



L & J Industries, Inc.

Charles City, Iowa

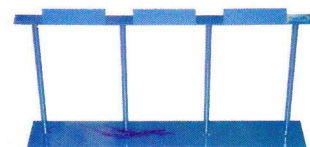
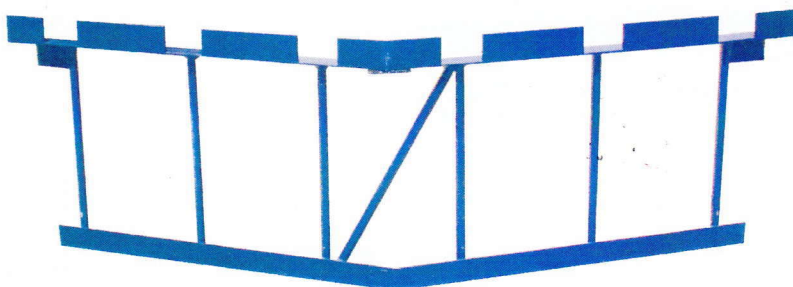
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HEAVY DUTY FREE-FLOWGRAIN BIN FLOOR SUPPORTS

*The
Original*



Double



Single

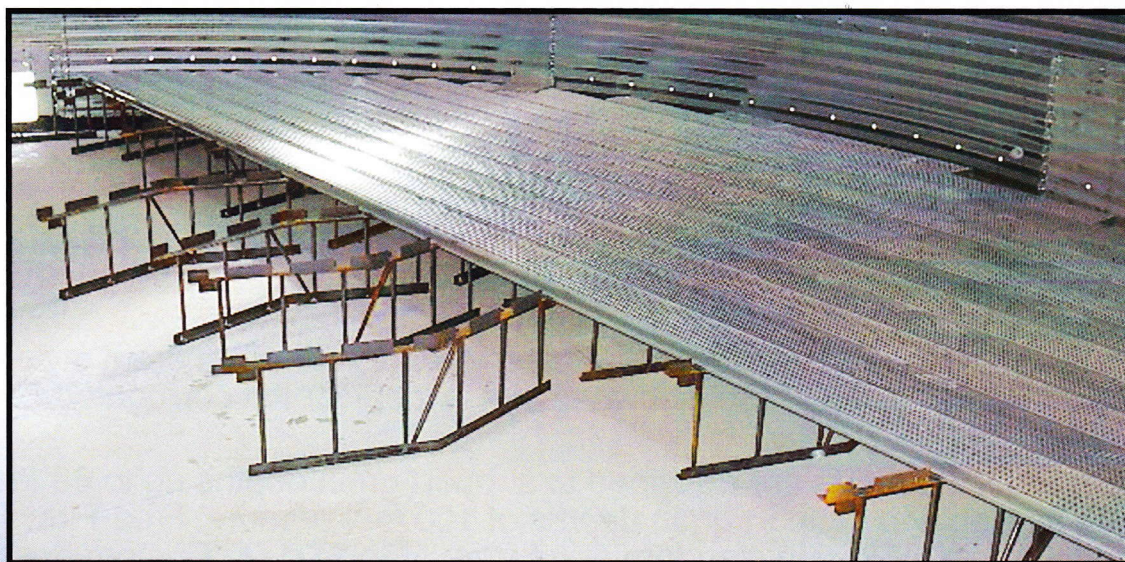
MORE:

- ◆ STRENGTH PER SQUARE FOOT OF FLOOR
- ◆ UNOBSTRUCTED AIR MOVEMENT
- ◆ EASE OF ERECTION AND STABILITY
- ◆ SAVINGS IN TOTAL BIN COST
- ◆ OVER 35 YEARS OF PROVEN EXPERIENCE

NEW!



Splicing Single



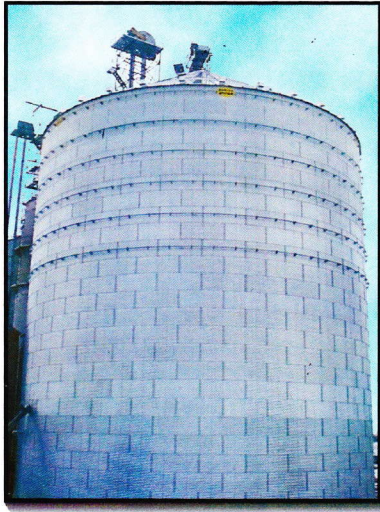
"Over 50 years Building Trust"

Call or visit our NEW website: www.ljind.com

STORAGE BINS

ONE OF THE "BIG ONES"

Free-Flow Bin Supports are used in all size bins.



State of the art robotic welding system.

NOTCHED MODEL



FLAT TOP MODEL

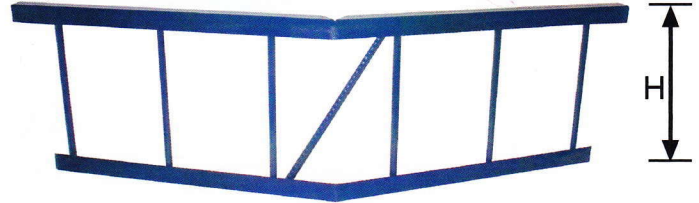
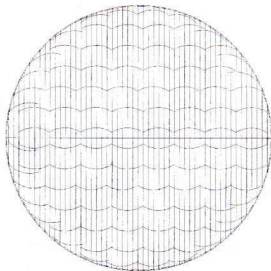


Diagram shows supports spaced evenly under a complete bin floor.



TYPICAL "FREE-FLOW" INSTALLATION

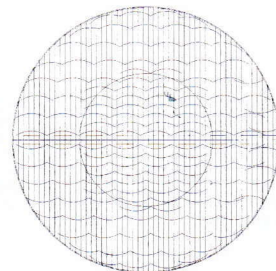


Diagram shows a Recirculator with supports spaced 12" under center half of bin floor.

When a recirculator is used, extra supports will be needed. Place these in accordance to the recirculator manufacturer's specifications.

Free-Flow Floor Supports are manufactured to work with all different styles and sizes of floors. The Flat Top Model shown above is ideal for flat corrugated flooring and plank flooring.

Standard Floor Supports are designed to support grain depths up to 68 feet. Special designs are available to support grain depths of 100 feet or more. Free-Flow Floor Supports are manufactured in standard sizes from 4" to 17-1/2". Custom designed Free-Flow Floor Supports are available in sizes from 18" to 36" in height.



L & J Industries, Inc.

700 SERIES FREE-FLOW FLOOR SUPPORTS

Straight Floor Supports For Grain Bin Floors

Ideal for use in tunnels or partial pad type aeration systems.

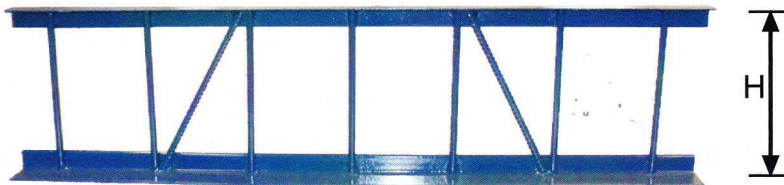
TYPE A: Notched model for Channel Lock Flooring.



Part #700 A

48" length Heights available 4" to 36"

TYPE B: Flat Top for Corrugated or Flat Flooring.



Part #700 B

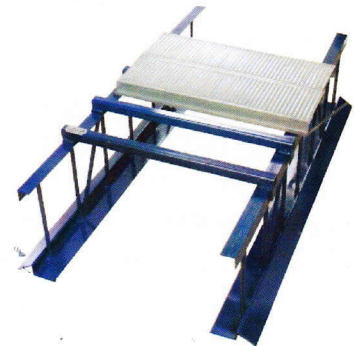
48" length Heights available 4" to 36"

TYPE C: Center-Bridge Tubes for Large Unloading Equipment.



Part #700 C

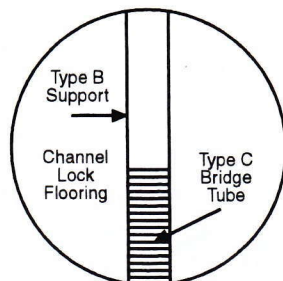
Lengths as per job requirements



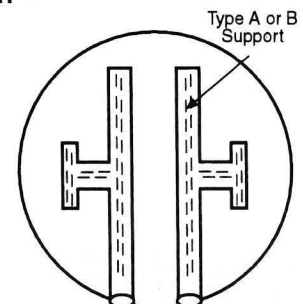
Straight style floor supports are ideal for use in tall silos that require extra strong supports, and can be cut to various lengths as needed to eliminate overlap. Straight style floor supports are also used next to unloading equipment to support center-bridge tubes on jobs requiring an extra floor support.

Type A & B are designed for grain depths up to 68 feet. For grain depths of more than 68 feet: please contact L & J Industries, Inc. for more information.

Typical Center Bridge Support System used with large unloading equipment. Type B Support with Type C Center Bridge to support Channel Lock Flooring.



Typical Tunnel installation using Type A Support for Channel Lock Flooring or Type B Flat Top with Corrugated or Flat Flooring.



ESTIMATED CAPACITIES OF LEVEL FULL CYLINDRICAL BINS.

Based on 0.8 bu = 1 cu. ft. Weight of bin contents varies by actual material density, packing and bin surface configuration.

Grain depth, ft.	Bin Diameter, ft.												
	15	18	21	24	27	30	33	36	40	42	44	46	48
	Bushels												
1	141	204	277	362	458	565	684	814	1,005	1,108	1,216	1,330	1,448
10	1,414	2,036	2,771	3,619	4,580	5,655	6,842	8,143	10,053	11,084	12,164	13,295	14,476
12	1,696	2,443	3,325	4,343	5,497	6,786	8,211	9,772	12,064	13,300	14,597	15,954	17,372
14	1,979	2,850	3,879	5,067	6,413	7,917	9,579	11,400	14,074	15,517	17,030	18,613	20,267
16	2,262	3,257	4,433	5,791	7,329	9,048	10,948	13,029	16,085	17,734	19,463	21,272	23,162
18	2,545	3,664	4,988	6,514	8,245	10,179	12,316	14,657	18,096	19,950	21,896	23,931	26,058
20	2,827	4,072	5,542	7,238	9,161	11,310	13,685	16,286	20,106	22,167	24,329	26,591	28,953
22	3,110	4,479	6,096	7,962	10,077	12,441	15,053	17,915	22,117	24,384	26,761	29,250	31,848
24	3,393	4,886	6,650	8,686	10,993	13,572	16,422	19,543	24,127	26,601	29,194	31,909	34,744
26	3,676	5,293	7,204	9,410	11,909	14,703	17,790	21,172	26,138	28,817	31,627	34,568	37,639
28	3,958	5,700	7,758	10,134	12,825	15,834	19,159	22,800	28,149	31,034	34,060	37,227	40,534
30	4,241	6,107	8,313	10,857	13,741	16,965	20,527	24,429	30,159	33,251	36,493	39,886	43,429
32	4,524	6,514	8,867	11,581	14,657	18,096	21,896	26,058	32,170	35,467	38,926	42,545	46,325
34	4,807	6,922	9,421	12,305	15,574	19,227	23,264	27,686	34,181	37,684	41,359	45,204	49,220
36	5,089	7,329	9,975	13,029	16,490	20,358	24,633	29,315	36,191	39,901	43,791	47,863	52,115
38	5,372	7,736	10,529	13,753	17,406	21,489	26,001	30,944	38,202	42,118	46,224	50,522	55,011
40	5,655	8,143	11,084	14,476	18,322	22,620	27,370	32,572	40,212	44,334	48,657	53,181	57,906
42	5,938	8,550	11,638	15,200	19,238	23,750	28,738	34,201	42,223	46,551	51,090	55,840	60,801
44	6,220	8,957	12,192	15,924	20,154	24,881	30,107	35,829	44,234	48,768	53,523	58,499	63,697
46	6,503	9,364	12,746	16,648	21,070	26,012	31,475	37,458	46,244	50,984	55,956	61,158	66,592
48	6,786	9,772	13,300	17,372	21,986	27,143	32,844	39,087	48,255	53,201	58,389	63,817	69,487

TO ESTIMATE BIN CAPACITY: DEPTH X DIAMETER X DIAMETER X 0.628

Example of 27' bin with 16' grain depth: $16 \times 27 \times 27 \times 0.628 = 7325$ Bu.

TO ESTIMATE BIN PEAK FILL CAPACITY: DIAMETER X DIAMETER X DIAMETER X 0.056

Example of 27' bin: $27' \times 27' \times 27' \times 0.056 = 1102$ Bu.

Free-Flow Floor Supports are stronger!

TO ESTIMATE BUSHELS REMAINING IN BIN AFTER GRAVITY UNLOAD:

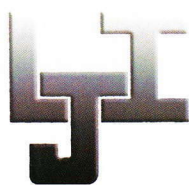
DIAMETER X DIAMETER X DIAMETER X 0.11

Example of 27' bin: $27 \times 27 \times 27 \times 0.11 = 2165$ Bu.

Free-Flow Floor Supports have approximately 1/3 more steel than other floor supports!

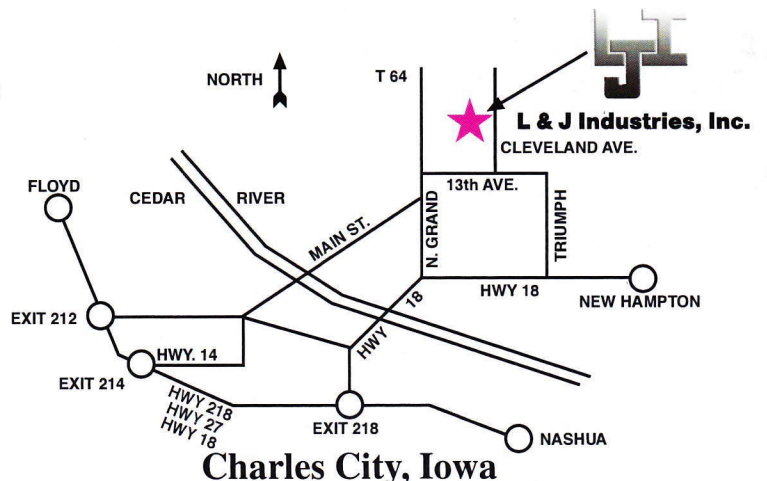
TO ESTIMATE BUSHELS IN A PILE: DIAMETER X DIAMETER X DEPTH X 0.21

Farmers report after changing to Free-Flow Floor Supports, dryer capacity was increased by 15 to 20%!



L & J Industries, Inc.
"Over 50 Years Building Trust"

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