

GE Engineering

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LOAD BEARING TESTING OF EGRESS WINDOW WELL COVER

Manufacture: WellCraft, Inc.

Model Number: 5600, Lattice cover with stiffened aluminum hinge

A full-scale test of the above model with the cover attached was performed to simulate how the lattice 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 top sections of the 5600 model with the test cover 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. A 736 lb. weight was then loaded onto the wood pad in 50 lb. increments. Deflection measurements were recorded as indicated in the table below.

Loading in pounds	Deflection in inches	Loading in pounds	Deflection in inches
50	3/8	400	2
100	5/8	450	2 1/4
150	1	500	2 1/2
200	1 1/4	550	2 5/8
250	1 1/2	600	2 7/8
300	1 5/8	650	2 7/8
350	1 7/8	700	3 1/8

Note: The maximum load was 736 lbs due to the limitation of the test equipment, the maximum deflection was 3 1/4". Once the load was remove the cover returned to its original shape

Conclusion: The lattice cover for the WellCraft model 5600 can sufficiently support a concentrated load of **500 lbs.** as tested above and used as indicated by the manufacturer.

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