



## Approximate Weight of Interlayer used in Laminated Architectural Flat Glass

Design professionals, wall system manufacturers, and construction managers often need the weight of materials for engineering and construction site considerations. The tables below provide approximate weights of interlayer used in laminated architectural flat glass by North American manufacturers:

*Table 1  
Published Approximate Weights of Interlayers*

<b>Ionomer - Published Approximate Weight</b>	
<b>Interlayer Thickness Inch (mm)</b>	<b>Approximate Weight lb/ft<sup>2</sup> (kg/m<sup>2</sup>)</b>
0.035 (0.89)	0.17 (0.84)
0.060 (1.52)	0.31 (1.52)
0.090 (2.29)	0.47 (2.29)
0.100 (2.54)	0.52 (2.53)
<b>PVB Interlayer - Published Approximate Weight</b>	
<b>Interlayer Thickness Inch (mm)</b>	<b>Approximate Weight lb/ft<sup>2</sup> (kg/m<sup>2</sup>)</b>
0.015 (0.38)	0.08 (0.40)
0.030 (0.76)	0.17 (0.84)
0.045 (1.14)	0.25 (1.20)
0.060 (1.52)	0.33 (1.60)
0.090 (2.29)	0.50 (2.50)
<b>Urethane - Published Approximate Weight</b>	
<b>Interlayer Thickness Inch (mm)</b>	<b>Approximate Weight lb/ft<sup>2</sup> (kg/m<sup>2</sup>)</b>
0.025 (0.64)	0.15 (0.73)
0.050 (1.27)	0.30 (1.46)
<b>UV Liquid Interlayer - Published Approximate Weight</b>	
<b>Interlayer Thickness Inch (mm)</b>	<b>Approximate Weight lb/ft<sup>2</sup> (kg/m<sup>2</sup>)</b>
0.030 (0.76)	0.17 (0.83)
0.040 (1.02)	0.22 (1.07)
0.060 (1.52)	0.33 (1.61)
0.100 (2.54)	0.55 (2.69)
0.120 (3.05)	0.66 (3.22)

Consult individual manufacturers for detailed product availability. ASTM International<sup>1</sup> C 1036 *Standard Specification for Flat Glass* addresses quality requirements for glass and ASTM International C 1172 *Standard Specification for Laminated Architectural Flat Glass* addresses quality requirements for laminated glass units.

The table below provides approximate weights of architectural flat glass by thickness designations as published by North American manufacturers.

**Table 2**  
*Architectural Flat Glass - Published Approximate Weight*

<b>Architectural Flat Glass - Published Approximate Weight</b>	
<b>Glass Thickness Designation Inches (mm)</b>	<b>Approximate Weight lb/ft<sup>2</sup> (kg/m<sup>2</sup>)</b>
3/32 (2.5)	1.2 (5.7)
1/8 (3.0)	1.6 (7.6)
5/32 (4.0)	2.0 (9.9)
3/16 (5.0)	2.4 (11.9)
1/4 (6.0)	3.0 (14.6)
5/16 (8.0)	4.0 (19.5)
3/8 (10.0)	5.0 (24.4)
1/2 (12.0)	6.4 (31.2)
5/8 (16.0)	8.1 (39.5)
3/4 (19.0)	9.8 (47.8)

ASTM International C 1036 *Standard Specification for Flat Glass* addresses quality requirements.

To calculate the approximate weight of a laminated product, add the weight of the interlayer thickness from Table 1 to the weights of the inner and outer lites of glass from Table 2. For example, for a 3/32” 0.035 Ionomer 3/32” makeup, add  $1.2 + 0.17 + 1.2 = 2.57$  lb/ft<sup>2</sup>.

Consult the *GANA Laminated Glazing Reference Manual* and the *GANA Tech Center* section of the GANA website ([www.glasswebsite.com](http://www.glasswebsite.com)) for additional industry resources.

*The Glass Association of North America (GANA) has produced this Glass Informational Bulletin solely to provide information regarding North American industry published weight of interlayers and flat glass. This bulletin makes no attempt to provide specific flat glass weight information or considerations. GANA disclaims any responsibility for any specific results related to the use of this Bulletin, for any errors or omissions contained in the Bulletin, and for any liability for loss or damage of any kind arising out of the use of this Bulletin.*

This bulletin was developed by the GANA Laminating Division and by the membership and the GANA Board of Directors. This is the original version of the document as approved and published in (September 2009).

<sup>1</sup> ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 United States, Phone: 610.832.9500; Website: [www.astm.org](http://www.astm.org)