

Compression Testing

One of the most frequently asked questions regarding fiberboard tubing is “how much weight will they hold?” Container Quinn Laboratories, Inc. tested a selection of our squares to determine side-to-side strength. The results represent the maximum load, in pounds, which a form will bear before failure. Failure means that the form will begin to collapse. The relationship between wall thicknesses, lengths, and sizes follow a logical progression. One thing to note is that as the square gets larger, there is more side wall surface area. The larger the side wall surface area, the less load will be carried by the form.

It was determined that it is safe to say that a form will withstand a minimum of three times as much weight end-to-end as on its side. For example, a 10“ square with ¼” wall, 36” long bears 2,400 lbs. on its side and roughly 7,000 pounds end-to-end.

CONVOLUTE

HORIZONTAL COMPRESSION TESTING

(Maximum Load in Pounds / Side-to-Side Orientation)

*END TO END TRIPLE

<u>Size</u>	<u>Length</u>	<u>1/4"</u>	<u>1/2"</u>	<u>3/4"</u>
10"	36"	2,400	16,000	25,000
10"	48"	3,460	23,125	36,125
10"	60"	4,005	26,700	41,700
14"	36"	1,750	13,375	25,500
14"	48"	2,530	19,300	36,625
14"	60"	2,920	22,300	42,100

18"	36"	1,500	9,000	24,000
18"	48"	2,165	13,475	34,500
18"	60"	2,500	15,550	39,700
27"	36"	760	4,150	12,750
27"	48"	1,100	6,000	18,400
27"	60"	1,265	6,750	21,250

Testing Done By: Container Quinn Laboratories, Inc.