Flat Glass
Trade Thicknesses and Weights

Soda-lime-silica float glass is the most prevalent type of glass used throughout the world for the trade markets. The following table summarizes the thickness and corresponding weight of soda-lime-silica float glass with a density of one hundred fifty-seven pounds per cubic foot. This information is offered as a service. Some of the thicknesses listed may not be available from Vitro. Please check with your Vitro Account Manager for specific product availability.

GLASS THICKNESS AND WEIGHT				
GLASS THICKNESS				Weight per Square Foot (Pounds)
Traditional Designation, (if any)	Millimeters	Range (Inches)	Nominal (Inches)	
2.0A	2.0	0.069 – 0.088	0.081	1.060
Picture	2.0	0.071 - 0.084	0.078	1.021
	2.1	0.080 – 0.088	0.084	1.099
	2.3	0.085 - 0.093	0.089	1.164
	2.4	0.091 - 0.098	0.094	1.230
Single	2.5	0.085 - 0.101	0.089	1.164
Lami	2.7	0.102 - 0.114	0.108	1.413
	2.8	0.108 - 0.114	0.111	1.452
Double or 1/8”	3.0	0.115 - 0.134	0.119	1.557
	3.1	0.115 - 0.123	0.119	1.557
DST	3.2	0.121 – 0.129	0.124	1.622
	3.3	0.125 - 0.133	0.129	1.688
	3.4	0.131 - 0.137	0.134	1.753
	3.6	0.136 - 0.142	0.139	1.819
	3.9	0.150 - 0.157	0.154	2.015

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GLASS THICKNESS AND WEIGHT - Continued				
GLASS THICKNESS				Weight per Square Foot (Pounds)
Traditional Designation, (if any)	Millimeters	Range (Inches)	Nominal (Inches)	
5/32”	4.0	0.150 - 0.164	0.154	2.015
	4.1	0.156 - 0.164	0.160	2.093
	4.9	0.185 - 0.193	0.189	2.473
3/16”	5.0	0.180 - 0.193	0.184	2.407
	5.5	0.219 - 0.227	0.223	2.918
¼”	6.0	0.219 - 0.235	0.223	2.918
	6.2	0.235 - 0.243	0.239	3.127
	6.5	0.250 - 0.265	0.258	3.376
5/16”	8.0	0.292 - 0.332	0.312	4.082
	8.1	0.310 - 0.328	0.319	4.174
	9.6	0.362 - 0.390	0.377	4.932
3/8”	10.0	0.355 - 0.406	0.377	4.932
½”	12.0	0.469 - 0.531	0.490	6.411
5/8”	16	0.595 – 0.656	0.613	8.020
¾”	19	0.719 - 0.781	0.744	9.734
7/8”	22	0.844 - 0.906	0.865	11.317
1”	25	0.969 – 1.031	0.984	12.874

Note that the “Nominal Glass Thickness” above is used for purposes of general identification and reference in the calculation of the weight only; the actual thickness will be approximately the same as the nominal thickness; however, for at least the reason discussed below, it may not be exactly the same. The formula for calculating the specific weight of soda-lime-silica float glass of an exact thickness is provided below for reference.

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Float glass manufacturing is a true continuous process. Being a true continuous process, the glass does not stop flowing, even during thickness changes. As a result, float glass is produced utilizing the entire specified thickness range. Any given lite or piece of float glass will typically have a very uniform thickness; however, glass manufacturers will utilize the entire thickness range specified when moving from one thickness of float glass to another. In example, when moving from 6.0mm thickness to 6.2mm thickness, glass will be packed for sale as 6.0mm thickness until the thickness exceeds 0.235". At 0.235" thickness to 0.243" thickness, the glass will be packed as 6.2mm thickness.

When calculating the weight of soda-lime-silica float glass with a density of one hundred fifty-seven pounds per cubic foot, of any given thickness, the following formula can be used to determine the weight in pounds, per square foot:

$$\text{Weight, (pounds) per square foot} = \frac{157 \text{ lbs/cuft} \times \text{actual thickness in inches}}{12 \text{ inches/ft}}$$

As an additional reference, one can refer to the Dimensional Tolerance Table within the *ASTM C1036 Standard Specification for Flat Glass*. This and other ASTM standards on glass and glazing are available from ASTM.org.

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HISTORY TABLE		
ITEM	DATE	DESCRIPTION
Original Publication	4/15/2002	TD-120
Revision #1	4/16/2010	Add 3.2mm and Heavy Glass Information and editorial changes to the text and format.
Revision #2	10/04/2016	Updated to Vitro Logo and format
Revision #3	1/25/2019	Updated the Vitro Logo and format
Revision #4	11/28/2024	Updated; slight adjustment of formula to obtain weight per square foot, weight of glass in table, New disclaimer & removed PPG references.