

MERIDIAN

Agricultural Product Catalog



**EXPERIENCES
THE ADVANTAGES**
OF MERIDIAN BUILT STORAGE SOLUTIONS

www.meridianmfg.com



MERIDIAN MANUFACTURING GROUP

Meridian Manufacturing Group is the proud innovator and largest North American all-welded, smooth-wall hopper bin manufacturer with offices and production facilities in Camrose Alberta, Lethbridge Alberta, Winkler Manitoba, and Storm Lake Iowa.

Meridian launched its first hopper bin design in 1965, thereafter continuously incorporating the latest technological innovations to meet the changing customer needs. Advancements include leg ring designs, slide gates, steel foundations, safety features, aeration and premium paint finish, along with numerous convenient options. The Meridian Seed Tenders further support the grain handling systems of the agricultural industry.

Meridian Manufacturing and many Meridian dealers have trucks and trailers specifically designed to deliver and setup bins on each customers yard. Our experienced drivers and dealers ensure each bin is positioned just right and ready to use.

Meridian's best references are the thousands of farmers and commercial customers who have experienced the quality and value of Meridian built hopper bins, seed tenders and fuel tanks and completely trust them for their own specific storage needs.

Meridian Manufacturing Group is a member of the Westman Group of Companies, a dynamic entrepreneurial group of companies comprised of: Behlen Industries, Westman Steel Industries, Frontier Laser and Canada Culvert.



QUALITY AND WORKMANSHIP

Meridian's workmanship sets the standard of excellence in the storage industry. The meticulous attention to quality and detail, reflect the attitude of an enthusiastic and skilled production team, who bring confidence to each Meridian customer of a superior and dependable product.

Meridian is continually investing in the latest technology, equipment and training programs in an ongoing effort to carefully design and develop a most efficient and durable product. Robots are utilized in highly repetitive and tight welding spots to ensure unsurpassed welding procedures.

All our steel components and materials are designed and selected utilizing our suppliers' latest technology to ensure the best quality bin for each application. HSS (Hollow Structural Steel) tubing, leg bands, leg rings, bracing and sheeting are carefully selected for strength and milling, followed by rigorous cleaning and storage standards.



SERVICE

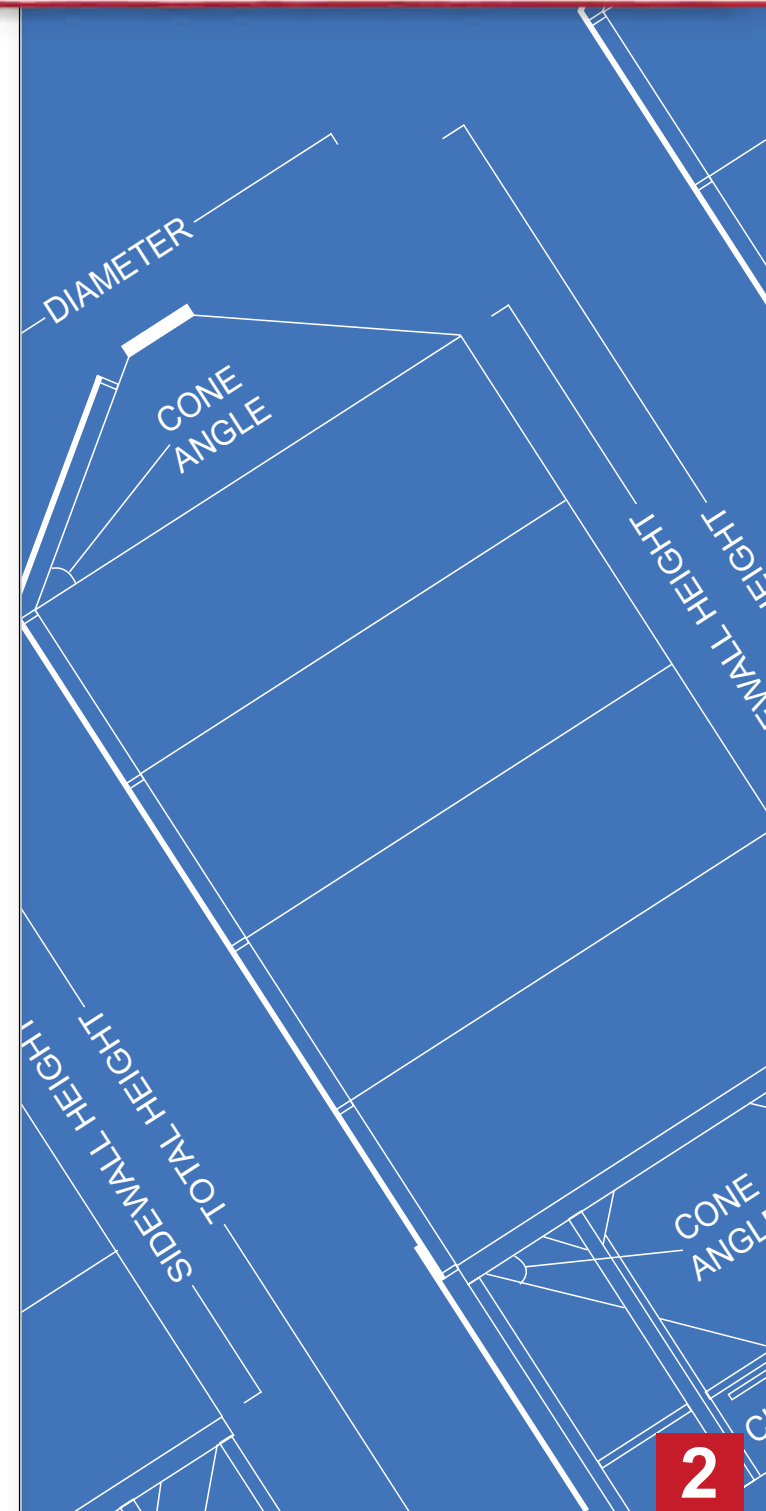
Meridian's customer service begins with your first contact. Through our knowledgeable sales staff, we provide expert drafting and advice through the selection of bins and accessories, steel structures, custom colors and orientation of the many Meridian options which best suite your current and future plans. Upon completion of your bins, a Meridian driver will carefully load and deliver them to your yard. Our custom trailers allow us to lift and stand up most bins without any assistance. From our design, sales and production procedures, the Meridian team set the standard for product and service excellence.



Meridian dealers and partners in communities all across Canada and the US are easy to reach and ready to serve their customers. Our dealers have a vested interest in their customers' business operations and ensure their complete satisfaction. Many dealers also have their own bin tractor/trailer delivery units. We have four strategically placed production facilities to ensure the quickest response time possible, as well as more than 30 trucks and 75 trailers delivering bins across Canada and the USA. We have a staff of engineers, designers and knowledgeable sales representatives to assist customers with specialized storage needs.

BEST DESIGN FROM START TO FINISH

Since our first hopper bin in 1965, each revision and updated drawing is a step forward as we respond to customers changing needs while implementing the latest innovations in design and engineering. Some changes include design for heavier products and commodities, larger capacities and size selection, paint quality and durability as well as safety concerns.





EXPERIENCE THE ADVANTAGES

Meridian prides itself in providing your most economical and efficient smooth wall storage tank to suit your specific needs. Completely self cleaning with no obstructions to trap contaminants, and painted for superior durability, Meridian will work with you to accommodate your storage handling system.

- 1 STORAGE VERSATILITY**
Meridian is a proven leader in Smooth-wall storage with almost 50 years experience specializing in smooth-wall hopper bin design and production. Meridian offers a full line of light granular and liquid bins to heavy industrial tanks for any free flowing commodity.
- 2 SAFETY AND CONVENIENCE**
Slide gates, auger accessories and simple gravity provide safe, easy clean out. No dust masks, shovels, bin sweeps or expensive grain vacs.
- 3 STRENGTH**
Meridian's design and heavy steel components are engineered for dependable, maintenance free storage.
- 4 PREMIUM PAINT FINISH**
Meridian Manufacturing utilizes a premium enamel finish on all manufactured silos. The steps and procedures we implement throughout our entire production process helps to insure a high quality product.
- 5 CUSTOMER SERVICE**
We offer solutions for all your agricultural and industrial storage needs, with customer service unsurpassed in the industry. Our professional sales staff, the manufacturing crew and our trucking fleet work with you to accommodate your needs.
- 6 CLEAN STORAGE**
Storing seed grain, capitalizing on IP markets or simply wanting to eliminate contaminants from your bins, Meridian is your answer for clean storage.
- 7 RESALE VALUE**
Meridian hopper bins, an ever reliable product, often appreciate in value, and are constantly in demand with the added benefit of easy mobility.
- 8 INVESTMENT**
Over 600 trained and committed employees, many with over 25 years experience and over 300,000 square feet of production space. Meridian has a trained and dedicated sales team serving regions across Canada and the USA. Investments in robots improve productivity and assist employees with repetitive tasks. The ownership and management team of Meridian Manufacturing Group are industry leaders and are listed among the "Best Managed Companies".
- 9 WARRANTY**
Simply put, it's the best warranty and service commitment in the industry—10 year structural and 5 year limited paint warranty. We believe a warranty is only as valuable as the company offering it. At Meridian Manufacturing, we are committed to stand behind our products and warranty with a dedicated service team. It's a Meridian Built Standard.

Commonly called a fertilizer bin, Meridian's premium hopper bins are the most versatile, multi-purpose hopper bins available today. Used most often to store and handle fertilizer, grain, feed and seed, their versatility extends to coal, sand and any other free-flowing, dry granular commodity.

PREMIUM STORAGE WITHOUT THE PREMIUM!

In the past, farmers viewed the fertilizer bin as too costly for anything but fertilizer storage. More recently, the advantages of "smooth-wall hopper storage" have farmers everywhere saving time and money with Meridian multi-purpose bins. Now they're saying, "*Wish we had bought them sooner!*"

Each Meridian Built Fertilizer Bin offers heavy-duty, No Compromise construction. These tough bins are completely pre-welded, inspected, and then treated with Meridian's Premium paint finish inside and out. The special paint chemistry allows for many years of corrosion and abrasion resistance even with fertilizer storage.

Two other versions of the premium Multi-Purpose fertilizer bin are available. For commodities which won't flow consistently, like a processed feed, a steep cone version may be required (Shown on page 8). For commodities like meals and powders, which tend to bridge and hang up, a Meridian Series II commercial tank is required.

For those extremely corrosive products and environments like salt, Meridian offers a variety of powder chemistry options including interior epoxies to ensure years of trouble free storage. Contact Meridian's sales team for any questions regarding our bins, paint finish options and custom build requirements.

STANDARD FEATURES:

- All welded, smooth-wall construction
- HSS (Hollow structural steel) legs and bracing
- Premium Rack-n-Pinion slide gate with crank
- Complete sidewall and roof ladder
- 25" top opening
- Vented Top Lid - Spring loaded and ground operated
- Min. 40° bottom cone and 35° roof cone
- 24" clearance under the slide gate

OPTIONS:

- Aeration Systems
- Bottom Manway
- Roof Manhole
- Bin Level Indicators
- Poke Hole
- Ladder cage and handrails
- Bean ladders
- Steel Foundations



GRAIN MAX BINS

Grain Max hopper bins offer top quality grain and seed storage at prices comparable to corrugated hopper combos. Without bolts and ribs, the Grain Max seamless interior allows for safe and easy unloading, while ensuring no seed or contaminants are trapped on the walls or joints.

Completely self cleaning with no obstructions, Grain Max hopper bins are the safest and most efficient grain bins available. You and your family will appreciate the quality and safety of Grain Max, and the time and energy saved handling grain in a smooth-wall bin.

Grain Max hopper bins feature all the standards you expect from a Meridian Built product—industry leading design advancements, material selection, premium paint finish and the best in warranty and customer service.

STANDARD FEATURES:

- All welded, smooth-wall construction
- HSS (Hollow structural steel) legs and bracing
- Premium Rack-n-Pinion slide gate with crank
- Complete sidewall and roof ladder
- 25" top opening
- Vented Top Lid - Spring loaded and ground operated
- Min. 40° bottom cone and 35° roof cone
- 24" clearance under the slide gate

OPTIONS:

- Aeration Systems
- Bottom Manway
- Roof Manhole
- Bin Level Indicators
- Ladder cage and handrails
- Skid Foundations



Meridian's smooth-wall Feed bins are designed with feed quality and management in mind.

The advantage of Meridian's smooth-wall design is very evident in feed storage. Smooth cone and side-wall surfaces, without bolts or ribs, a bottom cone of 55° or 60°, and our exclusive high slip factor paint finish, ensure feed discharge without hang ups and entrapments, thus reducing spoilage and unnecessary expenses.

(For capacities over 44 tons, use the larger Steep Cone version.)



Pail Spout

STANDARD FEATURES:

- All welded, smooth-wall construction
- HSS (Hollow structural steel) legs and bracing
- Premium Rack-n-Pinion slide gate with crank
- Complete sidewall and roof ladder
- 25" top opening
- Vented Top Lid - Spring loaded and ground operated
- 55° or 60° bottom cone depending on model
- 35° roof cone
- 24" clearance under the slide gate

OPTIONS:

- Bottom Manway
- Roof Manhole
- Bin Level Indicators
- Pail Spout
- Auger Boots and Auger Mounting Tabs
- Ladder cage and Handrails
- Skid Foundations



STEEP CONE BINS

For commodities requiring a steeper cone and more capacity than a feed bin, the solution is a Meridian Steep Cone series. These bins are built with the same standards as the fertilizer series, but feature a 55° bottom cone in capacities up to 222 tons at 62 #/cu.ft.

The variance of flow characteristics may result in some products bridging inside a bin. The Meridian Sales Team will ensure you receive the best bin design for your storage needs.

STANDARD FEATURES:

- All welded, smooth-wall construction
- HSS (Hollow structural steel) legs and bracing
- Premium Rack-n-Pinion slide gate with crank
- Complete sidewall and roof ladder
- 25" top opening
- Vented Top Lid - Spring loaded and ground operated
- 55° or 60° bottom cone depending on model
- 35° roof cone
- 24" clearance under the slide gate

OPTIONS:

- Bottom Manway
- Roof Manhole
- Bin Level Indicators
- Auger Boots and Auger Mounting Tabs
- Ladder cage and Handrails
- Skid Foundations



* Ask the Meridian Sales Team about Industrial and custom projects.

If you're expanding an existing seed business or considering a new seed facility, it's important to consider Meridian's experience and expertise in bulk seed storage. The SEEDMAX bulk seed bins are smooth-wall hopper bins designed and manufactured by Meridian specifically to provide you the safest and most efficient storage and handling solution for your seed. They are available in sizes ranging from 500 to 5,000 bushels and installed by trained Meridian dealers in a variety of configurations.

STANDARD FEATURES:

- Internal Seed Ladder
- Cone manway
- Access ladder
- 25" Vented remote lid
- Roof manhole
- Two view glasses
- Rack & pinion slide gate
- 36" Clearance
- Welded seam construction
- Enamel top coat exterior
- Probe hole—for seed sampling
- 40 Degree cone bottom



THE ON FARM SEED STORAGE

- 500 Unit capacity
- Interior seed ladder
- Cone manway
- Probe hole
- Roof manhole
- View glasses
- R&P gate with manual crank
- Optional skid base

OPTIONAL ITEMS

- Electric rack & pinion slide gate
- Ladder cage packages
- Skids
- Aeration



Dump Hopper / Quick Weigh



LIQUID HOPPER BINS

Meridian's Liquid hopper bins are the ultimate storage bins, taking versatility and multi-purpose to the extreme. In addition to storing all the dry flowable products of the fertilizer series, these bins are designed, engineered and painted to store a whole range of liquid products such as liquid fertilizer, water, liquid feed supplements and honey. With the exception of the bottom flange plate assembly, these bins look identical to the fertilizer bins, differing significantly however, in heavier gauge steel, welded inside and out, four coats of paint and other standard features.

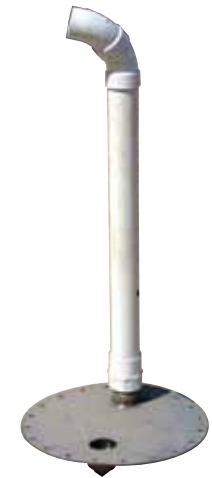


STANDARD FEATURES:

- Minimum 12 gauge construction
- Back welded - Inside and outside
- Pressure tested
- Sand blasted (Interior and Exterior)
- Interior has 2 coats of Meridian's epoxy powder
- Exterior has Meridian's exclusive premium paint finish with a Zinc undercoat
- Complete sidewall and roof ladder
- Heavy Duty flanged bottom opening with Stainless Steel Bottom Plate

Assembly (Illustrated).

- a. 2 - 3" S.S. couplers
- b. FDA approved neoprene gasket
- c. 3" x 36" Interior circulation tube



Bottom stainless steel plate with circulation tube allows recirculation of product prior to discharge from bin.

These bins are so well equipped, there are only 2 liquid options to choose from:

- 1) Flanged bolt on slide gate assembly - interchangeable with SS liquid plate for dry commodities.
- 2) ¾" Site Tube with valves top and bottom.



Heavy duty flanged bottom opening with stainless steel bottom plate assembly.



Optional bolt on slide gate assembly for use with dry flowable products

MULTI-PURPOSE FERTILIZER BINS

Model #	Bushels	Cubic Feet	Tons	Bin Height	Min. Auger
12' Diameter Bins - 45 Degree Bottom Cone					
1205	776	913	28	15'-8 3/16"	36'
1208	1064	1252	39	18'-8 3/16"	36'
1210	1256	1478	46	20'-8 3/16"	41'
1212	1448	1704	53	22'-8 3/16"	46'
1215	1737	2044	63	25'-8 3/16"	51'
1217	1930	2270	70	27'-8 3/16"	51'
1220	2218	2609	81	30'-8 3/16"	56'
13'6" Diameter Bins - 40 Degree Bottom Cone					
1410	1637	1926	60	23'-9 3/16"	41'
1412	1881	2213	69	23'-9 3/16"	46'
1415	2246	2642	82	26'-9 3/16"	46'
1417	2489	2928	91	31'-9 3/16"	51'
1420	3462	4073	126	36'-9 3/16"	56'
1425	3462	4073	126	36'-9 3/16"	61'
16' Diameter Bins - 40 Degree Bottom Cone (not available East of Mississippi River)					
1610	2410	2835	88	23'-8 7/8"	41'
1612	2751	3237	100	25'-8 7/8"	46'
1615	3264	3840	119	28'-8 7/8"	51'
1617	3607	4243	132	31'-8 7/8"	56'
1620	4119	4846	150	33'-8 7/8"	61'
1625	4973	5851	181	38'-8 7/8"	71'
1630	5828	6856	213	43'-8 7/8"	71'

FEED BINS

Model #	Bushels	Cubic Feet	Tons	Bin Height	No. of Legs
12' Diameter Bins - 60 Degree Bottom Cone					
605	178	209	6	13'-7/8"	4
608	250	294	6	16'-7/8"	4
610	298	350	7	18'-7/8"	4
612	346	407	8	20'-7/8"	4
8' Diameter Bins - 60 Degree Bottom Cone					
808	479	564	11	18'-6 1/6"	4
810	564	664	13	20'-6 1/16"	4
812	650	765	15	22'-6 1/16"	4
9' Diameter Bins - 60 Degree Bottom Cone					
910	737	867	17	21'-8 11/16"	4
912	845	994	20	23'-8 11/16"	4
915	1007	1178	24	26'-8 11/16"	4
10' Diameter Bins - 55 Degree Bottom Cone					
1010	938	1103	22	22'-11 1/4"	6
1012	1071	1260	25	24'-11 1/4"	6
1015	1271	1495	30	27'-11 1/4"	6

STEEP CONE - HEAVY DUTY

Model #	Bushels	Cubic Feet	Ton 40lbs/cu.ft	Ton 62lbs/cu.ft	Bin Height	Min. Auger
12' Diameter Bins - 55° Bottom Cone						
1205-55	889	1046	21	32	18'-9 3/16"	36'
1208-55	1177	1385	28	43	21'-9 3/16"	41'
1210-55	1369	1611	32	50	23'-9 3/16"	41'
1212-55	1562	1837	37	57	25'-9 3/16"	46'
1215-55	1850	2176	44	67	28'-9 3/16"	51'
1217-55	1850	2176	44	67	28'-9 3/16"	51'
1220-55	2331	2742	55	85	33'-9 3/16"	56'
1225-55	2812	3308	66	103	38'-9 3/16"	61'
13'6" Diameter Bins - 55° Bottom Cone						
1410-55	1799	2116	42	66	25'-4 3/8"	46'
1412-55	2042	2402	48	74	27'-4 3/8"	51'
1415-55	2406	2831	57	88	30'-2 13/16"	56'
1417-55	2650	3118	62	97	32'-2 13/16"	61'
1420-55	3015	3547	71	110	35'-2 13/16"	61'
1425-55	3624	4263	85	132	40'-2 13/16"	66'
1430-55	4232	4979	100	154	43'-2 13/16"	71'
16' Diameter Bins - 55° Bottom Cone						
1610-55	2678	3150	63	98	28'-5/16"	51'
1612-55	3020	3552	71	110	30'-5/16"	56'
1615-55	3532	4156	83	129	33'-5/16"	61'
1617-55	3874	4558	91	141	35'-5/16"	61'
1620-55	4387	5161	103	160	38'-5/16"	71'
1625-55	5241	6166	124	191	43'-5/16"	71'
1630-55	6096	7172	143	222	48'-5/16"	81'

LIQUID BINS

Model #	U.S. Gallons	Bushels	Cubic Feet	Dry Tons	Bin Height	Min. Auger
12' Diameter Bins						
1212L	13,074	1480	1741	54	22'-8 7/16"	46'
13'6" Diameter Bins						
1412L	16,936	1924	2264	70	23'-10 1/16"	46'
16' Diameter Bins (not available East of Mississippi River)						
1612L	24,858	2825	3323	103	25'-9 1/8"	46'
1615L	29,376	3338	3927	122	28'-9 1/8"	51'

GRAIN MAX™

Model #	Bushels	Cubic Feet	Bin Height	Min. Auger
12' Diameter Bins - 40 Degree Bottom Cone				
1212GM	1448	1704	23'-3/16"	45'
14' Diameter Bins - 40 Degree Bottom Cone				
1412GM	1881	2213	24'-1 13/16"	46'
1420GM	2854	3358	31'-9 13/16"	56'
16' Diameter Bins - 40 Degree (not available East of Mississippi River)				
1615GM	3264	3840	28'-8 7/8"	51'
1620GM	4119	4846	33'-8 7/8"	61'
1625GM	4973	5851	38'-8 7/8"	71'

SEED MAX™

Model #	Bushels	Cubic Feet	Bin Height	Min. Auger
12' Diameter Bins - 40 Degree Bottom Cone				
1208SM	1064	1252	20'-3/16"	36'
1212SM	1448	1704	24'-3/16"	45'
14' Diameter Bins - 40 Degree Bottom Cone				
1412SM	1881	2213	25'-1 13/16"	46'
1420SM	2854	3358	33'-1 13/16"	60'
1428SM	3872	4503	41'-1 13/16"	65'
16' Diameter Bins - 40 Degree (not available East of Mississippi River)				
1615SM	3264	3840	30'-7/8"	51'
1620SM	4119	4846	35'-7/8"	60'
1625SM	4973	5851	40'-7/8"	65'

DUMP HOPPERS/QUICKWEIGH

Model #	Clearance	Height	Capacity	Units
8' Diameter				
801 DH/QW	3'0"	6'-9 5/8"	5000#	100
801 DH/QW	8'6"	12'-2 5/8"	5000#	100
801 DH/QW	11'6"	15'-3 5/8"	5000#	100
805 DW/QW	3'0"	10'-9 5/8"	15,000#	300
805 DH/QW	8'6"	16'-3 5/8"	15,000#	300
805 DH/QW	11'6"	19'-3 5/8"	15,000#	300
10' Diameter				
1005 DH/QW	3'0"	12'-10 3/16"	25,000#	500
1005 DH/QW	8'6"	18'-4 3/16"	25,000#	500
1005 DH/QW	11'6"	21'-4 3/16"	25,000#	500

CALCULATIONS

Bushel capacities are approximate

Feed bin capacities are based on 40 lbs/ft3.

All fertilizer bins, steep cone bins and liquid bins capacities are based on 62 lbs/ft3.

To select the most appropriate bin size for your storage, please follow these steps:

- Determine product density (lbs/ft3).
- Convert the total tonnage being stored to lbs, then divide by the density. The result is the cubic foot capacity you require.

Example - You need to store 100 of urea fertilizer with a density of 48 lbs.

100 x 2204 = 220,400 / 48 = 4592 (Min. ft3 required)

Best model selection would be a 1620 or 1815.

To calculate a bins holding capacity of a specific product, follow these steps:

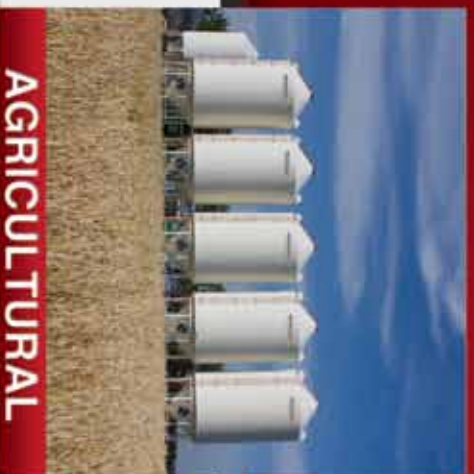
- Determine product density (lbs/ft3).
- Multiply the bins cubic foot capacity by the product density, then divide by 2204.

Example - Your fertilizer blend weights 57 lbs/ft3 and your purchasing a model 1625 fertilizer bin.

Model 1625 = 5851 ft3 x 57 lbs = 333,507 lbs / 2204 = 151 MT. Your new 1625 will hold about 151 MT of your specific fertilizer blend.

MERIDIAN MANUFACTURING GROUP

is North America's leading storage expert with almost 50 years specializing in hopper tank storage.



AGRICULTURAL

INDUSTRIAL

OIL & GAS

Camrose Office

4232 - 38 St.
Camrose, AB T4V 4B2
PH: 780.672.4516
TF: 800.830.2467
FX: 780.672.4759

Lethbridge Office

3125 - 24 Ave. N.
Lethbridge, AB T1H 5G2
PH: 403.320.7070
TF: 800.661.1436
FX: 403.320.7579

Storm Lake Office

2902 Expansion Blvd.
Storm Lake, IA 50588
PH: 712.732.1780
TF: 800.437.2334
FX: 712.732.1028

Winkler Office

Box 760, 275 Hespler Ave.
Winkler, MB R6W 4A8
PH: 204.325.7883
TF: 800.665.7259
FX: 204.325.5556

www.meridianmfg.com

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