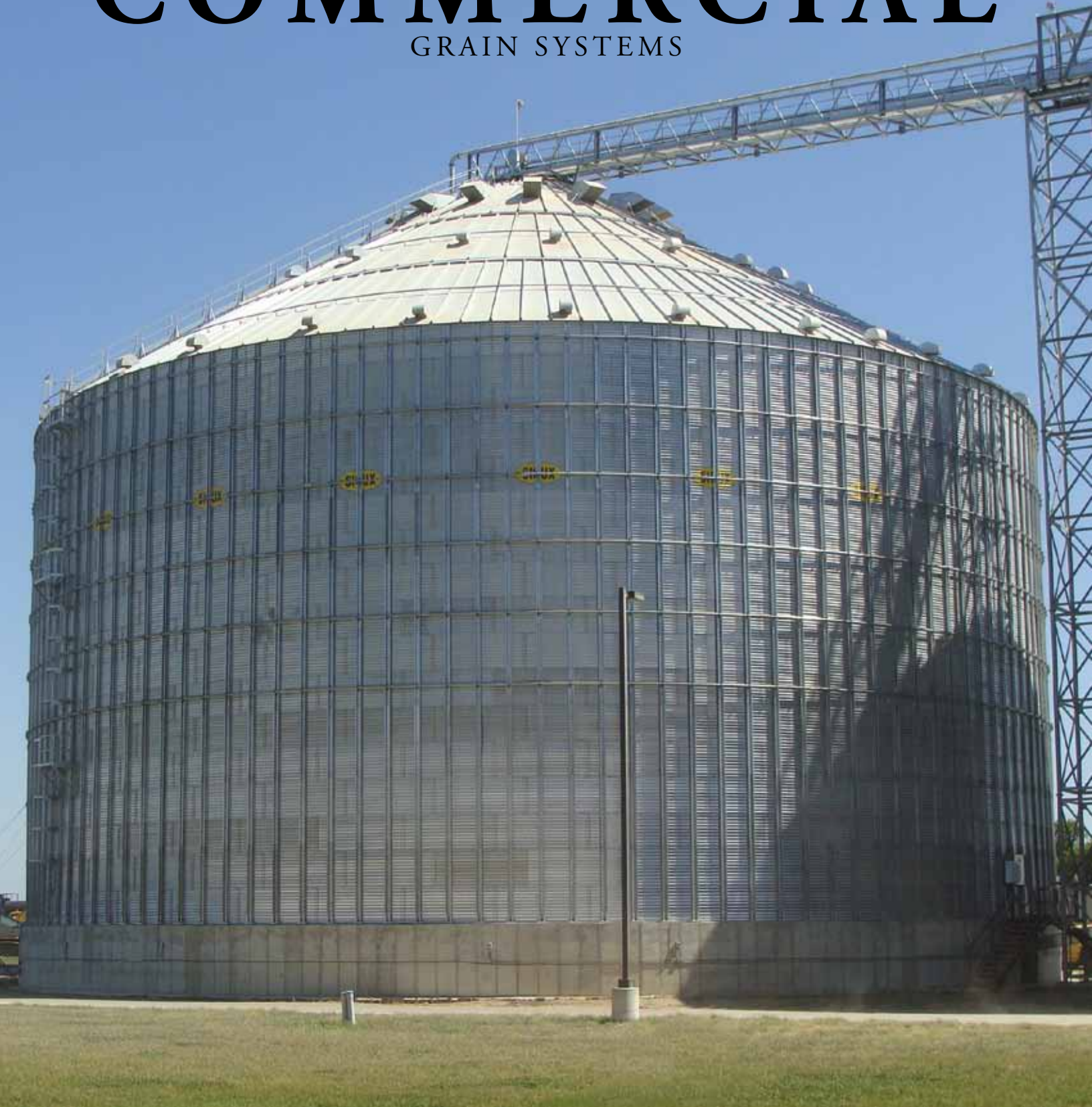


SIoux STEEL GRAIN SYSTEMS



COMMERCIAL

GRAIN SYSTEMS





ENGINEERED USING THE LATEST TECHNOLOGY FOR YOUR GRAIN STORAGE NEEDS

Our roof has reached new heights. High capacity fill equipment, wind and snow place a variety of loads on a bin roof. Strategic purlin placement between the roof rafters results in a strong and efficient roof substructure. Combining a solid substructure with deep ribbed panels creates a roof with unparalleled performance against the elements.

5 OFFERING
YEAR
WARRANTIES ON
COMMERCIAL
BINS

ROOF CONSTRUCTION



FEATURES THAT REINFORCE YOUR CONFIDENCE

Wind Rings

External pressure from wind forces is accounted for through the installation of wind rings which reinforce the sidewalls. Design and quantity of wind rings are determined by diameter and height of bin to adequately handle the external forces of wind.



Anchor System and Shims

The foot and shim system on the Sioux Steel commercial bin ensures stability and even distribution of weight. Together they form a firm and permanent foundation with maximum strength.



Roof Connectors

Horizontal forces from the roof are resisted entirely by tension plates/members. Rafter connectors transfer the vertical forces from the roof directly to the sidewall stiffeners and ultimately to the concrete foundation. These load paths minimize sidewall stress.



SIMES BIN JACKING SYSTEMS

The Simes Bin Jacking System has been in use for over 25 years, and has lifted everything from farm bins to the monster super bins. With the experience and the feedback we have had over the years, we can state that the Simes Systems are the safest, most reliable, and easiest to set up on the market today.

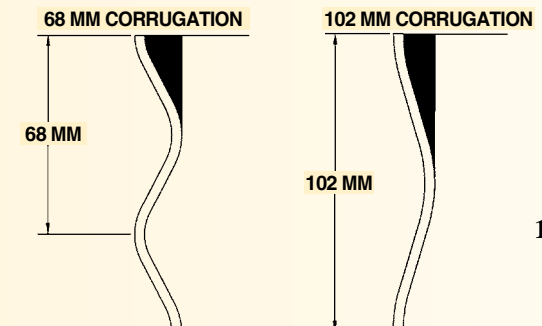
www.sioxsimesjacks.com

SIMES JACKING SYSTEM



Sidewall Strength

Manufactured with 448 MPa tensile strength steel (345 MPa yield strength) and utilizing 102 mm corrugation, Sioux Steel commercial tanks offer the ultimate in vertical strength. Plus, advanced analysis software allows engineers the ability to measure critical stress points throughout.



102 mm Corrugation

Combining 112 cm sheets and 3 roof panels per single sheet lessens the demand for bolts, nuts and washers which, in turn, lowers weight and erection costs.

102 mm wide corrugation provides more vertical strength and less resistance to flow than 68 mm corrugation.



40,23 M NEXT TO 32 M

LOCATED IN MERRILL, IA



40,23 M COMMERCIAL GRAIN BIN

HOLDS OVER 1 MILLION BUSHELS!

Not only does the new 40,23 m grain bin hold over 1 million bushels of grain, but has a roof that supports 15,88 tons of peak load, plus 29,48 tons of wind and unbalanced snow load. To show just how strong the roof really is, the employees of Sioux Steel Company came together to stand on a platform that was hung from the roof of the bin. The employees wanted to show, literally, that they not only stand behind the products that they build, but they will stand under them!

Scott Rysdon, CEO

We Don't Just Want Our Customers To Be Satisfied, We Want Them To Be DELIGHTED To Do Business With Us!



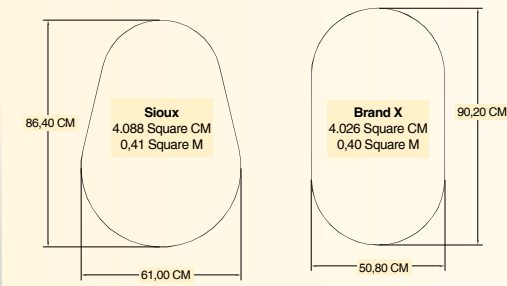
LARGEST MAN-WAY IN THE INDUSTRY!

Sioux Steel's man-way is 61 cm x 86,40 cm, giving you the ability to maneuver easily through the opening.

ENGINEERING SOLUTIONS SINCE 1918

Man-Way

The unique ovate construction of the man-way is the largest and most "user-friendly" in the industry. It is designed to allow access to a heavily-clothed individual.



Roof Substructure

The roof substructure is engineered for additional strength to withstand added load pressures from conveyors, catwalks and the natural elements.

High Quality Fasteners

Grade 82 bolts, protected by a DACROMET® finish, are used throughout the bin along with self-sealing washers, insuring integrity and lasting rust protection.

Access Doors

Doors are strategically placed, depending on the diameter and height of the bin, for maximum integrity and strength. All feature tieless inside panels, secure latching and a large 91,44 cm x 68,60 cm. opening.

Roof Vents

Roof vents have a large 38,10 cm x 38,10 cm inlet area for free air movement. Pre-cut holes with an extended lip affords a tight and permanent seal that resists moisture and condensation.

Full & Flush Floor

Designs range from a variety of in-concrete systems to full floor using 16, 18 or 20 gauge planking formulated by height & diameter. Choose from a welded free flow system of supports or die cast supports of 17 or 20 ga.

Fans

Sioux aeration fans are engineered to offer the best airflow in the industry and are designed to equalize the temperatures of stored grain to maintain a profitable and high-quality product.

Centrifugal Fans

Manufactured with heavy 11 gauge side rails, centrifugal fans have less vibration, adding to the longevity of this fan.

Axial Fans

Airflow is increased by not allowing air to blow back through the blade and the housing for greater efficiency.



Note: Other Sizes Are Available.

7,32 M DIAMETER

PRODUCT NUMBER	ROWS	EAVE HEIGHT (M)	TOTAL HEIGHT (M)	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS24100	10	11,18	13,11	13.980	14.787	379	401
SCS24110	11	12,29	14,22	15.378	16.185	417	439
SCS24120	12	13,41	15,34	16.777	17.583	455	476
SCS24130	13	14,53	16,46	18.175	18.981	492	514
SCS24140	14	15,65	17,58	19.573	20.379	530	552
SCS24150	15	16,76	18,69	20.971	21.777	568	590
SCS24160	16	17,88	19,81	22.369	23.175	606	628
SCS24170	17	19	20,93	23.767	24.573	644	666
SCS24180	18	20,12	22,05	25.165	25.971	682	704
SCS24190	19	21,23	23,16	26.563	27.369	720	742
SCS24200	20	22,35	24,28	27.961	28.768	758	779
SCS24210	21	23,47	25,40	29.359	30.166	795	817
SCS24220	22	24,59	26,52	30.757	31.564	833	855
SCS24230	23	25,70	27,64	32.155	32.962	871	893
SCS24240	24	26,82	28,75	33.553	34.360	909	931

8,23 M DIAMETER

PRODUCT NUMBER	ROWS	EAVE HEIGHT (M)	TOTAL HEIGHT (M)	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS27100	10	11,18	13,39	17.694	18.842	479	511
SCS27110	11	12,29	14,50	19.463	20.612	527	558
SCS27120	12	13,41	15,62	21.233	22.381	575	606
SCS27130	13	14,53	16,74	23.002	24.150	623	654
SCS27140	14	15,65	17,86	24.771	25.920	671	702
SCS27150	15	16,76	18,97	26.541	27.689	719	750
SCS27160	16	17,88	20,09	28.310	29.459	767	798
SCS27170	17	19	21,21	30.080	31.228	815	846
SCS27180	18	20,12	22,33	31.849	32.997	863	894
SCS27190	19	21,23	23,44	33.618	34.767	911	942
SCS27200	20	22,35	24,56	35.388	36.536	959	990
SCS27210	21	23,47	25,68	37.157	38.306	1.007	1.038
SCS27220	22	24,59	26,80	38.926	40.075	1.055	1.086
SCS27230	23	25,70	27,91	40.696	41.844	1.103	1.134
SCS27240	24	26,82	29,03	42.465	43.614	1.151	1.182

9,14 M DIAMETER

PRODUCT NUMBER	ROWS	EAVE HEIGHT (M)	TOTAL HEIGHT (M)	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS30100	10	11,18	13,69	21.846	23.421	592	635
SCS30110	11	12,29	14,81	24.030	25.606	651	694
SCS30120	12	13,41	15,92	26.215	27.790	710	753
SCS30130	13	14,53	17,04	28.399	29.975	769	812
SCS30140	14	15,65	18,16	30.584	32.159	829	871
SCS30150	15	16,76	19,28	32.768	34.344	888	931
SCS30160	16	17,88	20,40	34.953	36.528	947	990
SCS30170	17	19	21,51	37.137	38.713	1.006	1.049
SCS30180	18	20,12	22,63	39.322	40.898	1.065	1.108
SCS30190	19	21,23	23,75	41.507	43.082	1.125	1.167
SCS30200	20	22,35	24,87	43.691	45.267	1.184	1.226
SCS30210	21	23,47	25,98	45.876	47.451	1.243	1.286
SCS30220	22	24,59	27,10	48.060	49.636	1.302	1.345
SCS30230	23	25,70	28,22	50.245	51.820	1.361	1.404
SCS30240	24	26,82	29,34	52.429	54.005	1.421	1.463

10,06 M DIAMETER

PRODUCT NUMBER	ROWS	EAVE HEIGHT (M)	TOTAL HEIGHT (M)	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS33100	10	11,18	13,97	26.433	28.530	716	773
SCS33110	11	12,29	15,09	29.076	31.173	788	845
SCS33120	12	13,41	16,21	31.719	33.817	859	916
SCS33130	13	14,53	17,32	34.363	36.460	931	988
SCS33140	14	15,65	18,44	37.006	39.103	1.003	1.059
SCS33150	15	16,76	19,56	39.649	41.746	1.074	1.131
SCS33160	16	17,88	20,68	42.293	44.390	1.146	1.203
SCS33170	17	19	21,79	44.936	47.033	1.217	1.274
SCS33180	18	20,12	22,91	47.579	49.676	1.289	1.346
SCS33190	19	21,23	24,03	50.222	52.320	1.361	1.418
SCS33200	20	22,35	25,15	52.866	54.963	1.432	1.489
SCS33210	21	23,47	26,26	55.509	57.606	1.504	1.561
SCS33220	22	24,59	27,38	58.152	60.249	1.576	1.632
SCS33230	23	25,70	28,50	60.796	62.893	1.647	1.704
SCS33240	24	26,82	29,62	63.439	65.536	1.719	1.776

10,97 M DIAMETER

PRODUCT NUMBER	ROWS	EAVE HEIGHT (M)	TOTAL HEIGHT (M)	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS36100	10	11,18	14,25	31.457	34.179	852	926
SCS36110	11	12,29	15,37	34.603	37.325	938	1.011
SCS36120	12	13,41	16,48	37.748	40.471	1.023	1.097
SCS36130	13	14,53	17,60	40.894	43.616	1.108	1.182
SCS36140	14	15,65	18,72	44.040	46.762	1.193	1.267
SCS36150	15	16,76	19,84	47.185	49.908	1.278	1.352
SCS36160	16	17,88	20,96	50.331	53.054	1.364	1.437
SCS36170	17	19	22,07	53.477	56.199	1.449	1.523
SCS36180	18	20,12	23,19	56.622	59.345	1.534	1.608
SCS36190	19	21,23	24,31	59.768	62.491	1.619	1.693
SCS36200	20	22,35	25,43	62.914	65.636	1.705	1.778
SCS36210	21	23,47	26,54	66.059	68.782	1.790	1.864
SCS36220	22	24,59	27,66	69.205	71.928	1.875	1.949
SCS36230	23	25,70	28,78	72.351	75.073	1.960	2.034
SCS36240	24	26,82	29,90	75.497	78.219	2.045	2.119

12,80 M DIAMETER

PRODUCT NUMBER	ROWS	EAVE HEIGHT (M)	TOTAL HEIGHT (M)	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS42100	10	11,18	14,81	42.816	47.139	1.160	1.277
SCS42110	11	12,29	15,92	47.097	51.420	1.276	1.393
SCS42120	12	13,41	17,04	51.379	55.702	1.392	1.509
SCS42130	13	14,53	18,16	55.660	59.984	1.508	1.625
SCS42140	14	15,65	19,28	59.942	64.265	1.624	1.741
SCS42150	15	16,76	20,40	64.223	68.547	1.740	1.857
SCS42160	16	17,88	21,51	68.505	72.828	1.856	1.973
SCS42170	17	19	22,63	72.787	77.110	1.972	2.089
SCS42180	18	20,12	23,75	77.068	81.391	2.088	2.205
SCS42190	19	21,23	24,87	81.350	85.673	2.204	2.321
SCS42200	20	22,35	25,98	85.631	89.954	2.320	2.437
SCS42210	21	23,47	27,10	89.913	94.236	2.436	2.553
SCS42220	22	24,59	28,22	94.194	98.518	2.552	2.669
SCS42230	23	25,70	29,34	98.476	102.799	2.668	2.785
SCS42240	24	26,82	30,45	102.758	107.081	2.784	2.901

14,63 M DIAMETER

PRODUCT NUMBER	ROWS	EAVE HEIGHT (M)	TOTAL HEIGHT (M)	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS48100	10	11,18	15,39	55.924	62.378	1.515	1.690
SCS48110	11	12,29	16,51	61.517	67.970	1.667	1.842
SCS48120	12	13,41	17,63	67.109	73.562	1.818	1.993
SCS48130	13	14,53	18,75	72.701	79.155	1.970	2.145
SCS48140	14	15,65	19,86	78.294	84.747	2.121	2.296
SCS48150	15	16,76	20,98	83.886	90.340	2.273	2.448
SCS48160	16	17,88	22,10	89.479	95.932	2.424	2.599
SCS48170	17	19	23,22	95.071	101.525	2.576	2.751
SCS48180	18	20,12	24,33	100.663	107.117	2.727	2.902
SCS48190	19	21,23	25,45	106.256	112.709	2.879	3.054
SCS48200	20	22,35	26,57	111.848	118.302	3.030	3.205
SCS48210	21	23,47	27,69	117.441	123.894	3.182	3.357
SCS48220	22	24,59	28,80	123.033	129.487	3.333	3.508
SCS48230	23	25,70	29,92	128.626	135.079	3.485	3.660
SCS48240	24	26,82	31,04	134.218	140.671	3.636	3.811

16,46 M DIAMETER

PRODUCT NUMBER	ROWS	EAVE HEIGHT (M)	TOTAL HEIGHT (M)	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS54100	10	11,18	16,08	70.778	79.967	1.918	2.167
SCS54110	11	12,29	17,20	77.856	87.044	2.109	2.358
SCS54120	12	13,41	18,31	84.934	94.122	2.301	2.550
SCS54130	13	14,53	19,43	92.011	101.200	2.493	2.742
SCS54140	14	15,65	20,55	99.089	108.278	2.685	2.934
SCS54150	15	16,76	21,67	106.167	115.356	2.876	3.125
SCS54160	16	17,88	22,78	113.245	122.433	3.068	3.317
SCS54170	17	19	23,90	120.323	129.511	3.260	3.509
SCS54180	18	20,12	25,02	127.400	136.589	3.452	3.701
SCS54190	19	21,23	26,14	134.478	143.667	3.644	3.892
SCS54200	20	22,35	27,25	141.556	150.745	3.835	4.084
SCS54210	21	23,47	28,37	148.634	157.822	4.027	4.276
SCS54220	22	24,59	29,49	155.712	164.900	4.219	4.468
SCS54230	23	25,70	30,61	162.789	171.978	4.411	4.660
SCS54240	24	26,82	31,72	169.867	179.056	4.602	4.851
SCS54250	25	27,94	32,84	176.945	186.134	4.794	5.043

18,29 M DIAMETER

PRODUCT NUMBER	ROWS	EAVE HEIGHT (M)	TOTAL HEIGHT (M)	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS60100	10	11,18	16,64	87.379	99.983	2.367	2.709
SCS60110	11	12,29	17,75	96.117	108.721	2.604	2.946
SCS60120	12	13,41	18,87	104.855	117.459	2.841	3.182
SCS60130	13	14,53	19,99	113.593	126.197	3.078	3.419
SCS60140	14	15,65	21,11	122.331	134.935	3.314	3.656
SCS60150							



SIOUX STEEL COMMERCIAL BINS



Bin Accessories

Choose from a range of accessories to enhance the use and functionality of your commercial bin.

- Bucket Elevators
- Conveyors
- Cage & Ladder Systems
- Catwalks & Towers
- Grain Dryers
- Peak Walk-Arounds
- Roof Exhausters
- Roof Stairs
- Stairways

Custom Floor Designs

A variety of floor systems are available from full floors above concrete with custom plenum heights, to flush in concrete patterns designed for your installation. Sioux Steel Company can also provide hopper bottom aeration systems for concrete hopper foundations or steel commercial hopper bottom tanks.

Sioux Steel Company

PO Box 1265

196 112 E 6th St, Sioux Falls, SD 57101

1-800-557-4689

www.siouxsteel.com

info@siouxsteel.com

