BROCK® On-Farm Hopper Bin Features

Brock Quality Means Secure Storage and More for Your Money

Below is a sampling of the many unique Brock features offered on BROCK® Non-Stiffened Hopper-Bottom Bins:

- **A grain bin-style roof** with a higher load rating is standard on larger diameter hopper bin models; economical feed bin-style roof is standard for smaller models.
- **BROCK® Eave-Vent System** provides more total bin ventilation and eliminates roof cuts.
- **Gravity roof ventilators** provide free air movement into the bin. Round mushroom-style (shown) and elbow-style vents are available.
- **Top quality prime steel** sidewall body sheets with a tensile strength up to 65 ksi (448 Mpa).
- **Identification codes** on every body sheet identify manufacturing date, part number, and steel gauge.
- **Sidewalls** are assembled using Brock's high-strength Grade 8.2 bin seal bolts with special JS1000™ weather-resistant coating.
- Optional Grade 8.2 **polypropylene-encapsulated head bolts** provide enhanced corrosion resistance.
- **Optional sidewall ladders**, as well as safety cages and rest platforms are designed to meet or exceed relevant OSHA standards when installed properly and are fabricated from galvanized steel for long-lasting service.
- **Ladder safety cage** is standard for ladders on bins with an eave height of over 20 feet (6.1 meters).
- Side ladders **allow plenty of space** between rungs and bin wall for a secure footing.
- Brock's **ACCESS PLUS® Hopper Access Door** gives easy access to the interior of the holding bin's hopper.
- **Sturdy "X" bracing** between legs gives additional bin strength. Bracing is simple to assemble and offers easy access to boot.
- **Bin legs** are formed from all-galvanized steel for superior fit, durability, and strength.
- **Bin anchor system** securely fastens the bin to the foundation and is designed to withstand winds up to 90 mph (145 kph).
- BROCK® field-proven **GUARDIAN® Series Fans** are designed for maximum in-bin aeration efficiency.
- The hopper's **discharge opening** may be equipped with heavy-duty rack and pinion or roller unloading gates.
- **Available options** include a variety of components for bin boots and auger systems.

Brock's line of non-stiffened hopper-bottom bins are designed to meet a variety of needs.


Ladder Safety Cage is standard for ladders on bins with an eave height of over 20 feet (6.1 meters).


Side ladders allow plenty of space between rungs and bin wall for a secure footing.

Hopper-Bottom Holding Bins

BROCK®

BROCK® Narrow Corrugation Non-Stiffened Hopper-Bottom Bins						
Bin Size		Maximum Capacity* Peaked Storage			Fill Height	
Diameter (Meters)	Bin Model	Bushels	U.S. Tons Corn	Metric Tons Corn	Feet/ Inches	Meters
9 Ft. (2.7 M) 45° Hopper Angle	45-00931	259	9	6.2	11′ - 10″	3.61
	45-00932	401	13	9.6	14′ - 6″	4.42
	45-00933	543	18	13.0	17′ - 2″	5.23
	45-00934	685	23	16.4	19′ - 10″	6.05
	45-00935	828	28	19.8	22′ - 6″	6.86
	45-00936	970	32	23.3	25′ - 2″	7.67
	45-00937	1112	37	26.7	27′ - 10″	8.48
	45-00938	1254	42	30.1	30′ - 6″	9.30
	45-00939	1396	46	33.5	33′ - 2″	10.11
	45-009310	1539	51	36.9	35′ - 10″	10.92
	45-009311	1681	56	40.3	38′ - 6″	11.74
12 Ft. (3.7 M) 45° Hopper Angle	45-01231	532	18	12.8	14′ - 2″	4.32
	45-01232	785	26	18.8	16′ - 10″	5.13
	45-01233	1038	35	24.9	19′ - 6″	5.94
	45-01234	1291	43	31.0	22′ - 2″	6.76
	45-01235	1544	51	37.0	24′ - 10″	7.57
	45-01236	1798	60	43.1	27′ - 6″	8.38
	45-01237	2051	68	49.2	30′ - 2″	9.19
	45-01238	2304	77	55.2	32′ - 10″	10.01
	45-01239	2557	85	61.3	35′ - 6″	10.82
	45-012310	2810	93	67.4	38′ - 2″	11.63
	45-012311	3063	102	73.5	40′ - 10″	12.45
12 Ft. (3.7 M) 60° Hopper Angle	45-01201	674	22	16.2	19′ - 5″	5.92
	45-01202	927	31	22.2	22′ - 1″	6.73
	45-01203	1180	39	28.3	24′ - 9″	7.54
	45-01204	1433	48	34.4	27′ - 5″	8.36
	45-01205	1686	56	40.4	30′ - 1″	9.17
	45-01206	1939	64	46.5	32′ - 9″	9.98
	45-01207	2193	73	52.6	35′ - 5″	10.80
	45-01208	2446	81	58.6	38′ - 1″	11.61
	45-01209	2699	90	64.7	40′ - 9″	12.42
	45-012010	2952	98	70.8	43′ - 5″	13.23
	45-012011	3205	107	76.9	46′ - 1″	14.05
15 Ft. (4.6 M) 45° Hopper Angle	45-01532	1341	45	32.2	19′ - 2″	5.84
	45-01533	1737	58	41.6	21′ - 10″	6.65
	45-01534	2133	71	51.1	24′ - 6″	7.47
	45-01535	2529	84	60.6	27′ - 2″	8.28
	45-01536	2925	97	70.1	29′ - 10″	9.09
	45-01537	3321	110	79.6	32′ - 6″	9.91
	45-01538	3716	124	89.1	35′ - 2″	10.72
	45-01539	4112	137	98.6	37′ - 10″	11.53
15 Ft. (4.6 M) 60° Hopper Angle	45-01502	1609	53	38.6	25′ - 10″	7.87
	45-01503	2005	67	48.1	28′ - 6″	8.69
	45-01504	2400	80	57.5	31′ - 2″	9.50
	45-01505	2796	93	67.0	33′ - 10″	10.31
	45-01506	3192	106	76.5	36′ - 6″	11.13
	45-01507	3588	119	86.0	39′ - 2″	11.94
	45-01508	3984	132	95.5	41′ - 10″	12.75
	45-01509	4,382	115.7	105.0	44’-6”	13.56
	45-015010	4,778	126.2	114.5	47’-2”	14.37

BROCK® Narrow Corrugation Non-Stiffened Hopper-Bottom Bins						
Bin Size		Maximum Capacity* Peaked Storage			Fill Height	
Diameter (Meters)	Bin Model	Bushels	U.S. Tons Corn	Metric Tons Corn	Feet/ Inches	Meters
18 Ft. (5.5 M) 45° Hopper Angle	45-01832	2092	70	50.2	21′ - 7″	6.58
	45-01833	2662	89	63.8	24′ - 3″	7.39
	45-01834	3233	107	77.5	26′ - 11″	8.20
	45-01835	3803	126	91.2	29′ - 7″	9.02
	45-01836	4373	145	104.8	32′ - 3″	9.83
	45-01837	4944	164	118.5	34′ - 11″	10.64
	45-01838	5514	183	132.2	37′ - 7″	11.46
	45-01839	6085	202	145.9	40′ - 3″	12.27
21 Ft. (6.4 M) 45° Hopper Angle	45-02132	3072	102	73.6	24′ - 0″	7.32
	45-02133	3849	128	92.3	26′ - 8″	8.13
	45-02134	4625	154	110.9	29′ - 4″	8.94
	45-02135	5402	180	129.5	32′ - 0″	9.75
	45-02136	6179	205	148.1	34′ - 8″	10.57
	45-02137	6955	231	166.7	37′ - 4″	11.38
	45-02138	7732	257	185.3	40′ - 0″	12.19

***Maximum Capacity** for a bin allows for grain to be at a 28° angle of repose, starting one inch (25 mm) below the eave. The grain capacities listed above are based on ASAE Standard S413.1, with a compaction factor of 6%. Metric tons are based on ASAE Standard D241.4 of 721 kg per cubic meter for corn and 772 kg per cubic meter for wheat. Standard and optional holding bin roof styles are available as follows:

On-Farm Holding Bin Roof Style	Roof Peak Capacity Rating	Standard Roof Style for Bin Diameters	Optional Roof Style for Bin Diameters
Feed Bin Roof	500 to 1,000 lbs (225-450 kg)	9 to 15 feet (2.7-4.6 m)	
3-Panel Ribbed Roof	1,000 lbs (450 kg)	18 to 21 feet (5.5-6.4 m)	12 to 15 feet (3.7-4.6 m)
4-Panel Ribbed Roof	4,000 lbs (1,800 kg)		15 to 21 feet (4.6-6.4 m)

Roof peak capacity ratings are based on ground snow loads of 40 pounds per square foot (195 kg per square meter). Bins are designed to meet ASCE 7-10 code requirements for 105 mph (169 km/h) wind zones and UBC 97 seismic zone 1. In the pursuit of LEADERSHIP THROUGH INNOVATION®, we reserve the right to change specifications without prior notice.

NOTE: Hopper-bottom bins and silos are designed for the storage of free-flowing materials only. Soybean meal, meat scraps, and many other materials are NOT considered free-flowing and must use approved unloading equipment. Call Brock Grain Systems for approved unloading equipment. Any questions regarding the flowability of different materials should be directed to the material manufacturer. Because you will customize your grain storage system to your unique needs, not all potentially dangerous or harmful situations can be identified by Brock Grain Systems at the time the bin components and accessories are manufactured. Therefore, it is essential that you think safety first and pay close attention to all possible hazards within your storage systems.

Need More Capacity? Ask About Brock’s Commercial Hopper-Bottom Bins In Diameters From 15 To 36 Feet (4.6 To 11 M).