

PERMISSIBLE LOAD FOR GLASS SHELVES

The permissible load for glass shelves is based on two-side support, maximum load less dead weight of glass, minimum published glass thickness from ASTM C1036-90, modulus of rupture of 6000 PSI for annealed float glass and a safety factor of 5. This results in a probability of breakage of 3 in 1,000 when shelves are loaded to the maximum permissible load for long durations (i.e., weeks or months).

The use of monolithic tempered shelves is not recommended because of the slight possibility of spontaneous breakage from small inclusions.

<u>Nominal Glass Thickness</u>	<u>Distance Between Supports (feet)</u>				
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
	<u>Permissible Load - Lb. Per Sq. Ft.</u>				
3/16"	49.4	10.5	3.3	0.80	—
1/4"	73.5	15.9	5.3	1.5	—
5/16"	132.3	30.0	11.1	4.4	1.4
3/8"	196.7	45.5	17.5	7.7	3.2
1/2"	345.4	81.4	32.6	15.4	7.5
5/8"	556.4	133.0	54.5	27.1	14.4
3/4"	817.3	197.0	82.1	41.9	23.3

Information obtained from LOF and are recommendations only.