

## **VTDL C-Series Door**

**Models:**  
FOR 90–135 FT DIAMETER BINS

Installation and Operation Instructions

**PNEG-1983**

**Date: 10-31-14**



PNEG-1983

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**This manual should be used in conjunction with the standard bin construction manual and gauge sheet.**

**All information, illustrations, photos, and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.**

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# NOTES

# 1 Safety Precautions

## Topics Covered in this Chapter

- Safety Guidelines
- Cautionary Symbols
- Safety Decals
- Safety Sign-off Sheet

## Safety Guidelines

Safety guidelines are general-to-specific safety rules that must be respected at all times in the grain storage environment.

Our foremost concern is your safety and the safety of others associated with grain handling equipment. This manual is to help you understand safe operating procedures and some problems that can be encountered by the operator and other personnel.

As owner and/or operator, you are responsible to know what requirements, hazards, and precautions exist and inform all personnel associated with the equipment or in the area. Avoid any alterations to the equipment. It can produce a very dangerous situation, where **SERIOUS INJURY** or **DEATH** can occur.

This equipment shall be installed in accordance with the current installation codes and applicable regulations, which should be carefully followed in all cases. Authorities having jurisdiction must be consulted before installations are made.

You should consider the location of the bin site relative to power line locations or electrical transmission equipment. Contact your local power company to review your installation plan or for information concerning required equipment clearance. Clearance of portable equipment that can be taken to the bin site must also be reviewed and considered. Any electrical control equipment in contact with the bin must be properly grounded and installed in accordance with National Electric Code provisions and all local codes.

This product is intended for the use of grain storage only. Any other use is a misuse of the product.



***This product has sharp edges, which may cause serious injury. To avoid injury, handle sharp edges with caution and always use proper protective clothing and equipment.***

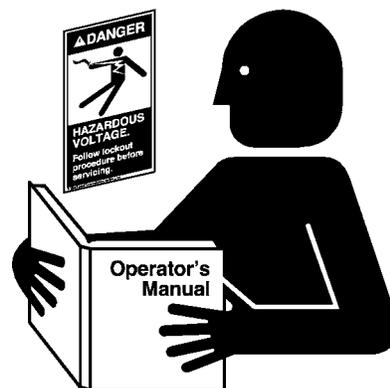
Sidewall bundles or sheets must be stored in a safe manner. The safest method of storing sidewall bundles is laying horizontally with the arch of the sheet upward, like a dome. Sidewall sheets stored on edge must be secured so that they cannot fall over and cause injury. Use care when handling and moving sidewall bundles.

Personnel operating or working around equipment must read this manual. This manual must be delivered with equipment to its owner. Failure to read this manual and its safety instructions is a misuse of the equipment.

## Chapter 1: Safety Precautions

### Follow Safety Instructions — Read and Understand Manual

- Carefully read all safety messages in this manual and safety signs on your machine. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.
- Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.
- Keep your machinery in proper working condition. Unauthorized modifications to the machine can impair the function and/or safety and affect machine life.
- If you do not understand any part of this manual or need assistance, contact your dealer.



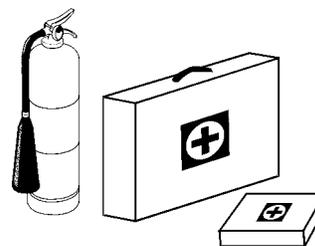
### Practice Safe Maintenance — Maintain Equipment and Work Area

- Understand service procedures before doing work. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is in operation. Keep hands, feet, and clothing away from rotating parts.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any built-up grease, oil, and debris.



### Prepare for Emergencies — Keep Emergency Equipment Accessible

- Be prepared if fire starts.
- Keep a first aid kit and fire extinguisher handy.
- Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



### Wear Protective Clothing

- Wear close-fitting clothing and safety equipment appropriate to the job.
- Remove all jewelry
- Tie long hair up and back.
- Wear safety glasses at all times to protect eyes from debris.

Eye Protection



<ul style="list-style-type: none"> <li>Wear gloves to protect your hands from sharp edges on plastic or steel parts.</li> </ul>	Gloves	
<ul style="list-style-type: none"> <li>Wear steel-toed boots to help protect your feet from falling debris. Tuck in any loose or dangling shoestrings.</li> </ul>	Steel-Toed Boots	
<ul style="list-style-type: none"> <li>A respirator may be needed to prevent breathing potentially toxic fumes and dust.</li> </ul>	Respirator	
<ul style="list-style-type: none"> <li>Wear a hard hat to help protect your head.</li> </ul>	Hard Hat	
<ul style="list-style-type: none"> <li>Wear appropriate fall protection equipment when working at elevations greater than 6 ft (1.8 m).</li> </ul>	Fall Protection	

## Cautionary Symbols

Cautionary symbols appear in the various decals of your product, and alerts the user of potential or imminent risk of danger.

This manual contains information that is important for you, the owner/operator, to know and understand. This information relates to protecting **personal safety** and **preventing equipment problems**.

It is the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of these safety guidelines. To help you recognize this information, we use the symbols that are defined below. Please read the manual and pay attention to these sections. Failure to read this manual and its safety instructions is a misuse of the equipment and may lead to serious injury or death.



***Make sure to familiarize yourself with these symbols prior to installing, operating, or servicing your grain equipment. Failure to do so may lead to serious injury or death.***

Table 1-1 Description of the different cautionary symbols

Symbol	Description
	This symbol indicates an imminently hazardous situation which, if not avoided, <b>will result in serious injury or death</b> .
	This symbol indicates a potentially hazardous situation which, if not avoided, <b>may result in serious injury or death</b> .

## Chapter 1: Safety Precautions

Table 1-1 Description of the different cautionary symbols (cont'd.)

Symbol	Description
	This symbol indicates a potentially hazardous situation which, if not avoided, <b>may result in minor or moderate injury.</b>
	This symbol indicates a potentially hazardous situation which, if not avoided, <b>may result in property damage.</b>

### Safety Decals

The safety decals on your grain equipment are safety indicators which must be carefully read and understood by all personnel involved in the installation, operation, service, and maintenance of the grain equipment.

The manufacturer does not warrant any roof damage caused by excessive vacuum or internal pressure from fans or other air moving systems. Adequate ventilation and/or “makeup air” devices should be provided for all powered air handling systems. The manufacturer does not recommend the use of downward flow systems (suction). Severe roof damage can result from any blockage of air passages. Running fans during high humidity and cold weather conditions can cause air exhaust or intake ports to freeze.



**ATTENTION:** Decal shown below must be present on the outside of the door cover of the two ring, 24 in. (61 cm) porthole door cover and the roof manway cover. If a decal has been damaged or is missing in any of these locations, contact the manufacturer for a free replacement decal.

**GSI Decals**

1004 E. Illinois Street  
Assumption, IL 62510  
Phone: 1-217-226-4421



## Chapter 1: Safety Precautions

**ATTENTION:** Decal shown below must be present on the outside of the door cover of the two ring, 24 in. (61 cm) porthole door cover and the roof manway cover. If a decal has been damaged or is missing in any of these locations, contact the manufacturer for a free replacement decal.

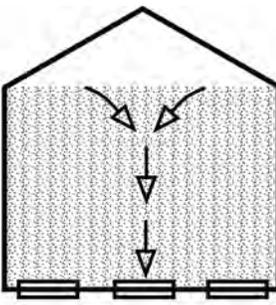
### GSI Decals

1004 E. Illinois Street  
Assumption, IL 62510  
Phone: 1-217-226-4421



# WARNING





**UNLOADING INSTRUCTIONS:**

1. Use **CENTER FLOOR OUTLET ONLY** until **NO** grain remains above this outlet.
2. Side floor outlets to be used **ONLY** when above condition is satisfied.
3. Lock all side floor outlets to avoid accidental premature use.
4. See manufacturers instructions for proper use of factory supplied sidedraw (wall) discharge systems.

**Failure to heed these warnings  
could result in serious injury, death,  
structural damage or collapse of tank.**

GSI GROUP, INC. 217-226-4421DC-GBC-2A



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# NOTES

# 2 General Information

## Topics Covered in this Chapter

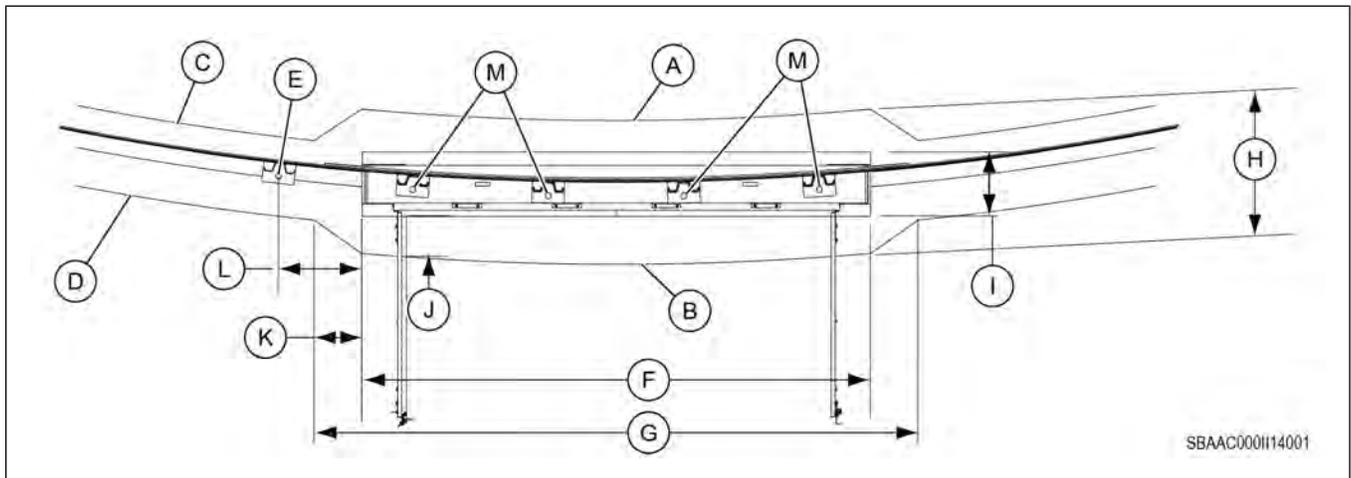
- VTDL Door Foundations
- Recommended Tools
- Sidewall Layout for Door Installation

## VTDL Door Foundations

VTDL doors will require special foundation requirements and aeration floor systems. Refer to the below figures for special dimensions of the foundation to provide proper foundation area for the installation of VTDL doors in externally stiffened tanks. These specifications reference the general foundation recommendations of the Grain Systems Concrete Manual PNEG-318 for standard wall radii. The specific wall radii for the standard portion of the foundation will be based on the actual foundation design (by others) for the specific site.

All foundation specifications shall be construed as recommendations only. Because of the many variable conditions in actual installation, Grain Systems assumes no liability for results arising from the use of such recommendations. Please contact the GSI Grain Bin Engineering Department if there are any specific questions about the concrete requirements for a VTDL.

**Figure 2-1** Concrete Details



**Table 2-1** For 90 ft Diameter Bins

A	Inner wall radius (R520.0 in.)	H	40 in.
B	Outer wall radius (R558.0 in.)	I	18 in.
C	Standard inner wall radius (R532.0 in.)	J	10.25 in. (Ref)
D	Standard outer wall radius (R550.0 in.)	K	13 in. (Ref)
E	Standard anchor bolt radius (R541.938 in.)	L	23.375 in. (Ref)
F	Threshold length (141.5 in.)	M	Skip 4 anchor bolts at door location
G	168.0 in.		

## Chapter 2: General Information

**Table 2-2 For 105 ft Diameter Bins**

A	Inner wall radius (R609.0 in.)	H	40 in.
B	Outer wall radius (R647.0 in.)	I	18 in.
C	Standard inner wall radius (R621.0 in.)	J	10.25 in. (Ref)
D	Standard outer wall radius (R639.0 in.)	K	13.5 in. (Ref)
E	Standard anchor bolt radius (R631.375 in.)	L	23.375 in. (Ref)
F	Threshold length (141.5 in.)	M	Skip 4 anchor bolts at door location
G	168 in.		

**Table 2-3 For 135 ft Diameter Bins**

A	Inner wall radius (R789.0 in.)	H	40 in.
B	Outer wall radius (R829.0 in.)	I	18 in.
C	Standard inner wall radius (R799.0 in.)	J	10.25 in. (Ref)
D	Standard outer wall radius (R821.0 in.)	K	13.5 in. (Ref)
E	Standard anchor bolt radius (R810.5 in.)	L	23.25 in. (Ref)
F	Threshold length (141.5 in.)	M	Skip 4 anchor bolts at door location
G	168 in.		

## Recommended Tools

The following tools are recommended for the installation of the VTDL C Series door assembly.

- Sockets and wrenches including 9/16 in., 5/8 in., 1-1/4 in., 1-1/2 in. sizes. A 2 in. socket and wrench will be required for operation.
  - Tele-handler, crane or similar piece of equipment to lift and install the door assembly.
- NOTE:** *Total weight of the door assembly is approximately 10000 lb.*
- Welder
  - Plasma cutter, torch or similar tool for cutting base plates
  - Concrete drill and related equipment for installing 3/4" adhesive anchors (related equipment)
  - 1/2 in. and 7/16 in. reamer bits
  - Drift pins and/or pry bars

**NOTE:** *This manual should be used in conjunction with the standard bin construction manual.*

## Sidewall Layout for Door Installation

Use the following procedure to install the special sidewall sheets that are required for the VTDL C series door installation.

### Before You Begin

Prior to door installation, tank should be fully erected and anchored.

### What You Should Know

The VTDL C series door is to be installed in the bottom 4 rings of the tank. Adequate provisions should be made for door installation. Also some welding will be necessary.

1. The door must be placed near an intermediate discharge well such that grain will clear away from the door panels when tank is emptied.
2. Erect the storage bin as normal till the fifth ring from bottom is installed.

**NOTE:** *The orientation of the fifth ring sidewall sheets should match the sidewall layout shown in the figure.*

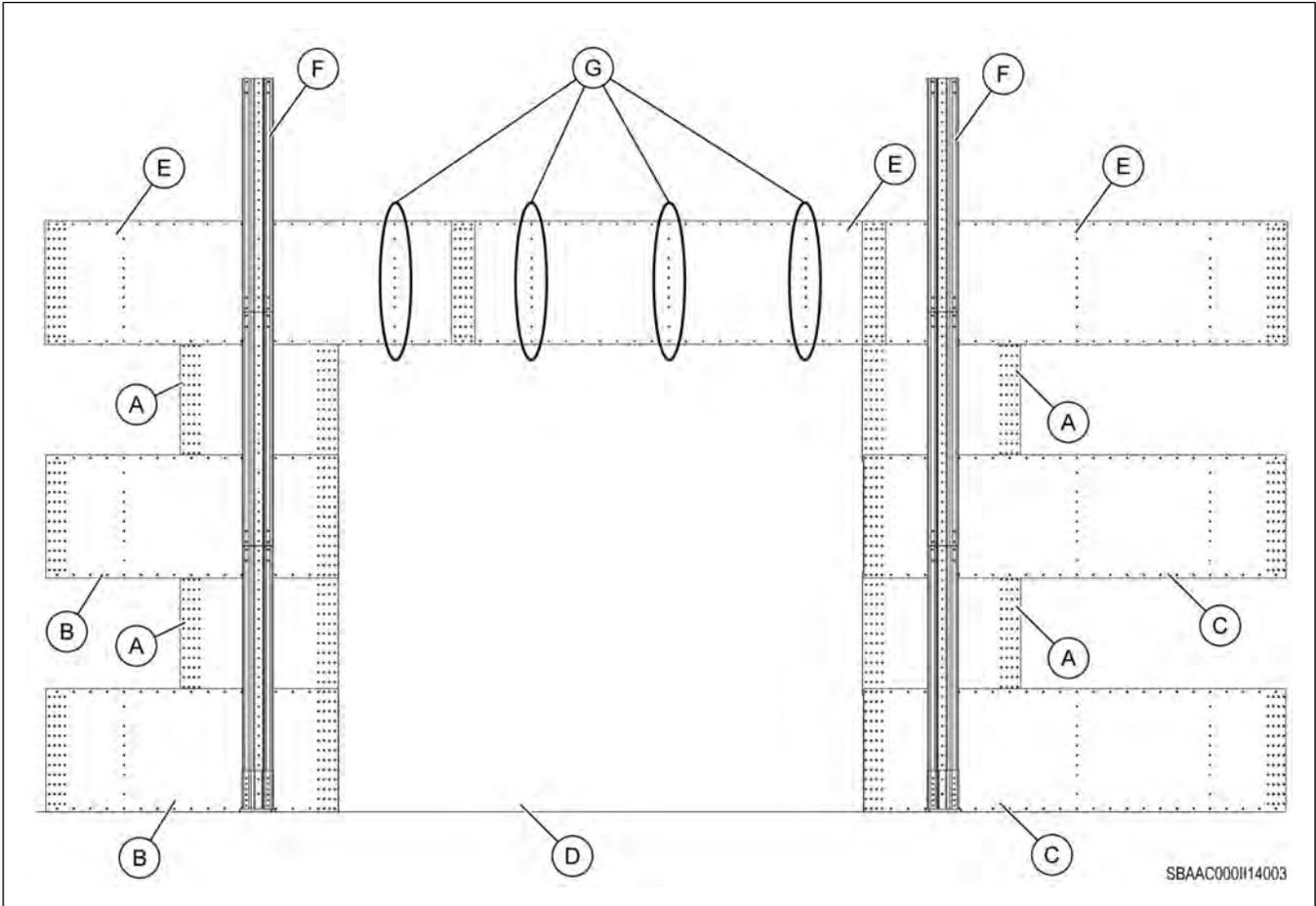
3. At the door location, install the special sidewall sheets as shown.
4. Use two non-laminated sidewall sheets (minimum 10 gauge) per ring, without caulk, between the special sidewall sheets to complete the storage bin erection.

**NOTE:** *Use only the horizontal seam bolts to install the filler sidewall sheets. The filler sidewall sheets are used to keep the storage bin round until fully erected.*

5. Continue installing the sidewall as normal except for installing the special door sheets and temporary sheets.
6. Do not install the four stiffeners at the door installation location. Standard base stiffener weldments will be used in these locations after door frame is completely installed.
7. Anchor the storage bin securely to the foundation before installing the door.
8. When the storage bin is properly anchored, remove the filler sheets. Make sure that the special sidewall sheets are installed as shown.

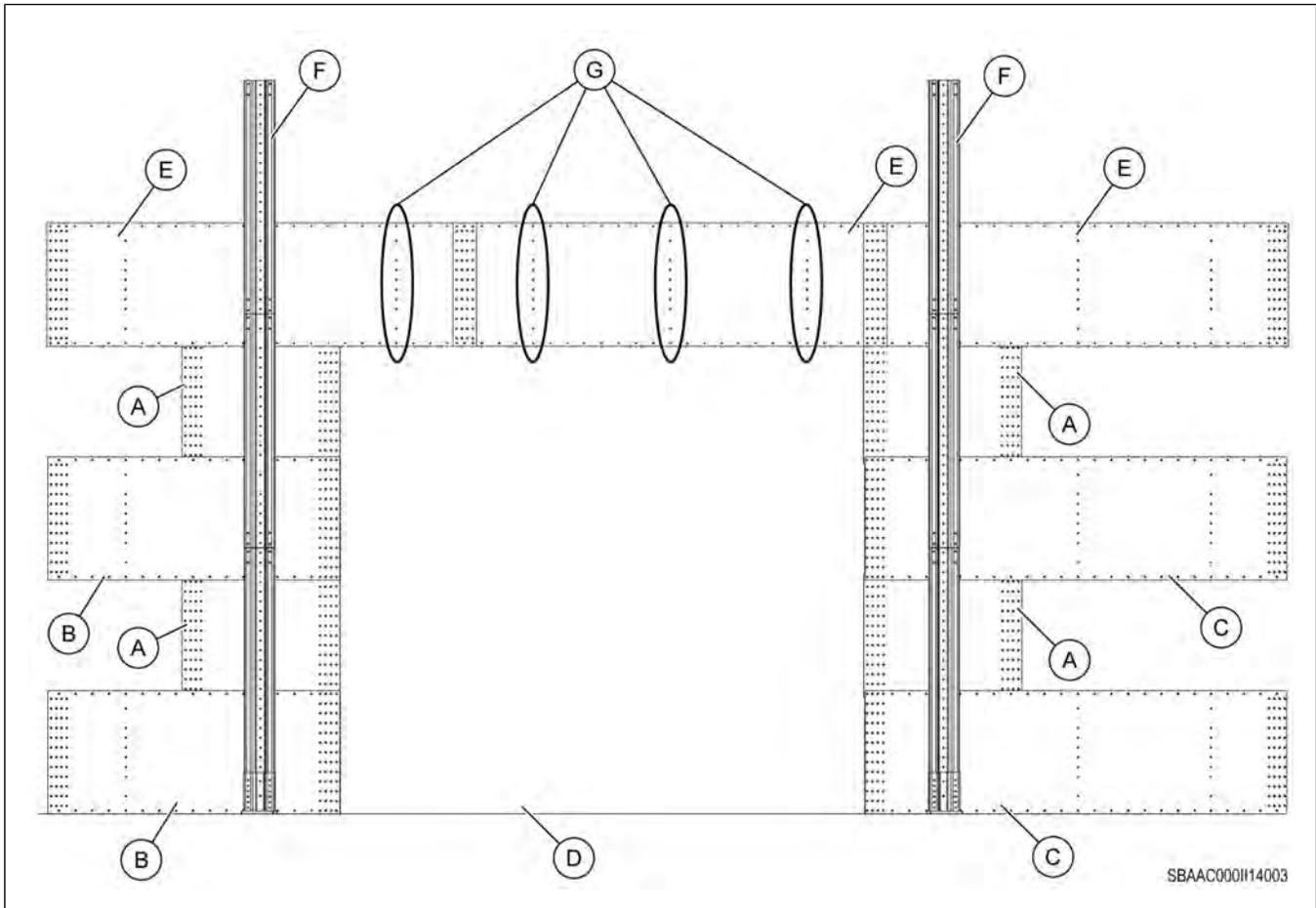
## Chapter 2: General Information

Figure 2-2 Sidewall Layout for 90 ft. Storage Bins



A	Short laminated special sidewall sheet (SO7231)	E	Standard sidewall sheets in fifth ring
B	Long left laminated special sidewall sheet (SO7334)	F	Stiffener (on each side of the door)
C	Long right laminated special sidewall sheet (SO7232)	G	Standard base stiffeners to be installed after door installation
D	Filler sidewall sheets		

Figure 2-3 Sidewall Layout for 105 ft. Storage Bins



A	Short laminated special sidewall sheet (SO7231)	E	Standard sidewall sheets in fifth ring
B	Long left laminated special sidewall sheet (SO7334)	F	Stiffener (on each side of the door)
C	Long right laminated special sidewall sheet (SO7232)	G	Standard base stiffeners to be installed after door installation
D	Filler sidewall sheets		

## Chapter 2: General Information

Figure 2-4 Sidewall Layout for 135 ft. Storage Bins

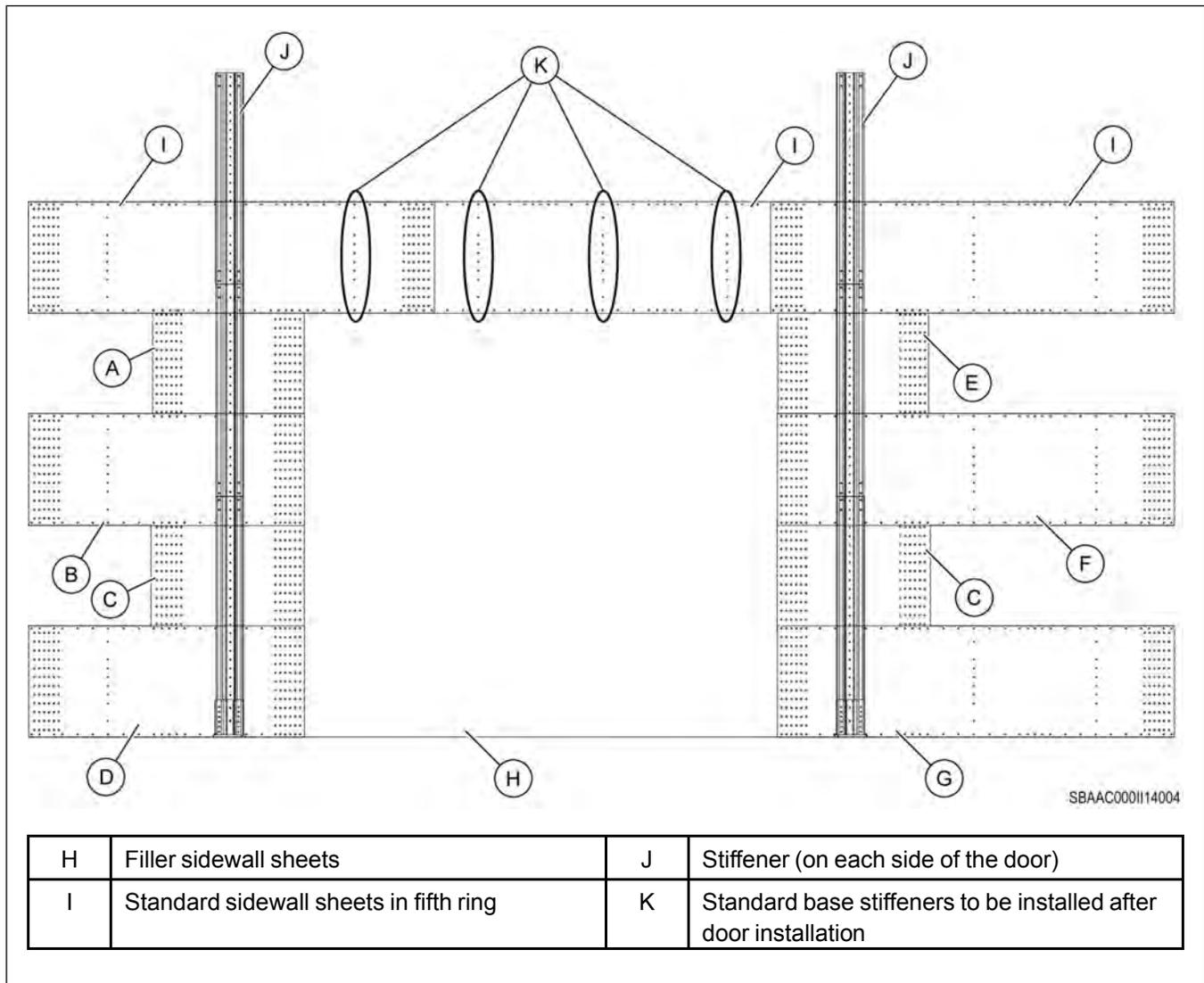


Table 2-4 2.66 in. Commercial 135 ft.-24 through 34 rings special sheet utilization

Sheet Designation	Sheet Part Number	Sheet Length	Sheet Punch Pattern	Color Code (6 gauge)
A	SO741806135	46-1/2 in.	Fig/Fig	White/Gold/Ochre/Blue
B	SO742006135	84 in.	Fig/Fig	White/Ochre/Black
C	SO742206135	46-1/2 in.	Fig/Fig	White/Gold/Ochre/Yellow
D	SO742006135	84 in.	Fig/Fig	White/Ochre/Black
E	SO741906135	46-1/2 in.	Fig/Fig	White/Ochre/Red
F	SO742106135	121-1/2 in.	Fig/Fig	White/Ochre/Purple
G	SO742106135	121-1/2 in.	Fig/Fig	White/Ochre/Purple

**Table 2-5** 2.66 in. Commercial 135 ft.-23 rings special sheet utilization

Sheet Designation	Sheet Part Number	Sheet Length	Sheet Punch Pattern	Color Code (6 gauge)
A	SO750206135	44-1/4 in.	Quad/Fig	White/Gold/Ochre/Blue
B	SO742006135	84 in.	Fig/Fig	White/Ochre/Black
C	SO742206135	46-1/2 in.	Fig/Fig	White/Gold/Ochre/Yellow
D	SO742006135	84 in.	Fig/Fig	White/Ochre/Black
E	SO750306135	44-1/4 in.	Quad/Fig	White/Ochre/Red
F	SO742106135	121-1/2 in.	Fig/Fig	White/Ochre/Purple
G	SO742106135	121-1/2 in.	Fig/Fig	White/Ochre/Purple

**Table 2-6** 2.66 in. Commercial 135 ft.-22 rings special sheet utilization

Sheet Designation	Sheet Part Number	Sheet Length	Sheet Punch Pattern	Color Code (6 gauge)
A	SO750206135	44-1/4 in.	Quad/Fig	White/Gold/Ochre/Blue
B	SO750406135	81-3/4 in.	Quad/Fig	White/Ochre/Black
C	SO742206135	46-1/2 in.	Fig/Fig	White/Gold/Ochre/Yellow
D	SO742006135	84 in.	Fig/Fig	White/Ochre/Black
E	SO750306135	44-1/4 in.	Quad/Fig	White/Ochre/Red
F	SO750506135	119-1/4 in.	Quad/Fig	White/Ochre/Purple
G	SO742106135	121-1/2 in.	Fig/Fig	White/Ochre/Purple

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# NOTES

# 3 Installation Instructions

## Topics Covered in this Chapter

- VTDL C Series Door Assembly Installation
- Base Stiffener Installation
- Outer Cover Assembly
- Outer Cover Installation

## VTDL C Series Door Assembly Installation

### Before You Begin

Use the following procedure to install the VTDL C series door assembly.

Make sure the special sidewall sheets are installed at the desired location where the door is to be installed. Also make sure the four stiffeners at the door location are not installed.

1. When the storage bin is erected completely and properly anchored, remove the filler sheets that are installed at the door location.
2. The door assembly may be previously placed on the inside of the bin. Using a tele-handler crane or similar equipment capable of lifting the door assembly, lift the door assembly into place. If the door assembly is outside the bin, some sidewall sheets may required to be removed.



***The door assembly is very heavy. Proper precautions should be followed to avoid damage to property and injury to personnel.***

3. Make sure the header seal strips, left and right column weldments are inside the sidewall and align the door assembly as shown.
4. Make sure the threshold weldment is level with the foundation.
5. Attach the door assembly to the sidewall sheets at the column weldment (vertical seam) using the bolts (C) and recessed nuts (D).

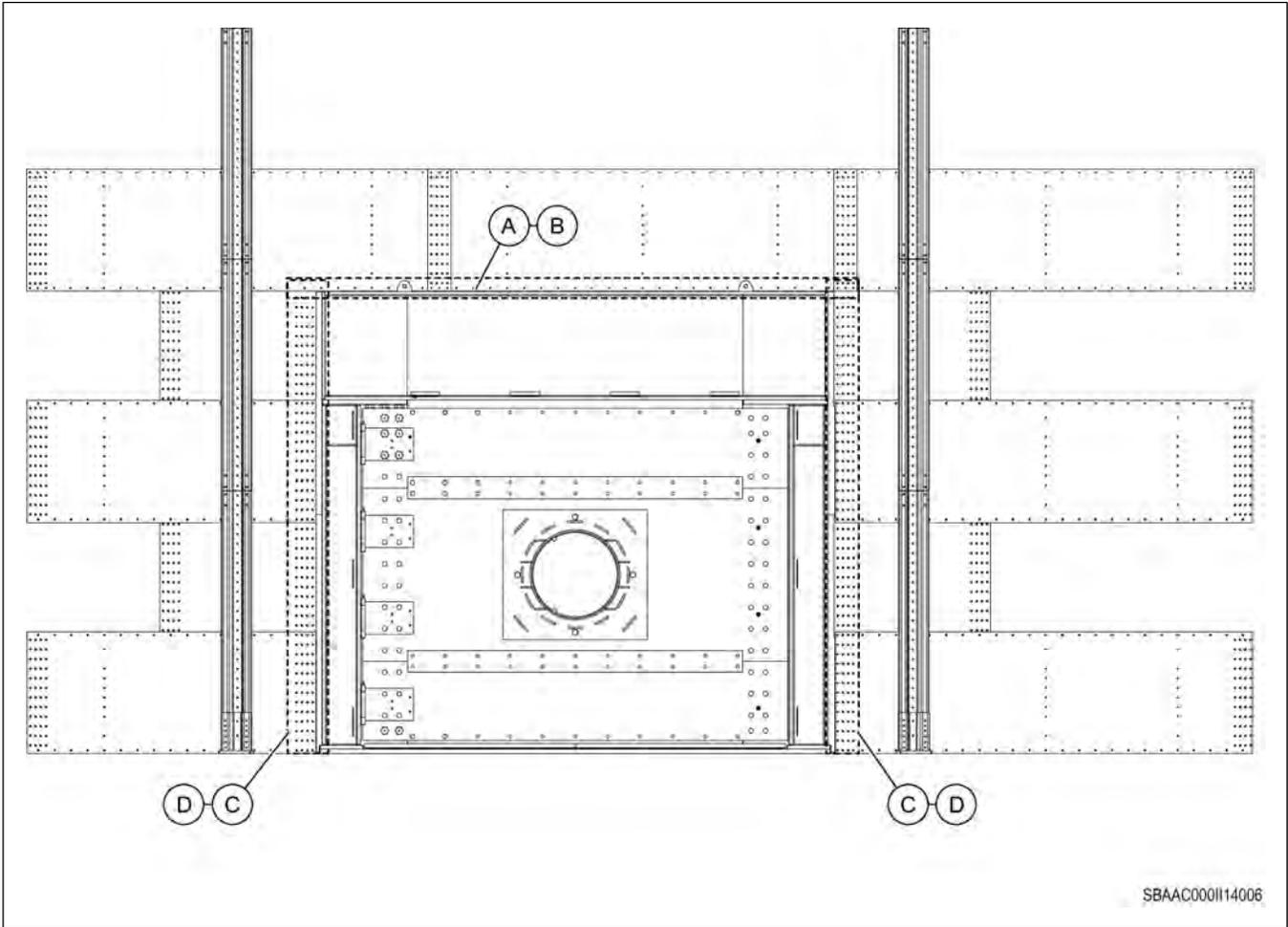
**NOTE:** *Make sure that the bolt heads with sealing washers are outside the bin.*

6. Field drill holes as required and attach the seal strip (atop of the header) to the fifth ring (horizontal seam) from the inside of the tank with bolts (A) and flange nuts (B).
7. The door assembly is anchored to the foundation at the threshold weldments with 3/4 in. epoxy type anchors or by field welding to tunnel girder.
8. Install the foam strip (CWT-0053) at the sidewall to column plate attachment. Caulk this area and all gaps around the door to seal the door to sidewall attachment. Caulk as necessary at the door panel to the frame weldments.

**NOTE:** *This manual should be used in conjunction with the standard bin construction manual.*

## Chapter 3: Installation Instructions

Figure 3-1 Door Assembly Installation



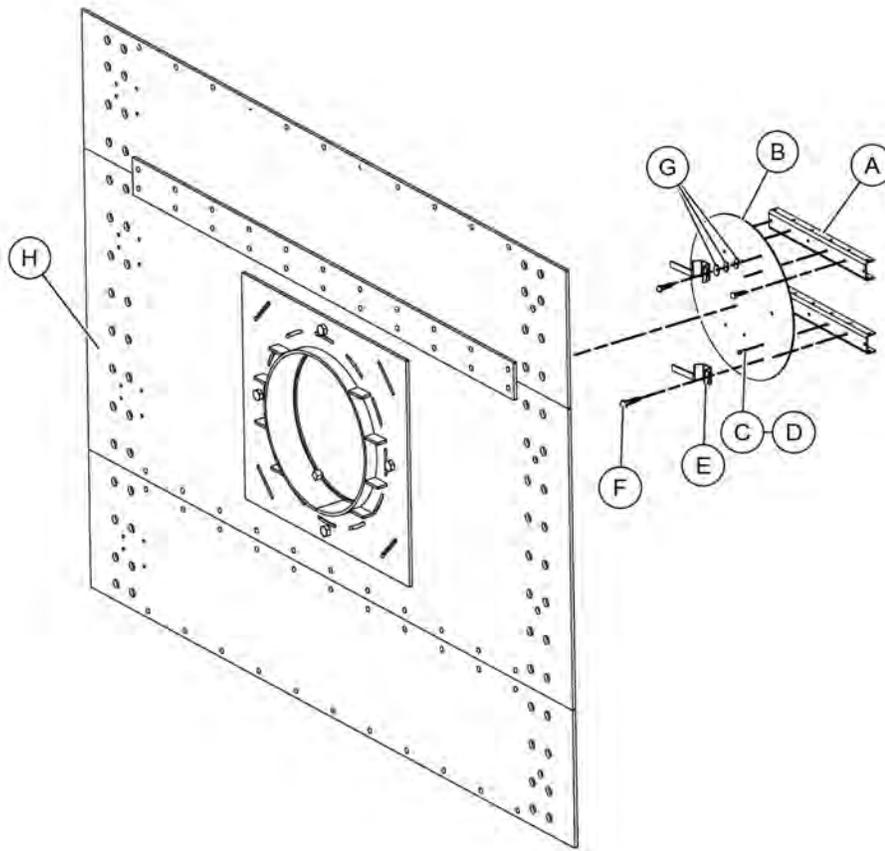
**Table 3-1** For 90 ft. and 105 ft. diameter bins

A	3/8 x 2 in. bolt (S-10165)	C	7/16 x 2-1/2 in. bolt (S-10134)
B	3/8 in. flange nut (S-9426)	D	7/16 in. recessed nut (S-8479)

**Table 3-2** For 135 ft. diameter bins

A	7/16 x 2 in. bolt (S-10328)	C	7/16 x 2-1/2 in. bolt (S-10134)
B	7/16 in. flange nut (S-10251)	D	7/16 in. recessed nut (S-8479)

Manway Cover Assembly



SBAAC0001114005

A	Inner door hinge (ACD-4549)	E	Inner door handle (ACD-4515)
B	Inner door (ACD-4548)	F	3/8 in. x 1-1/2 in. bolt
C	3/8 in. x 1 in. bolt	G	3/8 in. washers (as required)
D	3/8 in. nut	H	Door assembly

## Base Stiffener Installation

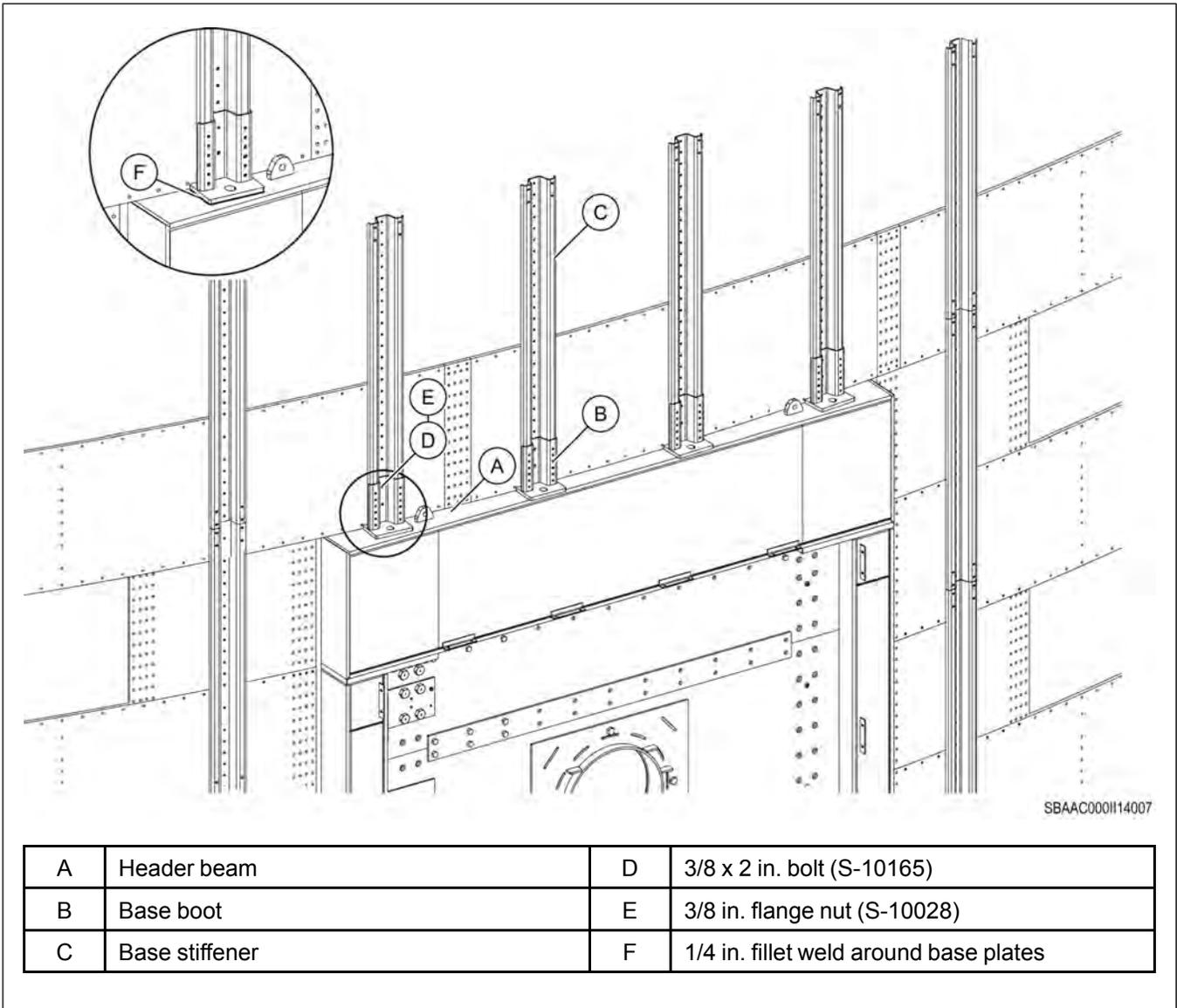
### What You Should Know

The four base stiffeners and base boots at the door location are installed only after the door assembly is installed on the storage bin.

1. Attach four standard base stiffener weldments above header beam as shown.
2. Attach the base boots to the base stiffeners and the sidewall sheets using bolts (D) and nuts (E).
3. Shim as necessary and field weld (1/4 in. fillet weld) the base boots and shims to the header beam. Clean, inspect and paint the welded portion.

**NOTE:** Base boots may have to be trimmed to align with header beam edges.

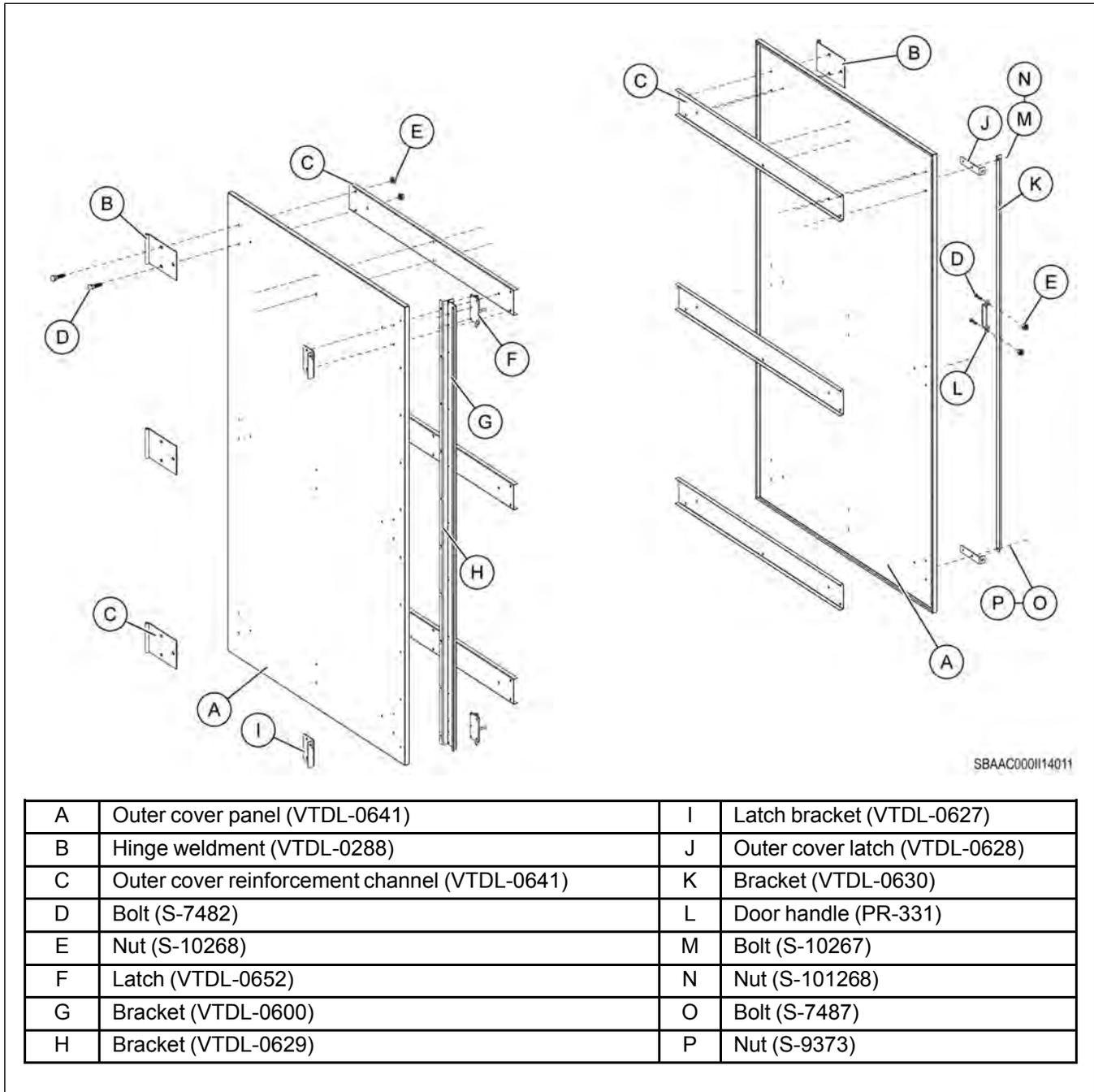
Figure 3-2 Base Stiffener Installation



## Outer Cover Assembly

1. Install the three outer cover hinge weldments (B) and outer cover reinforcement channels (C) to the outer cover panels (A) with the bolts (D) and nuts (E).
2. On the left hand side cover panel, install the latches (F), latch brackets (I), and brackets (G and H) to the outer cover panel (A) with the bolts (M and P) and nuts (N and O).
3. On the right hand side cover panel, install the outer cover latches (J), and bracket (K) to the outer cover panel (A) with the bolts (M and P) and nuts (N and O).
4. Install the door handle (L) on the bracket (K) with the bolts (D) and nuts (E).

Figure 3-3 Outer Cover Assembly

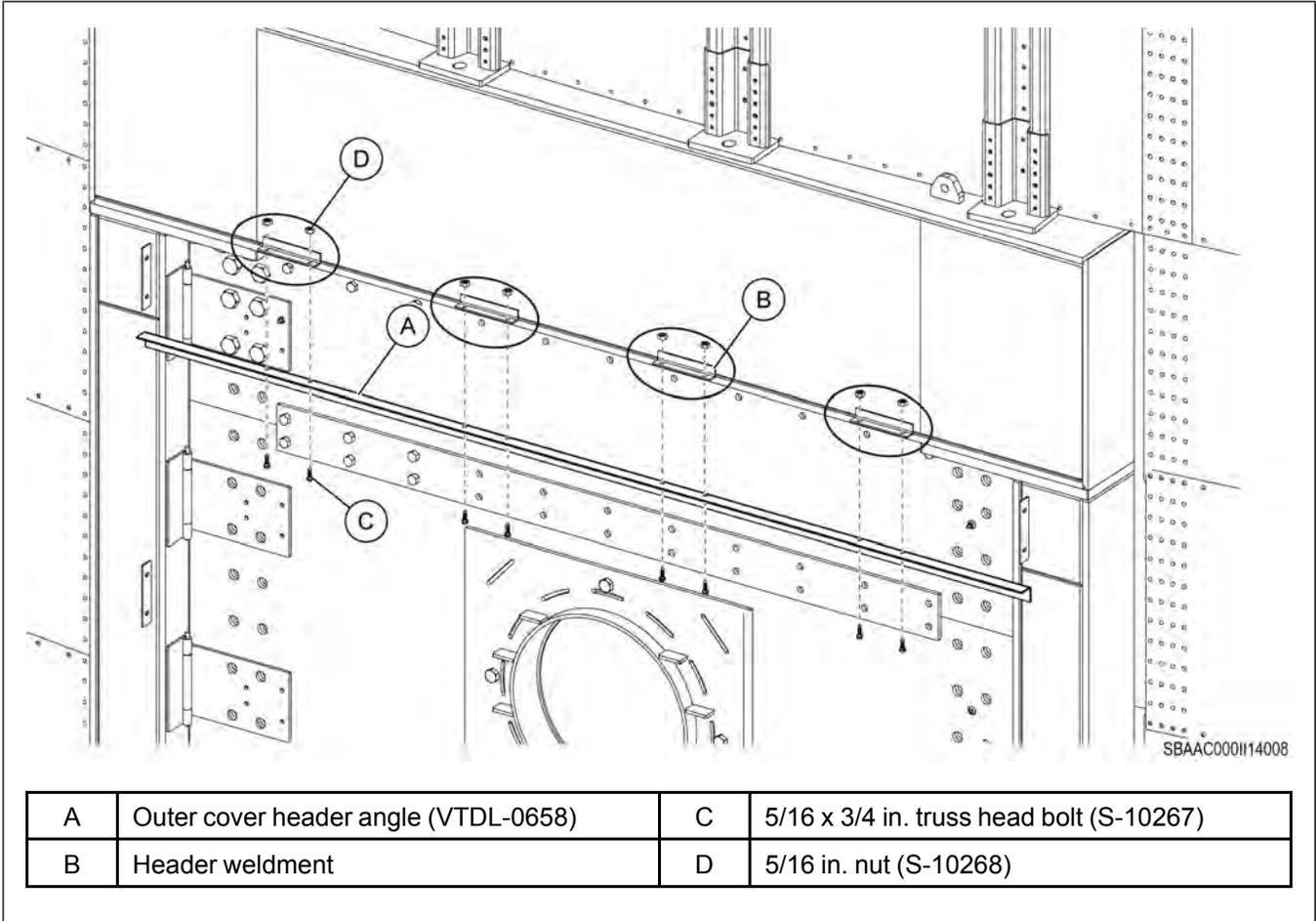


## Outer Cover Installation

Use the following procedure to install the outer cover assembly to the door assembly.

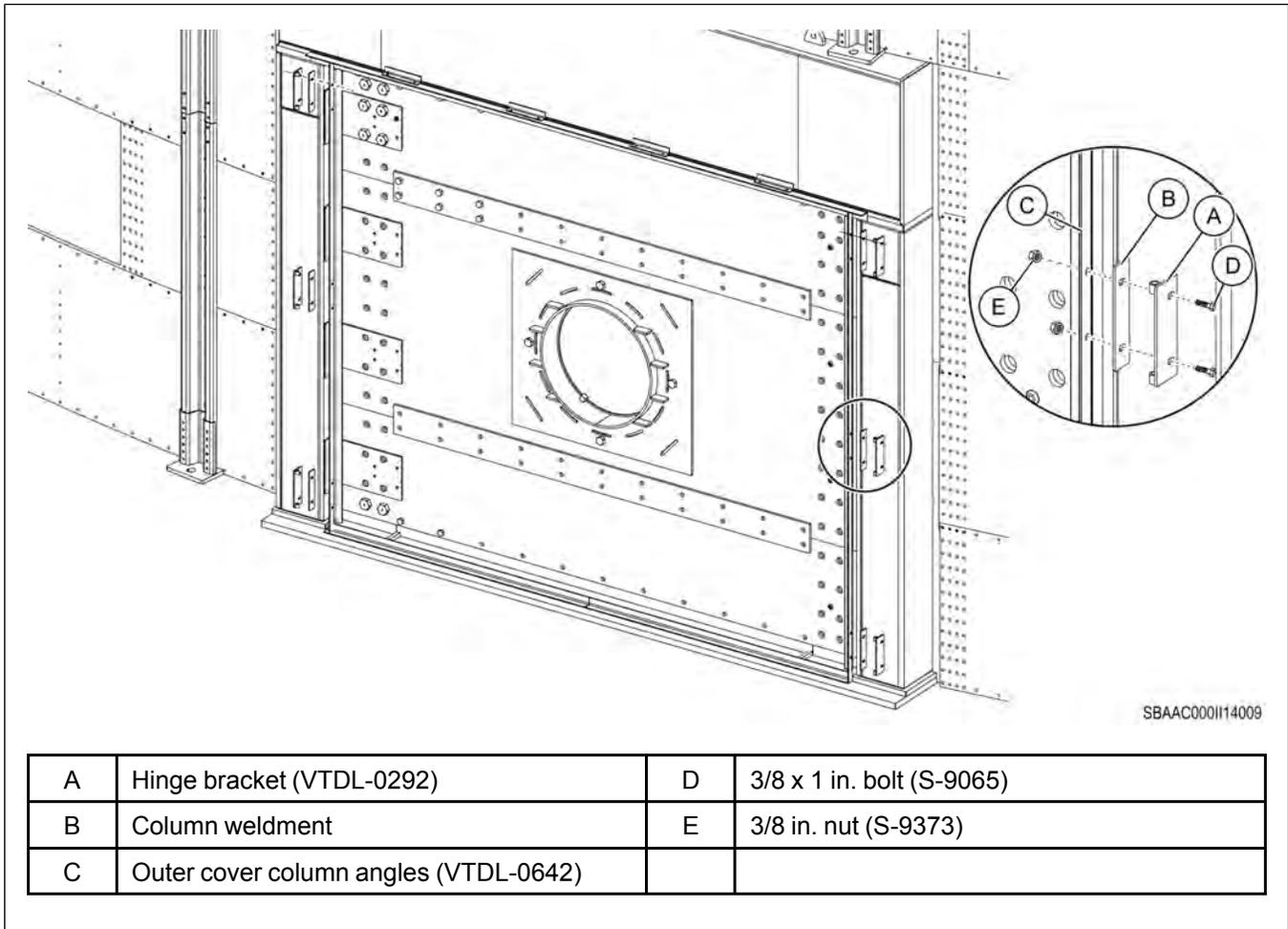
1. Install the outer cover header angle (A) to the header weldment (B) with bolts (C) and nuts (D) at four places as shown.

Figure 3-4 Outer Cover Header Angle Installation



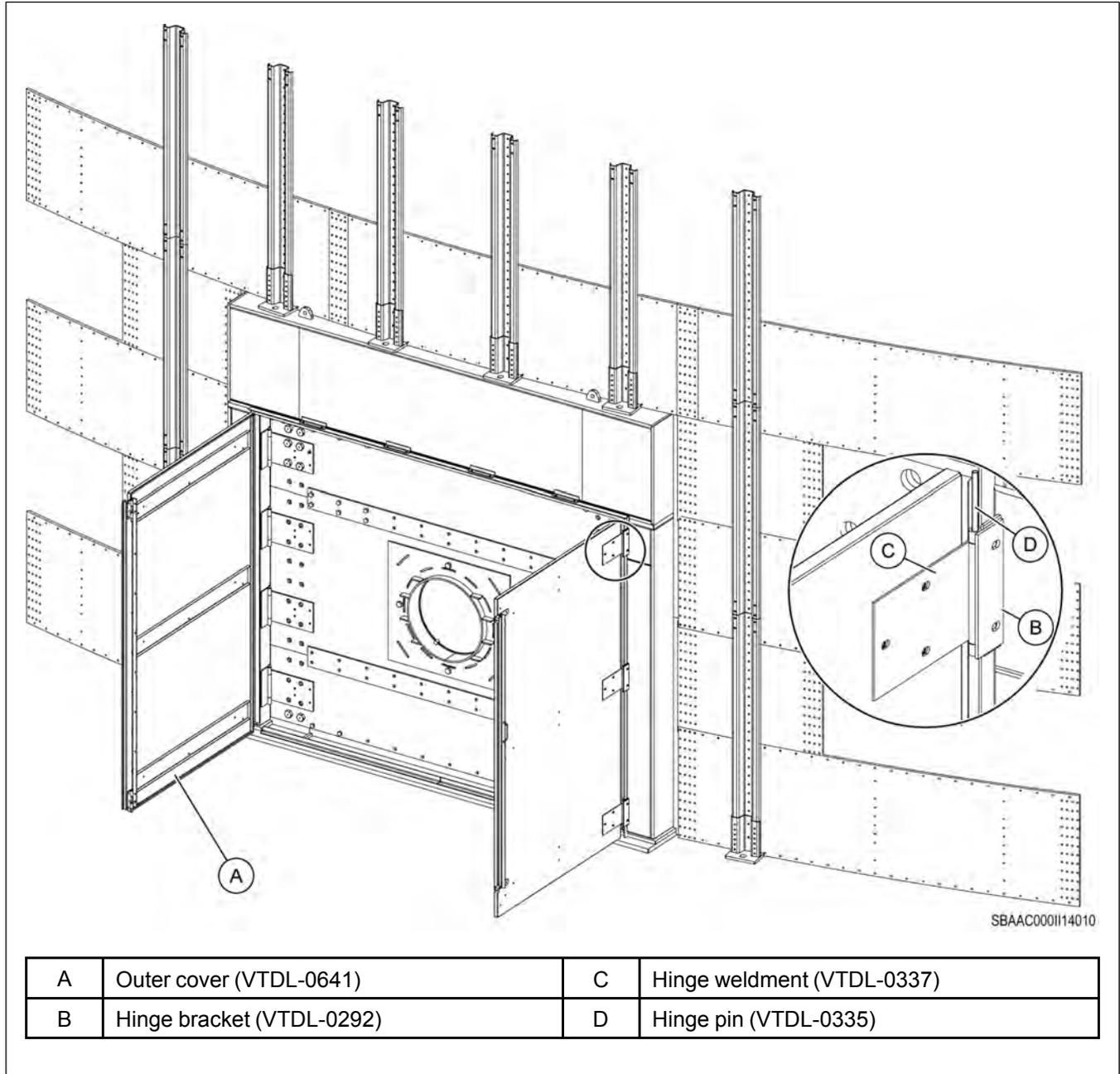
2. Install the outer cover hinge brackets (A) with the outer cover column angles (C) to the column weldments (B) with the bolts (D) and nuts (E) as shown.

Figure 3-5 Hinge Bracket Installation



3. Place the outer cover (A) in the door frame and align the hinge weldments (C) with the hinge bracket (B).
4. Insert hinge pins (D) through hinges and hold in place with washers and cotter pins.
5. Adjust door hinges and latches as necessary until door opens and closes smoothly.
6. Apply foam seal strip around perimeter of outer cover and caulk as necessary to seal outer cover.
7. Place decals DC-GBC-2A and DC-GBC-2S on the outer cover.

Figure 3-6 Outer Cover Installation



A	Outer cover (VTDL-0641)	C	Hinge weldment (VTDL-0337)
B	Hinge bracket (VTDL-0292)	D	Hinge pin (VTDL-0335)

# 4 Operational Instructions

## Topics Covered in this Chapter

- Operational Instructions

## Operational Instructions

1. Release the latch (B) from the latch bracket (C) and swing open the right hand side outer cover (A).
2. Release the top and bottom inner latches (D) to open the left hand side outer cover (A).
3. Remove the bolts (F) from the locations shown to open the door assembly (E).

Figure 4-1 Door Assembly Operation

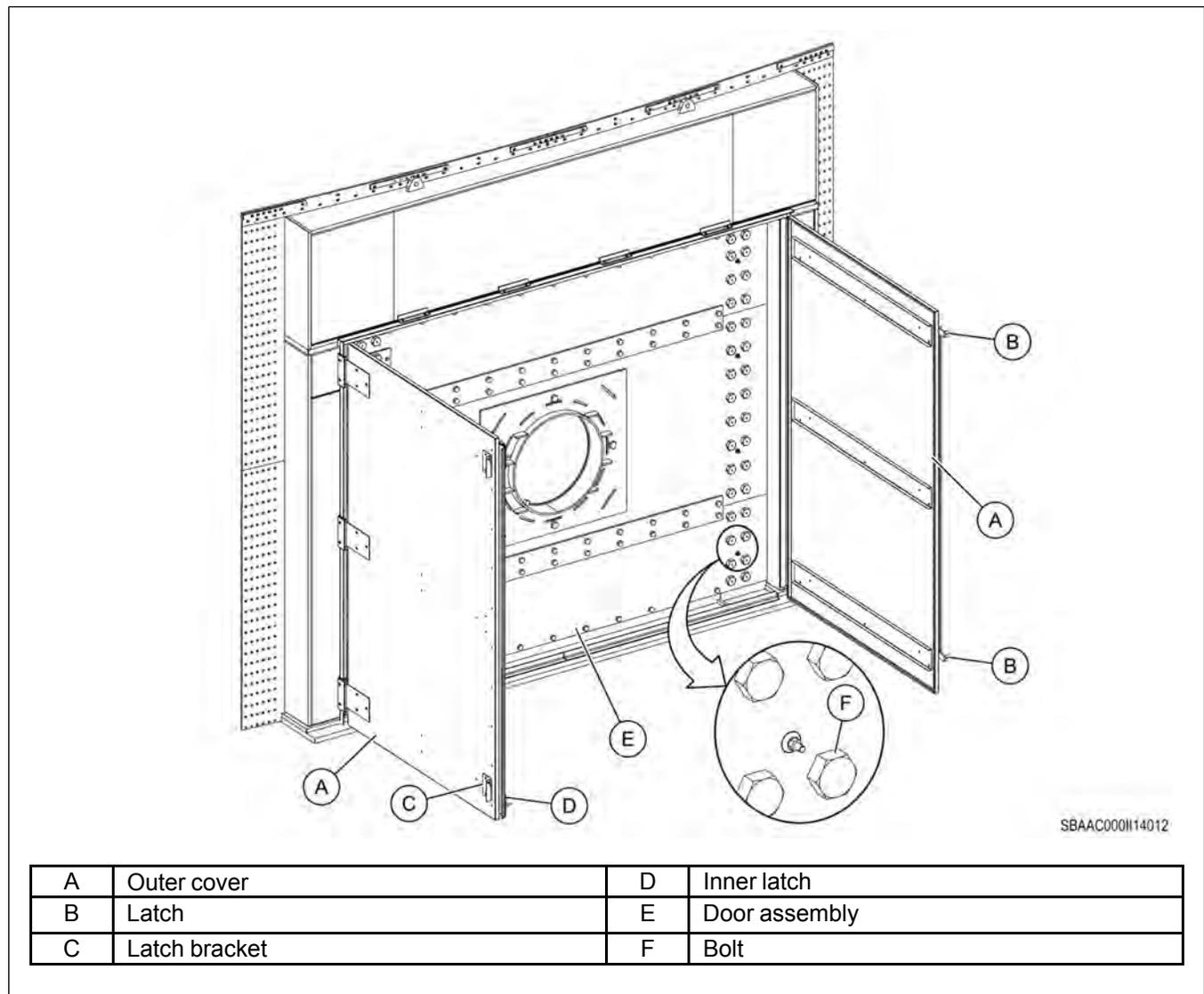
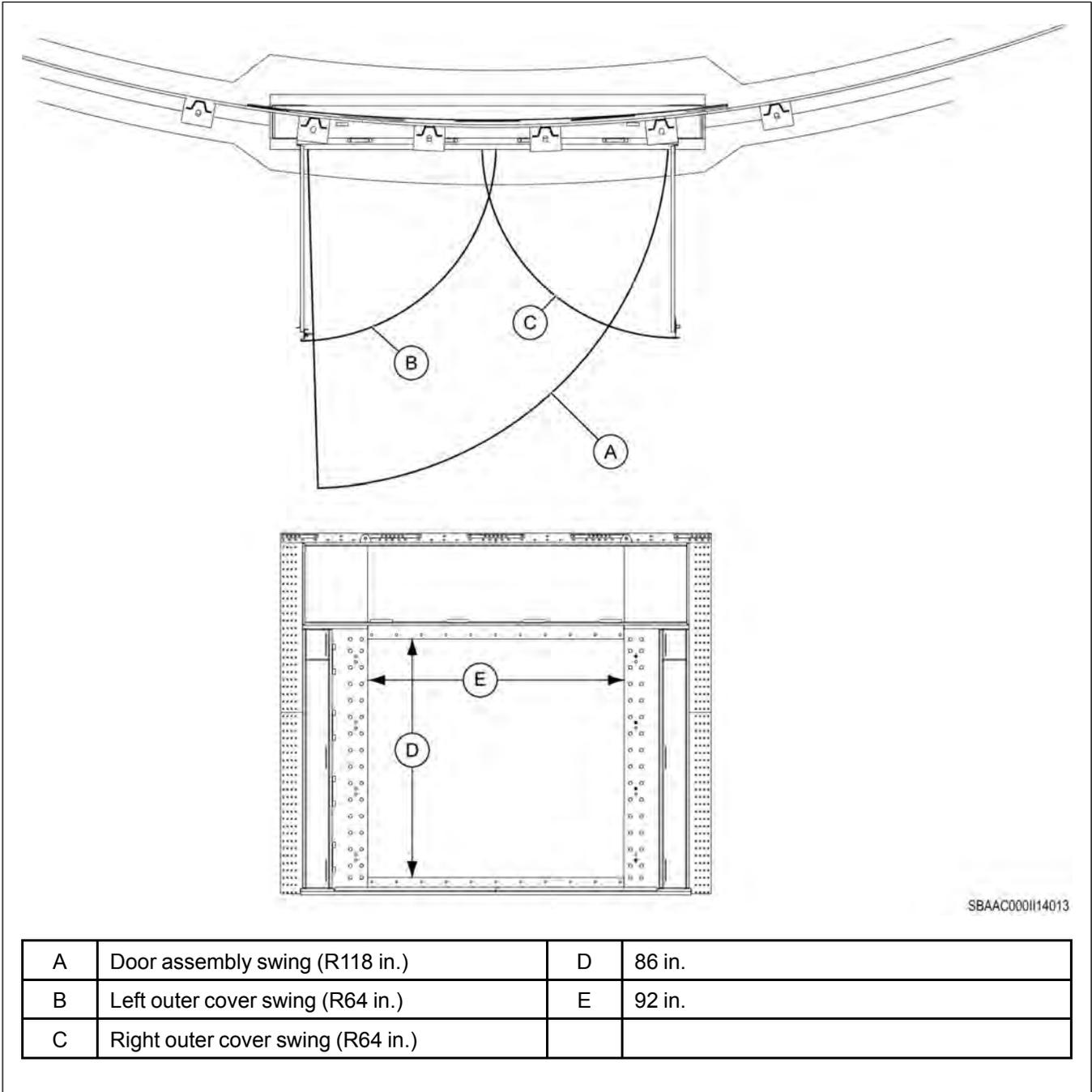


Figure 4-2 Door Swing and Clearance



## GSI Group, LLC Limited Warranty

The GSI Group, LLC (“GSI”) warrants products which it manufactures to be free of defects in materials and workmanship under normal usage and conditions for a period of 12 months after sale to the original end-user or if a foreign sale, 14 months from arrival at port of discharge, whichever is earlier. The end-user’s sole remedy (and GSI’s only obligation) is to repair or replace, at GSI’s option and expense, products that in GSI’s judgment, contain a material defect in materials or workmanship. Expenses incurred by or on behalf of the end-user without prior written authorization from the GSI Warranty Group shall be the sole responsibility of the end-user.

**Warranty Extensions:** The Limited Warranty period is extended for the following products:

	Product	Warranty Period
AP Fans and Flooring	Performer Series Direct Drive Fan Motor	3 Years
	All Fiberglass Housings	Lifetime
	All Fiberglass Propellers	Lifetime
AP/Cumberland	Flex-Flo/Pan Feeding System Motors	2 Years
Cumberland Feeding/Watering Systems	Feeder System Pan Assemblies	5 Years **
	Feed Tubes (1-3/4" and 2.00")	10 Years *
	Centerless Augers	10 Years *
	Watering Nipples	10 Years *
Grain Systems	Grain Bin Structural Design	5 Years
Grain Systems Farm Fans Zimmerman	Portable and Tower Dryers	2 Years
	Portable and Tower Dryer Frames and Internal Infrastructure †	5 Years

\* Warranty prorated from list price:  
 0 to 3 years - no cost to end-user  
 3 to 5 years - end-user pays 25%  
 5 to 7 years - end-user pays 50%  
 7 to 10 years - end-user pays 75%

\*\* Warranty prorated from list price:  
 0 to 3 years - no cost to end-user  
 3 to 5 years - end-user pays 50%

† Motors, burner components and moving parts not included.  
 Portable dryer screens included.  
 Tower dryer screens not included.

GSI further warrants that the portable and tower dryer frame and basket, excluding all auger and auger drive components, shall be free from defects in materials for a period of time beginning on the twelfth (12<sup>th</sup>) month from the date of purchase and continuing until the sixtieth (60<sup>th</sup>) month from the date of purchase (extended warranty period). During the extended warranty period, GSI will replace the frame or basket components that prove to be defective under normal conditions of use without charge, excluding the labor, transportation, and/or shipping costs incurred in the performance of this extended warranty.

### Conditions and Limitations:

THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION SET FORTH ABOVE. SPECIFICALLY, GSI MAKES NO FURTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IN CONNECTION WITH: (I) PRODUCT MANUFACTURED OR SOLD BY GSI OR (II) ANY ADVICE, INSTRUCTION, RECOMMENDATION OR SUGGESTION PROVIDED BY AN AGENT, REPRESENTATIVE OR EMPLOYEE OF GSI REGARDING OR RELATED TO THE CONFIGURATION, INSTALLATION, LAYOUT, SUITABILITY FOR A PARTICULAR PURPOSE, OR DESIGN OF SUCH PRODUCTS.

GSI shall not be liable for any direct, indirect, incidental or consequential damages, including, without limitation, loss of anticipated profits or benefits. The sole and exclusive remedy is set forth in the Limited Warranty, which shall not exceed the amount paid for the product purchased. This warranty is not transferable and applies only to the original end-user. GSI shall have no obligation or responsibility for any representations or warranties made by or on behalf of any dealer, agent or distributor.

GSI assumes no responsibility for claims resulting from construction defects or unauthorized modifications to products which it manufactured. Modifications to products not specifically delineated in the manual accompanying the equipment at initial sale will void the Limited Warranty.

This Limited Warranty shall not extend to products or parts which have been damaged by negligent use, misuse, alteration, accident or which have been improperly/inadequately maintained. This Limited Warranty extends solely to products manufactured by GSI.

Prior to installation, the end-user has the responsibility to comply with federal, state and local codes which apply to the location and installation of products manufactured or sold by GSI.

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**This equipment shall be installed in accordance with the current installation codes and applicable regulations which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.**



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GSI is a worldwide brand of AGCO Corporation.