

Tests made by J. A. Jamieson, Elevator Engineer.

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GRAIN PRESSURE TESTS.

Table giving comparative Grain and Fluid Pressure.
Corrugated Steel Bin.

Size of Bin 12" x 12" x 6' 6" high.

Wheat 50 lbs. per cu. ft. Fluid 50 lbs. per cu. ft.

Total depth equals 6.5 times diameter.

Fluid pressure columns show the pressure that would be produced by grain if there was neither friction within the grain mass nor between the grain and the confining walls.

Height of column	Test No. 1.—A. Vertical Pressure		Grain = % fluid pressure.	Test No. 1.—B. Lateral Pressure.		Grain= % fluid press're
	Lbs. per sq. inch.			Lbs. per sq. inch.		
Inches	Fluid	Grain.	%	Fluid.	Grain	%
6	0.17364	0.12628	.73	0.17363	0.02255	.13
12	0.34727	0.19844	.57	0.34727	0.09020	.26
18	0.52090	0.23903	.46	0.52090	0.13981	.27
24	0.69679	0.27060	.39	0.69679	0.16461	.24
30	0.87043	0.28413	.33	0.87043	0.17138	.20
36	1.04406	0.29090	.28	1.04406	0.17589	.17
42	1.21770	0.29766	.24	1.21770	0.18040	.15
48	1.39359	0.30442	.22	1.39359	0.18491	.13
54	1.56722	0.30668	.20	1.56722	0.18491	.12
60	1.73635	0.30668	.18	1.73635	0.18716	.11
66	1.91124	0.30893	.16	1.91124	0.18942	.10
72	2.08487	0.31570	.15	2.08487	0.18942	.09
78	2.25700	0.31570	.14	2.25700	0.18942	.08