

Available sizes of glulam

Standard sizes have been developed for Canadian glued-laminated timber to allow optimum utilization of lumber which are multiples of the dimensions of the lamstock used for glulam manufacture. Suitable for most applications, standard sizes offer the designer economy and fast delivery. Other non-standard dimensions may be specially ordered at additional cost because of the extra trimming required to produce non-standard sizes.

The standard widths and depths of glulam are shown in Table 6.7, below. The depth of glulam is a function of the number of laminations multiplied by the lamination thickness. For economy, 38 mm laminations are used wherever possible, and 19 mm laminations are used where greater degrees of curvature are required.

Standard widths of glulam

Standard finished widths of glulam members and common widths of the laminating stock they are made from are given in Table 4 below.

Single widths of stock are used for the complete width dimension for members less than 275 mm (10-7/8") wide. However, members wider than 175 mm (6-7/8") may consist of two boards laid side by side. All members wider than 275 mm (10-7/8") are made from two pieces of lumber placed side by side, with edge joints staggered within the depth of the member.

Members wider than 365 mm (14-1/4") are manufactured in 50 mm (2") width increments, but will be more expensive than standard widths. Manufacturers should be consulted for advice.

Initial width of glulam stock		Finished width of glulam stock	
mm.	in.	mm	in.
89	3-1/2	80	3
140	5-1/2	130	5
184	7-1/4	175	6-7/8
235 (or 89 + 140)	9-1/4 (or 3-1/2 + 5-1/2)	225 (or 215)	8-7/8 (or 8-1/2)
286 (or 89 + 184)	11-1/4 (or 3-1/2 + 7-1/4)	275 (or 265)	10-7/8 (or 10-1/4)
140 + 184	5-1/2 + 7-1/4	315	12-1/4
140 + 235	5-1/2 + 9-1/4	365	14-1/4

Notes:

- Members wider than 365 mm (14-1/4") are available in 50 mm (2") increments but require a special order.

- Members wider than 175 mm (6-7/8") may consist of two boards laid side by side with longitudinal joints staggered in adjacent laminations.

Standard depths of glulam

Standard depths for glulam members range from 114 mm (4-1/2") to 2128 mm (7') or more in increments of 38 mm (1-1/2") and 19 mm (3/4").

A member made from 38 mm (1-1/2") laminations costs significantly less than an equivalent member made from 19 mm (3/4") laminations. However, the 19 mm (3/4") laminations allow for a greater amount of curvature than do the 38 mm (1-1/2") laminations.

TABLE 6.7
Standard
glulam sizes

Width		Depth range ¹	
mm	in.	mm	in.
80	3	114 to 570	4-1/2 to 22-1/2
130	5	152 to 950	6 to 37-1/2
175	6-7/8	190 to 1254	7-1/2 to 49-1/2
215	8-1/2	266 to 1596	10-1/2 to 62-3/4
265	10-1/4	342 to 1976	13-1/2 to 77-3/4
315	12-1/4	380 to 2128	15 to 83-3/4
365	14-1/4	380 to 2128	15 to 83-3/4

Note:

1. Intermediate depths are multiples of the lamination thickness, which is 38 mm (1-1/2" nom.) except for some curved members that require 19 mm (3/4" nom.) laminations.

Laminating stock may be end jointed into lengths of up to 40 m (130') but the practical limitation may depend on transportation clearance restrictions. Therefore, shipping restrictions for a given region should be determined before specifying length, width or shipping height.