

Farm-Com Specifications

In addition to the Farm-Com series, GSI also manufactures 2.66" corrugated commercial storage bins in capacities over 710,000 bu. (20,000 MT) in a single silo. For hopper bottom storage, GSI offers both the FCHT using the FC silo series and 2.66" corrugated commercial hopper bottomed silos. Contact the GSI dealer nearest you or call the number below for more information. Make GSI your Complete System Manufacturer.



Diameter	Ring	Max Bu. Capacity	Eave Height (Feet)	Peak Height (Feet)	Metric Tons 800 kg/m ³	Metric Tons 721 kg/m ³	Metric Tons 640 kg/m ³	Eave Height (Meters)	Peak Height (Meters)	Maximum Cubic Meters
15	3	1824	11'-1"	15'-1"	51	46	41	3.38	4.60	61
15	4	2365	14'-9"	18'-9"	67	60	53	4.50	5.72	79
15	5	2906	18'-5"	22'-5"	82	73	66	5.61	6.83	98
15	6	3447	22'-1"	26'-1"	97	87	78	6.73	7.95	116
15	7	3988	25'-9"	29'-9"	112	101	90	7.85	9.07	134
15	8	4529	29'-5"	33'-5"	128	115	102	8.97	10.19	152
15	9	5070	33'-1"	37'-1"	143	128	114	10.08	11.30	170
15	10	5457	36'-9"	40'-9"	158	139	127	11.20	12.42	188
15	11	5998	40'-5"	44'-5"	173	152	139	12.32	13.54	206
15	12	6540	44'-1"	48'-1"	189	166	151	13.44	14.66	225
18	3	2681	11'-1"	16'-0"	76	68	60	3.38	4.88	90
18	4	3460	14'-9"	19'-8"	98	87	78	4.50	5.99	116
18	5	4239	18'-5"	23'-4"	119	107	96	5.61	7.11	142
18	6	5018	22'-1"	27'-0"	141	127	113	6.73	8.23	168
18	7	5797	25'-9"	30'-8"	163	147	131	7.85	9.35	195
18	8	6576	29'-5"	34'-4"	185	167	148	8.97	10.46	221
18	9	7354	33'-1"	38'-0"	207	186	166	10.08	11.58	247
18	10	8133	36'-9"	41'-8"	229	206	183	11.20	12.70	273
18	11	8912	40'-5"	45'-4"	251	226	201	12.32	13.82	299
18	12	9691	44'-1"	49'-0"	273	246	219	13.44	14.94	325
21	3	3722	11'-1"	16'-10"	105	94	84	3.38	5.13	125
21	4	4782	14'-9"	20'-6"	135	121	108	4.50	6.25	160
21	5	5843	18'-5"	24'-2"	165	148	132	5.61	7.37	196
21	6	6903	22'-1"	27'-10"	195	175	156	6.73	8.48	232
21	7	7963	25'-9"	31'-6"	224	202	180	7.85	9.60	267
21	8	9023	29'-5"	35'-2"	254	229	203	8.97	10.72	303
21	9	10084	33'-1"	38'-10"	284	256	227	10.08	11.84	338
21	10	11162	36'-9"	42'-6"	314	283	251	11.20	12.95	374
21	11	12222	40'-5"	46'-2"	344	310	275	12.32	14.07	409
21	12	13283	44'-1"	49'-10"	374	337	299	13.44	15.19	445
24	3	4957	11'-1"	17'-8"	140	125	112	3.38	5.38	166
24	4	6342	14'-9"	21'-4"	179	161	143	4.50	6.50	213
24	5	7727	18'-5"	25'-0"	218	196	174	5.61	7.62	259
24	6	9112	22'-1"	28'-8"	257	231	205	6.73	8.74	306
24	7	10496	25'-9"	32'-4"	296	266	237	7.85	9.86	352
24	8	11881	29'-5"	36'-0"	335	301	268	8.97	10.97	399
24	9	13266	33'-1"	39'-8"	374	336	299	10.08	12.09	445
24	10	14651	36'-9"	43'-4"	413	372	330	11.20	13.21	492
24	11	16036	40'-5"	47'-0"	452	407	362	12.32	14.33	538
24	12	17421	44'-1"	50'-8"	491	443	393	13.44	15.44	585
27	3	6395	11'-1"	18'-7"	180	162	144	3.38	5.66	215
27	4	8148	14'-9"	22'-3"	230	206	184	4.50	6.78	273
27	5	9901	18'-5"	25'-11"	279	251	223	5.61	7.90	332
27	6	11653	22'-1"	29'-7"	329	296	263	6.73	9.02	391
27	7	13406	25'-9"	33'-3"	378	340	302	7.85	10.13	450
27	8	15158	29'-5"	36'-11"	427	385	342	8.97	11.25	509
27	9	16911	33'-1"	40'-7"	477	429	381	10.08	12.37	568
27	10	18662	36'-9"	44'-3"	526	474	421	11.20	13.49	626
27	11	20414	40'-5"	47'-11"	576	519	460	12.32	14.61	685
27	12	22166	44'-1"	51'-7"	625	563	500	13.44	15.72	744
30	3	8045	11'-1"	19'-5"	227	204	181	3.38	5.92	270
30	4	10209	14'-9"	23'-1"	288	259	230	4.50	7.04	343
30	5	12372	18'-5"	26'-9"	349	314	279	5.61	8.15	415
30	6	14536	22'-1"	30'-5"	410	369	328	6.73	9.27	488
30	7	16700	25'-9"	34'-1"	471	424	377	7.85	10.39	560
30	8	18864	29'-5"	37'-9"	532	479	425	8.97	11.51	633
30	9	21027	33'-1"	41'-5"	593	534	474	10.08	12.62	706
30	10	23191	36'-9"	45'-1"	654	589	523	11.20	13.74	778
30	11	25355	40'-5"	48'-9"	715	644	572	12.32	14.86	851
30	12	27519	44'-1"	52'-5"	776	699	621	13.44	15.98	924
30	13	29683	47'-9"	56'-1"	837	739	669	14.55	17.10	996

- Specifications and design are subject to change without notice.
- All bins are designed for the storage of grain and other free-flowing materials weighing up to 52 lbs. per cubic foot.
- All 48 ft. and smaller diameter capacities are based on a 27 degree angle of repose. The 54 ft. and 60 ft. diameter capacities are based on a 28 degree angle of repose. Bushel and Metric Tonnage capacities include compaction (generally 5%).
- Peak heights shown for 30 degree slope roofs.
- Typical Grain Densities:
Wheat approximately 800 kg/m³ (50 lb/ft³)
Corn approximately 721 kg/m³ (45 lb/ft³)
Rice approximately 640 kg/m³ (40 lb/ft³)
Cubic volume values include no compaction.

Diameter	Ring	Max Bu. Capacity	Eave Height (Feet)	Peak Height (Feet)	Metric Tons 800 kg/m ³	Metric Tons 721 kg/m ³	Metric Tons 640 kg/m ³	Eave Height (Meters)	Peak Height (Meters)	Maximum Cubic Meters
33	3	9915	11'-1"	20'-7"	280	251	224	3.38	6.27	333
33	4	12533	14'-9"	24'-3"	353	318	283	4.50	7.39	421
33	5	15152	18'-5"	27'-11"	427	384	342	5.61	8.51	508
33	6	17770	22'-1"	31'-7"	501	451	401	6.73	9.63	596
33	7	20388	25'-9"	35'-3"	575	517	460	7.85	10.74	684
33	8	23006	29'-5"	38'-11"	649	584	519	8.97	11.86	772
33	9	25624	33'-1"	42'-7"	722	650	578	10.08	12.98	860
33	10	28242	36'-9"	46'-3"	796	718	637	11.20	14.10	948
33	11	30860	40'-5"	49'-11"	870	785	696	12.32	15.21	1036
33	12	33478	44'-1"	53'-7"	944	851	755	13.44	16.33	1124
33	13	36096	47'-9"	57'-3"	1018	917	814	14.56	17.45	1211
36	3	12015	11'-1"	21'-6"	339	305	271	3.38	6.55	403
36	4	15131	14'-9"	25'-2"	427	384	341	4.50	7.67	508
36	5	18247	18'-5"	28'-10"	514	463	412	5.61	8.79	612
36	6	21363	22'-1"	32'-6"	602	542	482	6.73	9.91	717
36	7	24478	25'-9"	36'-2"	690	621	552	7.85	11.02	822
36	8	27594	29'-5"	39'-10"	778	700	622	8.97	12.14	926
36	9	30710	33'-1"	43'-6"	866	780	693	10.08	13.26	1031
36	10	33825	36'-9"	47'-2"	954	860	763	11.20	14.38	1135
36	11	36940	40'-5"	50'-10"	1041	939	833	12.32	15.49	1240
36	12	40055	44'-1"	54'-6"	1129	1018	903	13.44	16.61	1344
36	13	43170	47'-9"	58'-2"	1217	1097	974	14.56	17.73	1449
42	3	16941	11'-1"	23'-2"	478	430	382	3.38	7.06	569
42	4	21181	14'-9"	26'-10"	597	538	478	4.50	8.18	711
42	5	25422	18'-5"	30'-6"	717	645	573	5.61	9.30	853
42	6	29663	22'-1"	34'-2"	836	753	669	6.73	10.41	996
42	7	33904	25'-9"	37'-10"	956	861	765	7.85	11.53	1138
42	8	38145	29'-5"	41'-6"	1075	968	860	8.97	12.65	1280
42	9	42386	33'-1"	45'-2"	1195	1076	956	10.08	13.77	1423
42	10	46627	36'-9"	48'-10"	1314	1186	1052	11.20	14.88	1565
42	11	50868	40'-5"	52'-6"	1434	1293	1147	12.32	16.00	1707
42	12	55109	44'-1"	56'-2"	1554	1400	1243	13.44	17.12	1850
42	13	59350	47'-9"	59'-10"	1673	1507	1339	14.56	18.24	1992
48	3	22892	11'-1"	24'-11"	645	581	516	3.38	7.59	768
48	4	28431	14'-9"	28'-7"	801	722	641	4.50	8.71	954
48	5	33970	18'-5"	32'-3"	958	862	766	5.61	9.83	1140
48	6	39509	22'-1"	35'-11"	1114	1003	891	6.73	10.95	1326
48	7	45049	25'-9"	39'-7"	1270	1144	1016	7.85	12.07	1512
48	8	50588	29'-5"	43'-3"	1426	1285	1141	8.97	13.18	1698
48	9	56127	33'-1"	46'-11"	1582	1425	1266	10.08	14.30	1884
48	10	61666	36'-9"	50'-7"	1738	1568	1391	11.20	15.42	2070
48	11	67205	40'-5"	54'-3"	1895	1709	1516	12.32	16.54	2256
48	12	72744	44'-1"	57'-11"	2051	1850	1641	13.44	17.66	2441
48	13	78283	47'-9"	61'-7"	2207	1991	1766	14.56	18.78	2627
54	4	37158	14'-9"	30'-3"	1047	944	838	4.50	9.22	1247
54	5	44171	18'-5"	33'-11"	1245	1122	996	5.61	10.34	1482
54	6	51184	22'-1"	37'-7"	1443	1300	1154	6.73	11.46	1718
54	7	58197	25'-9"	41'-3"	1640	1478	1312	7.85	12.57	1953
54	8	65210	29'-5"	44'-11"	1838	1656	1470	8.97	13.69	2188
54	9	72224	33'-1"	48'-7"	2036	1834	1629	10.08	14.81	2423
54	10	79238	36'-9"	52'-3"	2233	2012	1787	11.20	15.93	2659
54	11	86252	40'-5"	55'-11"	2431	2190	1945	12.32	17.05	2894
54	12	93266	44'-1"	59'-7"	2629	2368	2103	13.44	18.17	3129
60	4	47122	14'-9"	32'-0"	1328	1197	1063	4.50	9.75	1581
60	5	55781	18'-5"	35'-8"	1572	1417	1258	5.61	10.87	1872
60	6	64439	22'-1"	39'-4"	1816	1637				

"GSI brings commercial to the farm."



Stiffened VS. Non-Stiffened

Grain Systems has brought sound engineering principals used on large "commercial/stiffened grain tanks to "on-farm"/stiffened grain bins. The same concepts of allowing vertical sidewall stiffeners to carry the often destructive vertical grain loads and allowing sidewall panels to contain grain hoop loads, have been applied to this product line. The graph to the right shows the tremendous increase in vertical load carrying ability that stiffeners bring to normally unstiffened sidewall panels. GSI stiffeners are manufactured from high strength 65,000 PSI (450 MPa) steel and feature strong splice joints and a large cross sectional area for maximum strength.

Solid Support

To securely anchor the bin, special stiffener anchor/base plates are used at each stiffener location. These stiffener anchors effectively hold the bin in position when the bin is full, being unloaded or standing empty. The anchors also provide a bearing plate for each base stiffener.



High Tensile Sidewall

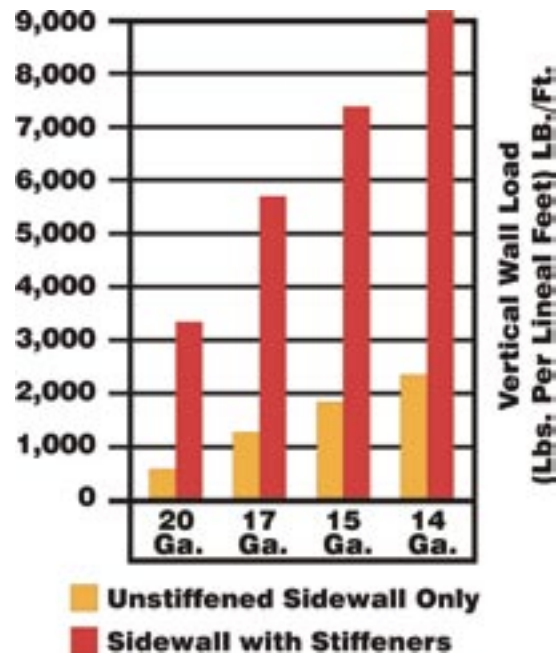
The 4" wide corrugated sidewall design is standard on the Farm-Com Series with each panel double row, hill and valley bolted for strong panel connections. GSI sidewall sheets are 44" tall and constructed from high tensile, galvanized steel for long tank life. In addition, GSI uses graded, Zinc plated, dichromate coated bolts at all connections with sealing washers to keep out the elements.



Weather Resistant

Just as with the corrugated sidewall sheets, GSI fabricates all roofs out of prime, high tensile, G-90 galvanized steel. The higher tensile steel adds up to 20% more strength, with no extra weight, which is critical in clear span structural design. Roof eave clearance can be easily set at the time of installation with the use of GSI eave clips. The roof may be set to increase exhaust area for drying applications or positioned low to help prevent the elements or small pests from entering the bin during long term storage. Each roof rib is roll formed with three supportive bends in the vertical sides and roof ribs are taller, fully double lapped and have four reinforcing ledges for maximum moisture resistance. Roof vent panels feature a tall extruded lip which detours water and condensation around and down the roof panel. Bolt holes in the vent panels have been prepunched to reduce erection costs and insure proper vent placement for maximum airflow.

GSI offers two types of vents to fit your particular setup. The Hinged Grill vent features a vertically mounted, wide spaced, wire grilled screen to keep out pests and swings freely out to allow easy release of trash buildup. The Auto-Vent utilizes a wing shaped damper which floats open when fans are in operation and drops down and closes when fans are off. Both vents are assembled with a heavy duty lock seam and for additional protection, a special die-cut gasket is placed between the vent and the roof panel to further decrease water penetration. GSI also manufactures a power roof exhauster for situations requiring greater airflow. These are available in a 24" diameter, two HP model and an 18" diameter, 1/2 HP model.



Large Peak Openings

A large 30 inch diameter peak opening allows for fast filling, easy access to overhead equipment and greater air flow during drying. GSI's hingeless, galvanized cap slides on rods to open and close, an easy and safer method, especially on windy days. When closed, the peak cap seals tightly and is held securely closed with a spring loaded latch.

Ladders, Ladder Cages and Stairways

Sturdy sidewall ladders, ladder cages and stairways provide easy access to and from the bin roof. Ladder sections are die formed from galvanized steel, come in 22" or 44" lengths and incorporate dimpled rungs for a better grip. All ladder cages are completely galvanized, bolt directly to the prepunched sidewall lad-



ders and feature a bell opening at the bottom of the cage allowing ample space when entering and exiting the ladder. Optional stairways, featuring handrails and perforated steps, are available providing a more convenient alternative to ascending and descending the bin. In addition, GSI manufactures optional, full-circle roof rings and eave platforms providing additional convenience for roof work or inspection.



Easy Access Walk-In Door

All inner door panels on GSI's walk through door open completely with no horizontal bars or braces to unbolt or remove. Specially designed lever latches multiply the inner door opening force by 20 times to counteract friction set from grain loads, requiring no use of wrenches or tools. Other features include a probe opening for easy grain inspection and factory caulked door frames reducing installation time. A heavy-duty 24" diameter access door is also available and standard on some taller Farm-Com bins. And, as an option, a heavy gauge, galvanized step can be ordered providing a step-up to doors or other hard to reach areas.



Complete Systems...

GSI is a complete systems manufacturer offering a complete selection of grain storage, conditioning and handling equipment and accessories including vane-axial and centrifugal fans and heaters, transitions, Top Dry systems, portable dryers, augering equipment, grain spreaders, and stirring devices, and full agrifloor systems. Contact your local dealer, or call GSI at 1-217-226-4421 for more information.



FCDL Series

The Farm-Com series of stiffened bins are a strong, cost effective solution for a wide variety of applications, including storage bins, drying bins, drying bins with stirring devices and drying bins with recirculating equipment. The FCDL bins are provided with 12" plenum punching (standard) to facilitate installation of a full floor. Most bins have a two ring door, which is installed in the upper half of the bottom ring and all of the second ring to facilitate floor installation. Consult with GSI for specifics on appropriate and permissible bin sizes for bin drying application and stirring device installation.

