

Bin Door Insert

The Bin Door Insert has been designed to be a better way of removing single loads from a full grain bin. By not having to insert the auger into the auger port in the bin the benefits are; no stuck augers in the auger ports, no grain spillage from pulling auger out of a full bin and never having to start the auger under load. By being able to stop the flow of grain to the auger, the auger can be allowed to clean out before disengaging and shutting the motor off. With the larger diameter augers engaging a full auger can be difficult. An empty auger is a plus if you are sent home from the elevator being told to haul something else.

The Bin Door Insert is also an improved "air sealed door" for aeration/drying systems. With a tube of silicon you can make the insert seal much better and easier than with a conventional auger port system.

As with anything care needs to be taken when using this aftermarket item. With the Bin Door Insert you will be able to unload the bin faster than you could before with certain bin doors. With certain commodities you may want to restrict the flow. There is a disclaimer attached to each Bin Door Insert...see below.

Bin Door Insert Warning

Some grain bin manufactures do not recommend the side unloading of grain bins. Side unloading stresses may cause structural damage to grain bin. Contact grain bin manufacture for recommendations before using.

The "Bin Door Insert" is an aftermarket attachment for an existing grain bin. Bin conditions, commodities, unload speed, etc. are outside of the "Bin Door Insert" manufactures control.

Use at your own risk.

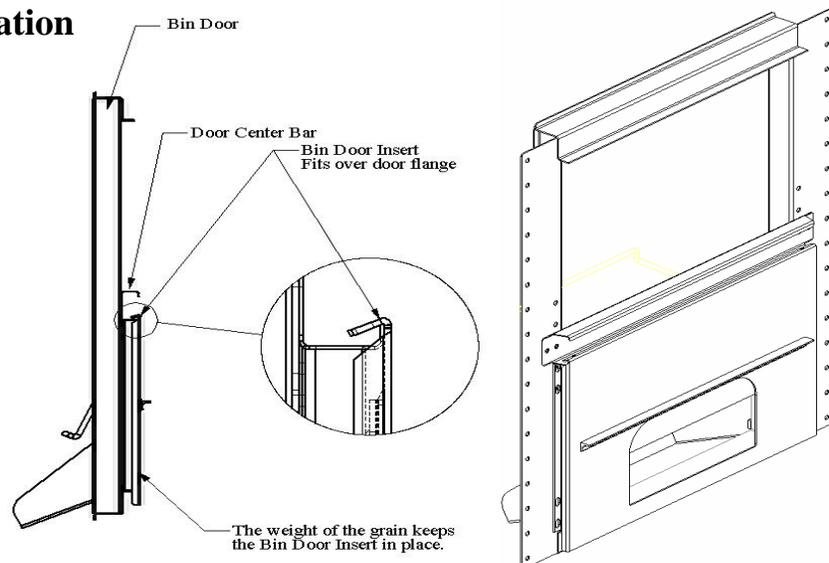
Not recommended for grains bin over 19' in diameter or over 7 tiers in height.

On larger diameter bins holding certain commodities extra stiffeners on each side of the door may be advisable.

Bin Door Insert - Installation

On most grain bins the insert simply "hangs" onto the bin door's center bar and the weight of the grain on the insert holds it in place.

The clip-on grain chute can be removed allowing for the closing of the grain bin door.



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Bin Door Insert - Usage

To attach the removable chute simply spread the chute's sides apart and insert the pins into the holes in the Bin Door Insert.



A square back style grain hopper works very well with the insert if it will fit below the removable chute.

Bin Door Insert - Removal

Once the grain has stopped flowing the simplest way to remove the Bin Door Insert is to:

- 1 - Pull down the easy to flow grain at the doorway and clean away a small amount of grain from the inside bottom corners of the insert with a shovel. (Only a small amount required)
- 2 - Push in at the bottom of the insert and place a 1x6 board in the doorway to prevent any grain from leaking out the door while removing the Bin Door Insert.
- 3 - To remove the Bin Door Insert lift on the insert's pivot rod and twist the insert to come out through the bottom of the doorway.
- 4 - When you have removed the insert place a second 1x6 board above the first and then remove the bin door's center bar before inserting the auger into the bin.
- 5 - Once the auger is in the bin you can shovel the remainder in the hopper back into the bin to clean up. If everything is done right it is quick and easy with no mess.



Westeel Grain Bin Doors

WS Door 1

There are three different doors for the Westeel Bins. The first and oldest is a three piece which has a round chute that slides in. This door is referred to as the “old style Westeel with the round hole”. This door requires a converter in order to use the Bin Door Insert. For installation instructions see: “Old Style Westeel Door Converter” sheet.



WS Door 2

The second Westeel door has a bolt-in center bar and bolt on side panels to the chute. The bolt on side panels will need to be removed and replaced with the 2 angle iron brackets as shown. The Bin Door Insert will then fit over the flange of the center bar and the weight of the grain will hold it in place.

Angle Iron Bracket



WS Door 3

The third Westeel door has a swing-in center bar.

To install the Bin Door Insert:

Remove the 4 bolts which holds the auger port to the door. Using three of the existing bolts fill in the 2 outside holes and an inside hole. Then place the insert into the door opening with the chute flange resting on the door sill. With a pencil draw a mark through the center of the open bolt hole (4th hole) on the front face of the bin door insert. Remove the insert from the door and drill a 7/16” hole at the marked location. Reinstall the insert and using the enclosed 3/8 x 2” bolt secure the insert to the door’s center bar.



Swing-In Center Bar



Open bolt hole in center bar



Insert and 3/8 x 2” bolt

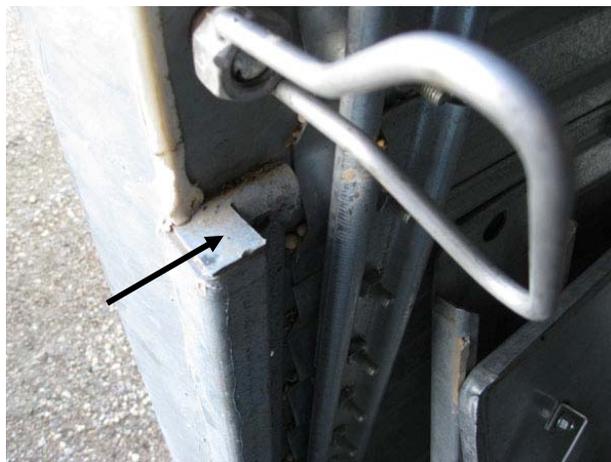
Twister Grain Bin Doors

TGB Door 1

There are two different doors for the Twister Bins. The older door has a metal tab with a hole for the side panel protruding from the door frame. Before installing the insert the metal tab will need to be cut and bent down as shown. A “zip” disc on a small angle grinder works very well to make the cut.



Metal Tab With Hole



Metal Tab Cut And Bent Down

TGB Door 2

The newer Twister door does not require any modification to the door.

