ABEL

Square Storage Bin Systems



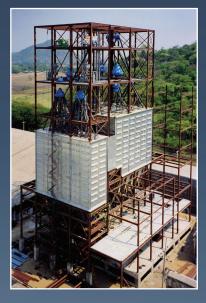
STRENGTH • DURABILITY • FLEXIBLE DESIGN



With over 50 years of successful design and manufacturing experience, Abel has the proven ability to supply storage systems that will assure the success of your next project.



- Optimized bin designs are available for almost any application including feed, seed, grain, pet food, fertilizer, plastics, aggregates and many others.
- Three bin designs to choose from including single, double or corrugated bin walls.
- Bin systems can be provided in virtually any square or rectangle arrangement with walls from 2' wide to 12' wide.
- A full line of bin system accessories are available including enclosure siding, safety railing, access ladders, stairways, dust collection, etc.
- Abel's modern manufacturing facilities assure quality equipment at low cost.









Standard Wall Design

The Abel single wall bin design has been the standard in the industry for over 50 years. Its ability to be configured for virtually any capacity and bin arrangement make it a popular choice for most storage system requirements.



- The bins are designed for bolted assembly for efficient shipping and construction.
- For excellent self cleaning characteristics, these bins have 45 degree beveled corners and a 60 degree minimum slope on all material contact surfaces.
- Bins can be constructed out of carbon, galvanized or stainless steel.
- Standard single wall bins can be designed for materials weighing from 40 to 100 pounds per cubic foot. Higher material density designs are available.
- Bins can be designed for almost all seismic and wind load conditions.
- Bin systems can be designed to support heavy structures such as equipment head houses or support towers.
- A wide variety of options and accessories are available including structural steel, bin roof railing, ladder systems, girt systems to allow the application of siding, filtered vent systems, discharge gates and many others.



Corrugated Wall Design

Corrugated wall bins are a good choice for storing larger particle type materials such as seed, grain, plastic pellets and beans. This special design provides excellent clean-out by eliminating most places where a particle may be retained.



- Excellent self cleaning characteristics for larger particle materials.
- The bin walls are shipped as premanufactured assemblies which substantially reduces construction time.
- Corrugated wall bins are not recommended for ground or fibrous materials.



Double Wall Design

The Abel double wall bin design provides the best performance for applications that require maximum clean-out when storing materials that bridge or flow poorly. With the bin wall stiffeners placed between two flat panels, all bin wall surfaces are essentially smooth.



- Excellent self cleaning characteristics for all materials.
- The bin walls are shipped as premanufactured assemblies which substantially reduces construction time.
- Interior stiffeners are perforated to allow for ventilation. This helps to reduce corrosion that may occur due to condensation between the flat wall panels.
- Heavy 45 degree bin wall corners are capable of handling substantial roof loads.

	U.S. UNITS								METRIC UNITS						
	Wall Levels		B Length (Feet)	C Height (Ft-In)	D Height (Ft-In)	Usable	Capacity* Usable (US Tons)		Wall Levels	A Width (Meters)	B Length (Meters)	C Height (Meters)	D Height (Meters)	Usable	Capacity* Usable (M Tons)
	1	6	6	4'-11"	6'-6"	173	3.5	10	1	1.83	1.83	1.50	1.98	4.9	3.1
<u>N</u>	2	6	6	8'-8" 12'-5"	6'-6"	306 438	6.1 8.8	Bins	2	1.83	1.83	2.64 3.78	1.98 1.98	8.7 12.4	5.5 7.9
Ë	4	6	6	16'-2"	6'-6"	570	11.4	ē	4	1.83	1.83	4.93	1.98	16.1	10.3
6′-0″ Square Bins	5	6	6	19'-11"	6′-6″	702	14.0	1.83 Meter Square	5	1.83	1.83	6.07	1.98	19.9	12.7
	6 7	6	6	23'-8" 27'-5"	6'-6"	834 966	16.7 19.3	Š	6 7	1.83	1.83	7.21 8.36	1.98 1.98	23.6 27.4	15.1 17.5
Š	8	6	6	31'-2"	6'-6"	1,099	22.0	te	8	1.83	1.83	9.50	1.98	31.1	19.9
0-/9	9	6	6	34'-11"	6′-6″	1,231	24.6	Σ	9	1.83	1.83	10.64	1.98	34.9	22.3
	10 11	6	6	38'-8" 42'-5"	6'-6"	1,363 1,495	27.3 29.9	83	10 11	1.83 1.83	1.83 1.83	11.79 12.93	1.98 1.98	38.6 42.3	24.7 27.1
	12	6	6	46'-2"	6'-6"	1,627	32.5		12	1.83	1.83	14.07	1.98	46.1	29.5
7'-0" Square Bins				11.441											
	1	7	7	4'-11" 8'-8"	8'-2" 8'-2"	237 418	4.7 8.4	2.13 Meter Square Bins	1	2.13	2.13	1.50 2.64	2.49	6.7 11.8	4.3 7.6
	3	7	7	12'-5"	8'-2"	599	12.0		3	2.13	2.13	3.78	2.49	17.0	10.9
	4	7	7	16'-2"	8'-2"	780	15.6		4	2.13	2.13	4.93	2.49	22.1	14.2
	5 6	7	7	19'-11" 23'-8"	8'-2" 8'-2"	961 1.142	19.2 22.8		5 6	2.13	2.13	6.07 7.21	2.49	27.2 32.3	17.4 20.7
	7	7	7	27'-5"	8'-2"	1,323	26.5		7	2.13	2.13	8.36	2.49	37.5	24.0
	8	7	7	31′-2″	8'-2"	1,504	30.1		8	2.13	2.13	9.50	2.49	42.6	27.3
	9	7	7	34'-11" 38'-8"	8'-2" 8'-2"	1,685 1,866	33.7 37.3	9	9	2.13	2.13	10.64 11.79	2.49	47.7 52.8	30.6 33.9
	11	7	7	42'-5"	8'-2"	2,047	40.9	<u> </u>	11	2.13	2.13	12.93	2.49	58.0	37.1
	12	7	7	46'-2"	8'-2"	2,228	44.6	3	12	2.13	2.13	14.07	2.49	63.1	40.4
	13 14	7	7	49'-11" 53'-8"	8'-2" 8'-2"	2,408 2,589	48.2 51.8	7	13 14	2.13	2.13	15.21 16.36	2.49	68.2 73.3	43.7 47.0
	17			33 -0	0-2	2,303	31.0		14	2.13	2.13	10.50	2.43	75.5	47.0
	1	8	8	4'-11"	9'-11"	311	6.2		1	2.44	2.44	1.50	3.02	8.8	5.6
	2	8	8	8'-8" 12'-5"	9'-11" 9'-11"	548 785	11.0 15.7		2	2.44	2.44	2.64 3.78	3.02 3.02	15.5 22.2	9.9 14.2
8'-0" Square Bins	4	8	8	16'-2"	9'-11"	1,023	20.5		4	2.44	2.44	4.93	3.02	29.0	18.6
	5	8	8	19'-11"	9′-11″	1,260	25.2		5	2.44	2.44	6.07	3.02	35.7	22.9
	6 7	8	8	23'-8" 27'-5"	9'-11" 9'-11"	1,497 1,734	29.9 34.7		6 7	2.44	2.44	7.21 8.36	3.02 3.02	42.4 49.1	27.2 31.5
	8	8	8	31'-2"	9'-11"	1,971	39.4	<u>ns</u>	8	2.44	2.44	9.50	3.02	55.8	35.8
	9	8	8	34'-11"	9'-11"	2,208	44.2	2.44 Meter Square Bins	9	2.44	2.44	10.64	3.02	62.5	40.1
	10 11	8	8	38'-8" 42'-5"	9'-11" 9'-11"	2,446	48.9 53.7		10 11	2.44	2.44	11.79 12.93	3.02 3.02	69.3 76.0	44.4 48.7
	12	8	8	46'-2"	9'-11"	2,920	58.4		12	2.44	2.44	14.07	3.02	82.7	53.0
	13	8	8	49′-11″	9'-11"	3,157	63.1		13	2.44	2.44	15.21	3.02	89.4	57.3
	14 15	8	8	53'-8" 57'-5"	9'-11"	3,394 3,632	67.9 72.6		14 15	2.44	2.44	16.36 17.50	3.02 3.02	96.1 102.8	61.6 65.9
	16	8	8	61'-2"	9'-11"	3,869	77.4		16	2.44	2.44	18.64	3.02	109.6	70.2
	17	8	8	64'-11"	9'-11"	4,106	82.1		17	2.44	2.44	19.79	3.02	116.3	74.5 78.8
	18 19	8	8	68'-8" 72'-5"	9'-11" 9'-11"	4,343 4,580	86.9 91.6		18 19	2.44	2.44	20.93 22.07	3.02 3.02	123.0 129.7	78.8 83.1
	20	8	8	76′-2″	9′-11″	4,818	96.4		20	2.44	2.44	23.22	3.02	136.4	87.4
100	1	10	10	4'-11"	13'-6"	488	9.8		1	3.05	3.05	1.50	4.11	13.8	8.9
10'-0" Square Bins	2	10	10	8'-8"	13'-6"	860	17.2	3.05 Meter Square Bins	2	3.05	3.05	2.64	4.11	24.4	15.6
	3	10	10	12'-5"	13'-6"	1,232	24.6		3	3.05	3.05	3.78	4.11	34.9	22.4
	4 5	10 10	10 10	16'-2" 19'-11"	13'-6" 13'-6"	1,605 1,977	32.1 39.5		4 5	3.05 3.05	3.05 3.05	4.93 6.07	4.11 4.11	45.4 56.0	29.1 35.9
	6	10	10	23'-8"	13'-6"	2,349	47.0		6	3.05	3.05	7.21	4.11	66.5	42.6
	7	10	10	27′-5″	13′-6″	2,721	54.4		7	3.05	3.05	8.36	4.11	77.1	49.4
	8 9	10 10	10 10	31'-2" 34'-11"	13'-6" 13'-6"	3,093 3,465	61.9 69.3		8 9	3.05 3.05	3.05 3.05	9.50 10.64	4.11 4.11	87.6 98.1	56.1 62.9
	10	10	10	38'-8"	13'-6"	3,838	76.8		10	3.05	3.05	11.79	4.11	108.7	69.6
	11	10	10	42'-5"	13′-6″	4,210	84.2		11	3.05	3.05	12.93	4.11	119.2	76.4
	12 13	10 10	10 10	46'-2" 49'-11"	13'-6" 13'-6"		91.6 99.1		12 13	3.05 3.05	3.05 3.05	14.07 15.21	4.11 4.11	129.7 140.3	83.1 89.9
	14	10	10	53'-8"	13'-6"	-	106.5		14	3.05	3.05	16.36	4.11	150.8	96.6
	15	10	10	57'-5"	13′-6″	5,699	114.0		15	3.05	3.05	17.50	4.11	161.4	103.4
	16 17	10 10	10 10	61'-2" 64'-11"	13'-6" 13'-6"	6,071	121.4 128.9		16 17	3.05 3.05	3.05 3.05	18.64 19.79	4.11	171.9 182.4	110.1
	18	10	10	68'-8"	13'-6"	6,443 6,815	136.3		18	3.05	3.05	20.93	4.11 4.11	193.0	
	19	10	10	72'-5"	13′-6″	7,187	143.7		19	3.05	3.05	22.07	4.11	203.5	130.4
	20	10	10	76'-2" on mater	13'-6"		151.2		20	3.05	3.05	23.22	4.11	214.1	137.2) kg/m³

В TOP OF STRUCTURAL STEEL D AS **REQUIRED** GROUND **STANDARD BINS CAN BE DIVIDED IN MANY WAYS TO MEET CUSTOMER REQUIREMENTS**



ABEL MANUFACTURING CO., INC.

PO Box 757 Appleton, WI 54912 USA Phone: 920-734-4443 • Fax: 920-734-1084 sales@abelusa.com • www.abelusa.com