

PW LVL-2.0E
1.75" X 11.875" 2 Plies
ASD Allowable Stress Design

Project: 14-0308
 U.S. 08-Copy: 2nd Level

Date: 6-May-2014
 Designed by: _____

Due Date: _____
 Verified by: _____

Pieces: 2
 Assembled Beams: 1
 Mark/Job: G2-A

Legend
 ■ Live Load
 ■ Dead Load

R1=1105
 R2=1225

Span 1: 8-3-5
 Col: 0-4-6
 Hgr: 0-1-8
 Hgr: 0-1-8

Maximum Shear and Bending Analysis				Maximum Deflection Analysis							
Shear lb.	Bending lb.ft.	Actual	Allow	Ratio	Location	Dur.	LC/LC*	Actual	Allow	Ratio	Location
1091	2431	7897	21295	0.14	1-0-10	1	D+L/O	0.03=L/999	0.40	0.07	4-0-2
				0.11	3-9-10	1	D+L/O	0.02=L/999	0.26	0.07	4-0-2

Max. Reactions

Maximum from all load cases (without importance factor)

Bearing	Live	Dead	Total
1	762	343	1105
2	849	376	1225

Maximum from all load cases

Live	Dead	Total
762	343	1105
849	376	1225

LC/LC* 1/0 1/0
 Dur. 1 1
 BrgLen** 1 1/2" 1 1/2"

Engineering Notes

No girder fastening design data in database can meet this design. Girders are designed to be supported on the bottom edge only. Multiple plies must be fastened together as per manufacturer's details. Top point loads must be supported equally by all plies. Provide lateral support at bearings to the laterally unbraced supports as indicated.
 * Load Combination / Load Case
 ** Bearing length used in analysis

Applied Loads

Loads locations are measured from the left end. Note the units of each load. Self-weight : 14.4 plf. Listed loads are cumulative.

NOTES:
 Jager Building systems Inc. is responsible only for the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure component suitability for the intended application, and to verify dimensions and loads.
LUMBER:
 1. Dry service condition, unless noted otherwise.

2. LVL must not be treated with fire retardant or corrosive chemicals.
HANDLING & INSTALLATION :
 1. LVL beams cannot be cut or drilled.
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals.
 3. Damaged beams must not be used.

4. Design assumes top edge is laterally restrained.
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation.
 6. For flat roofs provide proper drainage to prevent ponding.

Coastal Forest Products Inc., P.Q.
 Drawing Number
 Date
 Page 1 of 1