

GRAIN BIN FOUNDATION

FOR UNSTIFFENED COMBO HOPPER BOTTOM BINS

IMPORTANT

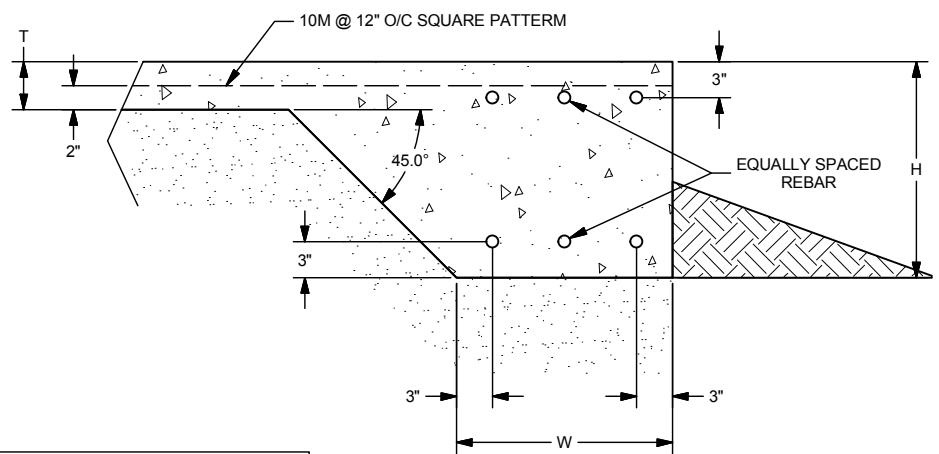
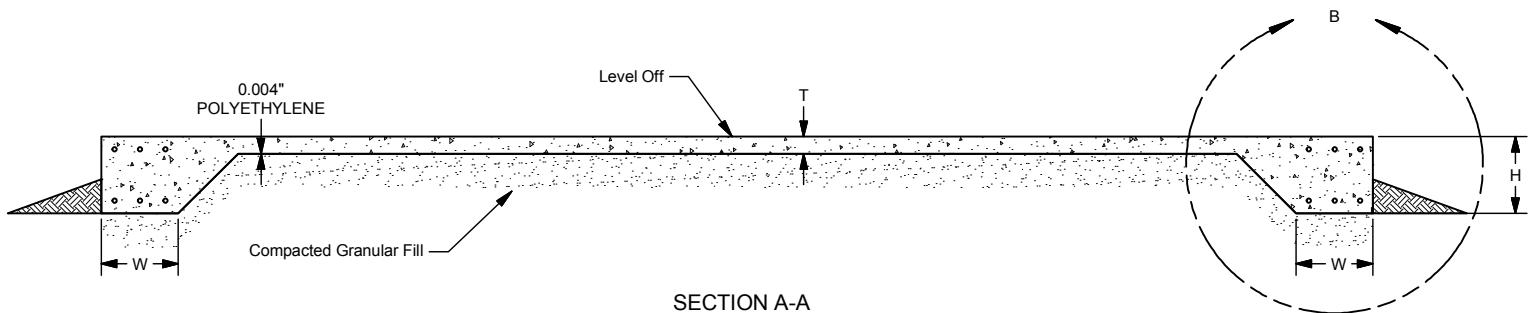
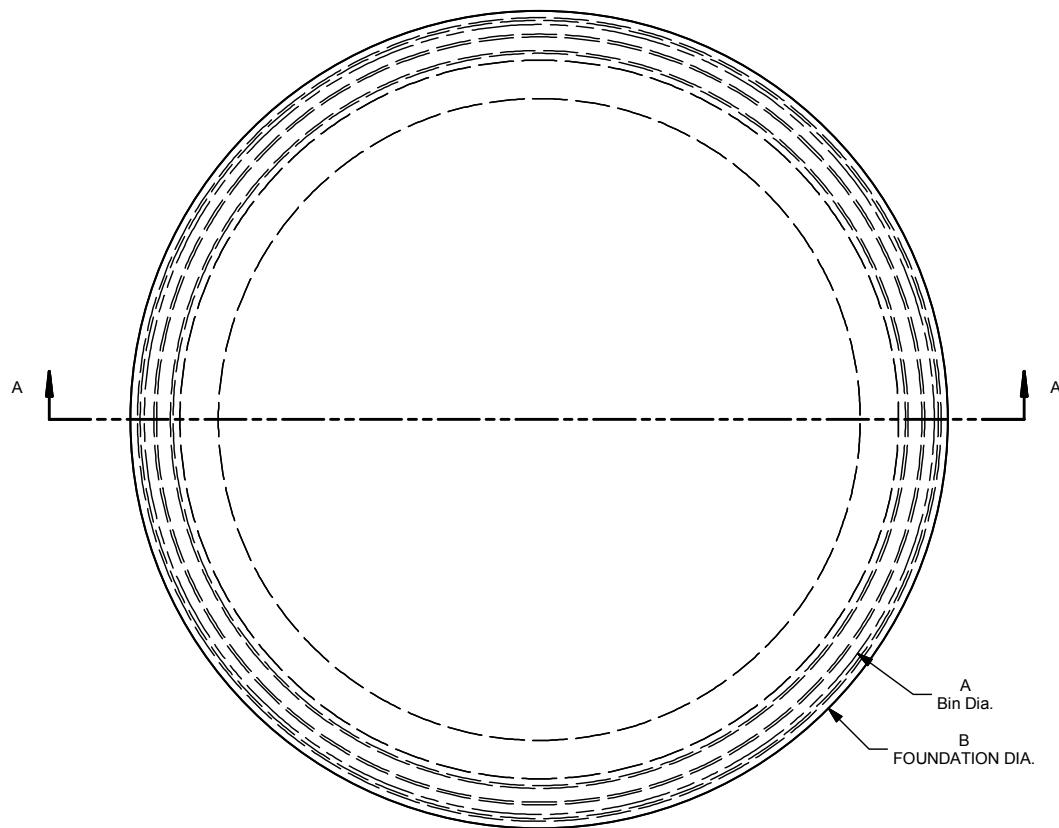
All foundation specifications shall be interpreted as recommendations only. Because of the many variable conditions in actual installation, the manufacturer assumes no liability for results arising from the use of such recommendations. However these minimum standards must be respected to assure bin warranty applicability.

FOUNDATION SPECIFICATIONS

1. All foundations must be designed on leveled soil with a bearing capacity of 3,000 psf (14,646 kg/m²). When in doubt, consult a local engineer or architect.
2. All soil or organic material on the site of the foundation must be excavated and replaced by porous frost-proof material to provide proper draining under foundation and reduce frosting problems (gravel, sand, ballast, crushed stone). This underlying basis is then compacted and covered with polyethylene plastic which acts as a moisture barrier.
3. Once the forms have been prepared, begin the placement of reinforcement rods in the foundation (see foundation drawing details). The reinforcement rods offer their greatest strength when they have been joined together, either by weld or wire. 6" x 6" (15.24 x 15.24cm) wire mesh or 10M (#3) at 12" O/C each way covering the entire area of the foundation, completes preparation before beginning concrete pouring.
4. Concrete must have a minimum compressive strength of 3,000 psi (20.7MPa) after 28 days.
5. Approximate concrete volume quantities found in the corresponding table.
6. Foundation surface must be level. Columns must be shimmed in uneven circumstances.
7. Follow general concrete best practices and guidelines. Wait a minimum of 7 days to install combo hoppers on concrete. It is recommended to wait 28 days until filling the combo hopper bin, to ensure full concrete strength is achieved.

1. The manufacturer guarantees its products against any defects in materials or workmanship for a period of twelve (12) months from the date of purchase, provided that the said products are set up according to its instructions and recommendations and provided also that the said products are operated and used in proper conditions and according to its instructions and recommendations.
2. The manufacturer's responsibility and obligations under this warranty shall be limited to replacement of parts and shall not extend to parts, equipment or accessories that are component parts of manufacturer's products but that are manufactured by other manufacturers. Those manufacturers' warranty will apply to such parts, equipment or accessories. Any parts set up by reason of the application of this warranty shall be amenable to the terms of this warranty except that the period of twelve (12) months applicable to such parts shall be peremptory and that upon termination of the said period, warranty shall be null and void, for any purpose whatsoever with the respect to said parts substituted to it before the termination of the said period of twelve (12) months.
3. This warranty shall not extend to loss and damage to content of the products, neither to property or loss of revenue. Moreover it shall not extend to bodily injuries, including death, sustained by any person or animal.
4. The purchaser shall give notice to the manufacturer, without delay, of any damage or defects to its products that he may ascertain before they are set up, otherwise this warranty will not apply to such damage or defects.
5. Any modification or incorporation whatsoever made to products, except those authorized or recommended by the manufacturer, shall void this warranty; this warranty shall not apply to damages resulting from improper installation or erection of products by purchaser.
6. This warranty is the sole and only warranty and it is in lieu of any other warranty, express or implied, statutory or not.
7. Any claim under this warranty shall be notified in writing to the manufacturer's head office within thirty (30) days from the failure.

Specifications and descriptions are subject to change without notice.



COMBO HOPPER CONCRETE DETAILS

Bin Dia. "A"	Foundation Dia. "B"	Rebar (metric)	Rebar (imp.)	"H"	"W"	"T"	Concrete (cubic yards)
18' (5.49m)	21'-0"	3-15M	3-#5	18"	30"	4"	11.8
21' (6.40m)	24'-0"	3-15M	3-#5	18"	30"	4"	14.4
24' (7.32m)	27'-0"	3-15M	3-#5	18"	30"	4"	17
27' (8.23m)	30'-0"	3-15M	3-#5	18"	30"	4"	20

NOTES:
• MAXIMUM SIDEWALL HEIGHT = 23'-0" (6 RINGS)
• MAXIMUM PRODUCT BULK DENSITY = 50 PCF