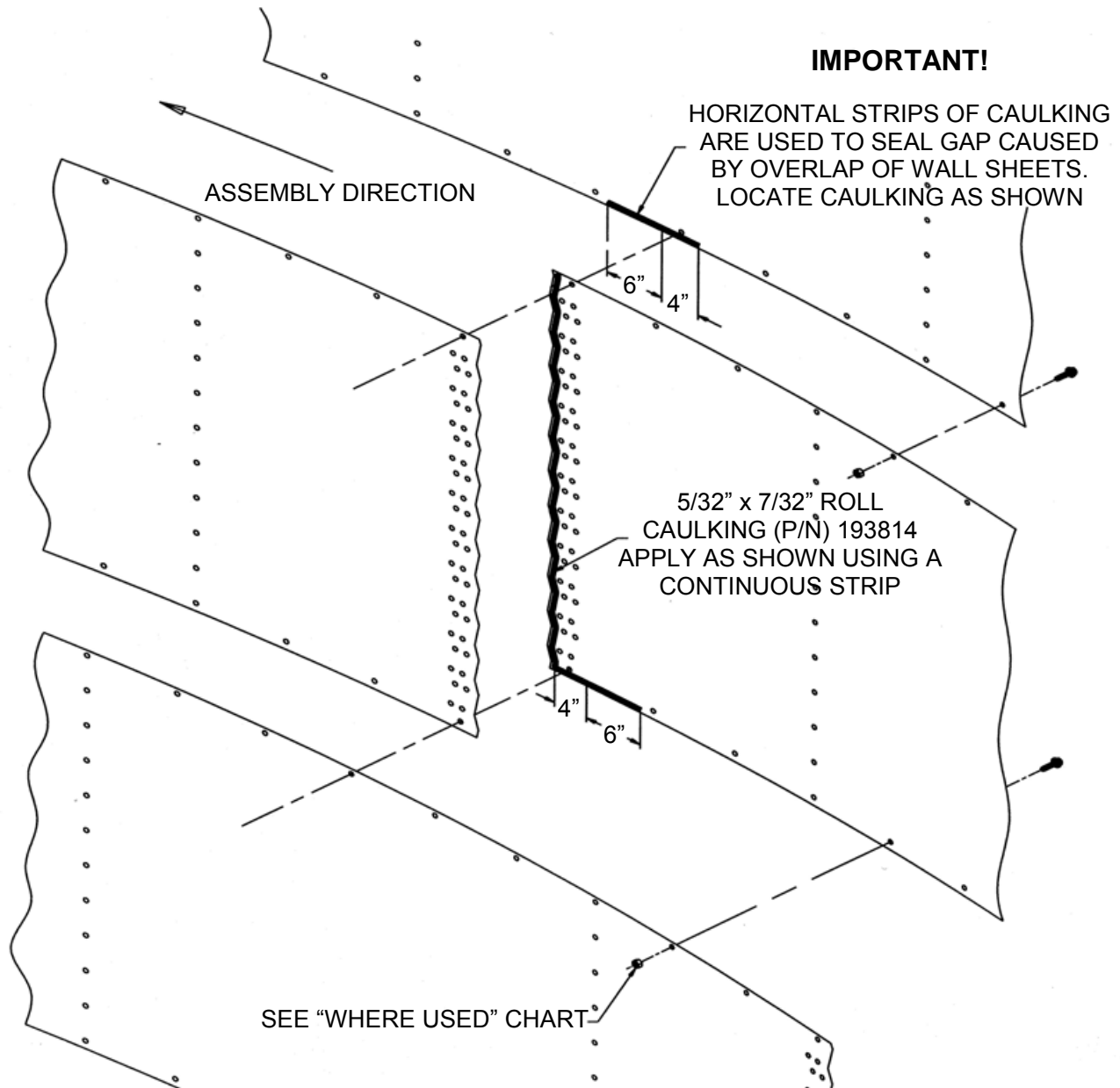
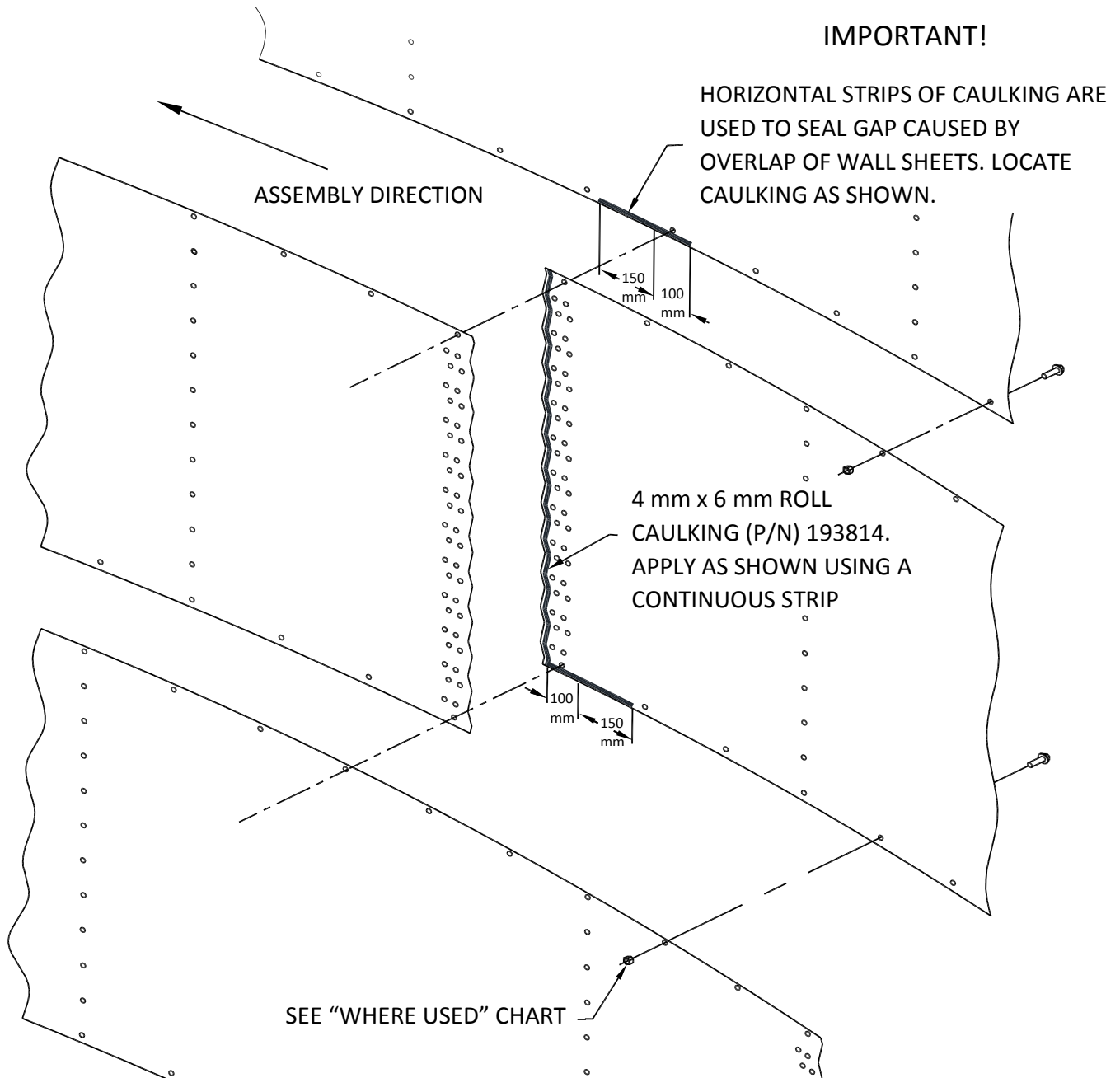
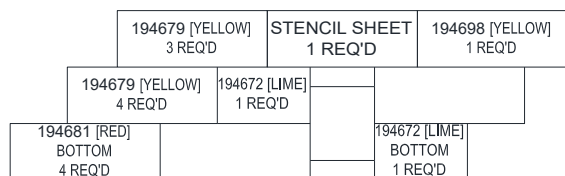


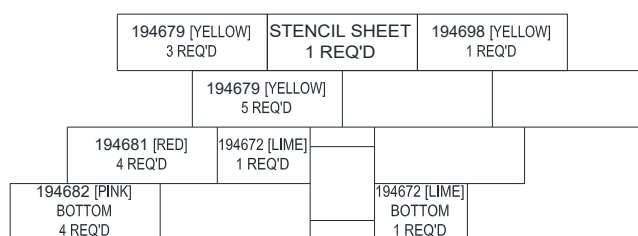
Figure 10. Wall Sheet Caulking Detail (inside view) — Metric

5.10. Wall Sheet Layouts - W Series

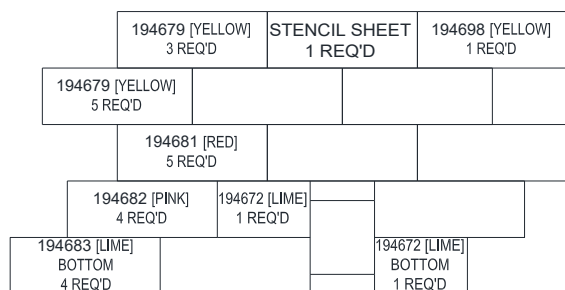
Table 6. Model 1503W to 1507W



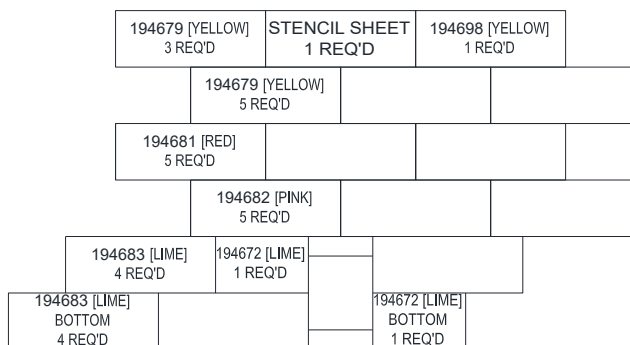
1503WFS



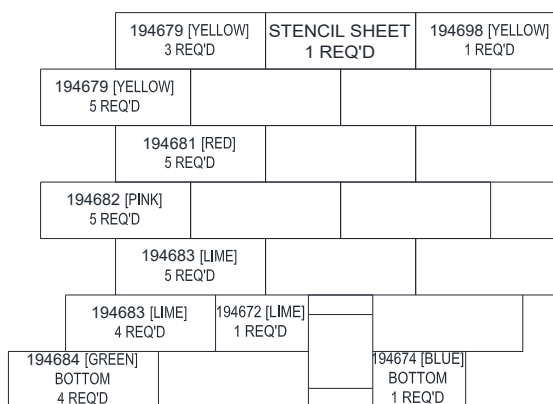
1504WFS



1505WFS



1506WFS



1507WFS

Notes:

- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used
- Door options:

236810 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
1503 – 1507	1503 – 1507

Check with AGI customer service for information on converting the door to door with auger chute or door with two door boards if necessary.

Table 7. Model 1803W to 1807W

194679 [YELLOW] 4 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194679 [YELLOW] 5 REQ'D	194672 [LIME] 1 REQ'D		
194681 [RED] BOTTOM 5 REQ'D		194672 [LIME] BOTTOM 1 REQ'D	

1803WFS

194679 [YELLOW] 4 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194679 [YELLOW] 6 REQ'D		
194681 [RED] 5 REQ'D	194672 [LIME] 1 REQ'D		
194682 [PINK] BOTTOM 5 REQ'D		194672 [LIME] BOTTOM 1 REQ'D	

1804WFS

194679 [YELLOW] 4 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194679 [YELLOW] 6 REQ'D			
	194681 [RED] 6 REQ'D		
194682 [PINK] 5 REQ'D	194672 [LIME] 1 REQ'D		
194683 [LIME] BOTTOM 5 REQ'D		194672 [LIME] BOTTOM 1 REQ'D	

1805WFS

194679 [YELLOW] 4 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194679 [YELLOW] 6 REQ'D		
194681 [RED] 6 REQ'D			
	194682 [PINK] 6 REQ'D		
194683 [LIME] 5 REQ'D	194672 [LIME] 1 REQ'D		
194684 [GREEN] BOTTOM 5 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D	

1806WFS

194679 [YELLOW] 4 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194679 [YELLOW] 6 REQ'D			
	194681 [RED] 6 REQ'D		
194682 [PINK] 6 REQ'D			
	194683 [LIME] 6 REQ'D		
194684 [GREEN] 5 REQ'D	194674 [BLUE] 1 REQ'D		
194684 [GREEN] BOTTOM 5 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D	

1807WFS**Notes:**

- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used
- Door options:

236810 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
1803 – 1807	1803 – 1807

Check with AGI customer service for information on converting the door to door with auger chute or door with two door boards if necessary.

Table 8. Model 2103W to 2108W

<table> <tr> <td colspan="2">194679 [YELLOW] 5 REQ'D</td><td>STENCIL SHEET 1 REQ'D</td><td>194698 [YELLOW] 1 REQ'D</td></tr> <tr> <td>194680 [ORANGE] 6 REQ'D</td><td>194672 [LIME] 1 REQ'D</td><td></td><td></td></tr> <tr> <td>194681 [RED] BOTTOM 6 REQ'D</td><td></td><td>194672 [LIME] BOTTOM 1 REQ'D</td><td></td></tr> </table> <p>2103WFS</p>				194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D	194680 [ORANGE] 6 REQ'D	194672 [LIME] 1 REQ'D			194681 [RED] BOTTOM 6 REQ'D		194672 [LIME] BOTTOM 1 REQ'D																	
194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D																												
194680 [ORANGE] 6 REQ'D	194672 [LIME] 1 REQ'D																														
194681 [RED] BOTTOM 6 REQ'D		194672 [LIME] BOTTOM 1 REQ'D																													
<table> <tr> <td colspan="2">194679 [YELLOW] 5 REQ'D</td><td>STENCIL SHEET 1 REQ'D</td><td>194698 [YELLOW] 1 REQ'D</td></tr> <tr> <td>194680 [ORANGE] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194681 [RED] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194682 [PINK] 6 REQ'D</td><td>194672 [LIME] 1 REQ'D</td><td></td><td></td></tr> <tr> <td>194683 [LIME] BOTTOM 6 REQ'D</td><td></td><td>194672 [LIME] BOTTOM 1 REQ'D</td><td></td></tr> </table> <p>2105WFS</p>				194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D	194680 [ORANGE] 7 REQ'D				194681 [RED] 7 REQ'D				194682 [PINK] 6 REQ'D	194672 [LIME] 1 REQ'D			194683 [LIME] BOTTOM 6 REQ'D		194672 [LIME] BOTTOM 1 REQ'D									
194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D																												
194680 [ORANGE] 7 REQ'D																															
194681 [RED] 7 REQ'D																															
194682 [PINK] 6 REQ'D	194672 [LIME] 1 REQ'D																														
194683 [LIME] BOTTOM 6 REQ'D		194672 [LIME] BOTTOM 1 REQ'D																													
<table> <tr> <td colspan="2">194679 [YELLOW] 5 REQ'D</td><td>STENCIL SHEET 1 REQ'D</td><td>194698 [YELLOW] 1 REQ'D</td></tr> <tr> <td>194680 [ORANGE] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194681 [RED] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194682 [PINK] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194683 [LIME] 6 REQ'D</td><td>194672 [LIME] 1 REQ'D</td><td></td><td></td></tr> <tr> <td>194684 [GREEN] BOTTOM 6 REQ'D</td><td></td><td>194674 [BLUE] BOTTOM 1 REQ'D</td><td></td></tr> </table> <p>2106WFS</p>				194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D	194680 [ORANGE] 7 REQ'D				194681 [RED] 7 REQ'D				194682 [PINK] 7 REQ'D				194683 [LIME] 6 REQ'D	194672 [LIME] 1 REQ'D			194684 [GREEN] BOTTOM 6 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D					
194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D																												
194680 [ORANGE] 7 REQ'D																															
194681 [RED] 7 REQ'D																															
194682 [PINK] 7 REQ'D																															
194683 [LIME] 6 REQ'D	194672 [LIME] 1 REQ'D																														
194684 [GREEN] BOTTOM 6 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D																													
<table> <tr> <td colspan="2">194679 [YELLOW] 5 REQ'D</td><td>STENCIL SHEET 1 REQ'D</td><td>194698 [YELLOW] 1 REQ'D</td></tr> <tr> <td>194680 [ORANGE] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194681 [RED] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194682 [PINK] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194683 [LIME] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194684 [GREEN] 6 REQ'D</td><td>194674 [BLUE] 1 REQ'D</td><td></td><td></td></tr> <tr> <td>194684 [GREEN] BOTTOM 6 REQ'D</td><td></td><td>194674 [BLUE] BOTTOM 1 REQ'D</td><td></td></tr> </table> <p>2107WFS</p>				194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D	194680 [ORANGE] 7 REQ'D				194681 [RED] 7 REQ'D				194682 [PINK] 7 REQ'D				194683 [LIME] 7 REQ'D				194684 [GREEN] 6 REQ'D	194674 [BLUE] 1 REQ'D			194684 [GREEN] BOTTOM 6 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D	
194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D																												
194680 [ORANGE] 7 REQ'D																															
194681 [RED] 7 REQ'D																															
194682 [PINK] 7 REQ'D																															
194683 [LIME] 7 REQ'D																															
194684 [GREEN] 6 REQ'D	194674 [BLUE] 1 REQ'D																														
194684 [GREEN] BOTTOM 6 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D																													
<table> <tr> <td colspan="2">194679 [YELLOW] 5 REQ'D</td><td>STENCIL SHEET 1 REQ'D</td><td>194698 [YELLOW] 1 REQ'D</td></tr> <tr> <td>194680 [ORANGE] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194681 [RED] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194682 [PINK] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194683 [LIME] 7 REQ'D</td><td></td><td></td><td></td></tr> <tr> <td>194684 [GREEN] 6 REQ'D</td><td>194674 [BLUE] 1 REQ'D</td><td></td><td></td></tr> <tr> <td>194685 [BLUE] BOTTOM 6 REQ'D</td><td></td><td>194674 [BLUE] BOTTOM 1 REQ'D</td><td></td></tr> </table> <p>2108WFS</p>				194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D	194680 [ORANGE] 7 REQ'D				194681 [RED] 7 REQ'D				194682 [PINK] 7 REQ'D				194683 [LIME] 7 REQ'D				194684 [GREEN] 6 REQ'D	194674 [BLUE] 1 REQ'D			194685 [BLUE] BOTTOM 6 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D	
194679 [YELLOW] 5 REQ'D		STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D																												
194680 [ORANGE] 7 REQ'D																															
194681 [RED] 7 REQ'D																															
194682 [PINK] 7 REQ'D																															
194683 [LIME] 7 REQ'D																															
194684 [GREEN] 6 REQ'D	194674 [BLUE] 1 REQ'D																														
194685 [BLUE] BOTTOM 6 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D																													

Notes:

- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used
- Door options:

236810 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
2103 – 2108	2103 – 2108

Check with AGI customer service for information on converting the door to door with auger chute or door with two door boards if necessary.

Table 9. Model 2403W to 2408W

<div>194679 [YELLOW] 6 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div>				<div>194679 [YELLOW] 6 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div>					
<div>194680 [ORANGE] 7 REQ'D</div>		<div>194672 [LIME] 1 REQ'D</div>		<div>194680 [ORANGE] 8 REQ'D</div>		<div>194681 [RED] 7 REQ'D</div>		<div>194672 [LIME] 1 REQ'D</div>	
<div>194681 [RED] BOTTOM 7 REQ'D</div>						<div>194682 [PINK] BOTTOM 7 REQ'D</div>		<div>194672 [LIME] BOTTOM 1 REQ'D</div>	
2403WFS				2404WFS					
<div>194679 [YELLOW] 6 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div>				<div>194679 [YELLOW] 6 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div>					
<div>194680 [ORANGE] 8 REQ'D</div>				<div>194680 [ORANGE] 8 REQ'D</div>		<div>194681 [RED] 8 REQ'D</div>		<div>194682 [PINK] 8 REQ'D</div>	
<div>194681 [RED] 8 REQ'D</div>				<div>194681 [RED] 8 REQ'D</div>		<div>194682 [PINK] 8 REQ'D</div>		<div>194683 [LIME] 7 REQ'D</div>	
<div>194682 [PINK] 7 REQ'D</div>		<div>194672 [LIME] 1 REQ'D</div>		<div>194682 [PINK] 8 REQ'D</div>		<div>194672 [LIME] 1 REQ'D</div>		<div>194674 [BLUE] BOTTOM 1 REQ'D</div>	
<div>194683 [LIME] BOTTOM 7 REQ'D</div>				<div>194683 [LIME] 7 REQ'D</div>		<div>194672 [LIME] 1 REQ'D</div>		<div>194674 [BLUE] BOTTOM 1 REQ'D</div>	
2405WFS				2406WFS					
<div>194679 [YELLOW] 6 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div>				<div>194679 [YELLOW] 6 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div>					
<div>194680 [ORANGE] 8 REQ'D</div>				<div>194680 [ORANGE] 8 REQ'D</div>		<div>194681 [RED] 8 REQ'D</div>		<div>194682 [PINK] 8 REQ'D</div>	
<div>194681 [RED] 8 REQ'D</div>				<div>194681 [RED] 8 REQ'D</div>		<div>194682 [PINK] 8 REQ'D</div>		<div>194683 [LIME] 8 REQ'D</div>	
<div>194682 [PINK] 8 REQ'D</div>				<div>194682 [PINK] 8 REQ'D</div>		<div>194683 [LIME] 8 REQ'D</div>		<div>194684 [GREEN] 8 REQ'D</div>	
<div>194683 [LIME] 8 REQ'D</div>				<div>194683 [LIME] 8 REQ'D</div>		<div>194684 [GREEN] 8 REQ'D</div>		<div>194685 [BLUE] 7 REQ'D</div>	
<div>194684 [GREEN] 7 REQ'D</div>		<div>194674 [BLUE] 1 REQ'D</div>		<div>194684 [GREEN] 8 REQ'D</div>		<div>194674 [BLUE] 1 REQ'D</div>		<div>194674 [BLUE] BOTTOM 1 REQ'D</div>	
<div>194685 [BLUE] BOTTOM 7 REQ'D</div>				<div>194685 [BLUE] 7 REQ'D</div>		<div>194674 [BLUE] 1 REQ'D</div>		<div>194674 [BLUE] BOTTOM 1 REQ'D</div>	
2407WFS				2408WFS					

Notes:

- Colors match part number labels and indicate wall sheet thickness
- Stencil sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

236810 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
2403 – 2408	2403 – 2407

Check with AGI customer service for information on converting the door to door with auger chute or door with two door boards if necessary.

Table 10. Model 2704W to 2709W

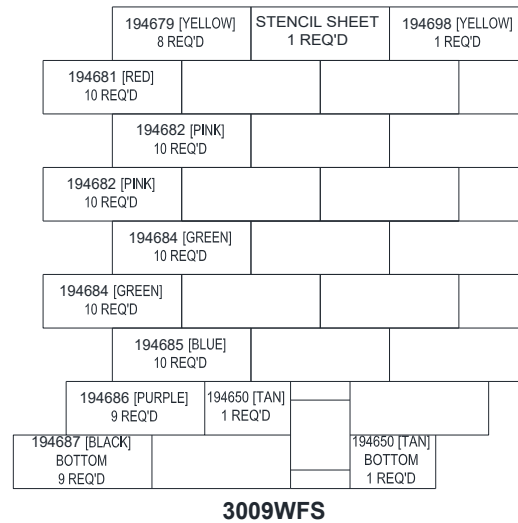
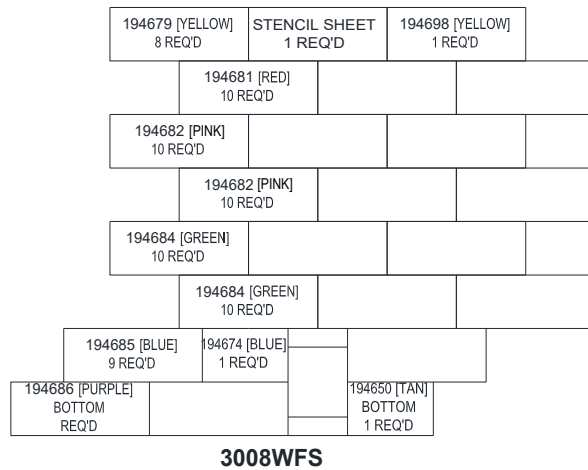
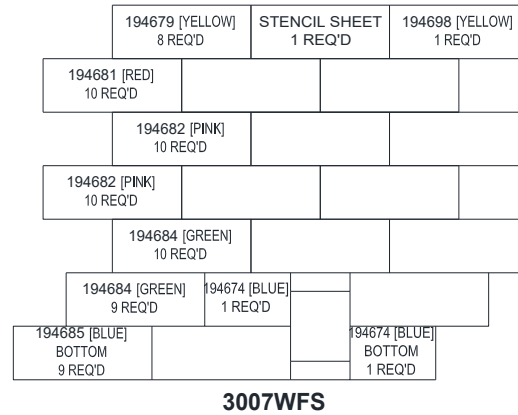
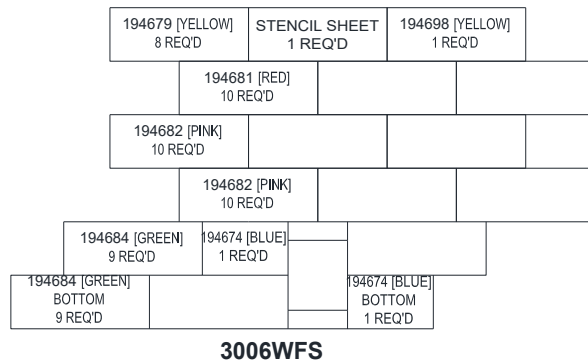
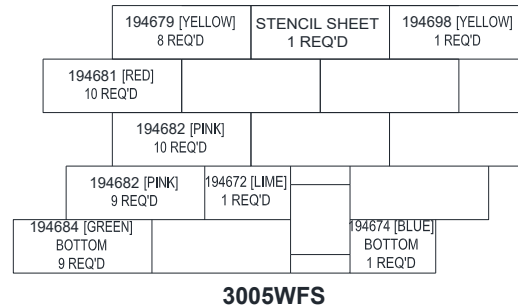
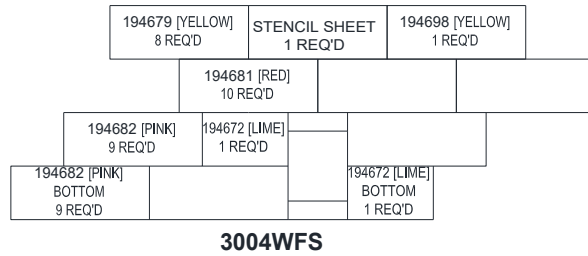
<div>194679 [YELLOW] 7 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div> <div>194680 [ORANGE] 9 REQ'D</div> <div>194681 [RED] 8 REQ'D</div> <div>194672 [LIME] 1 REQ'D</div> <div>194682 [PINK] BOTTOM 8 REQ'D</div> <div>194672 [LIME] BOTTOM 1 REQ'D</div>	<div>194679 [YELLOW] 7 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div> <div>194680 [ORANGE] 9 REQ'D</div> <div>194681 [RED] 9 REQ'D</div> <div>194682 [PINK] 8 REQ'D</div> <div>194672 [LIME] 1 REQ'D</div> <div>194683 [LIME] BOTTOM 8 REQ'D</div> <div>194672 [LIME] BOTTOM 1 REQ'D</div>
2704WFS	2705WFS
<div>194679 [YELLOW] 7 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div> <div>194680 [ORANGE] 9 REQ'D</div> <div>194681 [RED] 9 REQ'D</div> <div>194682 [PINK] 9 REQ'D</div> <div>194683 [LIME] 8 REQ'D</div> <div>194672 [LIME] 1 REQ'D</div> <div>194684 [GREEN] BOTTOM 8 REQ'D</div> <div>194674 [BLUE] BOTTOM 1 REQ'D</div>	<div>194679 [YELLOW] 7 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div> <div>194680 [ORANGE] 9 REQ'D</div> <div>194681 [RED] 9 REQ'D</div> <div>194682 [PINK] 9 REQ'D</div> <div>194683 [LIME] 9 REQ'D</div> <div>194684 [GREEN] 8 REQ'D</div> <div>194674 [BLUE] 1 REQ'D</div> <div>194685 [BLUE] BOTTOM 8 REQ'D</div> <div>194674 [BLUE] BOTTOM 1 REQ'D</div>
2706WFS	2707WFS
<div>194679 [YELLOW] 7 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div> <div>194680 [ORANGE] 9 REQ'D</div> <div>194681 [RED] 9 REQ'D</div> <div>194682 [PINK] 9 REQ'D</div> <div>194683 [LIME] 9 REQ'D</div> <div>194684 [GREEN] 9 REQ'D</div> <div>194685 [BLUE] 8 REQ'D</div> <div>194674 [BLUE] 1 REQ'D</div> <div>194686 [BLUE] BOTTOM 8 REQ'D</div> <div>194674 [BLUE] BOTTOM 1 REQ'D</div>	<div>194679 [YELLOW] 7 REQ'D</div> <div>STENCIL SHEET 1 REQ'D</div> <div>194698 [YELLOW] 1 REQ'D</div> <div>194680 [ORANGE] 9 REQ'D</div> <div>194681 [RED] 9 REQ'D</div> <div>194682 [PINK] 9 REQ'D</div> <div>194683 [LIME] 9 REQ'D</div> <div>194684 [GREEN] 9 REQ'D</div> <div>194685 [BLUE] 9 REQ'D</div> <div>194686 [BLUE] 8 REQ'D</div> <div>194674 [BLUE] 1 REQ'D</div> <div>194686 [PURPLE] BOTTOM 8 REQ'D</div> <div>194650 [TAN] BOTTOM 1 REQ'D</div>
2708WFS	2709WFS

Notes:

- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

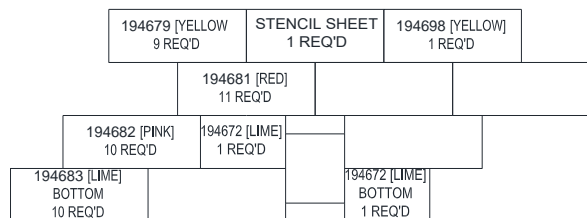
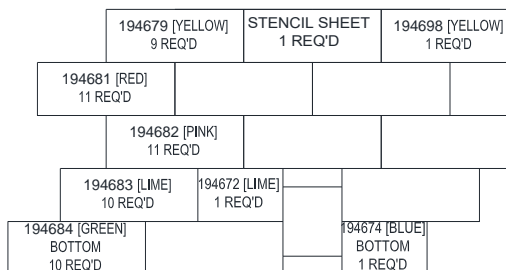
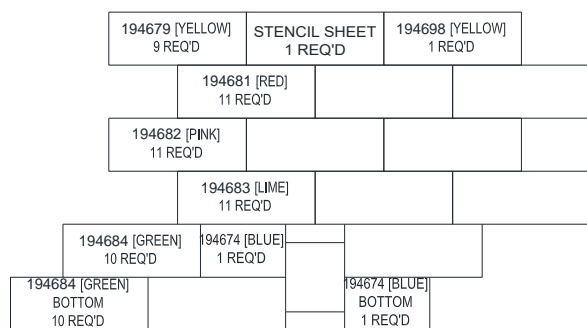
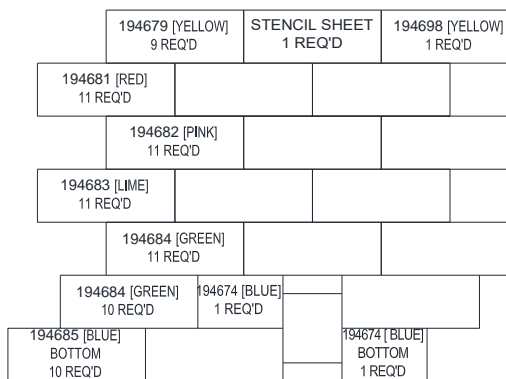
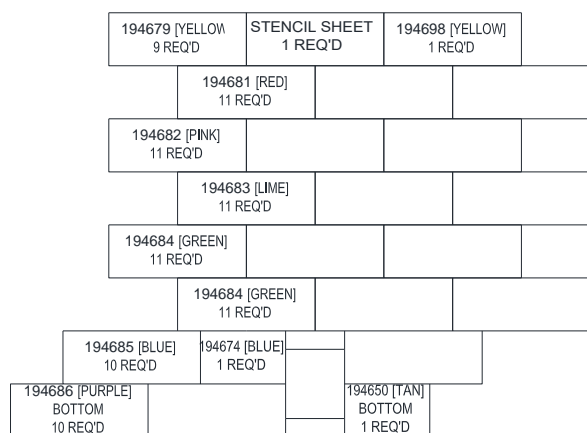
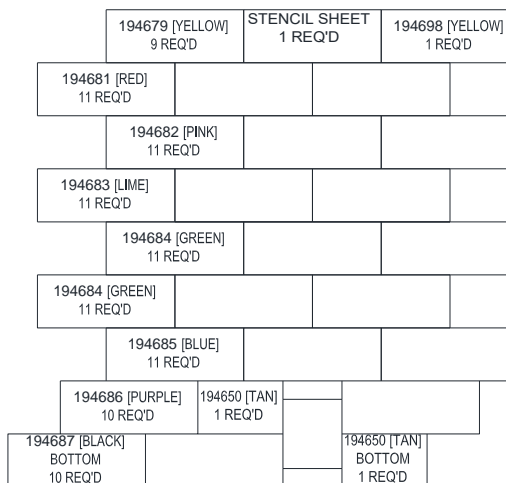
236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
2703 – 2708	2709	2703 – 2705

Check with AGI customer service for information on converting the door to door with auger chute or door with two door boards if necessary.

Table 11. Model 3004W to 3009W**Notes:**

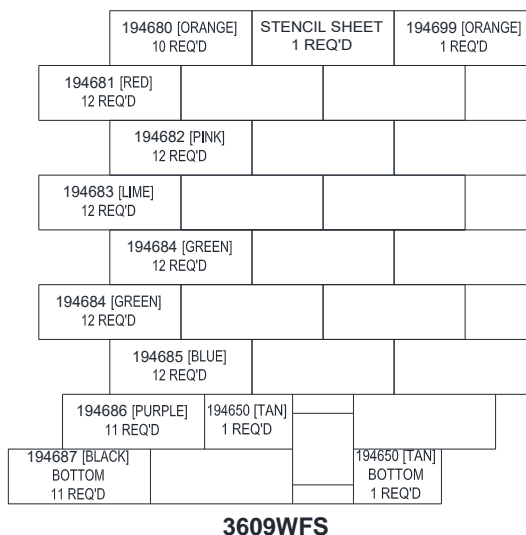
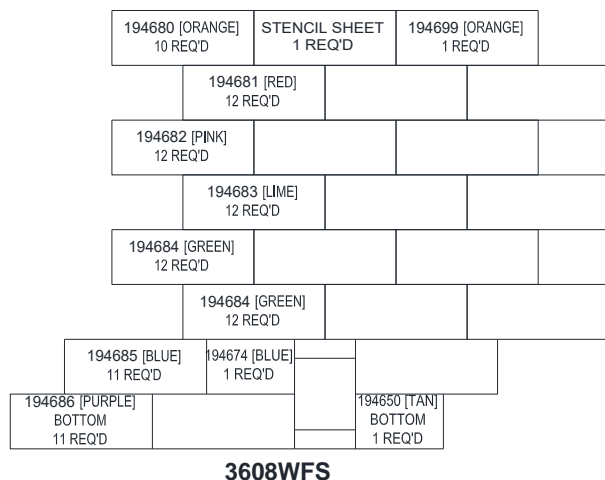
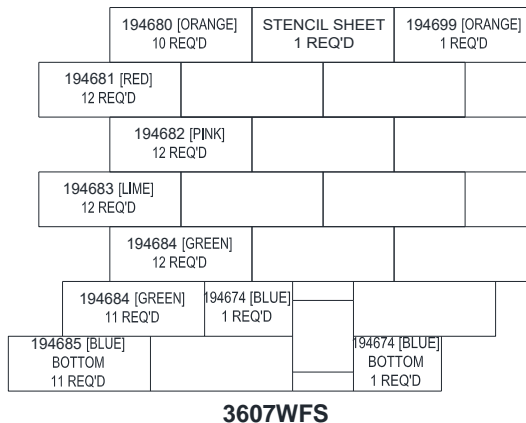
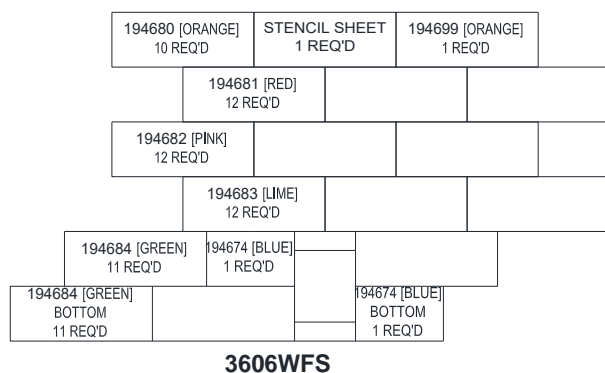
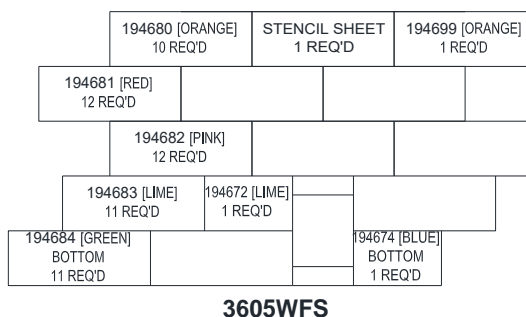
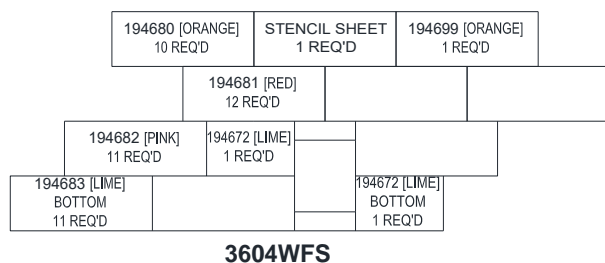
- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
3004 – 3007	3008 – 3009	Not Available

Table 12. Model 3304W to 3309W**3304WFS****3305WFS****3306WFS****3307WFS****3308WFS****3309WFS****Notes:**

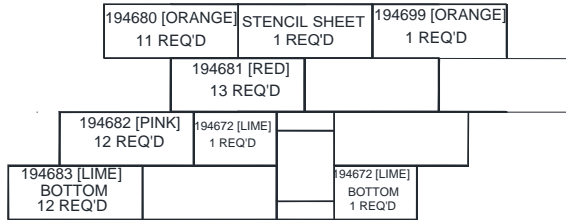
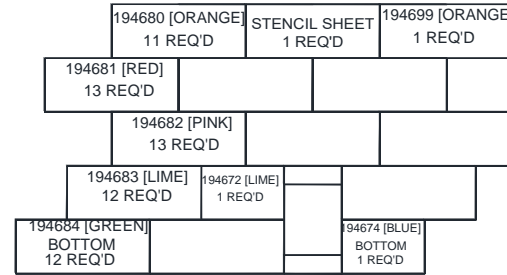
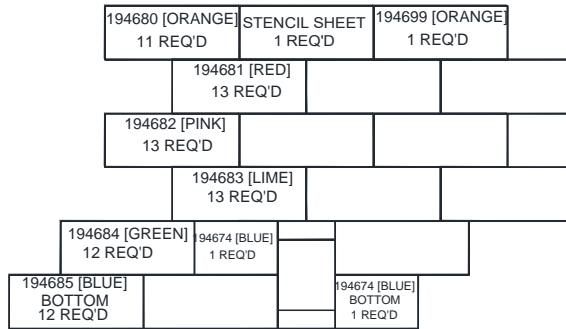
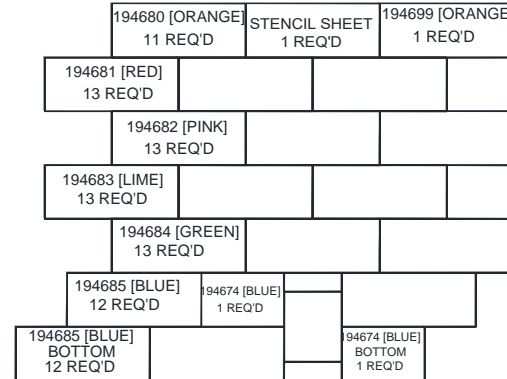
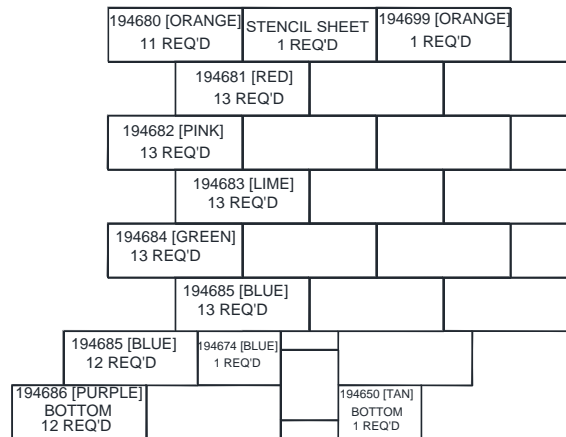
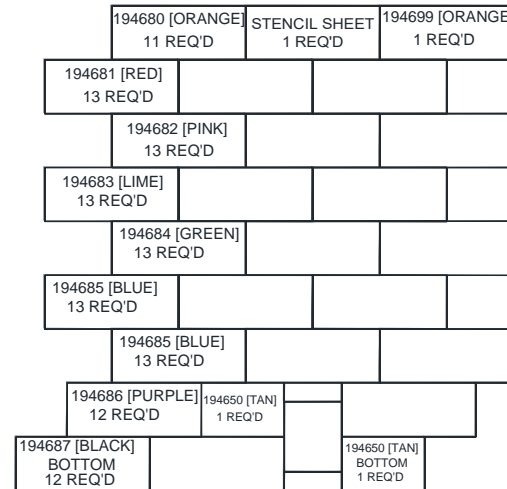
- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
3304 – 3307	3308 – 3309	Not Available

Table 13. Model 3604W to 3609W**Notes:**

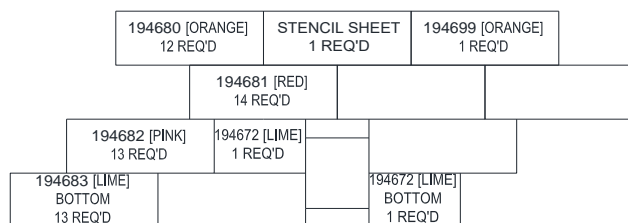
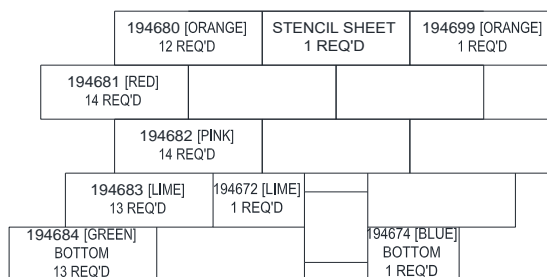
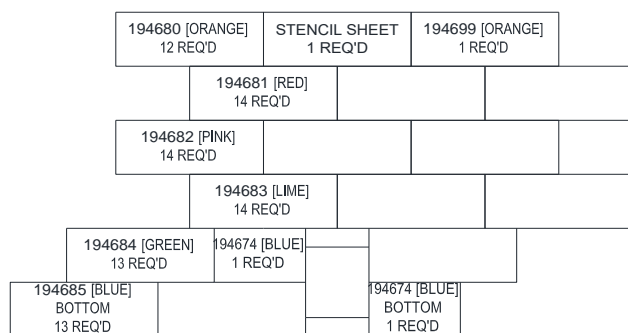
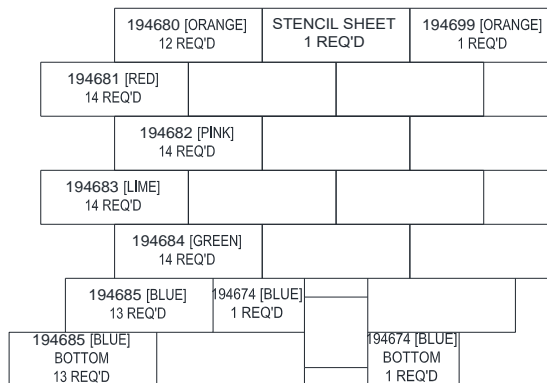
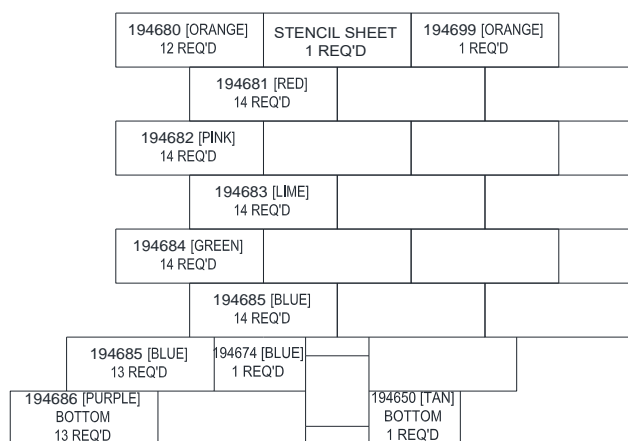
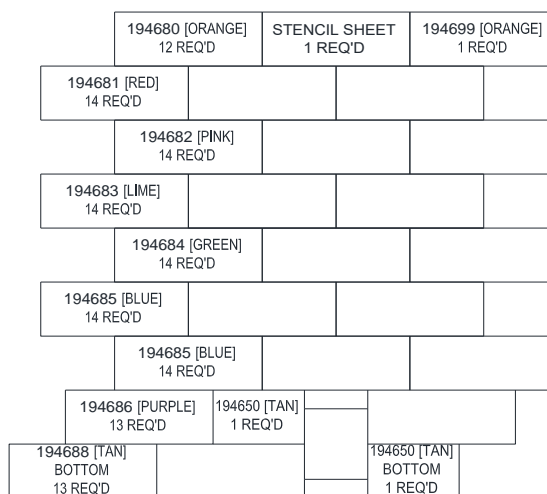
- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194896 [ORANGE] or WESTEEL: 194652 [ORANGE]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
3604 – 3607	3608 – 3609	Not Available

Table 14. Model 3904W to 3909W**3904WFS****3905WFS****3906WFS****3907WFS****3908WFS****3909WFS****Notes:**

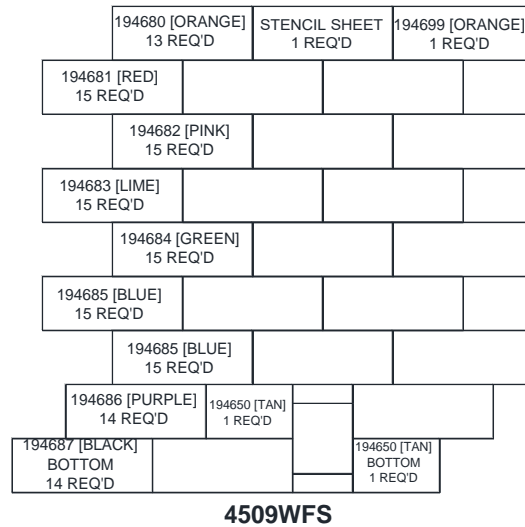
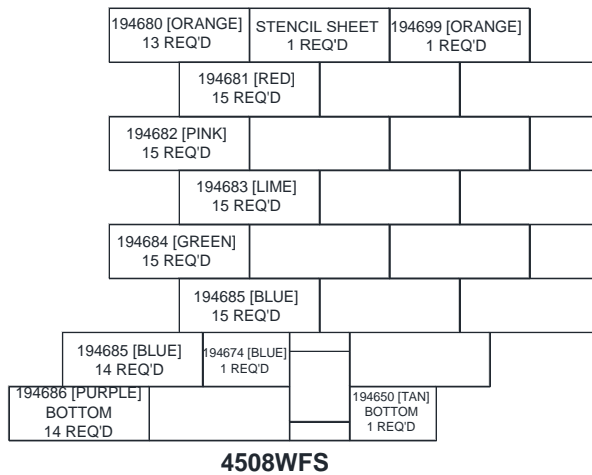
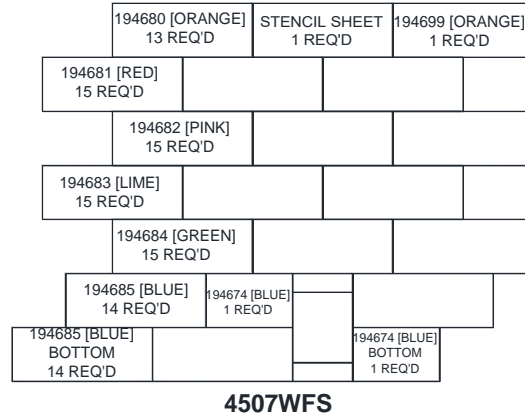
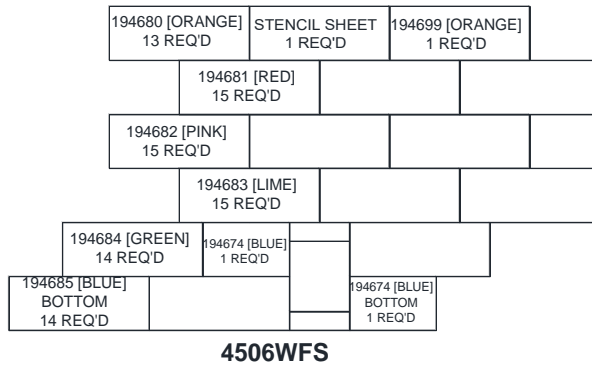
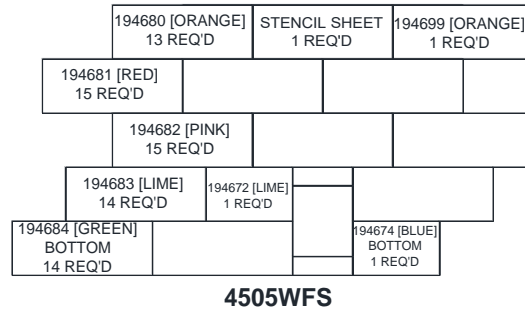
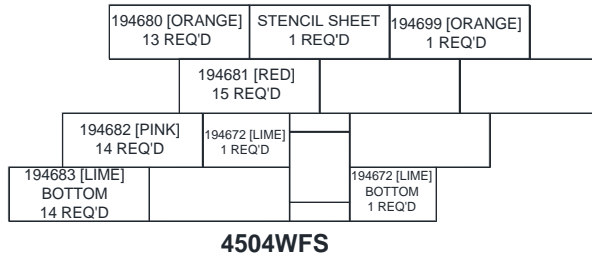
- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194896 [ORANGE] or WESTEEL: 194652 [ORANGE]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
3905 – 3907	3908 – 3909	Not Available

Table 15. Model 4204W to 4209W**4204WFS****4205WFS****4206WFS****4207WFS****4208WFS****4209WFS****Notes:**

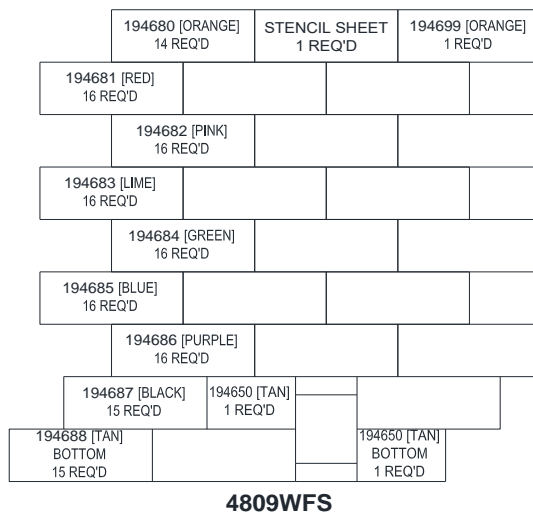
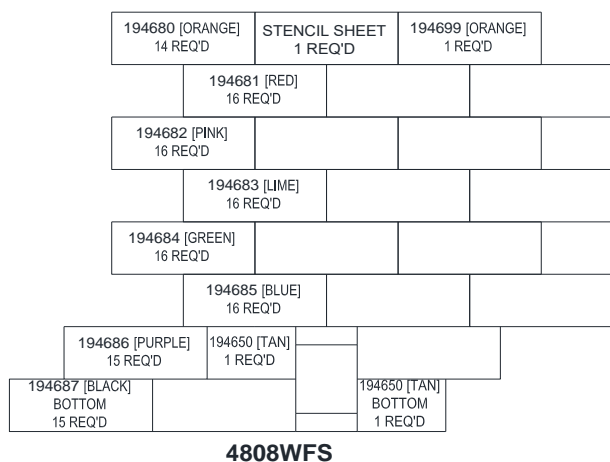
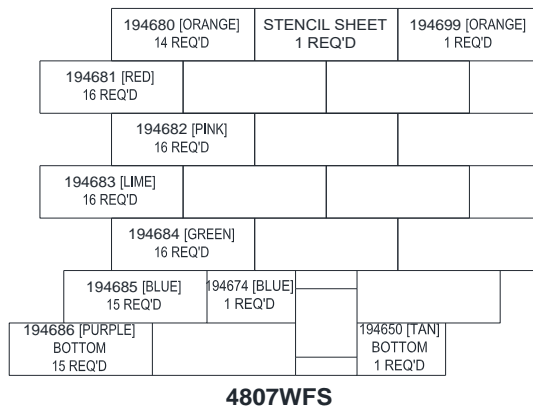
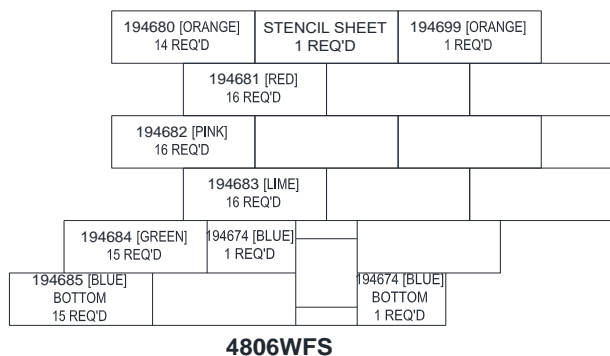
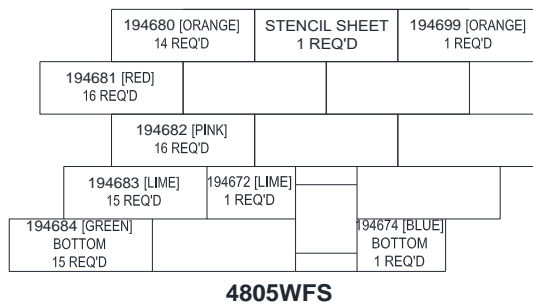
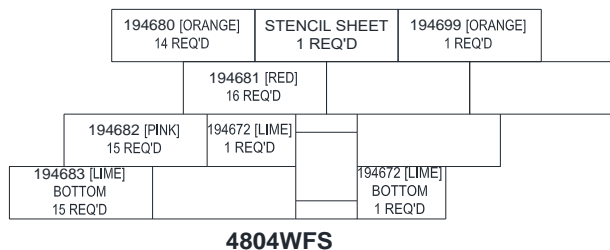
- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194896 [ORANGE] or WESTEEL: 194652 [ORANGE]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
4204 – 4207	4208 – 4209	Not Available

Table 16. Model 4504W to 4509W**Notes:**

- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194896 [ORANGE] or WESTEEL: 194652 [ORANGE]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
4504 – 4507	4508 – 4509	Not Available

Table 17. Model 4804W to 4809W**Notes:**

- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194896 [ORANGE] or WESTEEL: 194652 [ORANGE]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
4804 – 4806	4807 – 4809	Not Available

Table 18. Model 5104W to 5109W

194681 [RED] 15 REQ'D	STENCIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
194681 [RED] 17 REQ'D		
194682 [PINK] 16 REQ'D	194672 [LIME] 1 REQ'D	
194684 [GREEN] BOTTOM 16 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D

5104WFS

194681 [RED] 15 REQ'D	STENCIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
194681 [RED] 17 REQ'D		
194682 [PINK] 17 REQ'D		
194684 [GREEN] 16 REQ'D	194674 [BLUE] 1 REQ'D	
194684 [GREEN] BOTTOM 16 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D

5105WFS

194681 [RED] 15 REQ'D	STENCIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
194681 [RED] 17 REQ'D		
194682 [PINK] 17 REQ'D		
194684 [GREEN] 17 REQ'D		
194684 [GREEN] 16 REQ'D	194674 [BLUE] 1 REQ'D	
194685 [BLUE] BOTTOM 16 REQ'D		194674 [BLUE] BOTTOM 1 REQ'D

5106WFS

194681 [RED] 15 REQ'D	STENCIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
194681 [RED] 17 REQ'D		
194682 [PINK] 17 REQ'D		
194684 [GREEN] 17 REQ'D		
194684 [GREEN] 17 REQ'D		
194685 [BLUE] 16 REQ'D	194674 [BLUE] 1 REQ'D	
194686 [PURPLE] BOTTOM 16 REQ'D		194650 [TAN] BOTTOM 1 REQ'D

5107WFS

194681 [RED] 15 REQ'D	STENCIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
194681 [RED] 17 REQ'D		
194682 [PINK] 17 REQ'D		
194684 [GREEN] 17 REQ'D		
194684 [GREEN] 17 REQ'D		
194685 [BLUE] 17 REQ'D		
194686 [PURPLE] 16 REQ'D	194650 [TAN] 1 REQ'D	
194687 [BLACK] BOTTOM 16 REQ'D		194650 [TAN] BOTTOM 1 REQ'D

5108WFS

194681 [RED] 15 REQ'D	STENCIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
194681 [RED] 17 REQ'D		
194682 [PINK] 17 REQ'D		
194684 [GREEN] 17 REQ'D		
194684 [GREEN] 17 REQ'D		
194685 [BLUE] 17 REQ'D		
194686 [PURPLE] 17 REQ'D		
194687 [BLACK] 16 REQ'D	194650 [TAN] 1 REQ'D	
194688 [TAN] BOTTOM 16 REQ'D		194650 [TAN] BOTTOM 1 REQ'D

5109WFS**Notes:**

- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194925 [LIME] or WESTEEL: 194653 [LIME]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
5104 – 5106	5107 – 5109	Not Available

Table 19. Model 5405W to 5409W

	194681 [RED] 16 REQ'D	STECIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
194682 [PINK] 18 REQ'D			
	194683 [LIME] 18 REQ'D		
	194684 [GREEN] 17 REQ'D	194674 [BLUE] 1 REQ'D	
194684 [GREEN] BOTTOM 17 REQ'D			194674 [BLUE] BOTTOM 1 REQ'D

5405WFS

	194681 [RED] 16 REQ'D	STECIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
	194682 [PINK] 18 REQ'D		
	194683 [LIME] 18 REQ'D		
	194684 [GREEN] 18 REQ'D		
	194684 [GREEN] 17 REQ'D	194674 [BLUE] 1 REQ'D	
194685 [BLUE] BOTTOM 17 REQ'D			194674 [BLUE] BOTTOM 1 REQ'D

5406WFS

	194681 [RED] 16 REQ'D	STECIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
194682 [PINK] 18 REQ'D			
	194683 [LIME] 18 REQ'D		
194684 [GREEN] 18 REQ'D			
	194684 [GREEN] 18 REQ'D		
	194685 [BLUE] 17 REQ'D	194674 [BLUE] 1 REQ'D	
194686 [PURPLE] BOTTOM 17 REQ'D			194650 [TAN] BOTTOM 1 REQ'D

5407WFS

	194681 [RED] 16 REQ'D	STECIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
	194682 [PINK] 18 REQ'D		
	194683 [LIME] 18 REQ'D		
	194684 [GREEN] 18 REQ'D		
	194684 [GREEN] 18 REQ'D		
	194685 [BLUE] 18 REQ'D		
	194686 [PURPLE] 17 REQ'D	194650 [TAN] 1 REQ'D	
194687 [BLACK] BOTTOM 17 REQ'D			194650 [TAN] BOTTOM 1 REQ'D

5408WFS

	194681 [RED] 16 REQ'D	STECIL SHEET 1 REQ'D	194718 [LIME] 1 REQ'D
194682 [PINK] 18 REQ'D			
	194683 [LIME] 18 REQ'D		
194684 [GREEN] 18 REQ'D			
	194684 [GREEN] 18 REQ'D		
194685 [BLUE] 18 REQ'D			
	194686 [PURPLE] 18 REQ'D		
	194687 [BLACK] 17 REQ'D	194650 [TAN] 1 REQ'D	
194688 [TAN] BOTTOM 17 REQ'D			194650 [TAN] BOTTOM 1 REQ'D

5409WFS**Notes:**

- Colors match part number label and indicate wall sheet thickness
- Stencil sheet is AGI: 194925 [LIME] or WESTEEL: 194653 [LIME]
- Use 3/8" x 1" bolts in the horizontal and vertical seams, except around the door, where 3/8" x 1 1/4" are used.
- Door options:

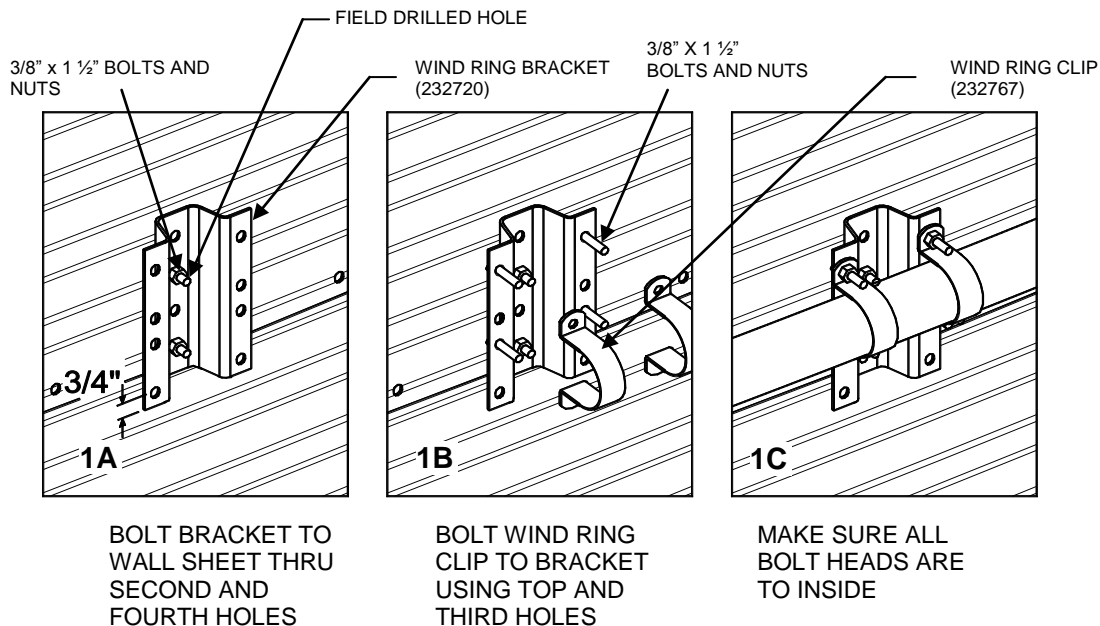
236810 (Supplied with 2 door boards)	236820 (Supplied with 2 door boards)	236830 (for use with auger chute) + 236840 Auger Chute
5405 – 5406	5407 – 5409	Not Available

5.11. Wind Ring Assembly

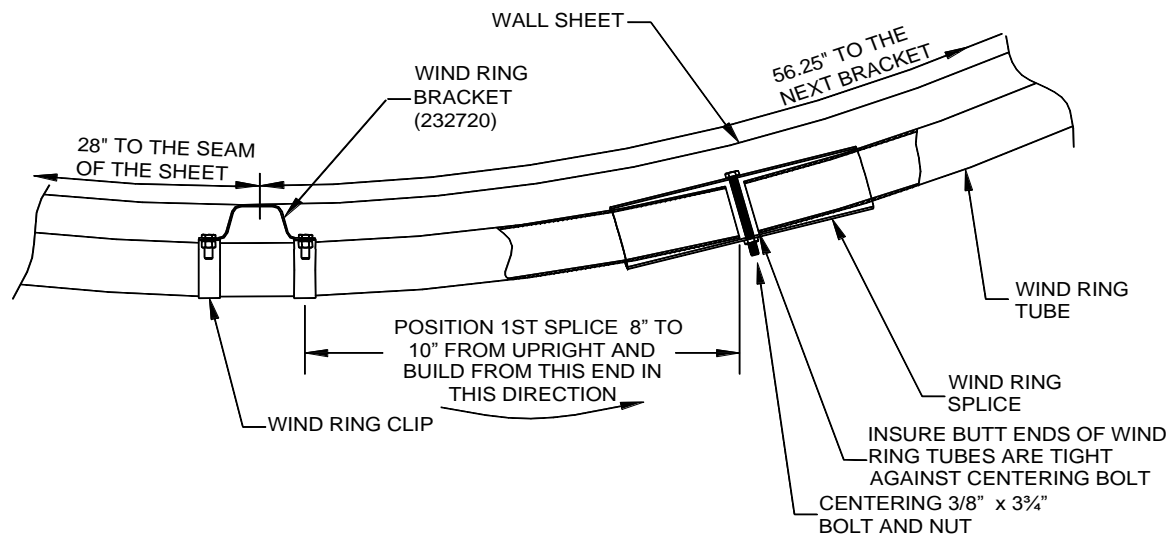
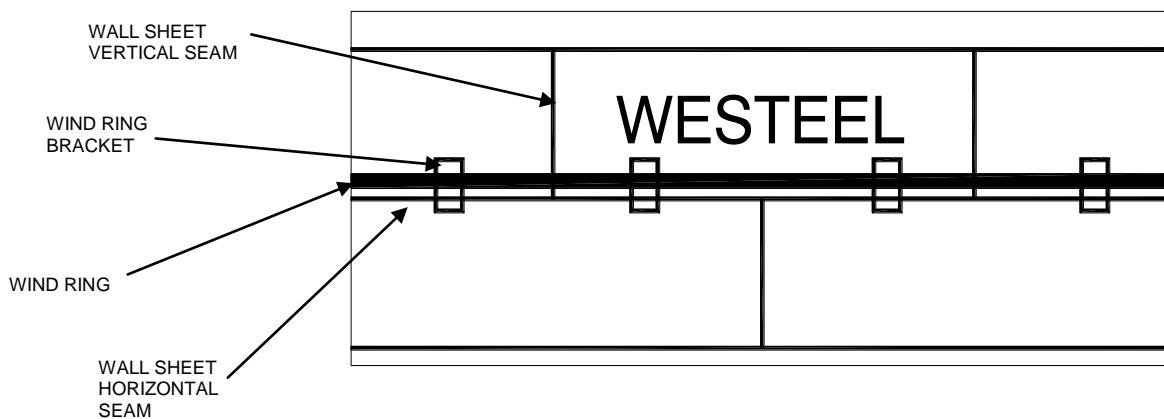
One or more optional wind rings may be installed to increase the wind resistance of the bin when empty, for high wind areas. Typically, one wind ring is installed at the bottom of the top tier of wall sheets. Two wind ring brackets (232720) per sheet are attached to the outside of the wall sheet using two 3/8" x 1 1/2" bolts (193797).

1. Position the first bracket approximately 28" in from a vertical wall sheet seam at the fourth bolt hole in the horizontal seam.
2. Orientate the bracket with the 0.75" mounting hole down, as shown in Detail 1A in [Figure 11 on page 51](#).
3. Line up the 2nd and 4th holes from the top onto the bolt hole at the horizontal seam and the crest of the corrugation 4" above.
4. Use the bracket as a template to drill the upper hole (13/32" or 7/16" dia) through the wall sheet and attach.
5. Position the second bracket on the wall sheet 56.25" (6 bolt spacings) removed from the 1st bracket, as shown in [Figure 12 on page 52](#), field drilling and attaching it in the same manner.
6. Repeat on other wall sheets around the bin.

Figure 11. Mounting the brackets and ring



Adjacent tubes are aligned and secured to each other with wind ring splices (232769). A 3/8" x 3/4" bolt (235949) through the splice keeps it centered on the connection.

Figure 12. Bracket and splice positioning**Figure 13. Wind Ring Placement****Externally Stiffened Bins**

1. Once the wind ring brackets have been secured to the bin walls, position the first wind ring tube and secure it to the bracket using the wind ring clips provided.

The clips use the 1st and 3rd holes on the bracket flanges as shown in Detail 1B in [Figure 11 on page 51](#). Two clips are required per bracket, one on each flange.

2. Position the wind ring such that a wind ring splice (with bolt inserted) can be slipped onto the end of the tube without interfering with the upright or the wind ring clips.

The splice should be orientated such that the bolt is horizontal.

3. Insert the end of the next wind ring tube into the open end of the wind ring splice.
4. Ensure that the ends of both tubes are tight against the centering bolt.
5. Secure the wind ring tube to the brackets with the wind ring clips.
6. Continue around the bin.

Tip

When placing the first wind ring tube in place, place one end close to an upright with a 8" to 10" overhang, and continue building from that end. This will reduce the need for multiple cuts.

7. Make all wind ring splice connections in the space between brackets. Do not encroach into the area where the wind ring clips are securing the wind ring tube to the brackets.
8. To avoid interference with brackets and the need to make multiple cuts, position an end of the first tube relatively close to a bracket, such that the space between the end of the tube and the next bracket is maximized, and build from that end.
9. Ensure that both ends of the tube are far enough away from the closest brackets to avoid interference with the splice.

When progressing around the bin, this space between the end of the tube and the next brackets may shrink with each additional tube that is installed. On large diameter bins, if this space shrinks to the point where the wind ring splice interferes with the bracket, then the tube will need to be cut. Make the cut such that the space that is created between the end of the tube and the next bracket is similar to the identical space on the first tube that was installed. In this manner, there will not be a shortage of tube.

Tip

When tightening wind ring clips, always tighten in sequence starting at the spliced end of the tube, which has already been secured, and work towards the free, and as yet unspliced, end.

10. The final wind ring tube in a circle will need to be cut to length. Secure one end of the last tube in the previously installed wind ring splice as described above.
11. Hold the tube in place and mark the cut-line relative to the previously installed tube at the other end.
12. Ensure that allowance is made for the 3/8" diameter bolt.
13. Once the tube has been cut, install one end of the tube as described above.
14. On the other end slide the wind ring splice completely onto the free end.
15. Position this end relative to the previously installed tube, and slide the splice onto the second tube until it is centered.
16. Insert the centering bolt.
17. Install all wind ring clips.
18. Tighten all bolts.

5.12. Door Installation

Install the door from the inside of the bin using $\frac{3}{8}$ " x $\frac{1}{2}$ " bolts. The door should overlap the top spacer sheet as shown below. Place caulking on the top spacer sheet above and below the row of holes where it will meet with the door frame. The bottom spacer sheet overlaps the door from the inside as shown. Place caulking above and below the row of holes where it will meet the door frame. Both spacer sheets must be installed below the door if auger chute and full floor aeration are used. Locate door tie-back to secure door in open position.

Any of the chain links can be used to bolt through to the bin at an existing or field drilled wall sheet or stiffening hole. Chain links can be cut if shorter door tie back is needed. The door tie back uses a hook to attach to the door handle's lockable ring.

Figure 14. Door Installation Detail

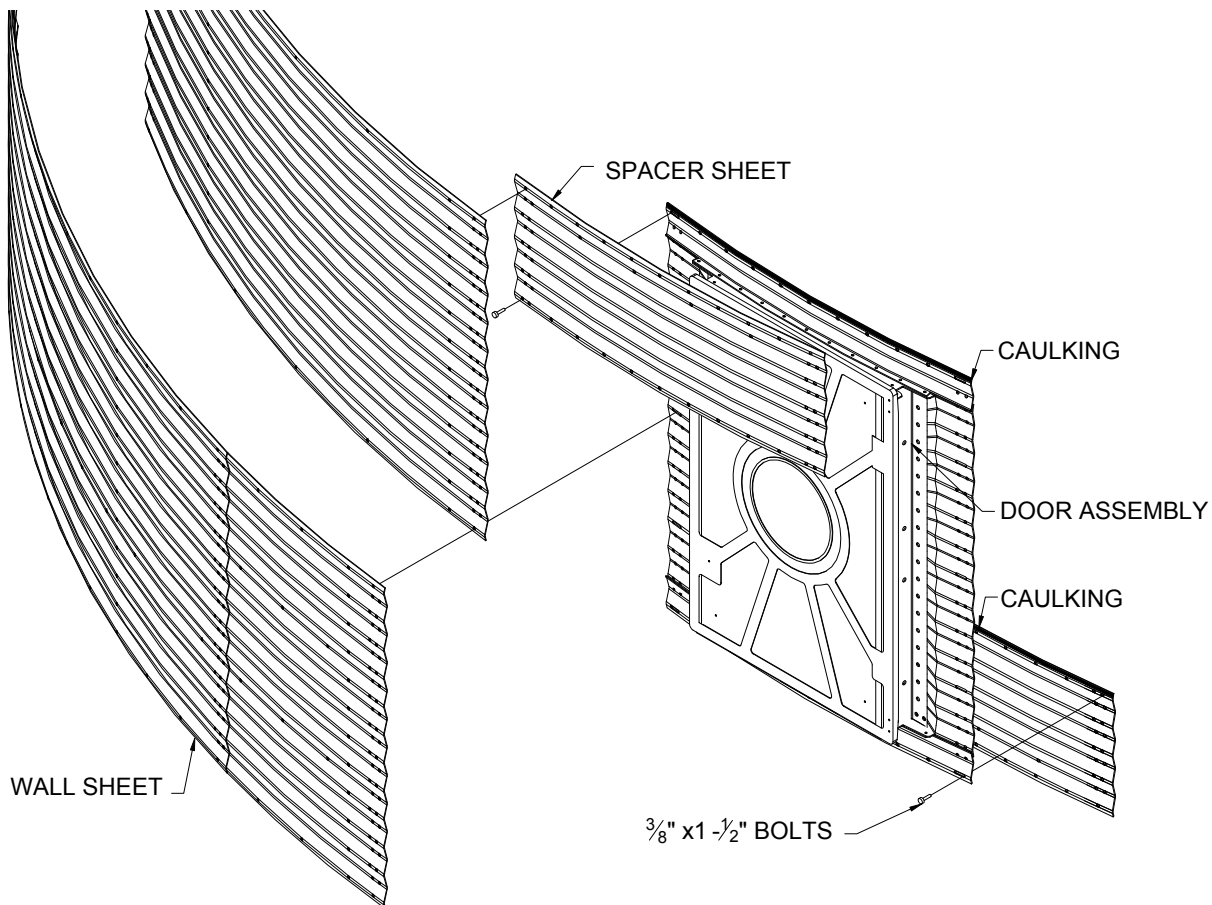


Table 20. Door Types

Standard c/w Two Door Boards — 236810						Standard c/w Auger Chute – 236830 + 236840*						Heavy 236820		
1503	1504	1505	1506	1507		1503	1504	1505	1506	1507				
1803	1804	1805	1806	1807		1803	1804	1805	1806	1807				
2103	2104	2105	2106	2107	2108	2103	2104	2105	2106	2107	2108			
2403	2404	2405	2406	2407	2408	2403	2404	2405	2406	2407				
2703	2704	2705	2706	2707	2708	2703	2704	2705					2709	
	3004	3005	3006	3007									3008	3009
	3304	3305	3306	3307									3308	3309
	3604	3605	3606	3607									3608	3609
	4204	3905	3906	3907									3908	3909
	3904	4205	4206										4208	4209
	4804	4805	4806										4508	4509
	5104	5105	5106									4807	4808	4809
	5404	5405	5406									5107	5108	5109
												5407	5408	5409

*For the standard door with Auger Chute both 236830 and 236840 need to be ordered

- Entries that are bordered must use 236869 Support Kit if using Auger Chute. For all others it is optional. -

5.13. Door Cover Sidewall Latch Installation

Install the door cover sidewall latch (236783) on the swing side of the door cover.

- When possible, re-use the bin bolt on the horizontal wall sheet seam that lines up with the door cover.
- If existing bin bolt cannot be used, drill a 7/16" hole on top of a wall sheet corrugation approximately halfway up the door cover and install latch with a 3/8" bin bolt and nut. Use the door cover swing to help position the field drill hole.

Important

The door cover should snap shut and sit within the channel on the latch once installation is complete.

Figure 15. Door Sidewall Latch (236783)

(Supplied with the door frame and not included in the parts box.)

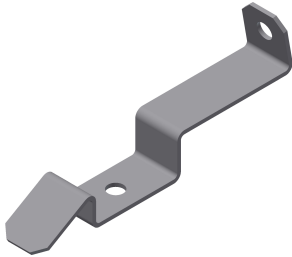
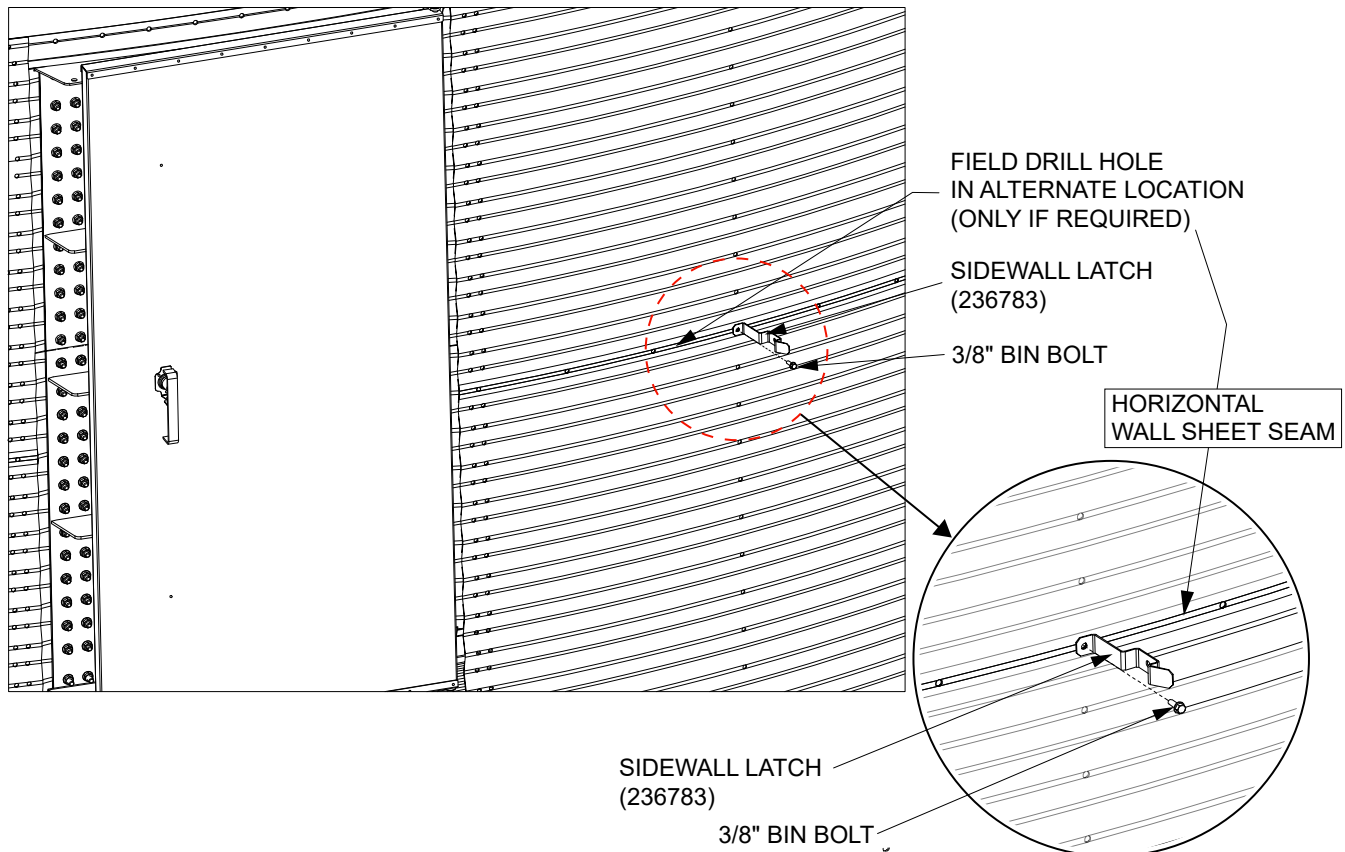


Figure 16. Install the Sidewall Latch



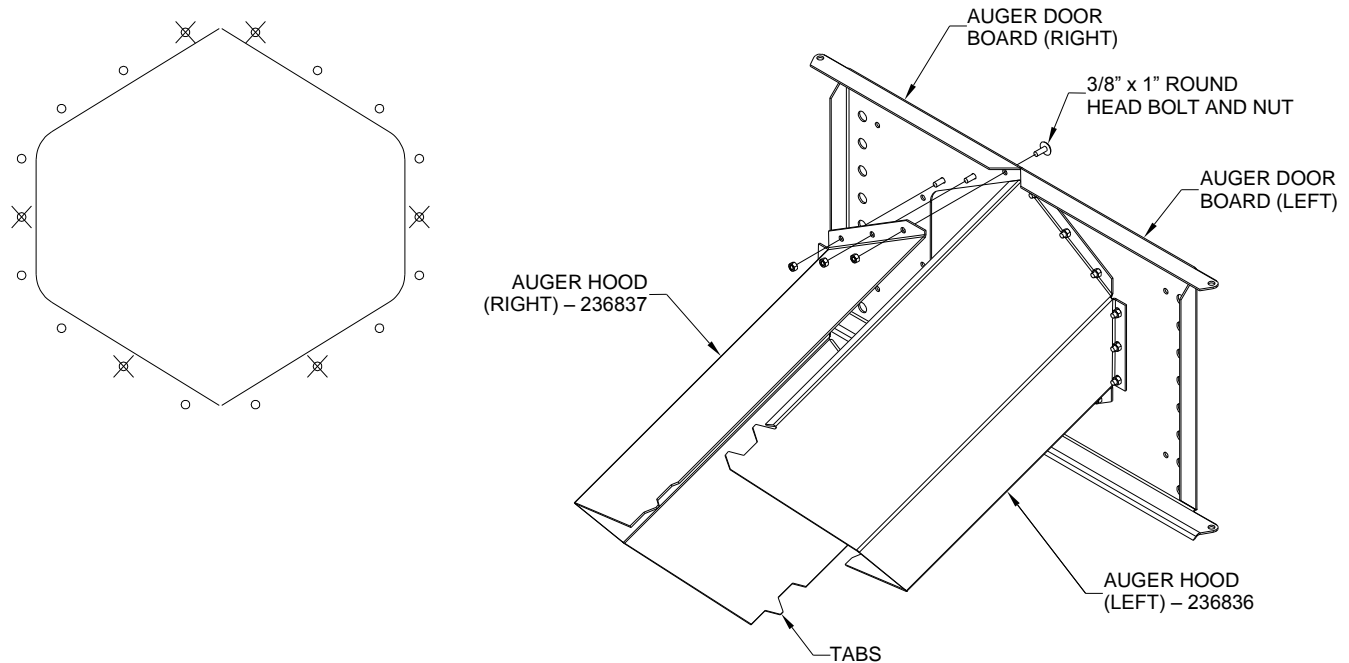
5.14. Auger Chute Installation

Bolt the auger chute hood to the auger door board, as shown below using the 3/8" x 1" round head bolts (150594) provided with the door. Install the auger hood pieces with the door board closed. Before tightening the nuts, position the two auger hoods such that the tabs near the back of the auger hoods fit snugly together and such that the top seam where the left and right chutes come together is sealed tight. Tighten nuts.

Note

If planning to use an auger hood block-off plate, use 3/8" x 1-1/2" bolts as illustrated below at the six locations marked with an "X".

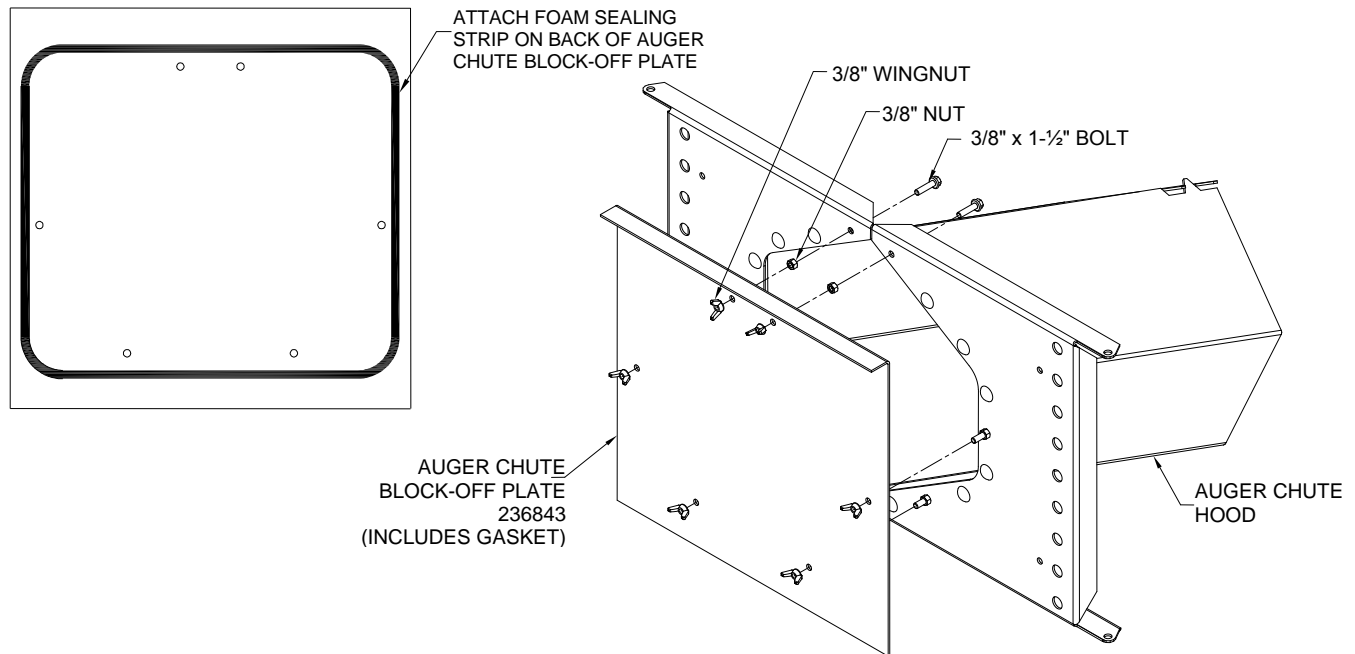
Figure 17. Auger Chute Detail



5.15. Auger Chute Block-Off Plate Installation

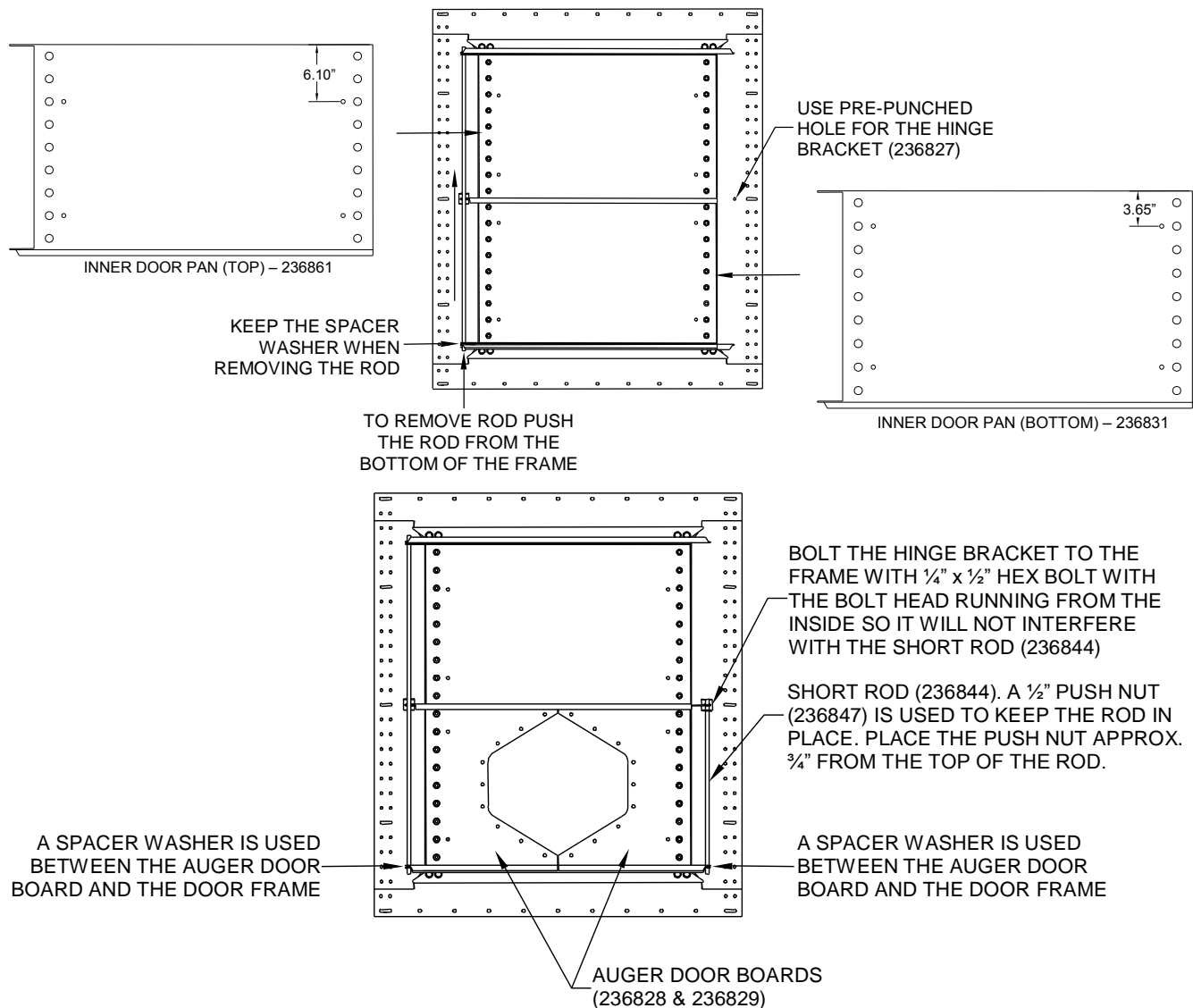
Bolt the auger chute block-off plate to the auger door boards using 3/8" x 1-1/2" bolts, 3/8" nut and 3/8" wing nut as shown below and remove the corresponding round head bolts. To remove the plate, remove the wing nuts.

Figure 18. Auger chute Block-Off Plate Detail



5.16. Door Conversion

Figure 19. Door Conversion Detail



To convert a standard door configuration to an auger hood version:

1. Remove the lower door board by pushing up the long hinge rod sufficiently to clear the door board. Save the spacer washer at the bottom of the door board.
2. Insert the proper auger door board as shown. Reinsert the long rod and spacer washer.
3. Bolt the hinge bracket to the frame using $\frac{1}{4}$ " x $\frac{3}{4}$ " hex bolts. Put the head of the bolt on the inside of the door. Orient the hinge bracket similar to the other hinge bracket on the other side.
4. Put the $\frac{1}{2}$ " push nut on one end of the short hinge rod. Push it down about $\frac{3}{4}$ ".
5. Position the second auger door board and insert the short rod through the hinge bracket, through the auger door board and through the door frame at the bottom. Remember to insert the spacer washer as shown.
6. Bolt on the auger chutes as provided elsewhere.

To convert an auger hood door version to a standard door configuration:

1. Remove the two auger door boards by pulling the hinge rods sufficiently to clear them. The short rod can be removed completely. Save the spacer washer.
2. Insert the lower door board and reinsert the long hinge rod. Remember to insert the spacer washer.
3. Be sure that the top and bottom door boards are positioned properly with respect to each other. This can be determined by the handle location on the door as shown above (6.1" from the top on the top door board and 3.65" from the top on the bottom door board). Another check is to insure that the handles align with the mating studs on the door frame.

5.17. Hopper Cone to Bin Installation

New Bin Application

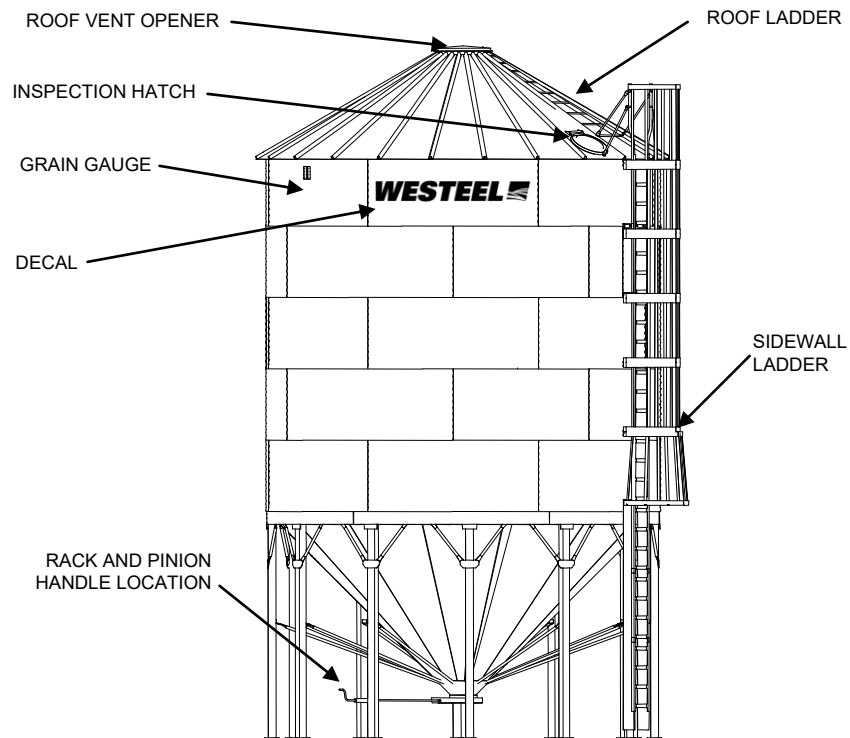
Use only AGI Hopper Cones which are specifically designed to suit AGI Wide-Corr Bins. When installing a hopper cone to a new bin installation refer to the following instructions:

1. Pour the foundation as per instructions provided with your hopper.
 - Ensure the foundation has fully cured before continuing the assembly of your bin.
 - If a AGI skid base is used, a compacted gravel base can be used instead of a concrete foundation.
 - Follow the soil bearing information and site preparation instructions in [Section 3. – Before You Begin on page 13](#).
2. Assemble the bin as per the instructions in [Section 5. – Assembly on page 26](#).
 - For wall sheet layouts for the 15' – 24' bin for hopper, refer to .
 - The bottom ring angle and door installation instructions may be disregarded when your WC bin is installed on a hopper cone.
3. Position hopper cone on foundation and align hopper with bin as shown in [Figure 20 on page 61](#).
 - Ensure all bottom holes on the bottom wall sheets are clear of bolts.
4. Use of a bin crane to lift your bin is recommended.
 - Ensure the crane and all other lifting devices have adequate capacity to handle the maximum bin weight safely.
 - Lift the bin by placing a round support or 'tripod' inside the bin, directly under the vent collar.
5. Leave the vertical seam bolts loose on the bottom tier only for easy assembly.
6. Align the bin with the cone as shown in [Figure 20 on page 61](#).
7. Fasten the bin to hopper cone with 3/8" x 1-1/2" bolts, nuts and washers.
8. Insert one bolt on one side, the next bolt on the opposite side of bin, then the next two bolts at right angles to the first two.

This will position the bin on the hopper properly.
9. Once the bin is in place, insert all other bolts and tighten the loose bolts.

Important

- Use only lifting devices of adequate rated capacity.
- Make sure the hopper cone is level and all load points contact the foundation.
- Make sure all fasteners are tightened as per torque instructions in [Section 7.5 – Recommended Bolt Assembly on page 85](#).

Figure 20. Hopper Cone to Bin Installation

5.18. Wall Sheet Layouts - EFS Series

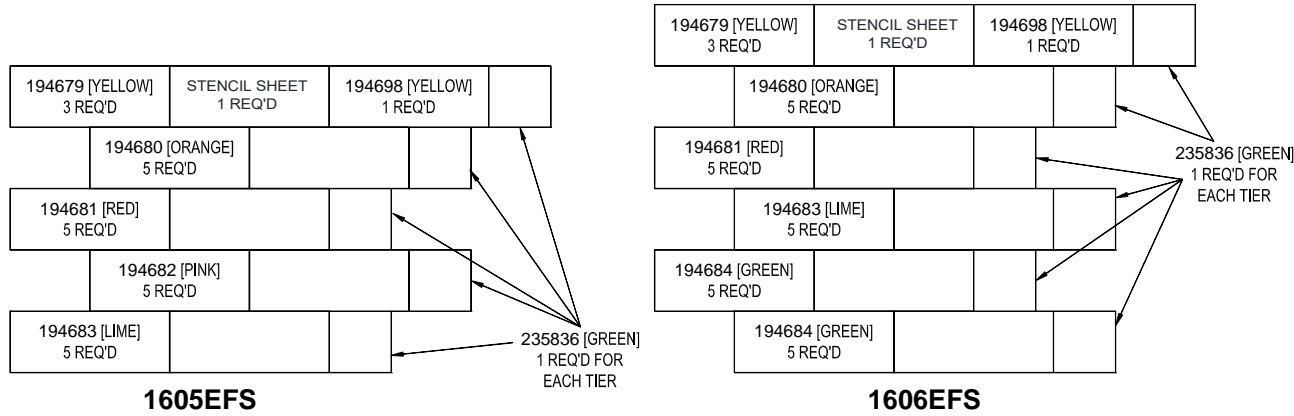
Table 21. Model 1503EFS to 1507EFS

194679 [YELLOW] 3 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194679 [YELLOW] 5 REQ'D		
194681 [RED] 5 REQ'D		
1503EFS		
194679 [YELLOW] 3 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194679 [YELLOW] 5 REQ'D		
194681 [RED] 5 REQ'D		
194682 [PINK] 5 REQ'D		
194683 [LIME] 5 REQ'D		
1505EFS		
194679 [YELLOW] 3 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194679 [YELLOW] 5 REQ'D		
194681 [RED] 5 REQ'D		
194682 [PINK] 5 REQ'D		
194683 [LIME] 5 REQ'D		
1506EFS		
194679 [YELLOW] 3 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194680 [ORANGE] 5 REQ'D		
194681 [RED] 5 REQ'D		
194683 [LIME] 5 REQ'D		
194684 [GREEN] 5 REQ'D		
194684 [GREEN] 5 REQ'D		
1507EFS		
194679 [YELLOW] 3 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194680 [ORANGE] 5 REQ'D		
194682 [PINK] 5 REQ'D		
194683 [LIME] 5 REQ'D		
194684 [GREEN] 5 REQ'D		
194684 [GREEN] 5 REQ'D		
194685 [BLUE] 5 REQ'D		

NOTES:

- Colors match number labels and indicate wall sheet thickness
- Stencil Sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]

Table 22. Model 1605EFS to 1606EFS



Note

1. Colors match number labels and indicate wall sheet thickness.
2. Stencil Sheet is AGI: 194894 [Yellow] or WESTEEL: 194651 [YELLOW]

Table 23. Model 1803EFS to 1808EFS

194679 [YELLOW] 4 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194679 [YELLOW] 6 REQ'D	
194681 [RED] 6 REQ'D		

1803EFS

194679 [YELLOW] 4 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194679 [YELLOW] 6 REQ'D	
194681 [RED] 6 REQ'D		
	194682 [PINK] 6 REQ'D	
194683 [LIME] 6 REQ'D		

1805EFS

194679 [YELLOW] 4 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 6 REQ'D	
194682 [PINK] 6 REQ'D		
	194683 [LIME] 6 REQ'D	
194684 [GREEN] 6 REQ'D		
	194684 [GREEN] 6 REQ'D	
194685 [BLUE] 6 REQ'D		

1807EFS

194679 [YELLOW] 4 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194679 [YELLOW] 6 REQ'D	
194681 [RED] 6 REQ'D		
	194682 [PINK] 6 REQ'D	

1804EFS

194679 [YELLOW] 4 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 6 REQ'D	
194681 [RED] 6 REQ'D		
	194682 [PINK] 6 REQ'D	
194683 [LIME] 6 REQ'D		
	194684 [GREEN] 6 REQ'D	

1806EFS

194679 [YELLOW] 4 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 6 REQ'D	
194682 [PINK] 6 REQ'D		
	194683 [LIME] 6 REQ'D	
194684 [GREEN] 6 REQ'D		
	194684 [GREEN] 6 REQ'D	
194685 [BLUE] 6 REQ'D		
	194686 [PURPLE] 6 REQ'D	

1808EFS**NOTES:**

- Colors match part number label and indicate wall sheet thickness
- Stencil Sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]

Table 24. Model 2103EFS to 2108EFS

194679 [YELLOW] 5 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 7 REQ'D	
194681 [RED] 7 REQ'D		

2103EFS

194679 [YELLOW] 5 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 7 REQ'D	
194681 [RED] 7 REQ'D		
	194682 [PINK] 7 REQ'D	

2104EFS

194679 [YELLOW] 5 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 7 REQ'D	
194681 [RED] 7 REQ'D		
	194682 [PINK] 7 REQ'D	
194683 [LIME] 7 REQ'D		

2105EFS

194679 [YELLOW] 5 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 7 REQ'D	
194681 [RED] 7 REQ'D		
	194682 [PINK] 7 REQ'D	
194683 [LIME] 7 REQ'D		
	194684 [GREEN] 7 REQ'D	

2106EFS

194679 [YELLOW] 5 REQ'D	STENCIL SHEET 1 REQ'D	194679 [YELLOW] 1 REQ'D
	194680 [ORANGE] 7 REQ'D	
194681 [RED] 7 REQ'D		
	194683 [LIME] 7 REQ'D	
194684 [GREEN] 7 REQ'D		
	194684 [GREEN] 7 REQ'D	
194685 [BLUE] 7 REQ'D		

2107EFS

194679 [YELLOW] 5 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194681 [RED] 7 REQ'D	
194682 [PINK] 7 REQ'D		
	194683 [LIME] 7 REQ'D	
194684 [GREEN] 7 REQ'D		
	194685 [BLUE] 7 REQ'D	
194685 [BLUE] 7 REQ'D		
	194686 [PURPLE] 7 REQ'D	

2108EFS**NOTES:**

- Colors match part number label and indicate wall sheet thickness
- Stencil Sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]

Table 25. Model 2403EFS to 2407EFS

194679 [YELLOW] 6 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 8 REQ'D	
194681 [RED] 8 REQ'D		

2403EFS

194679 [YELLOW] 6 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 8 REQ'D	
194681 [RED] 8 REQ'D		
	194682 [PINK] 8 REQ'D	

2404EFS

194679 [YELLOW] 6 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 8 REQ'D	
194681 [RED] 8 REQ'D		
	194682 [PINK] 8 REQ'D	
194683 [LIME] 8 REQ'D		

2405EFS

194679 [YELLOW] 6 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 8 REQ'D	
194681 [RED] 8 REQ'D		
	194682 [PINK] 8 REQ'D	
194683 [LIME] 8 REQ'D		
	194684 [GREEN] 8 REQ'D	

2406EFS

194679 [YELLOW] 6 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194680 [ORANGE] 8 REQ'D	
194681 [RED] 8 REQ'D		
	194683 [LIME] 8 REQ'D	
194684 [GREEN] 8 REQ'D		
	194684 [GREEN] 8 REQ'D	
194685 [BLUE] 8 REQ'D		

2407EFS**NOTES:**

- Colors match part number label and indicate wall sheet thickness
- Stencil Sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]

Table 26. Model 2703EFS to 2709EFS

194679 [YELLOW] 7 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194680 [ORANGE] 9 REQ'D		
194681 [RED] 9 REQ'D		
2703EFS		
194679 [YELLOW] 7 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194680 [ORANGE] 9 REQ'D		
194681 [RED] 9 REQ'D		
194683 [LIME] 9 REQ'D		
194684 [GREEN] 9 REQ'D		
2705EFS		
194679 [YELLOW] 7 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194680 [ORANGE] 9 REQ'D		
194681 [RED] 9 REQ'D		
194683 [LIME] 9 REQ'D		
194684 [GREEN] 9 REQ'D		
2707EFS		
194679 [YELLOW] 7 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194680 [ORANGE] 9 REQ'D		
194681 [RED] 9 REQ'D		
194683 [LIME] 9 REQ'D		
194684 [GREEN] 9 REQ'D		
194685 [BLUE] 9 REQ'D		
2709EFS		
194679 [YELLOW] 7 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194680 [ORANGE] 9 REQ'D		
194681 [RED] 9 REQ'D		
194683 [LIME] 9 REQ'D		
194684 [GREEN] 9 REQ'D		
194685 [BLUE] 9 REQ'D		
194686 [PURPLE] 9 REQ'D		
2708EFS		

NOTES:

- Colors to match part number label and indicate wall sheet thickness
- Stencil Sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]

Table 26 Model 2703EFS to 2709EFS (continued)

194679 [YELLOW] 7 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
	194681 [RED] 9 REQ'D	
194682 [PINK] 9 REQ'D		
	194683 [LIME] 9 REQ'D	
194684 [GREEN] 9 REQ'D		
	194685 [BLUE] 9 REQ'D	
194685 [BLUE] 9 REQ'D		
	194686 [PURPLE] 9 REQ'D	
194687 [BLACK] 9 REQ'D		

2709EFS

NOTES:

- 1. Colors to match part number label and indicate wall sheet thickness
- 2. Stencil Sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW]

Table 27. Model 3007EFS to 3009EFS

194679 [YELLOW] 8 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194681 [RED] 10 REQ'D		
194681 [RED] 10 REQ'D		
194683 [LIME] 10 REQ'D		
194684 [GREEN] 10 REQ'D		
194684 [GREEN] 10 REQ'D		
194685 [BLUE] 10 REQ'D		
3007EFS		
194679 [YELLOW] 8 REQ'D	STENCIL SHEET 1 REQ'D	194698 [YELLOW] 1 REQ'D
194681 [RED] 10 REQ'D		
194681 [RED] 10 REQ'D		
194683 [LIME] 10 REQ'D		
194684 [GREEN] 10 REQ'D		
194684 [GREEN] 10 REQ'D		
194685 [BLUE] 10 REQ'D		
194685 [PURPLE] 10 REQ'D		
3008EFS		
194680 [ORANGE] 8 REQ'D	STENCIL SHEET 1 REQ'D	194699 [ORANGE] 1 REQ'D
194681 [RED] 10 REQ'D		
194682 [PINK] 10 REQ'D		
194683 [LIME] 10 REQ'D		
194684 [GREEN] 10 REQ'D		
194684 [GREEN] 10 REQ'D		
194685 [BLUE] 10 REQ'D		
194686 [PURPLE] 10 REQ'D		
194687 [BLACK] 10 REQ'D		
3009EFS		

NOTES:

- Colors match part number label and indicate wall sheet thickness
- Stencil Sheet is AGI: 194894 [YELLOW] or WESTEEL: 194651 [YELLOW] for 3007EFS & 3008EFS
- Stencil Sheet is AGI: 194896 [ORANGE] or WESTEEL: 194652 [ORANGE] for 3009EFS

6. Specifications

6.1. Wide-Corr® Farm Series Grain Bin Specifications

Note

Farm series bins up to and including 10,000 bushels, can use the auger chute. All other bins require center unloading equipment.

Table 28. Wide-Corr® Farm Series Grain Bin Specifications

MODEL	NO OF TIERS	BIN DIAMETER	MAXIMUM CAPACITY			HEIGHT			
						EAVES		OVERALL	
			bu ⁽¹⁾	m ³	Tonnes ⁽²⁾	ft	m	ft	m
1504W	4	14'11" 4.55 m	2400	80	65	14.8	4.52	19.0	5.78
1505W	5		2940	98	80	18.5	5.64	22.6	6.89
1506W	6		3490	116	95	22.2	6.76	26.3	8.01
1507W	7		4030	134	109	25.8	7.87	30.0	9.13
1804W	4	17'11" 5.46 m	3500	117	95	14.8	4.52	19.8	6.04
1805W	5		4290	143	116	18.5	5.64	23.5	7.16
1806W	6		5080	169	138	22.2	6.76	27.1	8.27
1807W	7		5860	195	159	25.8	7.87	30.8	9.39
2104W	4	20'11" 6.37 m	4840	162	131	14.8	4.52	20.7	6.30
2105W	5		5910	197	160	18.5	5.64	24.3	7.42
2106W	6		6980	233	189	22.2	6.76	28.0	8.54
2107W	7		8050	269	218	25.8	7.87	31.7	9.65
2108W	8		9120	304	247	29.5	8.99	35.3	10.77
2404W	4	23'10" 7.28 m	6420	215	174	14.8	4.52	21.5	6.56
2405W	5		7820	261	212	18.5	5.64	25.2	7.68
2406W	6		9220	308	250	22.2	6.76	28.9	8.80
2407W	7		10610	354	288	25.8	7.87	32.5	9.92
2408W	8		12010	401	326	29.5	8.99	36.2	11.03
2704W	4	26'10" 8.19 m	8240	276	224	14.8	4.52	22.4	6.83
2705W	5		10010	335	272	18.5	5.64	26.1	7.94
2706W	6		11780	394	320	22.2	6.76	29.7	9.06
2707W	7		13550	453	368	25.8	7.87	33.4	10.18
2708W	8		15320	511	416	29.5	8.99	37.1	11.30
2709W	9		17090	570	464	33.2	10.11	40.7	12.41
3004W	4	29'10" 9.10 m	10330	346	280	14.8	4.52	22.9	6.97
3005W	5		12510	419	339	18.5	5.64	26.5	8.09
3006W	6		14700	491	399	22.2	6.76	30.2	9.20

Table 28 Wide-Corr® Farm Series Grain Bin Specifications (continued)

MODEL	NO OF TIER	BIN DIAMETER	MAXIMUM CAPACITY			HEIGHT			
						EAVES		OVERALL	
			bu ⁽¹⁾	m ³	Tonnes ⁽²⁾	ft	m	ft	m
3007W	7		16880	564	458	25.8	7.87	33.9	10.32
3008W	8		19070	637	517	29.5	8.99	37.5	11.44
3009W	9		21250	709	576	33.2	10.11	41.2	12.56
3304W	4	32'10" 10.01 m	12680	425	344	14.8	4.52	23.7	7.23
3305W	5		15320	513	416	18.5	5.64	27.4	8.35
3306W	6		17960	601	487	22.2	6.76	31.1	9.47
3307W	7		20610	689	559	25.8	7.87	34.7	10.58
3308W	8		23250	777	631	29.5	8.99	38.4	11.70
3309W	9		25900	865	702	33.2	10.11	42.1	12.82
3604W	4	35'10" 10.91 m	15300	514	415	14.8	4.52	24.6	7.49
3605W	5		18450	618	500	18.5	5.64	28.3	8.61
3606W	6		21590	723	586	22.2	6.76	31.9	9.73
3607W	7		24740	827	671	25.8	7.87	35.6	10.85
3608W	8		27890	932	756	29.5	8.99	39.3	11.96
3609W	9		31030	1036	842	33.2	10.11	42.9	13.08
3905W	5	38'10" 11.82 m	21900	734	594	18.5	5.64	29.1	8.87
3906W	6		25590	857	694	22.2	6.76	32.8	9.99
3907W	7		29290	980	794	25.8	7.87	36.5	11.11
3908W	8		32980	1103	895	29.5	8.99	40.1	12.23
3909W	9		36670	1225	995	33.2	10.11	43.8	13.35
4204W	4	41'9" 12.73 m	21410	720	581	14.8	4.52	26.3	8.02
4205W	5		25690	862	697	18.5	5.64	30.0	9.14
4206W	6		29970	1004	813	22.2	6.76	33.6	10.25
4207W	7		34260	1147	929	25.8	7.87	37.3	11.37
4208W	8		38540	1289	1045	29.5	8.99	41.0	12.49
4209W	9		42820	1431	1162	33.2	10.11	44.6	13.61
4504W	4	44'9" 13.64 m	24910	838	676	14.8	4.52	27.2	8.28
4505W	5		29830	1001	809	18.5	5.64	30.8	9.40
4506W	6		34740	1165	942	22.2	6.76	34.5	10.52
4507W	7		39660	1328	1076	25.8	7.87	38.2	11.64
4508W	8		44580	1491	1209	29.5	8.99	41.8	12.75
4509W	9		49490	1655	1342	33.2	10.11	45.5	13.87
4804W	4	47'9" 14.55 m	28720	967	779	14.8	4.52	28.0	8.54
4805W	5		34320	1153	931	18.5	5.64	31.7	9.66
4806W	6		39910	1338	1083	22.2	6.76	35.4	10.78

Table 28 Wide-Corr® Farm Series Grain Bin Specifications (continued)

MODEL	NO OF TIERS	BIN DIAMETER	MAXIMUM CAPACITY			HEIGHT			
						EAVES		OVERALL	
			bu ⁽¹⁾	m ³	Tonnes ⁽²⁾	ft	m	ft	m
4807W	7		45510	1524	1234	25.8	7.87	39.0	11.90
4808W	8		51100	1710	1386	29.5	8.99	42.7	13.02
4809W	9		56690	1896	1538	33.2	10.11	46.4	14.13
5104W	4	50'9" 15.46 m	32860	1106	891	14.8	4.52	28.5	8.70
5105W	5		39170	1316	1062	18.5	5.64	32.2	9.81
5106W	6		45490	1526	1234	22.2	6.76	35.9	10.93
5107W	7		51800	1736	1405	25.8	7.87	39.5	12.05
5108W	8		58120	1946	1576	29.5	8.99	43.2	13.17
5109W	9		64430	2156	1748	33.2	10.11	46.9	14.28
5405W	5	53'9" 16.37 m	44400	1493	1204	18.5	5.64	33.1	10.08
5406W	6		51480	1728	1396	22.2	6.76	36.7	11.19
5407W	7		58560	1963	1588	25.8	7.87	40.4	12.31
5408W	8		65640	2199	1780	29.5	8.99	44.1	13.43
5409W	9		72720	2434	1972	33.2	10.11	47.7	14.55
1605EFS		15'11" 4.9 m	3367	112.4	91.4	18.5	5.64	22.8	6.95
1606EFS			3989	133.1	108.2	22.2	6.76	26.5	8.1

CAPACITIES SHOWN INCLUDE 28° ROOF CONE.

1. BASED ON 1.244 CU. FT. PER BUSHEL AND 6% COMPACTION IN CYLINDER.
2. BASED ON 770 KG/M³ AND 6% COMPACTION IN CYLINDER.

Note
UPGRADED STIR OR CIR BINS SHOULD BE USED WITH STIRRING OR RECIRCULATING DEVICES.

Note
EFS does not include hopper.

6.2. Foundation Loads - Farm Bin (WFS)

Important

- Grain Bin Anchoring: Adequate anchoring is critical to a successful bin installation. The anchoring of the bin is dependent on local wind loading conditions and forms part of the site specific design requirements. The anchor bolt details must form part of the site specific foundation design.
- For stiffened bins the primary anchor bolt locations are through the base plates at each and every upright location. The anchor bolt design, plus connection details to the base plate, must accommodate the total shear and uplift loads that can occur due to wind loading at the site in question.
- In addition AGI suggests the use of 1/2" x 3" embedment anchor bolts through the bottom ring angle to insure bin roundness, for sealing purposes, and for additional localized lateral stability.

Table 29. Foundation Loads — Farm Bin (WFS) 15' & 18' (Imperial-Unfactored)

Model		1504	1505	1506	1507	1804	1805	1806	1807
Vertical dead load	lbs/ft	51	64	75	90	52	62	78	92
Vertical grain load	lbs/ft	1,047	1,492	1,989	3,103	1,124	1,604	2,144	2,735
Vertical roof snow load *	lbs/ft	90	90	90	90	109	109	109	109
Vertical roof peak load	lbs/ft	85	85	85	85	71	71	71	71
Bin floor pressure	lbs/ft ²	614	696	765	822	659	754	835	905
Number of anchor bolts		30	30	30	30	36	36	36	36

* Based on maximum snow load of 24 psf

Table 30. Foundation Loads — Farm Bin (WFS) 21' & 24' (Imperial-Unfactored)

Model		2104	2105	2106	2107	2108	2404	2405	2406	2407	2408
Vertical dead load	lbs/ft	55	67	82	98	116	55	67	83	100	119
Vertical grain load	lbs/ft	1,194	1,704	2,279	2,913	3,598	1,260	1,795	2,401	3,072	3,800
Vertical roof snow load *	lbs/ft	127	127	127	127	127	145	145	145	145	145
Vertical roof peak load	lbs/ft	61	61	61	61	61	53	53	53	53	53
Bin floor pressure	lbs/ft ²	698	802	893	974	1,044	731	843	943	1,032	1,112
Number of anchor bolts		42	42	42	42	42	48	48	48	48	48

* Based on maximum snow load of 24 psf

Table 31. Foundation Loads — Farm Bin (WFS) 27' & 30' (Imperial-Unfactored)

Model		2704	2705	2706	2707	2708	2709	3004	3005	3006	3007	3008	3009
Vertical dead load	lbs/ft	60	72	88	107	124	146	65	80	95	114	134	158
Vertical grain load	lbs/ft	1,324	1,881	2,514	3,217	3,983	4,805	1,385	1,962	2,620	3,352	4,151	5,011
Vertical roof snow load *	lbs/ft	163	163	163	163	163	163	181	181	181	181	181	181
Vertical roof peak load	lbs/ft	59	59	59	59	59	59	53	53	53	53	53	53
Bin floor pressure	lbs/ft ²	761	880	987	1,084	1,172	1,251	788	912	1,026	1,129	1,224	1,310
Number of anchor bolts		54	54	54	54	54	54	60	60	60	60	60	60

* Based on maximum snow load of 24 psf

Table 32. Foundation Loads — Farm Bin (WFS) 33' & 36' (Imperial-Unfactored)

Model		3304	3305	3306	3307	3308	3309	3604	3605	3606	3607	3608	3609
Vertical dead load	lbs/ft	70	84	100	118	140	162	71	87	102	121	141	164
Vertical grain load	lbs/ft	1,445	2,041	2,721	3,479	4,308	5,202	1,505	2,118	2,819	3,600	4,456	5,381
Vertical roof snow load *	lbs/ft	199	199	199	199	199	199	217	217	217	217	217	217
Vertical roof peak load	lbs/ft	48	48	48	48	48	48	44	44	44	44	44	44
Bin floor pressure	lbs/ft ²	813	942	1,061	1,171	1,271	1,364	837	970	1,094	1,208	1,314	1,413
Number of anchor bolts		66	66	66	66	66	66	72	72	72	72	72	72

* Based on maximum snow load of 24 psf

Table 33. Foundation Loads — Farm Bin (WFS) 39' & 42' (Imperial-Unfactored)

Model		3904	3905	3906	3907	3908	3909	4204	4205	4206	4207	4208	4209
Vertical dead load	lbs/ft	74	89	107	125	146	171	76	91	110	129	150	177
Vertical grain load	lbs/ft	1,564	2,194	2,914	3,717	4,598	5,552	1,623	2,269	3,007	3,830	4,735	5,715
Vertical roof snow load *	lbs/ft	235	235	235	235	235	235	253	253	253	253	253	253
Vertical roof peak load	lbs/ft	41	41	41	41	41	41	38	38	38	38	38	38
Bin floor pressure	lbs/ft ²	860	997	1,124	1,243	1,354	1,457	882	1,021	1,152	1,275	1,390	1,498
Number of anchor bolts		78	78	78	78	78	78	84	84	84	84	84	84

* Based on maximum snow load of 24 psf

Table 34. Foundation Loads — Farm Bin (WFS) 45' & 48' (Imperial-Unfactored)

Model		4504	4505	4506	4507	4508	4509	4804	4805	4806	4807	4808	4809
Vertical dead load	lbs/ft							80	95	113	135	157	184
Vertical grain load	lbs/ft							1,741	2,417	3,188	4,049	4,996	6,024
Vertical roof snow load *	lbs/ft		To be determined					290	290	290	290	290	290
Vertical roof peak load	lbs/ft							33	33	33	33	33	33
Bin floor pressure	lbs/ft ²							923	1,068	1,205	1,334	1,457	1,572
Number of anchor bolts								96	96	96	96	96	96

* Based on maximum snow load of 24 psf

Table 35. Foundation Loads — Farm Bin (WFS) 51' & 54' (Imperial-Unfactored)

Model		5104	5105	5106	5107	5108	5109	5404	5405	5406	5407	5408	5409	5410
Vertical dead load	lbs/ft													
Vertical grain load	lbs/ft													
Vertical roof snow load *	lbs/ft		To be determined											
Vertical roof peak load	lbs/ft													
Bin floor pressure	lbs/ft ²													
Number of anchor bolts														

* Based on maximum snow load of 24 psf

7. Appendix

7.1. WFS/EFS Parts Box Listing (Common Parts)

Table 36. WFS Parts Box Listing (Common Parts)

Part Number	Description	Unit weight (lbs)	15'	18'	21'	24'	27'	30'	33'	36'	39'	42'	45'	48'	51'
212201	PEAK RING 15	30.7	1	-	-	-	-	-	-	-	-	-	-	-	-
212203	PEAK RING 18	30.7	-	1	-	-	-	-	-	-	-	-	-	-	-
212204	PEAK RING 21	30.7	-	-	1	-	-	-	-	-	-	-	-	-	-
212205	PEAK RING 24	30.7	-	-	-	1	-	-	-	-	-	-	-	-	-
212206	PEAK RING 27	30.7	-	-	-	-	1	-	-	-	-	-	-	-	-
VARIES	PEAK RING (30' — 51')		-	-	-	-	-								
212228	PEAK RING FOAM for 15-27, 51-54	0.4	1	1	1	1	1	-	-	-	-	-	-	-	2
212229	PEAK RING FOAM for 30-48	0.5	-	-	-	-	-	1	1	1	1	1	1	1	-
212230	BIRD STOP	0.127	15	18	21	24	27	30	33	36	39	42	45	48	51
212231	FOAM ROOF RIB CLOSURE (12)	0.06	2	2	2	2	3	3	3	3	4	4	4	4	5
185010	CARTON 37x37x9 for BIN PARTS 15-27	9.4	1	1	1	1	1	-	-	-	-	-	-	-	-
185011	CARTON 53x27x7 for BIN PARTS 30-54	8.3	-	-	-	-	-	1	1	1	1	1	1	1	1
193061	LADDER RUNG 14.5 (4.0 C/C)	1	-	-	-	-	-	-	-	-	-	-	1	-	-
193062	LADDER RUNG 14.5 (6.0 CTR)	1	-	-	-	-	-	-	-	-	-	-	-	1	1
193063	LADDER RUNG 14.5 (8.0 CTR)	1	-	-	-	1	1	-	-	1	1	1	1	1	1
193064	LADDER RUNG 14.5 (10.0 CTR)	1	-	-	1	-	-	1	1	-	-	1	1	-	1
193065	LADDER RUNG 14.5 (12.0 CTR)	1	-	1	-	-	1	-	-	1	1	1	1	1	1
193066	LADDER RUNG 16.5 (14.0 CTR)	1.1	1	-	-	1	-	1	1	-	1	-	1	1	-
193067	LADDER RUNG 18.5 (16.0 CTR)	1.3	-	-	1	-	1	-	1	1	1	1	-	1	1
193068	LADDER RUNG 20.5 (18.0 CTR)	1.4	-	1	-	1	-	1	-	1	-	1	1	-	-
193069	LADDER RUNG 22.5 (20.0 CTR)	1.5	-	-	1	-	1	-	1	-	1	-	-	1	1
193070	LADDER RUNG 24.5 (22.0 CTR)	1.7	1	-	-	1	-	1	-	1	-	-	1	1	1
193071	LADDER RUNG 26.5 (24.0 CTR)	3.2	-	1	-	-	1	-	1	-	-	1	1	-	-
193072	LADDER RUNG 28.5 (26.0 CTR)	3.4	-	-	1	-	-	1	1	-	1	1	1	-	1
193073	LADDER RUNG 30.5 (28.0 CTR)	3.6	1	-	-	1	1	-	-	1	1	1	-	1	-
193074	LADDER RUNG 32.5 (30.0 CTR)	3.9	-	1	-	-	-	1	1	1	-	-	1	1	1
193075	LADDER RUNG 34.5 (32.0 CTR)	4.1	-	-	1	1	1	-	-	-	1	1	1	1	1
193076	LADDER RUNG 36.5 (34.0 CTR)	4.4	-	-	-	-	-	1	1	1	1	1	1	1	1
193077	LADDER RUNG 38.5 (36.0 CTR)	4.6	1	1	1	1	1	1	1	1	1	1	-	-	-
193078	LADDER RUNG 40.5 (38.0 CTR)	4.8	-	-	-	-	-	-	-	-	-	-	1	1	1
194120	GRAIN GAUGE	0.3	1	1	1	1	1	1	1	1	1	1	1	1	1
194125	REFLECTIVE STRIP .75 x 8.2	0.001	1	1	1	1	1	1	1	1	1	1	1	1	1
195063	STIFFENING RING BRACKET	0.31	-	-	-	-	-	-	33	36	39	42	45	96	153
195074	STIFFENING RING SPLICE 1.375	1.35	-	-	-	-	-	-	3	3	3	3	3	6	9
195080	STIFFENING RING GASKET - BAG 50	0.05	-	-	-	-	-	-	1	1	1	1	1	2	4
195085	STIFFENING RING EXPANDER 1.375	4.66	-	-	-	-	-	-	2	2	2	2	2	5	9

Table 36 WFS Parts Box Listing (Common Parts) (continued)

Part Number	Description	Unit weight (lbs)	15'	18'	21'	24'	27'	30'	33'	36'	39'	42'	45'	48'	51'
195149	PEAK RING BULB GASKET 105"	0.9	1	1	1	1	1	-	-	-	-	-	-	-	2
195150	PEAK RING BULB GASKET 168"	1.44	-	-	-	-	-	1	1	1	1	1	1	1	-
195695	DOOR TIE BACK CHAIN 17.75" LONG	0.52	1	1	1	1	1	1	1	1	1	1	1	1	1
212400	RCO SLIDE ROD 15-27	2.45	1	1	1	1	1	-	-	-	-	-	-	-	-
212401	RCO SLIDE ROD 30-48	3.06	-	-	-	-	-	1	1	1	1	1	1	1	-
212402	RCO SLIDE ROD ANGLE	2.15	1	1	1	1	1	1	1	1	1	1	1	1	-
234815	RCO GUIDE RAIL 30–60	0.80	-	-	-	-	-	2	2	2	2	2	2	2	-
212404	RCO CABLE GUIDE	3.5	1	1	1	1	1	-	-	-	-	-	-	-	-
212731	LOAD SPREADER TUBE 15	8.6	1	-	-	-	-	-	-	-	-	-	-	-	-
212732	LOAD SPREADER TUBE 18	8.6	-	1	-	-	-	-	-	-	-	-	-	-	-
212733	LOAD SPREADER TUBE 21	8.6	-	-	1	-	-	-	-	-	-	-	-	-	-
212734	LOAD SPREADER TUBE 24	8.6	-	-	-	1	-	-	-	-	-	-	-	-	-
212735	LOAD SPREADER TUBE 27	8.6	-	-	-	-	1	-	-	-	-	-	-	-	-
212736	LOAD SPREADER TUBE 30	8.6	-	-	-	-	-	1	-	-	-	-	-	-	-
212737	LOAD SPREADER TUBE 33-36	8.6	-	-	-	-	-	-	1	-	-	-	-	-	-
212737	LOAD SPREADER TUBE 33-36	8.6	-	-	-	-	-	-	-	1	-	-	-	-	-
212738	LOAD SPREADER TUBE 39-45	8.6	-	-	-	-	-	-	-	-	1	-	-	-	-
212738	LOAD SPREADER TUBE 39-45	8.6	-	-	-	-	-	-	-	-	-	1	-	-	-
212738	LOAD SPREADER TUBE 39-45	8.6	-	-	-	-	-	-	-	-	-	-	1	-	-
212739	LOAD SPREADER TUBE 48-54	8.6	-	-	-	-	-	-	-	-	-	-	-	1	-
212739	LOAD SPREADER TUBE 48-54	8.6	-	-	-	-	-	-	-	-	-	-	-	-	1
212740	FALL RESTRAINT BRACKET	0.3	2	2	2	2	2	2	2	2	2	2	2	2	2
212789	RUBBER PAD	0.06	2	2	2	2	2	2	2	2	2	2	2	2	2
232720	UPRIGHT SPLICE	2.14	1	1	1	1	1	1	1	1	1	1	1	1	1
232767	WIND RING CLIP	0.44	2	2	2	2	2	2	2	2	2	2	2	2	2
232798	STIFFENING RING EXPANDER CLIP	0.125	-	-	-	-	-	-	2	2	2	2	2	5	9
234157	U-BOLT, ROUND .312 x 1.75W x 2.8L	0.12	-	-	-	-	-	-	33	36	39	42	45	96	153
234804	RCO HARDWARE PACKAGE 15-27	4.70	1	1	1	1	1	-	-	-	-	-	-	-	-
235151	SELFDRIILL SCREW .25 x 1.0 - BAG 7	0.13	-	-	-	-	-	-	1	1	1	1	1	2	3
234812	RCO ROPE ARM 15–60	4.12	1	1	1	1	1	2	2	2	2	2	2	2	-
235219	RCO ROPE ARM SUPPORT 15-27	0.26	1	1	1	1	1	-	-	-	-	-	-	-	-
235220	RCO ROPE ARM SUPPORT 30-48	0.42	-	-	-	-	-	1	1	1	1	1	1	1	-
235279	RCO ROOF EAVE PLATE	3.02	-	-	-	-	-	1	1	1	1	1	1	1	-
234808	ROOF CAP 15-27	21.5	1	1	1	1	1	-	-	-	-	-	-	-	-
234814	RCO PIVOT ARM BRACKET 15-27	0.85	2	2	2	2	2	-	-	-	-	-	-	-	-
234810	RCO PIVOT ARM 15-27	3.01	1	1	1	1	1	-	-	-	-	-	-	-	-
234805	RCO HARDWARE PACKAGE 30-60	7.60	-	-	-	-	-	1	1	1	1	1	1	1	-
235337	RCO PIVOT ARM BRACKET 30-48	1.37	-	-	-	-	-	2	2	2	2	2	2	2	-
234811	RCO PIVOT ARM 30-60	7.12	-	-	-	-	-	1	1	1	1	1	1	1	-
235372	SEALING CLIP for BOTTOM ANGLE	0.12	5	6	7	8	9	10	11	12	13	14	15	16	17

Table 36 WFS Parts Box Listing (Common Parts) (continued)

Part Number	Description	Unit weight (lbs)	15'	18'	21'	24'	27'	30'	33'	36'	39'	42'	45'	48'	51'
235798	RCO CABLE 9/32 x 45' GALV	0.75	1	1	1	1	1	1	-	-	-	-	-	-	-
235799	RCO CABLE 9/32 x 70' GALV	1.14	-	-	-	-	-	-	1	1	1	1	1	1	-
235817	RCO WINCH ASSEMBLY	5	-	-	-	-	-	1	1	1	1	1	1	1	-
234813	RCO WINCH BRACKET	2.40	-	-	-	-	-	1	1	1	1	1	1	1	-
235882	INSPECTION HATCH BULB GASKET 76"	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1
235890	INSPECTION HATCH LID	7.48	1	1	1	1	1	1	1	1	1	1	1	1	1
235891	INSPECTION HATCH LATCH	0.81	1	1	1	1	1	1	1	1	1	1	1	1	1
235914	BOLT HFS .313 x 1.00 GR8.2 - BAG 250	8.5	1	1	1	1	2	2	2	3	3	4	4	5	6
235915	BOLT HFS .313 x 1.00 GR8.2 - BAG 50	1.7	-	1	2	4	-	1	4	1	4	1	4	2	1
235916	BOLT HFS .313 x 1.25 GR8.2 - BAG 80	3.04	1	-	-	1	1	2	2	1	2	2	3	3	3
235917	BOLT HFS .313 x 1.25 GR8.2 - BAG 50	1.9	-	2	2	1	1	-	-	2	1	1	-	-	-
235923	HEX FLANGE NUT .313 - BAG 250	3.5	1	1	2	2	3	3	4	4	5	5	6	7	8
235925	HEX FLANGE NUT .313 - BAG 50	0.7	2	3	-	2	-	-	-	2	-	3	2	1	3
235973	WSHR SEAL .313 STL/NEO - BAG 25	0.1	1	1	1	1	1	1	1	1	1	2	2	2	2
235935	BOLT HFS .375 x 1.5 GR8.2 - BAG 55	3.41	1	1	1	1	1	1	1	1	1	1	1	1	1
235974	WSHR SEAL .375 STL/NEO - BAG 25	0.16	1	1	1	1	1	1	1	1	1	1	1	1	1
198862	MANUAL - FARM	0.20	1	1	1	1	1	1	1	1	1	1	1	1	1
Shaded items are shipped separately and not inside parts box.															

Table 37. EFS Parts Box Listing (Common Parts)

Part Number	Description	Unit Weight (lbs)	15'	16'	18'	21'	24'	27'	30'
212201	PEAK RING 15	30.7	1	-	-	-	-	-	-
212202	PEAK RING 16	30.7	-	1	-	-	-	-	-
212203	PEAK RING 18	30.7	-	-	1	-	-	-	-
212204	PEAK RING 21	30.7	-	-	-	1	-	-	-
212205	PEAK RING 24	30.7	-	-	-	-	1	-	-
212206	PEAK RING 27	30.7	-	-	-	-	-	1	-
212228	PEAK RING FOAM for 15-27, 51-54	0.4	1	1	1	1	1	1	-
212229	PEAK RING FOAM for 30-48	0.5	-	-	-	-	-	-	1
212230	BIRD STOP	0.127	15	16	18	21	24	27	30
212231	FOAM ROOF RIB CLOSURE (12)	0.06	2	2	2	2	2	3	3
185010	CARTON 37x37x9 for BIN PARTS 15- 27	9.4	1	1	1	1	1	1	-
185011	CARTON 53x27x7 for BIN PARTS 30-54	8.3	-	-	-	-	-	-	1
193063	LADDER RUNG 14.5 (8.0 CTR)	1	-	-	-	-	1	1	-
193064	LADDER RUNG 14.5 (10.0 CTR)	1	-	-	-	1	-	-	1
193065	LADDER RUNG 14.5 (12.0 CTR)	1	-	1	1	-	-	1	-
193066	LADDER RUNG 16.5 (14.0 CTR)	1.1	1	-	-	-	1	-	1
193067	LADDER RUNG 18.5 (16.0 CTR)	1.3	-	-	-	1	-	1	-
193068	LADDER RUNG 20.5 (18.0 CTR)	1.4	-	-	1	-	1	-	1
193069	LADDER RUNG 22.5 (20.0 CTR)	1.5	-	1	-	1	-	1	-
193070	LADDER RUNG 24.5 (22.0 CTR)	1.7	1	-	-	-	1	-	1
193071	LADDER RUNG 26.5 (24.0 CTR)	3.2	-	-	1	-	-	1	-
193072	LADDER RUNG 28.5 (26.0 CTR)	3.4	-	1	-	1	-	-	1
193073	LADDER RUNG 30.5 (28.0 CTR)	3.6	1	-	-	-	1	1	-
193074	LADDER RUNG 32.5 (30.0 CTR)	3.9	-	-	1	-	-	-	1
193075	LADDER RUNG 34.5 (32.0 CTR)	4.1	-	-	-	1	1	1	-
193076	LADDER RUNG 36.5 (34.0 CTR)	4.4	-	1	-	-	-	-	1
193077	LADDER RUNG 38.5 (36.0 CTR)	4.6	1	-	1	1	1	1	1
194120	GRAIN GAUGE	0.3	1	1	1	1	1	1	1
194125	REFLECTIVE STRIP .75 x 8.2	0.001	1	1	1	1	1	1	1
195149	PEAK RING BULB GASKET 105"	0.9	1	1	1	1	1	1	-
195150	PEAK RING BULB GASKET 168"	1.44	-	-	-	-	-	-	1
234808	ROOF CAP 15-27	21.5	1	1	1	1	1	1	-
212400	RCO SLIDE ROD 15-27	2.45	1	1	1	1	1	1	-
212401	RCO SLIDE ROD 30-48	3.06	-	-	-	-	-	-	1
212402	RCO SLIDE ROD ANGLE	2.15	1	1	1	1	1	1	1
234815	RCO GUIDE RAIL 30–60	0.80	-	-	-	-	-	-	2
212404	RCO CABLE GUIDE	3.5	1	1	1	1	1	1	-
212731	LOAD SPREADER TUBE 15	8.6	1	-	-	-	-	-	-
212732	LOAD SPREADER TUBE 18	8.6	-	1	1	-	-	-	-
212733	LOAD SPREADER TUBE 21	8.6	-	-	-	1	-	-	-
212734	LOAD SPREADER TUBE 24	8.6	-	-	-	-	1	-	-
212735	LOAD SPREADER TUBE 27	8.6	-	-	-	-	-	1	-
212736	LOAD SPREADER TUBE 30	8.6	-	-	-	-	-	-	1
212740	FALL RESTRAINT BRACKET	0.3	2	2	2	2	2	2	2

Table 37 EFS Parts Box Listing (Common Parts) (continued)

Part Number	Description	Unit Weight (lbs)	15'	16'	18'	21'	24'	27'	30'
212789	RUBBER PAD	0.06	2	2	2	2	2	2	2
232720	UPRIGHT SPLICE	2.14	1	1	1	1	1	1	1
232767	WIND RING CLIP	0.44	2	2	2	2	2	2	2
234804	RCO HARDWARE PACKAGE 15-27	4.70	1	1	1	1	1	1	-
234805	RCO HARDWARE PACKAGE 30-60	7.60	-	-	-	-	-	-	1
234812	RCO ROPE ARM 15-60	4.12	1	1	1	1	1	1	2
235219	RCO ROPE ARM SUPPORT 15-27	0.26	1	1	1	1	1	1	-
235220	RCO ROPE ARM SUPPORT 30-48	0.42	-	-	-	-	-	-	1
235279	RCO ROOF EAVE PLATE	3.02	-	-	-	-	-	-	1
235817	RCO WINCH ASSEMBLY	5.0	-	-	-	-	-	-	1
234813	RCO WINCH BRACKET	2.4	-	-	-	-	-	-	1
234814	RCO PIVOT ARM BRACKET 15-27	0.85	2	2	2	2	2	2	-
235337	RCO PIVOT ARM BRACKET 30-48	1.37	-	-	-	-	-	-	2
234810	RCO PIVOT ARM 15-27	3.01	1	1	1	1	1	1	-
234811	RCO PIVOT ARM 30-60	7.12	-	-	-	-	-	-	1
235798	RCO CABLE 9/32 x 45' GALV	0.75	1	1	-	-	-	-	-
235799	RCO CABLE 9/32 x 70' GALV	1.14	-	-	1	1	1	1	1
235882	INSPECTION HATCH BULB GASKET 76"	0.5	1	1	1	1	1	1	1
235890	INSPECTION HATCH LID	7.48	1	1	1	1	1	1	1
235891	INSPECTION HATCH LATCH	0.81	1	1	1	1	1	1	1
235914	BOLT HFS .313 x 1.00 GR8.2 - BAG 250	8.5	1	1	1	1	1	2	2
235915	BOLT HFS .313 x 1.00 GR8.2 - BAG 50	1.7	-	-	1	2	4	-	1
235916	BOLT HFS .313 x 1.25 GR8.2 - BAG 80	3.04	1	1	-	-	1	1	2
235917	BOLT HFS .313 x 1.25 GR8.2 - BAG 50	1.9	-	-	2	2	1	1	-
235923	HEX FLANGE NUT .313 - BAG 250	3.5	1	1	1	2	2	3	3
235925	HEX FLANGE NUT .313 - BAG 50	0.7	2	3	3	1	2	-	-
235973	WSHR SEAL .313 STL/NEO - BAG 25	0.1	1	1	1	1	1	1	1
235974	WSHR SEAL .375 STL/NEO - BAG 25	0.16	1	1	1	1	1	1	1
198862	MANUAL - FARM	0.20	1	1	1	1	1	1	1

7.2. Farm Series and Hopper Bin Pail and Parts Box Listing (Non-Common Parts)

Table 38. WFS Parts Box Listing (Non-Common Parts)

Model	235941 BOLT HFS .375 x 1.0 GR8.2 - BAG 325	235943 BOLT HFS .375 x 1.0 GR8.2 - BAG 50	235944 BOLT HFS .375 x 1.25 GR8.2 - BAG 100	235950 HEX NUT .375 - BAG 300	235951 HEX NUT .375 - BAG 100	235954 HEX FLANGE NUT .375 GR5 - BAG 300	235955 HEX FLANGE NUT .375 GR5 - BAG 50	235957 FLAT WASHER .375 - BAG 75	193814 CAULKING - 40' ROLL	170445 CAULKING - 300 ml TUBE	235956 FLAT WASHER .375 - BAG 200
1503	1	5	1	2	1	-	2	1	4	2	-
1504	2	2	1	3	-	-	2	1	5	2	-
1505	3	-	1	3	2	-	2	1	5	2	-
1506	3	3	1	4	-	-	2	1	6	2	-
1507	4	-	1	4	2	-	2	1	7	2	-
1803	2	1	1	2	2	-	2	2	5	2	-
1804	2	5	1	3	1	-	2	2	6	2	-
1805	3	3	1	4	-	-	2	2	6	2	-
1806	4	1	1	5	-	-	2	2	7	2	-
1807	4	4	2	5	2	-	2	2	8	2	-
2103	2	3	1	3	-	-	2	2	5	2	-
2104	3	2	1	4	-	-	2	2	6	2	-
2105	4	-	1	4	2	-	2	2	7	2	-
2106	5	-	1	5	2	-	2	2	8	2	-
2107	5	2	2	6	2	-	2	2	9	2	-
2108	6	5	2	8	-	1	-	-	10	2	1
2403	3	-	1	3	2	-	2	2	6	2	-
2404	3	5	1	4	1	-	2	2	7	2	-
2405	4	4	1	5	1	-	2	2	8	2	-
2406	5	4	1	6	1	-	2	2	9	2	-
2407	7	-	2	8	1	1	-	-	10	2	1
2408	8	4	2	10	-	1	-	-	11	2	1
2703	3	1	1	4	-	-	3	2	7	2	-
2704	4	1	1	5	-	-	3	2	8	2	-
2705	5	1	1	6	-	-	3	2	9	2	-
2706	6	1	1	7	-	-	3	2	10	2	-
2707	8	-	2	9	1	1	-	1	11	2	1
2708	9	5	2	11	1	1	-	1	12	2	1
2709	11	4	2	13	1	1	-	1	14	2	1
3004	-	2	1	-	2	-	3	2	9	2	-
3005	1	3	1	2	-	-	3	2	10	2	-
3006	-	1	2	1	-	-	3	2	11	2	-
3007	-	1	2	1	-	1	-	1	12	2	1
3008	-	-	2	-	2	1	-	1	14	2	1
3009	-	-	2	-	2	1	-	1	15	2	1
3304	-	5	1	1	1	-	3	2	9	2	-
3305	-	-	1	-	1	-	3	2	11	2	-
3306	1	-	2	1	2	-	3	2	12	2	-

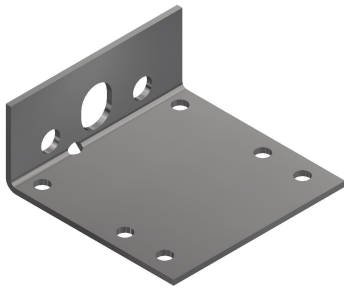
Table 38 WFS Parts Box Listing (Non-Common Parts) (continued)

Model	235941 BOLT HFS .375 x 1.0 GR8.2 - BAG 325	235943 BOLT HFS .375 x 1.0 GR8.2 - BAG 50	235944 BOLT HFS .375 x 1.25 GR8.2 - BAG 100	235950 HEX NUT .375 - BAG 300	235951 HEX NUT .375 - BAG 100	235954 HEX FLANGE NUT .375 GR5 - BAG 300	235955 HEX FLANGE NUT .375 GR5 - BAG 50	235957 FLAT WASHER .375 - BAG 75	193814 CAULKING - 40' ROLL	170445 CAULKING - 300 ml TUBE	235956 FLAT WASHER .375 - BAG 200
3307	1	-	2	2	-	1	-	1	14	2	1
3308	1	1	2	2	-	1	-	1	15	2	1
3309	1	2	2	2	1	1	-	1	16	2	1
3604	1	2	1	1	2	-	3	-	10	2	1
3605	-	3	1	1	-	-	3	-	12	2	1
3606	1	4	2	2	1	-	3	-	13	2	1
3607	2	-	2	3	-	1	-	2	15	2	1
3608	-	1	2	1	-	1	-	2	16	2	1
3609	-	3	2	1	1	1	-	2	18	2	1
3905	1	1	1	1	2	1	-	1	12	-	1
3906	1	3	2	2	1	1	1	2	14	2	1
3907	2	-	2	3	-	1	1	2	16	2	1
3908	-	2	2	1	-	1	1	2	17	2	1
3909	1	-	2	1	2	1	1	2	19	2	1
4204	-	-	1	-	1	1	-	-	12	2	1
4205	1	4	1	2	1	1	-	-	13	2	1
4206	-	-	2	-	2	1	1	2	15	2	1
4207	-	5	2	1	2	1	1	2	17	2	1
4208	1	4	2	2	1	1	1	2	19	2	1
4209	-	1	2	1	-	1	1	2	20	2	1
4504	-	4	1	1	-	1	-	-	12	2	1
4505	-	1	1	-	2	1	-	-	14	2	1
4506	-	5	2	1	2	1	2	-	16	2	2
4507	1	5	2	2	2	1	2	-	18	2	2
4508	-	4	2	1	1	1	2	-	20	2	2
4509	1	4	2	2	2	1	2	-	22	2	2
4804	1	-	1	1	2	1	-	1	13	2	1
4805	-	4	1	1	-	1	-	1	15	2	1
4806	1	4	2	2	2	1	2	-	17	2	2
4807	-	4	2	1	1	1	2	-	19	2	2
4808	2	-	2	2	2	1	2	-	21	2	2
4809	1	-	2	1	2	1	2	-	23	2	2
5104	1	4	1	2	-	1	-	1	14	2	1
5105	1	-	2	2	-	1	-	1	16	2	1
5106	-	2	2	1	-	1	3	1	18	2	2
5107	1	4	2	2	2	1	3	1	20	2	2
5108	1	-	2	1	2	1	3	1	22	2	2
5109	-	1	2	1	-	1	3	1	25	2	2

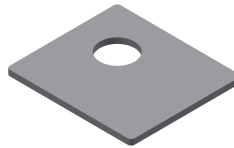
Table 39. EFS Parts Box Listing (Non-Common Parts)

MODEL	235941 BOLT HFS .375 x 1.0 GR8.2 - BAG 325	235943 BOLT HFS .375 x 1.0 GR8.2 - BAG 50	235946 BOLT HFS .375 x 1.5 GR8.2 - BAG 100	235935 BOLT HFS .375 x 1.5 GR8.2 - BAG 55	235950 HEX NUT .375 - BAG 300	235951 HEX NUT .375 - BAG 100	235956 FLAT WASHER .375 - BAG 200	235957 FLAT WASHER .375 - BAG 75	193814 CAULKING - 40' ROLL	170445 CAULKING - 300 ml TUBE
1502	1	-	1	-	1	1	-	1	3	5
1503	1	3	1	-	2	-	-	1	4	5
1504	2	-	1	-	2	2	-	1	4	5
1505	2	3	1	-	3	-	-	1	5	5
1506	3	-	1	-	3	2	-	1	6	5
1507	3	5	1	1	4	2	-	2	6	5
1605	3	-	1	-	3	2	-	1	5	5
1606	3	3	1	-	4	1	-	1	6	5
1802	1	-	1	-	1	2	-	1	4	6
1803	1	5	1	-	2	1	-	1	4	6
1804	2	2	1	-	3	-	-	1	5	6
1805	3	-	1	-	3	2	-	1	6	6
1806	3	4	1	-	4	1	-	1	7	6
1807	4	4	1	1	5	2	-	2	7	6
1808	6	-	1	1	7	-	-	2	8	6
2103	2	-	1	-	2	2	-	2	5	7
2104	2	5	1	-	3	1	-	2	6	7
2105	3	4	1	-	4	1	-	2	7	7
2106	4	2	1	-	5	-	-	2	8	7
2107	5	3	2	-	6	2	1	-	8	7
2108	7	4	2	-	9	-	1	-	9	7
2403	2	2	1	1	3	-	-	2	6	8
2404	3	2	1	1	4	-	-	2	7	8
2405	4	1	1	1	5	-	-	2	8	8
2406	5	-	1	1	5	2	-	2	9	8
2407	6	2	2	1	7	2	1	-	10	8
2408	8	-	2	1	9	1	1	-	11	8
2703	2	2	1	1	3	1	-	2	7	9
2704	3	2	1	1	4	1	-	2	8	9
2705	4	2	1	1	5	1	-	2	9	9
2706	5	2	1	1	6	1	-	2	10	9
2707	7	-	2	1	8	2	1	1	11	9
2708	8	5	2	1	10	2	1	1	12	9
2709	11	4	2	1	13	2	1	1	13	9
3007	1	2	2	1	2	1	1	1	12	10
3008	1	2	2	1	2	1	1	1	13	10
3009	1	1	2	1	2	1	1	1	14	10

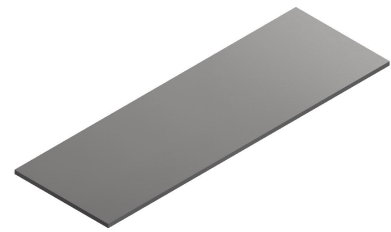
7.3. Parts Identification (Bin) - Parts Box



232735 – Anchor Bracket



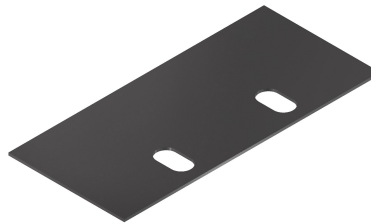
235372 – Bottom Angle Sealing Clip



236583 – SSK Shim (6" x 2")

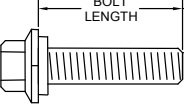


194120 - Grain Gauge



236595 – Shim 7.5 x 3.4 for "F" Profile

7.4. Bin Hardware

	3/8" x 1" Flanged Hex Bolt (Washer)	3/8" x 1" Round Head Bolt	3/8" x 1-1/2" Flanged Hex Bolt (Washer)	3/8" Flanged Lock Nut	3/8" Hex Nut	3/8" Wingnut	3/8" Flat Washer
	232850 (700) 235941 (325) 235943 (50)	150594	235946 (100) 235935 (55) 193797	235954 (300) 235955 (50)	232850 (700) 235950 (300) 235951 (100) 193805	154208	235956 (200) 235957 (75)
WALL SHEET to WALL SHEET	•				•		
WALL SHEET to BOTTOM RING ANGLE	•			•			•
DRYING FLOOR FLASHING HOLES in BOTTOM WALL SHEET	•				•		
WALL SHEET to DOOR			•		•		
DOOR TIE-BACK to WALL SHEET	•				•		
AUGER CHUTE HOOD to AUGER DOOR BOARD		•			•		
AUGER CHUTE BLOCK-OFF PLATE to AUGER DOOR BOARD			•		•	•	
BIN WALL to HOPPER ASSEMBLY			•		•		•

7.5. Recommended Bolt Assembly

When tightening bolts, tighten the nut on the bolt until a “snug-tightened condition” has been achieved. A “snug-tightened condition” is defined in *Specification for Structural Joints Using ASTM A325 or A490 Bolts* (Research Council on Structural Connections: June 2004), which states:








“The snug-tightened condition is the tightness that is attained with a few impacts of an impact wrench or the full effort of an ironworker using an ordinary spud wrench to bring the connected plies into firm contact.”

A properly tightened bolt will compress the sealing washer noticeably. All assembly crew members must be made aware of this requirement, and must know how to achieve a snug-tightened condition using common bin-building tools.

It is important that the bolts in the vertical wall sheet seams are tightened enough to squeeze the caulking and bring the wall sheet surfaces into firm contact with each other. This is especially important to monitor when installing bolts in temperatures approaching -10°C (14°F).

The following table shows the minimum impact gun torque capacity necessary to achieve a snug-tightened condition for bolts used in the assembly process.

Table 40. Recommended Impact Gun Torque Values Capacity to Achieve Snug-Tightened Bolts

Bolt Diameter	Bolt Grade	Grade Mark	Recommended Torque Capacity		
			in-lb	ft-lb	N-m
1/4"	Grade 8.2		75	6	8
5/16"	Grade 8.2		215	18	24
3/8"	Grade 8.2		370	31	42
7/16"	Grade 8.2		600	50	68
1/2"	Grade 8.2		960	80	108
5/8"	Grade 8.2		1800	150	203
3/4"	Grade 5		3230	269	365

For proper sealing, do not overtighten the wall seam connections. Sealing is not critical on stiffener splice connections; these connections should be tightened securely to prevent loosening.

Hold the bolt head securely when tightening the nut to prevent damage to the sealing washer.

Important

Always tighten the nut, not the bolt.

Avoid bin assembly at temperatures below -10°C (14°F) if possible. Erection in low temperatures does not ensure strong, well sealed connections. Do not substitute bolts in place of those supplied by AGI.

Important

Do not substitute any other bolts/fasteners for those supplied by the **AGI** factory.

8. 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
Blower Heater	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 Indemnatee, any of Indemnatee'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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Please include the part number listed on the cover page in your message.