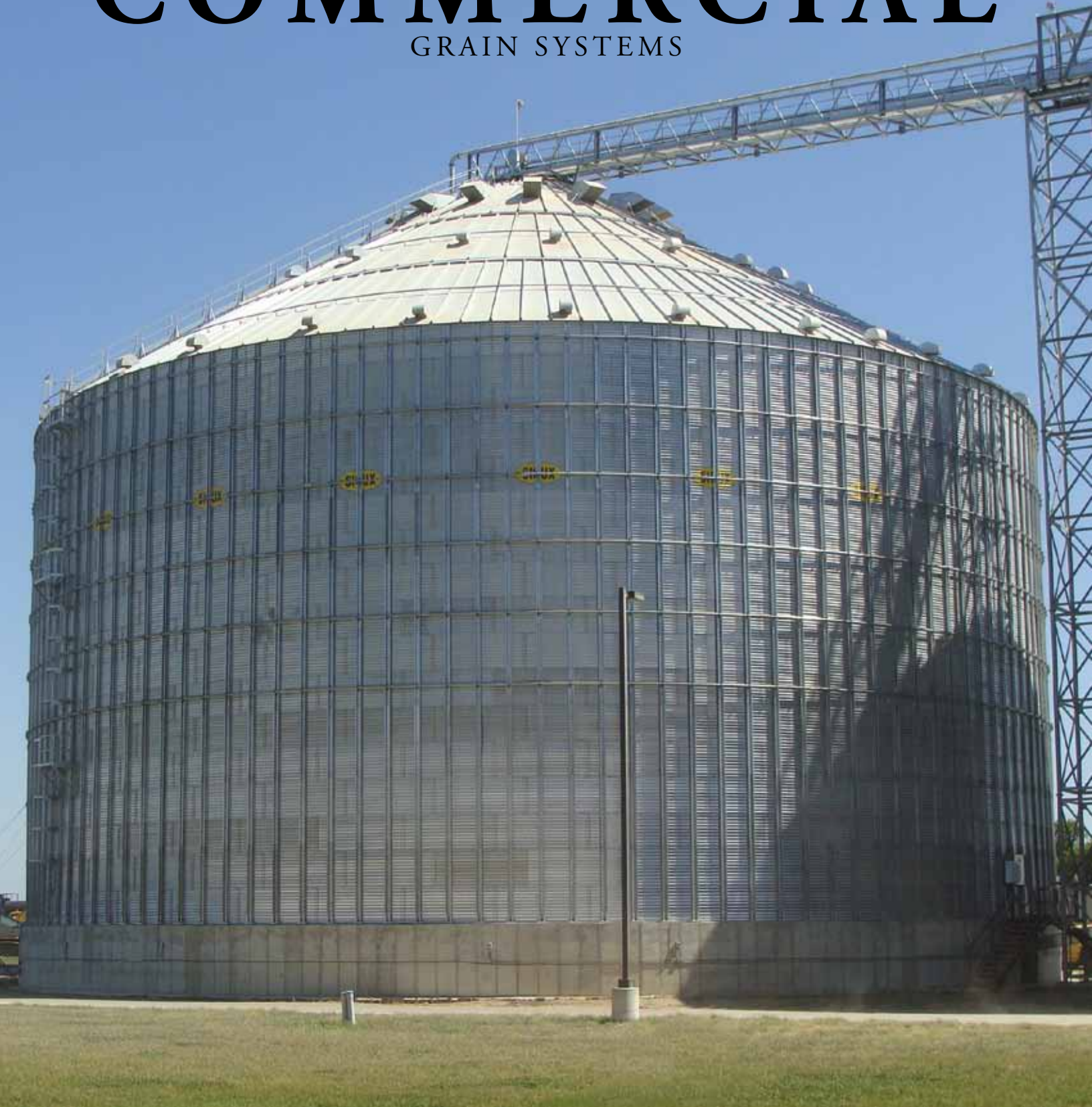


SIoux STEEL GRAIN SYSTEMS



# 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.



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.



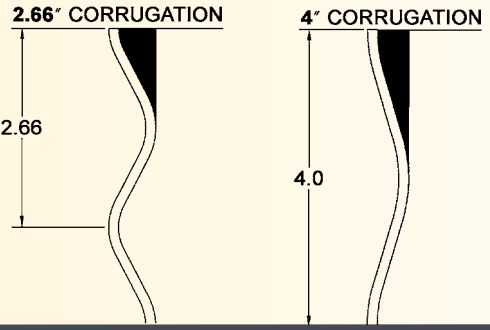
**Roof Connectors**

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.



**Sidewall Strength**

Manufactured with 65,000# PSI tensile strength steel (50,000# yield strength) and utilizing 4" 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.



**4" Corrugation**

Combining 44 inch sheets and 3 roof panels per single sheet lessens the demand for bolts, nuts and washers which, in turn, lowers weight and erection costs.

**4" wide corrugation provides more vertical strength and less resistance to flow than 2.66" corrugation.**



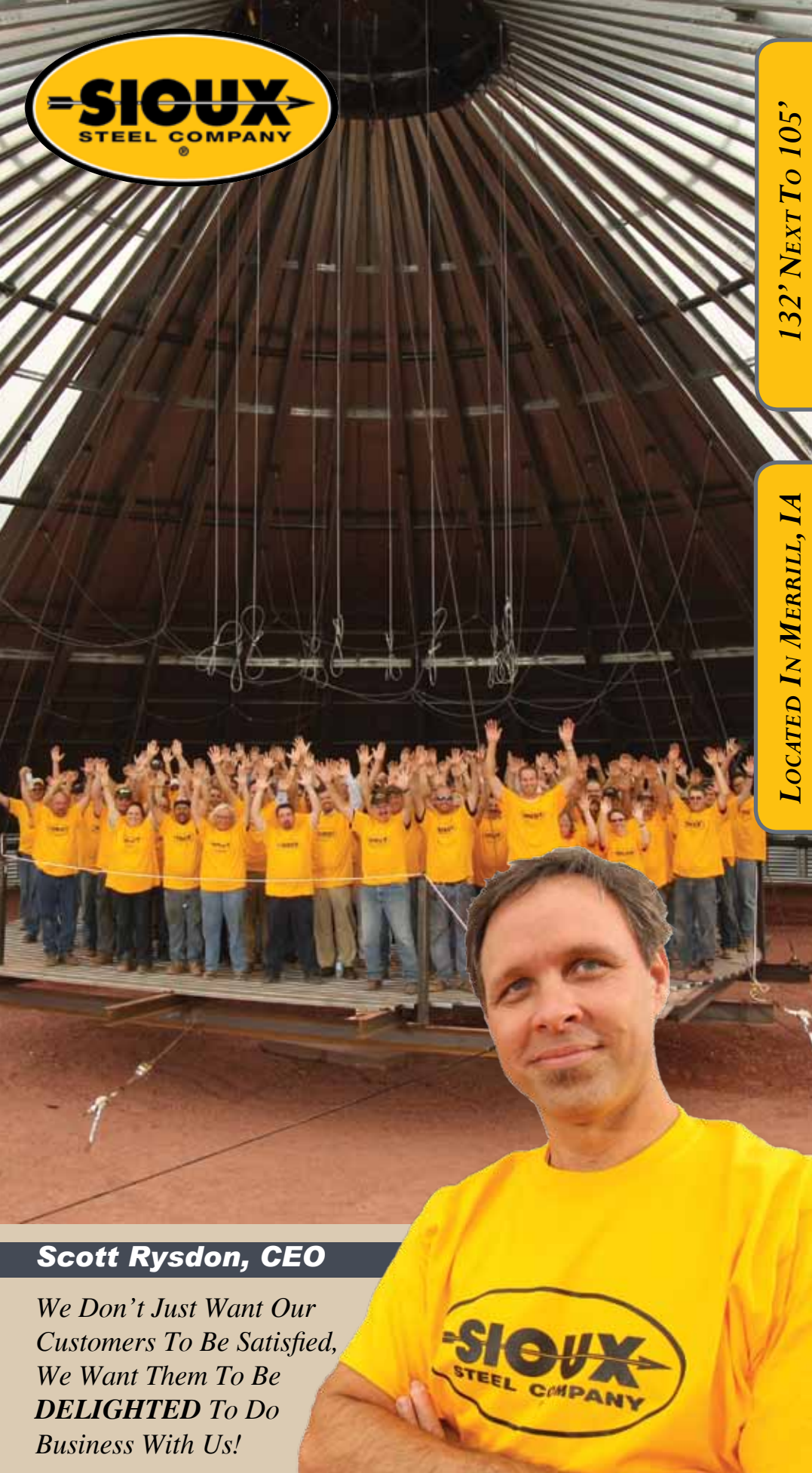
**SIMES BIN JACKING SYSTEMS**

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](http://www.sioxsimesjacks.com)

SIMES JACKING SYSTEM





132' NEXT TO 105'

LOCATED IN MERRILL, IA



# 132' COMMERCIAL GRAIN BIN

*HOLDS OVER 1 MILLION BUSHELS!*

Not only does the new 132' grain bin hold over 1 million bushels of grain, but has a roof that supports 35,000 lbs. of peak load, plus 65,000 lbs. 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!*



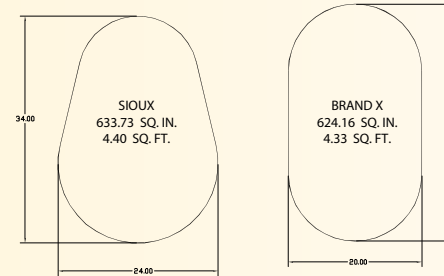
## LARGEST MAN-WAY IN THE INDUSTRY!

Sioux Steel's man-way is 24" x 34", 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 8.2 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 36" x 27" opening.

### Roof Vents

Roof vents have a large 15" x 15" 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.

**24 FEET DIAMETER**

PRODUCT NUMBER	ROWS	EAVE HT. FT.	TOTAL HT. FT.	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS24100	10	36' 8"	43'	13,980	14,787	379	401
SCS24110	11	40' 4"	46' 8"	15,378	16,185	417	439
SCS24120	12	44'	50' 4"	16,777	17,583	455	476
SCS24130	13	47' 8"	54'	18,175	18,981	492	514
SCS24140	14	51' 4"	57' 8"	19,573	20,379	530	552
SCS24150	15	55'	61' 4"	20,971	21,777	568	590
SCS24160	16	58' 8"	65'	22,369	23,175	606	628
SCS24170	17	62' 4"	68' 8"	23,767	24,573	644	666
SCS24180	18	66'	72' 4"	25,165	25,971	682	704
SCS24190	19	69' 8"	76'	26,563	27,369	720	742
SCS24200	20	73' 4"	79' 8"	27,961	28,768	758	779
SCS24210	21	77'	83' 4"	29,359	30,166	795	817
SCS24220	22	80' 8"	87'	30,757	31,564	833	855
SCS24230	23	84' 4"	90' 8"	32,155	32,962	871	893
SCS24240	24	88'	94' 4"	33,553	34,360	909	931

**36 FEET DIAMETER**

PRODUCT NUMBER	ROWS	EAVE HT. FT.	TOTAL HT. FT.	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS36100	10	36' 8"	46' 9"	31,457	34,179	852	926
SCS36110	11	40' 4"	50' 5"	34,603	37,325	938	1,011
SCS36120	12	44'	54' 1"	37,748	40,471	1,023	1,097
SCS36130	13	47' 8"	57' 9"	40,894	43,616	1,108	1,182
SCS36140	14	51' 4"	61' 5"	44,040	46,762	1,193	1,267
SCS36150	15	55'	65' 1"	47,185	49,908	1,278	1,352
SCS36160	16	58' 8"	68' 9"	50,331	53,054	1,364	1,437
SCS36170	17	62' 4"	72' 5"	53,477	56,199	1,449	1,523
SCS36180	18	66'	76' 1"	56,622	59,345	1,534	1,608
SCS36190	19	69' 8"	79' 9"	59,768	62,491	1,619	1,693
SCS36200	20	73' 4"	83' 5"	62,914	65,636	1,705	1,778
SCS36210	21	77'	87' 1"	66,059	68,782	1,790	1,864
SCS36220	22	80' 8"	90' 9"	69,205	71,928	1,875	1,949
SCS36230	23	84' 4"	94' 5"	72,351	75,073	1,960	2,034
SCS36240	24	88'	98' 1"	75,497	78,219	2,045	2,119

**60 FEET DIAMETER**

PRODUCT NUMBER	ROWS	EAVE HT. FT.	TOTAL HT. FT.	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS60100	10	36' 8"	54' 7"	87,379	99,983	2,367	2,709
SCS60110	11	40' 4"	58' 3"	96,117	108,721	2,604	2,946
SCS60120	12	44'	61' 11"	104,855	117,459	2,841	3,182
SCS60130	13	47' 8"	65' 7"	113,593	126,197	3,078	3,419
SCS60140	14	51' 4"	69' 3"	122,331	134,935	3,314	3,656
SCS60150	15	55'	72' 11"	131,069	143,673	3,551	3,893
SCS60160	16	58' 8"	76' 7"	139,807	152,411	3,788	4,129
SCS60170	17	62' 4"	80' 3"	148,545	161,149	4,025	4,366
SCS60180	18	66'	83' 11"	157,283	169,887	4,261	4,603
SCS60190	19	69' 8"	87' 7"	166,021	178,625	4,498	4,840
SCS60200	20	73' 4"	91' 3"	174,759	187,363	4,735	5,076
SCS60210	21	77'	94' 11"	183,497	196,101	4,972	5,313
SCS60220	22	80' 8"	98' 7"	192,234	204,838	5,208	5,550
SCS60230	23	84' 4"	102' 3"	200,972	213,576	5,445	5,787
SCS60240	24	88'	105' 11"	209,710	222,314	5,682	6,023
SCS60250	25	91' 8"	109' 7"	218,448	231,052	5,919	6,260

**78 FEET DIAMETER**

PRODUCT NUMBER	ROWS	EAVE HT. FT.	TOTAL HT. FT.	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS78100	10	36' 8"	60' 2"	147,671	175,363	4,001	4,751
SCS78110	11	40' 4"	63' 10"	162,439	190,130	4,401	5,151
SCS78120	12	44'	67' 6"	177,206	204,897	4,801	5,551
SCS78130	13	47' 8"	71' 2"	191,973	219,664	5,201	5,952
SCS78140	14	51' 4"	74' 10"	206,740	234,431	5,601	6,352
SCS78150	15	55'	78' 6"	221,507	249,198	6,001	6,752
SCS78160	16	58' 8"	82' 2"	236,274	263,965	6,402	7,152
SCS78170	17	62' 4"	85' 10"	251,041	278,733	6,802	7,552
SCS78180	18	66'	89' 6"	265,808	293,500	7,202	7,952
SCS78190	19	69' 8"	93' 2"	280,576	308,267	7,602	8,352
SCS78200	20	73' 4"	96' 10"	295,343	323,034	8,002	8,752
SCS78210	21	77'	100' 6"	310,110	337,801	8,402	9,152
SCS78220	22	80' 8"	104' 2"	324,877	352,568	8,802	9,552
SCS78230	23	84' 4"	107' 10"	339,644	367,335	9,202	9,953
SCS78240	24	88'	111' 6"	354,411	382,103	9,602	10,353
SCS78250	25	91' 8"	115' 2"	369,178	396,870	10,002	10,753

**27 FEET DIAMETER**

PRODUCT NUMBER	ROWS	EAVE HT. FT.	TOTAL HT. FT.	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS27100	10	36' 8"	43' 11"	17,694	18,842	479	511
SCS27110	11	40' 4"	47' 7"	19,463	20,612	527	558
SCS27120	12	44'	51' 3"	21,233	22,381	575	606
SCS27130	13	47' 8"	54' 11"	23,002	24,150	623	654
SCS27140	14	51' 4"	58' 7"	24,771	25,920	671	702
SCS27150	15	55'	62' 3"	26,541	27,689	719	750
SCS27160	16	58' 8"	65' 11"	28,310	29,459	767	798
SCS27170	17	62' 4"	69' 7"	30,080	31,228	815	846
SCS27180	18	66'	73' 3"	31,849	32,997	863	894
SCS27190	19	69' 8"	76' 11"	33,618	34,767	911	942
SCS27200	20	73' 4"	80' 7"	35,388	36,536	959	990
SCS27210	21	77'	84' 3"	37,157	38,306	1,007	1,038
SCS27220	22	80' 8"	87' 11"	38,926	40,075	1,055	1,086
SCS27230	23	84' 4"	91' 7"	40,696	41,844	1,103	1,134
SCS27240	24	88'	95' 3"	42,465	43,614	1,151	1,182

**42 FEET DIAMETER**

PRODUCT NUMBER	ROWS	EAVE HT. FT.	TOTAL HT. FT.	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS42100	10	36' 8"	48' 7"	42,816	47,139	1,160	1,277
SCS42110	11	40' 4"	52' 3"	47,097	51,420	1,276	1,393
SCS42120	12	44'	55' 11"	51,379	55,702	1,392	1,509
SCS42130	13	47' 8"	59' 7"	55,660	59,984	1,508	1,625
SCS42140	14	51' 4"	63' 3"	59,942	64,265	1,624	1,741
SCS42150	15	55'	66' 11"	64,223	68,547	1,740	1,857
SCS42160	16	58' 8"	70' 7"	68,505	72,828	1,856	1,973
SCS42170	17	62' 4"	74' 3"	72,787	77,110	1,972	2,089
SCS42180	18	66'	77' 11"	77,068	81,391	2,088	2,205
SCS42190	19	69' 8"	81' 7"	81,350	85,673	2,204	2,321
SCS42200	20	73' 4"	85' 3"	85,631	89,954	2,320	2,437
SCS42210	21	77'	88' 11"	89,913	94,236	2,436	2,553
SCS42220	22	80' 8"	92' 7"	94,194	98,518	2,552	2,669
SCS42230	23	84' 4"	96' 3"	98,476	102,799	2,668	2,785
SCS42240	24	88'	99' 11"	102,758	107,081	2,784	2,901

**66 FEET DIAMETER**

PRODUCT NUMBER	ROWS	EAVE HT. FT.	TOTAL HT. FT.	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS66100	10	36' 8"	56' 5"	105,728	122,504	2,865	3,319
SCS66110	11	40' 4"	60' 1"	116,301	133,077	3,151	3,606
SCS66120	12	44'	63' 9"	126,874	143,649	3,437	3,892
SCS66130	13	47' 8"	67' 5"	137,446	154,222	3,724	4,178
SCS66140	14	51' 4"	71' 1"	148,019	164,795	4,010	4,465
SCS66150	15	55'	74' 9"	158,592	175,368	4,297	4,751
SCS66160	16	58' 8"	78' 5"	169,165	185,941	4,583	5,038
SCS66170	17	62' 4"	82' 1"	179,738	196,513	4,870	5,324
SCS66180	18	66'	85' 9"	190,310	207,086	5,156	5,611
SCS66190	19	69' 8"	89' 5"	200,883	217,659	5,443	5,897
SCS66200	20	73' 4"	93' 1"	211,456	228,232	5,729	6,184
SCS66210	21	77'	96' 9"	222,029	238,805	6,016	6,470
SCS66220	22	80' 8"	100' 5"	232,602	249,377	6,302	6,757
SCS66230	23	84' 4"	104' 1"	243,174	259,950	6,589	7,043
SCS66240	24	88'	107' 9"	253,747	270,523	6,875	7,330
SCS66250	25	91' 8"	111' 5"	264,320	281,096	7,161	7,616

**90 FEET DIAMETER**

PRODUCT NUMBER	ROWS	EAVE HT. FT.	TOTAL HT. FT.	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS90100	10	36' 8"	63' 11"	196,604	239,143	5,327	6,479
SCS90110	11	40' 4"	67' 7"	216,265	258,804	5,859	7,012
SCS90120	12	44'	71' 3"	235,925	278,464	6,392	7,545
SCS90130	13	47' 8"	74' 11"	255,586	298,125	6,925	8,077
SCS90140	14	51' 4"	78' 7"	275,246	317,785	7,457	8,610
SCS90150	15	55'	82' 3"	294,906	337,445	7,990	9,143
SCS90160	16	58' 8"	85' 11"	314,567	357,106	8,523	9,675
SCS90170	17	62' 4"	89' 7"	334,227	376,766	9,056	10,208
SCS90180	18	66'	93' 3"	353,888	396,427	9,588	10,741
SCS90190	19	69' 8"	96' 11"	373,548	416,087	10,121	11,273
SCS90200	20	73' 4"	100' 7"	393,209	435,748	10,654	11,806
SCS90210	21	77'	104' 3"	412,869	455,408	11,186	12,339
SCS90220	22	80' 8"	107' 11"	432,529	475,068	11,719	12,871
SCS90230	23	84' 4"	111' 7"	452,190	494,729	12,252	13,404
SCS90240	24	88'	115' 3"	471,850	514,389	12,784	13,937
SCS90250	25	91' 8"	118' 11"	491,511	534,050	13,317	14,469

**30 FEET DIAMETER**

PRODUCT NUMBER	ROWS	EAVE HT. FT.	TOTAL HT. FT.	BUSHEL LEVEL	BUSHEL PEAKED	WT MET LEVEL	WT MET PEAK
SCS30100	10	36' 8"	44' 11"	21,846	23,421	592	635
SCS30110	11	40' 4"	48' 7"	24,030	25,606	651	694
SCS30120	12	44'	52' 3"	26,215	27,790	710	753
SCS30130	13	47' 8"	55' 11"	28,399	29,975	769	812
SCS30140	14	51' 4"	59' 7"	30,			



## 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](http://www.siouxsteel.com)***

***[info@siouxsteel.com](mailto:info@siouxsteel.com)***

