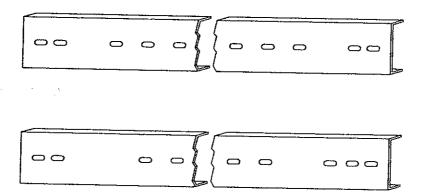


# STIFFENER INSTALLATION INSTRUCTIONS



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P-12038

September 1, 2005

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### **STIFFENERS**

PART#	LENGTH	GAUGE	FOR BIN CORRUGATION	COLOR
283A-001A	8'	12 GA.	2-2/3 OR 4"	<del></del>
283B-001A	<u> </u>			WHITE (C-6015)
2000-00 IA	9.	8 GA.	2-2/3 OR 4"	ORANGE (C-6021)

### **SPECIAL ORDER STIFFENERS**

PART#	LENGTH	GAUGE	FOR BIN CORRUGATION	COLOR
283I-001A	10'	12 GA.	2-2/3"	GREEN (C-6014)
283J-001A	10'	12 GA.	4"	BLACK (C-6022)
283K-001A	8'	12 GA.	2-1/2" (WESTEEL)	
283L-001A	6'	8 GA.	2-1/2" (WESTEEL)	RED (C-6126) COPPER (C-6192)

#### **CONNECTORS**

ASSEMBLY#	DESCRIPTION	FOR BIN CORRUGATION	CONNECTOR LENGTH
285A-001A	CONNECTOR BUNDLE OF 4	2-2/3 OR 4"	10"
285B-001A	CONNECTOR BUNDLE OF 12	2-2/3 OR 4"	10"
285E-001A	CONNECTOR BUNDLE OF 4	2.5 (WESTEEL)	12"
285F-001A	CONNECTOR BUNDLE OF 12	2.5 (WESTEEL)	12"

#### HARDWARE SACKS

BIN BOLT W/ NEOPRENE WASHER, FLAT WASHER, & NUT

PART#	QTY.	BOLT SIZE
284D-001A	20	5/16" X 1"
284E-001A	50	5/16" X 1"
284A-001A	100	5/16" X 1"
284B-001A	250	5/16" X 1"
284C-001A	500	5/16" X 1"
284F-001A	50	5/16" X 2-1/2"

## **INSTALLATION**

Bin stiffeners may be required for SHIVVERS Circulator and Dri-Flo installations. In the drying process, dynamic forces caused by the movement of grain create stress on the bin structure. Follow the Bin Manufacturer's specific recommendations or use SHIVVERS Stiffeners. Bins without SHIVVERS Stiffeners should have a written warranty from the bin manufacturer stating the bin is designed for recirculation without additional stiffeners required.

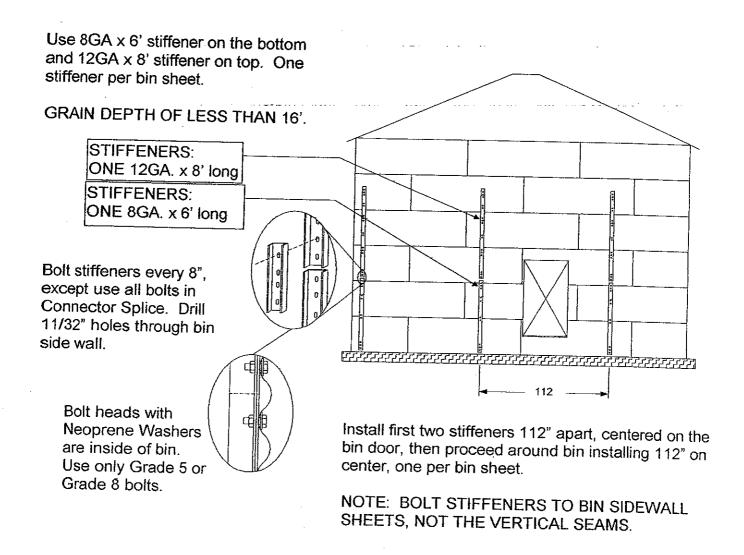
Use appropriate stiffener layout depending on your particular bin eave height and corrugation. For bins up to 17'04" eave height and with grain depths of less than 16', use one 8GA x 6' stiffener on the bottom of the bin and one  $12GA \times 8'$  stiffener above.

For bins over 17'04" and less than 21' eave height, use two 8GA  $\times$  6' stiffeners on the bottom and one 12GA  $\times$  8' stiffener on the top.

Do not install Circulator or Dri-Flo in bins over 21' or 8 rings tall.

Make sure that the stiffeners are tightly fitted against the concrete foundation. A small amount may have to be cut from the bottom of the stiffener in order to compensate for older bins that have settled. Be sure all splice joints are together before the connector splice is installed and tightened.

## **BINS UP TO 17'04" EAVE HEIGHT:**



## BINS OVER 17'04" UP TO 21' EAVE HEIGHT:

