

# GE Engineering

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## LOAD BEARING TESTING OF EGRESS WINDOW WELL COVER

**Manufacture:** WellCraft, Inc.

**Model Number:** 6700 , Polycarbonate Flat Shaped Cover with Clips

A full-scale test of the above model with the cover attached was performed to simulate how the polycarbonate cover would react to a predetermined loading. The safe weight that was to be obtained from the test was a concentrated load of **500 pounds**.

The labeling of the units indicated that the covers are not to be used as a step or as a working platform. These tests were conducted to provide assurances that the cover would be safe for unforeseen mishaps.

The test method consisted of attaching the cover to the top of the 6700 model to an above ground wall with the bottom supported to resist any downward pressure during the test. A circular 12 inch wood pad was then positioned in the center of the cover to simulate the worse condition and provide a concentrated area for loading. Weights were then loaded onto the wood pad in various increments. Deflection measurements were recorded as indicated in the table below.

Loading in pounds	Deflection in inches	Loading in pounds	Deflection in inches
0	0	370	7.375
135	1.875	395	8.875
215	6.00	420	8.875
250	6.375	440	8.875
285	6.875	460	9.00
320	6.875	480	9.375
345	7.375	500	9,375

NOTE: The maximum load was retained on the cover for 24 hours and the maximum deflection was 10.125”.

**Conclusion:** The polycarbonate domed cover for the WeilCraft model 6700 can sufficiently support a concentrated load of **500 lbs.** as tested above and used as indicated by the manufacturer.

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