

Power Beam®

ANTHONY®
ANTHONY FOREST PRODUCTS CO.

3000 F_b - 2.1E - 300 F_v
I-Joist Compatible Glulam



SUSTAINABLE
FORESTRY
INITIATIVE

ANTHONY POWER BEAM ADVANTAGES



POWER BEAM®
3000F_b - 2.1E - 300F_v



- Superior strength 3000F_b - 2.1E - 300F_v
- Individually wrapped
- Competitively priced with LVL & PSL
- Surface sealed for stability
- 3-1/2", 5-1/2" & 7" widths
- Lighter than steel, LVL, and PSL
- I-Joist compatible depths
- Renewable resource
- No nail laminating - saves time & money
- Precut lengths up to 60'
- Compatible sizes with Anthony Power Joist®

The Anthony POWER BEAM® is a superior glued laminated beam and header for use where reliable engineered wood applications are required.

The 3-1/2" and 5-1/2" widths readily match 2x4 and 2x6 wall framing. The POWER BEAM® depths also match all joist, truss, LVL, PSL, and I-Joist floor or roof framing. The Anthony POWER BEAM® uses only readily-available Southern Pine lumber, recognized through extensive testing as the strongest lumber resource available.

To enhance Anthony POWER BEAM® quality further, all outer laminations have strict quality control procedures.

Each beam has a specific lumber lay-up combination which optimizes POWER BEAM® performance. The highest strength lumber is placed in the tension and compression zones, efficiently and optimally using lumber resources. All lumber is machine evaluated at the grading line by a MSR machine for MOE to average 2.3×10^6 psi in the outer laminations.

The Anthony POWER BEAM® can be used for window, door and garage door headers, floor edge and center girder beams, roof ridge beams, and commercial beams, and purlins. The POWER BEAM® is recognized throughout the USA by leading builders, architects and engineers.

FEATURES

Moisture Control: POWER BEAM® consistently averages 12% moisture, which is near equilibrium moisture content.

Code Evaluations/Standards:

APA ICC ESR 1940, APA Product Report L263; ANSI A190.1-2007; APA Y-117-2004; and ASTM D-3737.

AFP Power Sizer Software: An easy-to-use structural analysis program capable of sizing AFP Power Products.

Daily Proof Loading and Destructive Testing: Random beams are loaded daily to 1.5 times design for Quality Assurance.

SFI: Power Beam is certified by Sustainable Forestry Initiative.

Dimensional Stability: POWER BEAM® is a laminated wood product with different grades of lumber. This randomizes any natural defect so there is greater beam strength and a higher degree of reliability. There is also less likelihood of warping, twisting, checking, cupping or shrinking when surface sealed.

Quality Assurance: POWER BEAM® is manufactured in accordance with ANSI A190.1-2007 (Structural Glued Laminated Timber) with appropriate modifications. Plant implemented Total Quality Management, statistical process control procedures and APA-The Engineered Wood Association as our third party quality assurance program, ensure consistent quality and performance in every POWER BEAM®.

The Anthony Forest Products Company Story

Anthony Forest Products Company (AFP), headquartered in El Dorado, Arkansas, has made some dramatic changes to position itself for the twenty-first century. The generations of forest products experience passed down through the family have made this vision possible.

When founded in 1916, the company was Anthony Brothers Lumber Company. The name of the company has changed, and the 4th generation of the Anthony Family has taken the reigns.

The company operates a southern pine lumber producing mill in Urbana, Arkansas; and wood chip mills in Plain Dealing, Louisiana, and Troup, Texas. The company also operates an engineered wood laminating plant in El Dorado, Arkansas, a laminating plant in Washington, Georgia, and a joint venture I-Joist plant, ANTHONY EACOM, Inc., in Sault Ste. Marie, Ontario, Canada.

The company's sawmill and the El Dorado laminating plant have undergone massive modernization phases over the years.

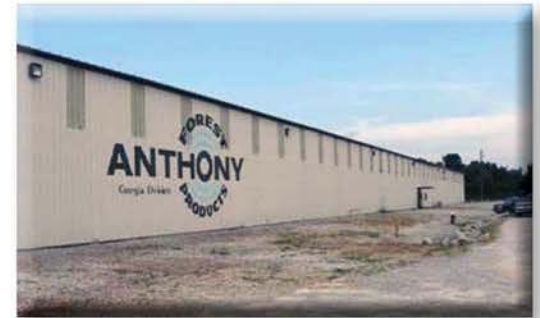
Due to complete computer optimization, the sawmill is now producing 30% more lumber out of the same size logs milled previously.

Not only has our sawmill diversified with changing markets, our laminating plants have diversified and have expanded to meet customer demands. Some of the company's fastest growth has been in the engineered wood products sector. The demand for engineered wood products like I-Joist forced a need to totally modernize the El Dorado facility and to add an I-Joist plant in Canada in 2000.

The company joined forces with EACOM Timber Corporation of Montreal, Quebec, Canada to produce the Power Joist®. The Power Joist® is a high quality solid sawn lumber flange I-Joist. Anthony Forest has contributed its superior customer service, plant management, engineered wood products knowledge, and distribution network to meet demands for an I-Joist to complement the Power Beam® I-Joist compatible glulam.



Laminating Plant - El Dorado, AR



Laminating Plant - Washington, GA

Power Beam®

Performance Comparison Tables

3000F_b - 2.1E - 300F_v



POWER BEAM® Comparisons

Clear Span	Allowable PLF Load (LL/TL)	Beam Application	Anthony 30F Power Beam®	Multiple Lumber #1 Southern Pine ¹	Multiple Lumber #1 Douglas Fir Larch ²	Timbers #1 Douglas Fir ³
8'	600/900	Floor	3-1/2 x 7-1/4	3 ply - 2 x 12	3 ply - 2 x 12	6 x 12, 8 x 10
16'	450/650	Floor	5-1/2 x 11-1/4	6 ply - 2 x 12	8 ply - 2 x 12	8 x 14, 12 x 12
24'	170/250	Floor	3-1/2 x 14	6 ply - 2 x 12	7 ply - 2 x 12	8 x 14, 10 x 12
6'	4425/4425	Roof (1.15)	5-1/2 x 9-1/4	7 ply - 2 x 12	7 ply - 2 x 12	10 x 16, 12 x 14
16'	530/700	Roof (1.15)	3-1/2 x 11-7/8	6 ply - 2 x 12	7 ply - 2 x 12	8 x 14, 10 x 12
18'	480/640	Roof (1.15)	5-1/2 x 11-1/4	7 ply - 2 x 12	8 ply - 2 x 12	8 x 14, 12 x 12
Clear Span	Allowable PLF Load (LL/TL)	Beam Application	Anthony 30F Power Beam®	LVL ⁴	Parallam® ⁵	Steel ⁶ 36 ksi
8'	600/900	Floor	3-1/2 x 7-1/4	2 ply - 1-3/4 x 7-1/4	3-1/2 x 7-1/4	W6 x 9, W8 x 10
16'	450/650	Floor	5-1/2 x 11-1/4	3 ply - 1-3/4 x 11-7/8	5-1/4 x 11-7/8	W10 x 12, W8 x 15
24'	170/250	Floor	3-1/2 x 14	2 ply - 1-3/4 x 16	3-1/2 x 16	W10 x 15, W12 x 14
6'	4425/4425	Roof (1.15)	5-1/2 x 9-1/4	2 ply - 1-3/4 x 9-1/2	5-1/4 x 9-1/2	W10 x 12, W8 x 15
16'	530/700	Roof (1.15)	3-1/2 x 11-7/8	2 ply - 1-3/4 x 14	3-1/2 x 14	W8 x 15, W12 x 14
18'	480/640	Roof (1.15)	5-1/2 x 11-1/4	3 ply - 1-3/4 x 11-7/8	5-1/4 x 11-7/8	W10 x 15, W12 x 14

Design values used for this table follow:

¹Southern Pine #1 from NDS Supplement Table 4B

²Douglas Fir Larch #1 from NDS Supplement Table 4A

³Douglas Fir Larch #1 from NDS Supplement Table 4D

⁴LVL Design Values: F_b=2925 psi, F_v=285 psi, MOE=2,000,000 psi

⁵Parallam® Design Values: F_b=2900 psi, F_v=290 psi, MOE=2,000,000 psi. Parallam® is a registered trademark of the Weyerhaeuser NR Company.

⁶Steel Design Values are based on 36 ksi steel using the Seventh Edition of the Steel Construction Manual

Window, Door and Garage Door Headers 3000F

Steps in Using This Table:

1. Find the row with the appropriate roof loading conditions (Live Load, Dead Load and LDF).
2. Find the clear opening that meets or exceeds the window, door or garage door size.
3. Find the span of the trusses or rafters that frame into the header.
4. Select the proper header size.

Key: Each cell contains two nominal header sizes:

Row 1: Header size for bearing length = 3.0"

Row 2: Header size for bearing length = 1-1/2"



Single Story - No Storage

POWER BEAM® Selection Table for Window, Door and Garage Door Headers - One Story Application

Roof Loading	Clear Opening	Span of Supported Roof Framing						
		16'	20'	24'	28'	32'	36'	40'
Live 25 PSF Dead 15 PSF LDF 1.15	4'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	6'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	8'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	9'3"	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	5-1/2 x 7-1/4
	10'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
	12'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 11-1/4
		3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4
Live 30 PSF Dead 15 PSF LDF 1.15	16'3"	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 14	3-1/2 x 14
		3-1/2 x 11-1/4	3-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	7 x 11-1/4	7 x 11-1/4
	18'3"	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	3-1/2 x 16	5-1/2 x 14
		3-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	7 x 11-1/4	7 x 11-1/4	**
	4'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	6'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	8'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	5-1/2 x 7-1/4
	9'3"	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
Live 40 PSF Dead 15 PSF LDF 1.15	10'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
	12'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4
		3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4
	16'3"	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	5-1/2 x 11-7/8
		3-1/2 x 11-1/4	5-1/2 x 9-1/2	5-1/2 x 11-1/4	5-1/2 x 11-1/4	7 x 11-1/4	7 x 11-1/4	**
	18'3"	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	3-1/2 x 16	5-1/2 x 14	5-1/2 x 14
		5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	7 x 11-1/4	7 x 11-1/4	**	**
	4'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	6'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
Live 40 PSF Dead 15 PSF LDF 1.15	8'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
	9'3"	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
	10'	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/2	3-1/2 x 11-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 9-1/4	7 x 7-1/4
	12'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/2	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-7/8
		3-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	7 x 9-1/4	7 x 9-1/4
	16'3"	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14	5-1/2 x 11-7/8	5-1/2 x 14	5-1/2 x 14
		5-1/2 x 11-1/4	5-1/2 x 11-1/4	7 x 11-1/4	7 x 11-1/4	**	**	**
	18'3"	3-1/2 x 14	3-1/2 x 14	3-1/2 x 16	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 16
		5-1/2 x 11-1/4	5-1/2 x 11-7/8	7 x 11-1/4	**	**	**	**

POWER BEAM® Selection Table for Window, Door and Garage Door Headers - One Story Application								
Roof Loading	Clear Opening	Span of Supported Roof Framing						
		16'	20'	24'	28'	32'	36'	40'
Live 20 PSF Dead 20 PSF LDF 1.25	4'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	6'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	8'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	9'3"	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4
	10'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
	12'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/2	3-1/2 x 11-1/4
		3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4
	16'3"	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14
		3-1/2 x 11-1/4	3-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	7 x 11-1/4	7 x 11-1/4
	18'3"	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	3-1/2 x 16	5-1/2 x 14
		3-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	7 x 11-1/4	7 x 11-1/4	**
Live 20 PSF Dead 15 PSF LDF 1.25	4'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	6'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	8'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	9'3"	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	10'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
		3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	5-1/2 x 7-1/4
	12'	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4
	16'3"	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14
		3-1/2 x 11-1/4	3-1/2 x 11-1/4	5-1/2 x 9-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	7 x 11-1/4
	18'3"	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14
		3-1/2 x 11-1/4	3-1/2 x 11-7/8	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	7 x 11-1/4	7 x 11-1/4

Window, Door and Garage Door Header Example Problem

Load Conditions:	Live = 30 psf Dead = 15 psf LDF = 1.15
Clear Opening:	12'
Span of Supported Roof Framing:	20'
Anthony POWER BEAM® Selected:	3-1/2 x 9-1/4 w/ 1 trimmer

Load Duration Factor (LDF)

LDF	Duration
1.00	10 years; normal loads
1.15	2 month; snow load
1.25	7 days; non-snow or construction

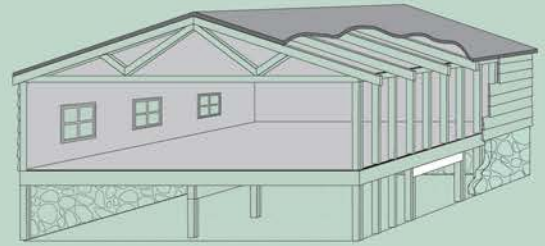
Notes: (Single Story Applications)

1. Local code may require an engineered system of wall bracing for wall sections less than 4' in length adjacent to garage door openings. A glulam garage door header extended continuously over these shorter walls adjacent to the garage door opening is an integral part of these engineered systems.
2. This table is for headers carrying roof loads only. For headers supporting floor, roof and exterior wall loads, see two-story applications.
3. Deflection is limited to L/240 for Live Load and L/180 for Total Load.
4. Design span is assumed to be the clear opening plus the bearing length of 1-1/2" (1 trimmer) or 3.0" (2 trimmers).
5. For bearing lengths longer than 3.0", use the Allowable Roof Load Tables to get required header size. Use of longer bearing lengths may allow the use of a smaller POWER BEAM®.
6. The header size is based on the load carried by 1/2 the span of the roof framing plus a 24" overhang.
7. It is assumed that the header has the truss or rafter framing attached to its top, and is supported laterally at the bearing points.
8. Live Load reductions may be taken per IRC, ICC and IBC. Live Load reductions have not been taken to produce this table.
9. For loads other than those shown, see Roof PLF table, or use a load condition that applies a higher load than you have.
10. A 9-1/2" depth member may be substituted for a 9-1/4" member, and an 11-7/8" for an 11-1/4", etc.

** These locations require a longer bearing or wider width beam. Consult PLF tables or AFP Power-Sizer Software for proper beam size.



Row 2: Header size for bearing length = 1-1/2"



POWER BEAM® Selection Table for Window, Door and Garage Door Headers - Two Story Applications

Roof Loading	Clear Opening	Span of Supported Roof Framing						
		16'	20'	24'	28'	32'	36'	40'
Roof Live	4'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	6'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
20 PSF Dead	8'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
	9'3"	3-1/2 x 7-1/4	3-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
20 PSF Floor Live	10'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/2	3-1/2 x 11-1/4
	12'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4
40 PSF Dead	12'	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 11-7/8	5-1/2 x 11-1/4	5-1/2 x 11-1/4
	16'3"	3-1/2 x 14	3-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 16
LDF 1.25	18'3"	5-1/2 x 11-1/4	7 x 11-1/4	7-1/2 x 11-1/4	**	**	**	**
		3-1/2 x 16	3-1/2 x 16	5-1/2 x 14	5-1/2 x 16	5-1/2 x 16	7 x 16	7 x 16
		7 x 11-7/8	7 x 14	**	**	**	**	**
Roof Live	4'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
	6'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4
20 PSF Dead	8'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	5-1/2 x 7-1/4
	9'3"	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
15 PSF Floor Live	10'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/2
	12'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	7 x 9-1/4
40 PSF Dead	12'	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 14	5-1/2 x 11-1/4
	16'3"	3-1/2 x 14	3-1/2 x 14	3-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 16
LDF 1.25	18'3"	5-1/2 x 11-1/4	7 x 11-1/4	7 x 11-1/4	**	**	**	**
		3-1/2 x 16	3-1/2 x 16	5-1/2 x 14	5-1/2 x 16	5-1/2 x 16	5-1/2 x 16	7 x 16
		5-1/2 x 14	7 x 14	**	**	**	**	**

Window, Door and Garage Door Header 2-Story Application Example Problem

Roof Load Conditions: Live = 30 psf
Dead = 15 psf
LDF = 1.15

Clear Opening: 12'

Span of Supported Roof Framing: 20'

Anthony POWER BEAM® Selected: 3-1/2 x 11-1/4 w/ 2 trimmers

Load Duration Factor (LDF)

LDF	Duration
1.00	10 years; normal loads
1.15	2 month; snow load
1.25	7 days; non-snow or construction

Notes: (Two Story Application)

1. This table is for headers carrying floor, roof and wall loads.
2. Deflection is limited to L/360 for Live Load and L/240 for Total Load.
3. Design span is assumed to be the clear opening plus the bearing length of 1-1/2" (1 trimmer) or 3.0" (2 trimmers).
4. For bearing lengths longer than 3.0", use the Allowable Floor Load Tables to get required header size. Use of longer bearing lengths may allow the use of a smaller POWER BEAM®.
5. The header size is based on the load carried by 1/2 the span of the roof framing plus a 24" overhang plus 1/4 the span of the floor load plus the wall load.
6. The wall load is assumed to be 100 PLF.
7. It is assumed that the header has the joist framing attached to its top, and is supported laterally at the bearing points.
8. For loads other than those shown, see the Floor Load PLF Table, or use a load condition that applies a higher load than you have.
9. Live Load reductions may be taken per IRC, IBC and ICC. Live Load reductions have not been taken to produce the table below.
10. A 9-1/2" depth member may be substituted for a 9-1/4" member, and an 11-7/8" for an 11-1/4", etc.

** These locations require a longer bearing or wider width beam. Consult PLF tables or AFP Power-Sizer Software for proper beam size.

Floor Girder Beams

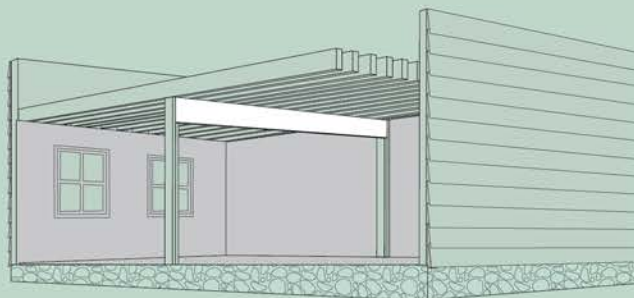
Steps in Using This Table:

1. Find the row with the appropriate roof loading conditions (Live Load, Dead Load and LDF).
2. Find the clear opening that meets or exceeds the column spacing.
3. Find the span of the joists that frame into the girder beam.
4. Select the proper header size.

Key: Each cell contains two nominal header sizes:

Row 1: Header size for bearing length = 3.0"

Row 2: Header size for bearing length = 1-1/2"



Floor Girder Beam

POWER BEAM® Selection Table for Girder Beams

Floor	Column	Span of Supported Joist Framing (the sum of joist spans from both sides of girder beam)						
Loading	Spacing	20'	24'	26'	28'	30'	32'	36'
Live 40 PSF Dead 12 PSF LDF 1.00	8'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4
	9'	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	7 x 7-1/4
	10'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/2	3-1/2 x 11-1/4
		5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	7 x 9-1/4	7 x 9-1/4
	11'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/2	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	5-1/2 x 9-1/4
		5-1/2 x 9-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	7 x 9-1/4	7 x 9-1/4	7 x 9-1/4	**
	12'	3-1/2 x 9-1/2	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	5-1/2 x 9-1/2	5-1/2 x 11-1/4
		5-1/2 x 9-1/4	5-1/2 x 9-1/4	7 x 9-1/4	7 x 9-1/4	7 x 9-1/4	**	**
	13'	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-7/8	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4
		5-1/2 x 9-1/4	7 x 9-1/4	7 x 9-1/4	7 x 9-1/4	**	**	**
	14'	3-1/2 x 11-1/4	3-1/2 x 11-7/8	3-1/2 x 14	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-7/8
		5-1/2 x 9-1/2	7 x 9-1/4	7 x 9-1/2	**	**	**	**
	15'	3-1/2 x 11-7/8	3-1/2 x 14	5-1/2 x 11-1/4	5-1/2 x 11-7/8	5-1/2 x 11-7/8	5-1/2 x 11-7/8	5-1/2 x 14
		5-1/2 x 11-1/4	7 x 11-1/4	**	**	**	**	**
	16'	3-1/2 x 14	5-1/2 x 11-7/8	5-1/2 x 11-7/8	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14
		7 x 11-1/4	**	**	**	**	**	**
	17'	3-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	7 x 14
		7 x 11-1/4	**	**	**	**	**	**
	18'	3-1/2 x 16	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 16	7 x 14
		7 x 11-1/4	**	**	**	**	**	**
Live 40 PSF Dead 20 PSF LDF 1.00	8'	3-1/2 x 7-1/4	3-1/2 x 7-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4
		3-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	7 x 7-1/4
	9'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 11-1/4
		5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	5-1/2 x 7-1/4	7 x 7-1/4	7 x 7-1/4	7 x 7-1/4
	10'	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/4	3-1/2 x 9-1/2	3-1/2 x 11-1/4	3-1/2 x 11-1/4	5-1/2 x 9-1/4
		5-1/2 x 7-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/4	7 x 9-1/4	7 x 9-1/4	7 x 9-1/4	**
	11'	3-1/2 x 9-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	5-1/2 x 9-1/4	5-1/2 x 9-1/2
		5-1/2 x 9-1/4	7 x 9-1/4	7 x 9-1/4	7 x 9-1/4	7 x 9-1/4	**	**
	12'	3-1/2 x 11-1/4	3-1/2 x 11-1/4	3-1/2 x 11-1/4	5-1/2 x 9-1/2	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4
		5-1/2 x 9-1/4	7 x 9-1/4	7 x 9-1/4	**	**	**	**
	13'	3-1/2 x 11-1/4	3-1/2 x 11-7/8	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4
		5-1/2 x 9-1/4	7 x 9-1/4	**	**	**	**	**
	14'	3-1/2 x 11-7/8	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-1/4	5-1/2 x 11-7/8	5-1/2 x 11-7/8	5-1/2 x 14
		7 x 9-1/4	**	**	**	**	**	**
	15'	3-1/2 x 14	5-1/2 x 11-1/4	5-1/2 x 11-7/8	5-1/2 x 11-7/8	5-1/2 x 14	5-1/2 x 14	7 x 11-7/8
		7 x 11-1/4	**	**	**	**	**	**
	16'	3-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	7 x 14
		7 x 11-1/4	**	**	**	**	**	**
	17'	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	7 x 14	7 x 14
		**	**	**	**	**	**	**
	18'	5-1/2 x 14	5-1/2 x 14	5-1/2 x 14	5-1/2 x 16	7 x 14	7 x 14	7 x 16
		**	**	**	**	**	**	**

Notes: (Floor Girder Beams)

1. This table is for beams carrying floor loads only. For beams supporting both roof and upper floor loads, see floor load tables or page 5, two story applications.
2. Deflection is limited to $L/360$ for Live Load and $L/240$ for Total Load.
3. The column spacing equals the design span. The beam is sized to consider simple or continuous beam applications.
4. For bearing lengths longer than 3.0", use the Allowable Floor Load tables to get the required header size.
5. The beam size is based on the load carried by continuous span joists. The beam load is based upon the load from $5/8$ of the span of the supported floor joists. The intermediate bearing is assumed to be 6" or 3" corresponding to the 3" or 1-1/2" end bearing conditions, respectively.
6. For simple span floor joists, multiply the sum of the spans by 0.80 and use the calculated span as span of supported joist framing.
7. It is assumed that the beam has the truss or joist framing attached to its top or to the beam sides using hangers, and is supported laterally at the bearing points.
8. For load conditions other than those shown, see Floor Load Table, or use a load condition that applies a higher load than you have.
9. Live Load reductions may be taken per IRC, ICC and IBC. Live Load reductions have not been taken to produce the table above.
10. A 9-1/2" header may be used for a 9-1/4" header, and an 11-7/8" for an 11-1/4", etc.

***These locations require a longer bearing or wider width beam. Consult PLF tables or AFP's Power Sizer Software for proper beam size.*

**Floor Girder Beam Example Problem I
For Simple Span I-Joists**

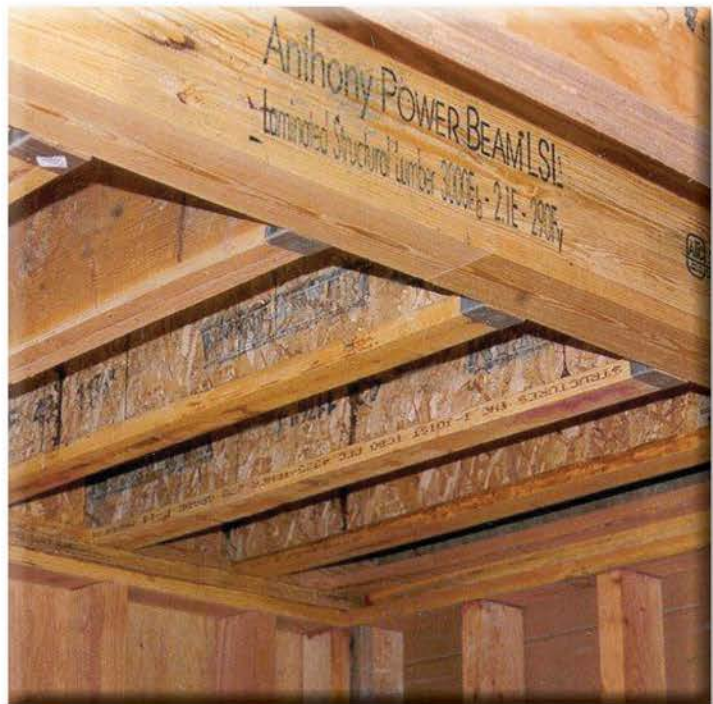
Load Conditions:	Live = 40 psf Dead = 12 psf LDF = 1.00
Column Spacing:	14'
Span of Supported Joist Framing:	30' (ie., 15' + 15') Use $0.8 \times 30 = 24'$ equivalent
Anthony POWER BEAM® Selected:	3-1/2 x 11-7/8 w/2 trimmers

**Floor Girder Beam Example Problem II
For Continuous Span I-Joists**

Load Conditions:	Live = 40 psf Dead = 12 psf LDF = 1.00
Column Spacing:	14'
Span of Supported Joist Framing:	30' (ie., 15' + 15')
Anthony POWER BEAM® Selected:	5-1/2 x 11-1/4 w/2 trimmers

General Notes for All Size Selection Tables

1. Beam weight is included in all tables and does not have to be added to the applied load.
2. The top edge of the beam or header is assumed to have continuous lateral support.
3. Beams and headers are assumed to be used under dry conditions and normal temperatures.
4. All tables assume uniform load conditions. Any concentrated load applications must be analyzed separately or converted to an equivalent uniform load.
5. Dead and Live Loads used to select a beam or header should be equal to or greater than the actual loads applied.
6. For other beam widths and depths, or for Architectural Grade Appearance Beams, please contact Anthony Forest Products Company or your local dealer.



Allowable Floor Load Tables LDF = 1.0

3000F

These tables can be used to size simple span beams and headers that carry uniform loads. The PLF loads must be calculated and take into account all floor and roof framing loads coming onto the beam or header.

Key: For each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0, and deflection limited to L/240

Row 2: Maximum Live Load limited by deflection of L/360

Row 3: Required Bearing Length in trimmer thickness

(e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

Allowable Loads for Anthony POWER BEAM® in Pounds per Linear Foot

Actual Span	3 1/2"								5 1/2"							
	Depth (in.)								Depth (in.)							
	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8	14	16	18	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8	14	16	18
7'	1251	2037	2149	3013	3311	4200	5169	6300	1967	3201	3377	4735	5203	6600	8123	9900
	1008	2037	2149	3013	3311	4200	5169	6300	1584	3201	3377	4735	5203	6600	8123	9900
	3	3	3	4.5	4.5	6	7.5	9	3	3	3	4.5	4.5	6	7.5	9
8'	958	1560	1645	2307	2571	3459	4200	5040	1506	2451	2585	3625	4040	5435	6600	7920
	675	1403	1520	2307	2571	3459	4200	5040	1061	2204	2388	3625	4040	5435	6600	7920
	1.5	3	3	4.5	4.5	6	7.5	9	1.5	3	3	4.5	4.5	6	7.5	9
9'	712	1232	1300	1823	2031	2823	3537	4200	1118	1937	2043	2865	3192	4436	5558	6600
	474	985	1067	1772	2031	2823	3537	4200	745	1548	1677	2785	3192	4436	5558	6600
	1.5	3	3	4.5	4.5	6	6	7.5	1.5	3	3	4.5	4.5	6	6	7.5
10'	519	998	1053	1477	1645	2287	2987	3600	815	1569	1655	2320	2585	3593	4693	5657
	346	718	778	1292	1520	2287	2987	3600	543	1129	1223	2030	2388	3593	4693	5657
	1.5	3	3	4.5	4.5	6	6	7.5	1.5	3	3	4.5	4.5	6	6	7.5
11'	390	809	870	1220	1360	1890	2468	3124	612	1272	1367	1918	2137	2970	3879	4909
	260	540	585	971	1142	1871	2468	3124	408	848	919	1525	1794	2940	3879	4909
	1.5	3	3	4.5	4.5	6	6	7.5	1.5	3	3	4.5	4.5	6	6	7.5
12'	300	623	675	1025	1142	1588	2074	2625	472	980	1061	1611	1795	2495	3259	4125
	200	416	450	748	879	1441	2074	2625	314	653	707	1175	1382	2264	3259	4125
	1.5	1.5	1.5	3	3	4.5	6	6	1.5	1.5	1.5	3	3	4.5	6	6
13'	236	490	531	874	973	1353	1767	2237	371	771	835	1373	1530	2126	2777	3515
	157	327	354	588	692	1133	1692	2237	247	514	556	924	1087	1781	2658	3515
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
14'	189	393	425	706	831	1167	1524	1929	297	617	668	1110	1305	1833	2395	3020
	126	262	284	471	554	907	1354	1929	198	411	446	740	870	1426	2128	3020
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
15'	154	319	346	574	675	1016	1327	1680	242	502	543	902	1061	1597	2084	2622
	102	213	231	383	450	738	1101	1568	161	334	362	602	707	1159	1731	2464
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
16'	127	263	285	473	556	893	1167	1477	199	413	448	744	874	1404	1825	2297
	84	175	190	315	371	608	907	1292	133	276	298	496	583	955	1426	2030
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
17'	106	219	238	394	464	760	1033	1308	166	345	373	620	729	1195	1612	2028
	70	146	158	263	309	507	757	1077	111	230	249	413	486	796	1189	1693
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
18'	89	185	200	332	391	640	922	1167	140	290	314	522	614	1006	1434	1804
	59	123	133	222	261	427	637	907	93	194	210	348	409	671	1001	1426
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
19'	76	157	170	283	332	545	813	1047	119	247	267	444	522	856	1277	1615
	50	105	113	188	222	363	542	772	79	165	178	296	348	570	852	1212
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
20'	65	135	146	242	285	467	697	945	102	212	229	381	448	734	1095	1454
	43	90	97	161	190	311	465	662	68	141	153	254	298	489	730	1040
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
21'	56	116	126	209	246	403	602	856	88	183	198	329	387	634	946	1315
	37	78	84	140	164	269	401	571	59	122	132	219	258	422	631	898
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
22'	49	101	110	182	214	351	524	745	77	159	172	286	336	551	823	1171
	32	67	73	121	143	234	349	497	51	106	115	191	224	367	549	781
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
23'	43	89	96	159	187	307	458	652	67	139	151	250	294	482	720	1025
	28	59	64	106	125	205	305	435	45	93	100	167	196	322	480	683
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
24'	38	78	84	140	165	270	403	574	59	122	133	220	259	425	634	902
	25	52	56	93	110	180	269	383	39	82	88	147	173	283	422	602
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
25'	33	69	75	124	146	239	357	508	52	108	117	195	229	376	561	798
	22	46	50	83	97	159	238	339	35	72	78	130	153	250	374	532
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
26'	30	61	66	110	130	212	317	452	46	96	104	173	204	334	498	710
	20	41	44	74	86	142	211	301	31	64	70	116	136	223	332	473
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
27'	26	55	59	98	116	190	283	403	41	86	93	155	182	298	445	634
	18	36	40	66	77	127	189	269	28	57	62	103	121	199	297	422
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
28'	24	49	53	88	104	170	254	362	37	77	84	139	163	267	399	568
	16	33	35	59	69	113	169	241	25	51	56	92	109	178	266	379
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
29'	21	44	48	79	93	153	229	325	33	69	75	125	147	241	359	511
	14	29	32	53	62	102	152	217	22	46	50	83	98	160	239	341
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
30'	19	40	43	72	84	138	206	294	30	63	68	113	133	217	324	462
	13	27	29	48	56	92	138	196	20	42	45	75	88	145	216	308
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
32'	16	33	36	59	70	114	170	242	25	52	56	93	109	179	267	381
	11	22	24	39	46	76	113	161	17	34	37	62	73	119	178	254
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6

Allowable Floor Load Tables LDF = 1.0

2800F

These tables can be used to size simple span beams and headers that carry uniform loads. The PLF loads must be calculated and take into account all floor and roof framing loads coming onto the beam or header.

Key: For each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0, and deflection limited to L/240

Row 2: Maximum Live Load limited by deflection of L/360

Row 3: Required Bearing Length in trimmer thickness

(e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

Allowable Loads for Anthony POWER BEAM® in Pounds per Linear Foot

Actual Span	7"															
	Depth (in.)															
	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8	14	16	18	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
7'	2336 2016 1.5	3803 3803 3	4011 4011 3	5625 5625 4.5	6267 6267 4.5	8400 8400 6	10338 10338 7.5	12600 12600 9	14215 14215 10.5	16211 16211 12	18480 18480 13.5	21085 21085 16.5	24104 24104 18	27647 27647 21	31862 31862 25.5	36888 36888 30
8'	1789 1351 1.5	2912 2805 3	3071 3039 3	4307 4307 4.5	4798 4798 4.5	6669 6669 6	8400 8400 7.5	10080 10080 9	11249 11249 9	12658 12658 10.5	14215 14215 12	15947 15947 13.5	17884 17884 15	20064 20064 16.5	22537 22537 19.5	25365 25365 22.5
9'	1413 949 1.5	2300 1970 3	2426 2134 3	3403 3403 3	3791 3791 4.5	5270 5270 4.5	6883 6883 6	8400 8400 7.5	9306 9306 9	10382 10382 9	11550 11550 10.5	12823 12823 12	14215 14215 13.5	15745 15745 15	17434 17434 16.5	19307 19307 18
10'	1037 692 1.5	1863 1436 3	1965 1556 3	2756 2584 3	3071 3039 3	4268 4268 4.5	5575 5575 6	7056 7056 7.5	7936 7936 7.5	8800 8800 9	9726 9726 10.5	10722 10722 10.5	11796 11796 12	12956 12956 13.5	14215 14215 15	15586 15586 16.5
11'	779 520 1.5	1540 1079 3	1624 1169 3	2278 1941 3	2538 2283 3	3528 3528 4.5	4608 4608 6	5811 5811 6	6624 6624 7.5	7578 7578 9	8400 8400 9	9213 9213 10.5	10080 10080 12	11007 11007 12	12000 12000 13.5	13067 13067 15
12'	600 400 1.5	1247 831 1.5	1351 900 1.5	1914 1495 3	2133 1759 3	2964 2882 4.5	3864 3864 4.5	4862 4862 6	5542 5542 7.5	6340 6340 7.5	7190 7190 9	8076 8076 10.5	8800 8800 10.5	9567 9567 12	10382 10382 12	11249 11249 13.5
13'	472 315 1.5	981 654 1.5	1062 708 1.5	1631 1176 3	1817 1383 3	2526 2267 3	3279 3279 4.5	4126 4126 6	4703 4703 6	5380 5380 7.5	6102 6102 7.5	6867 6867 9	7677 7677 10.5	8461 8461 10.5	9149 9149 12	9875 9875 13.5
14'	378 252 1.5	785 523 1.5	851 567 1.5	1406 942 3	1567 1108 3	2171 1815 3	2817 2709 4.5	3544 3544 6	4040 4040 6	4622 4622 6	5242 5242 7.5	5900 5900 9	6595 6595 9	7328 7328 10.5	8099 8099 12	8800 8800 12
15'	307 205 1.5	638 426 1.5	692 461 1.5	1148 766 3	1351 900 3	1885 1476 3	2445 2203 4.5	3077 3077 4.5	3507 3507 6	4012 4012 6	4550 4550 7.5	5121 5121 7.5	5725 5725 9	6362 6362 9	7031 7031 10.5	7733 7733 12
16'	253 169 1.5	526 351 1.5	570 380 1.5	946 631 1.5	1113 742 3	1651 1216 3	2142 1815 4.5	2696 2584 4.5	3073 3073 4.5	3515 3515 6	3986 3986 6	4487 4487 7.5	5016 5016 7.5	5573 5573 9	6160 6160 10.5	6775 6775 10.5
17'	211 141 1.5	439 292 1.5	475 317 1.5	789 526 1.5	928 619 1.5	1458 1014 3	1892 1513 3	2381 2154 4.5	2714 2635 4.5	3104 3104 6	3521 3521 6	3962 3962 7.5	4430 4430 7.5	4922 4922 9	5440 5440 9	5983 5983 10.5
18'	178 119 1.5	369 246 1.5	400 267 1.5	665 443 1.5	782 521 1.5	1281 854 3	1683 1275 3	2117 1815 4.5	2413 2220 4.5	2761 2730 4.5	3131 3131 6	3524 3524 6	3940 3940 7.5	4378 4378 7.5	4838 4838 9	5321 5321 9
19'	151 101 1.5	314 209 1.5	340 227 1.5	565 377 1.5	665 443 1.5	1089 726 3	1506 1084 3	1895 1543 4.5	2160 1887 4.5	2471 2321 4.5	2803 2803 6	3155 3155 6	3526 3526 7.5	3919 3919 7.5	4331 4331 9	4763 4763 9
20'	130 86 1.5	269 180 1.5	292 194 1.5	484 323 1.5	570 380 1.5	934 622 3	1356 929 3	1706 1323 4.5	1945 1618 4.5	2225 1990 4.5	2523 2416 6	2840 2840 6	3174 3174 7.5	3527 3527 7.5	3899 3899 9	4288 4288 9
21'	112 75 1.5	233 155 1.5	252 168 1.5	419 279 1.5	492 328 1.5	807 538 3	1204 803 3	1544 1143 4.5	1760 1398 4.5	2013 1719 4.5	2283 2087 6	2569 2503 6	2872 2872 7.5	3192 3192 7.5	3527 3527 7.5	3880 3880 7.5
22'	97 65 1.5	202 135 1.5	219 146 1.5	364 243 1.5	428 285 1.5	702 468 1.5	1047 698 3	1403 994 3	1600 1216 4.5	1830 1495 4.5	2075 1815 4.5	2336 2177 6	2611 2584 6	2901 2901 6	3207 3207 7.5	3527 3527 7.5
23'	85 57 1.5	177 118 1.5	192 128 1.5	319 212 1.5	375 250 1.5	614 409 1.5	916 611 3	1281 870 3	1460 1064 4.5	1670 1309 4.5	1895 1588 4.5	2132 1905 4.5	2384 2261 6	2649 2649 6	2927 2927 7.5	3220 3220 7.5
24'	75 50 1.5	156 104 1.5	169 113 1.5	280 187 1.5	330 220 1.5	540 360 1.5	807 538 3	1148 766 3	1338 936 3	1531 1152 4.5	1736 1398 4.5	1954 1677 4.5	2184 1990 6	2427 2341 6	2683 2683 6	2951 2951 7.5
25'	66 44 1.5	138 92 1.5	149 100 1.5	248 165 1.5	292 194 1.5	478 319 1.5	714 476 3	1016 677 3	1231 829 3	1408 1019 4.5	1597 1237 4.5	1797 1483 4.5	2009 1761 6	2233 2071 6	2467 2416 6	2714 2714 7.5
26'	59 39 1.5	123 82 1.5	133 89 1.5	221 147 1.5	259 173 1.5	425 283 1.5	634 423 1.5	903 602 3	1105 737 3	1299 906 4.5	1473 1099 4.5	1658 1319 4.5	1854 1565 4.5	2060 1841 6	2277 2147 6	2504 2486 6
27'	53 35 1.5	109 73 1.5	119 79 1.5	197 131 1.5	232 154 1.5	380 253 1.5	566 378 1.5	807 538 3	987 658 3	1203 809 3	1364 982 4.5	1535 1178 4.5	1716 1398 4.5	1907 1644 6	2107 1918 6	2318 2220 6
28'	47 32 1.5	98 65 1.5	106 71 1.5	177 118 1.5	208 138 1.5	340 227 1.5	508 339 1.5	723 482 3	885 590 3	1088 725 3	1266 880 4.5	1425 1056 4.5	1593 1253 4.5	1770 1474 4.5	1956 1719 6	2151 1990 6
29'	43 28 1.5	88 59 1.5	96 64 1.5	159 106 1.5	187 125 1.5	306 204 1.5	457 305 1.5	651 434 3	796 531 3	979 653 4.5	1178 792 4.5	1326 950 4.5	1482 1128 4.5	1647 1327 4.5	1820 1548 6	2002 1791 6
30'	38 26 1.5	80 53 1.5	86 58 1.5	144 96 1.5	169 113 1.5	277 184 1.5	413 275 1.5	588 392 3	719 479 3	885 590 3	1074 716 4.5	1237 858 4.5	1383 1019 4.5	1536 1198 4.5	1698 1398 6	1867 1618 6
32'	32 21 1.5	66 44 1.5	71 47 1.5	118 79 1.5	139 93 1.5	228 152 1.5	340 227 1.5	484 323 1.5	593 395 3	729 486 3	885 590 3	1061 707 4.5	1211 840 4.5	1346 988 4.5	1487 1152 4.5	1636 1333 6

Allowable Roof Load Tables LDF = 1.15

3000F

These tables can be used to size simple span beams and headers that carry uniform loads. The PLF loads must be calculated and take into account all floor and roof framing loads coming onto the beam or header.

Key: For each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.15, and deflection limited to L/180

Row 2: Maximum Live Load limited by deflection of L/240

Row 3: Required Bearing Length in trimmer thickness

(e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

Allowable Loads for Anthony POWER BEAM® in Pounds per Linear Foot

Actual Span	3 1/2"								5 1/2"							
	Depth (in.)								Depth (in.)							
	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8	14	16	18	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8	14	16	18
7'	1439	2343	2471	3465	3808	4830	5945	7245	2262	3682	3883	5446	5984	7590	9342	11385
	1439	2343	2471	3465	3808	4830	5945	7245	2262	3682	3883	5446	5984	7590	9342	11385
	3	4.5	4.5	6	6	7.5	9	10.5	3	4.5	4.5	6	6	7.5	9	10.5
8'	1102	1794	1892	2653	2956	3978	4830	5796	1732	2819	2973	4169	4645	6251	7590	9108
	1013	1794	1892	2653	2956	3978	4830	5796	1592	2819	2973	4169	4645	6251	7590	9108
	3	3	3	4.5	4.5	6	7.5	9	3	3	3	4.5	4.5	6	7.5	9
9'	871	1417	1495	2096	2336	3247	4067	4830	1368	2227	2349	3294	3670	5102	6392	7590
	712	1417	1495	2096	2336	3247	4067	4830	1118	2227	2349	3294	3670	5102	6392	7590
	1.5	3	3	4.5	4.5	6	7.5	9	1.5	3	3	4.5	4.5	6	7.5	9
10'	692	1148	1211	1698	1892	2630	3435	4140	1087	1804	1903	2668	2973	4132	5397	6506
	519	1077	1167	1698	1892	2630	3435	4140	815	1693	1834	2668	2973	4132	5397	6506
	1.5	3	3	4.5	4.5	6	7.5	9	1.5	3	3	4.5	4.5	6	7.5	9
11'	520	949	1001	1403	1564	2173	2839	3593	817	1491	1573	2205	2457	3415	4461	5645
	390	809	877	1403	1564	2173	2839	3593	612	1272	1378	2205	2457	3415	4461	5645
	1.5	3	3	4.5	4.5	6	7.5	9	1.5	3	3	4.5	4.5	6	7.5	9
12'	400	797	841	1179	1314	1826	2385	3019	629	1253	1321	1853	2065	2870	3748	4744
	300	623	675	1122	1314	1826	2385	3019	472	980	1061	1762	2065	2870	3748	4744
	1.5	3	3	4.5	4.5	6	7.5	9	1.5	3	3	4.5	4.5	6	7.5	9
13'	315	654	708	1005	1120	1556	2032	2572	495	1027	1113	1579	1759	2445	3194	4042
	236	490	531	882	1037	1556	2032	2572	371	771	835	1386	1630	2445	3194	4042
	1.5	3	3	4.5	4.5	6	7.5	9	1.5	3	3	4.5	4.5	6	7.5	9
14'	252	523	567	866	965	1342	1752	2218	396	823	891	1361	1517	2108	2754	3473
	189	393	425	706	831	1342	1752	2218	297	617	668	1110	1305	2108	2754	3473
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
15'	205	426	461	755	841	1169	1527	1932	322	669	724	1186	1321	1837	2396	3015
	154	319	346	574	675	1107	1527	1932	242	502	543	902	1061	1739	2396	3015
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
16'	169	351	380	631	739	1027	1342	1698	265	551	597	991	1161	1614	2099	2641
	127	263	285	473	556	912	1342	1698	199	413	448	744	874	1433	2099	2641
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
17'	141	292	317	526	619	910	1188	1504	221	459	498	826	972	1429	1854	2333
	106	219	238	394	464	760	1135	1504	166	345	373	620	729	1195	1783	2333
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
18'	119	246	267	443	521	812	1060	1342	186	387	419	696	819	1271	1649	2075
	89	185	200	332	391	640	956	1342	140	290	314	522	614	1006	1502	2075
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
19'	101	209	227	377	443	726	951	1204	158	329	356	592	696	1138	1476	1857
	76	157	170	283	332	545	813	1157	119	247	267	444	522	856	1277	1819
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
20'	86	180	194	323	380	622	859	1087	136	282	306	508	597	978	1329	1672
	65	135	146	242	285	467	697	992	102	212	229	381	448	734	1095	1559
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
21'	75	155	168	279	328	538	779	985	117	244	264	438	516	845	1202	1513
	56	116	126	209	246	403	602	857	88	183	198	329	387	634	946	1347
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
22'	65	135	146	242	285	467	697	992	102	212	229	381	448	734	1095	1559
	49	101	110	182	214	351	524	745	77	159	172	286	336	551	823	1171
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
23'	57	118	128	212	250	409	611	817	89	186	201	334	393	643	960	1255
	43	89	96	159	187	307	458	652	67	139	151	250	294	482	720	1025
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
24'	50	104	113	187	220	360	538	749	79	163	177	294	345	566	845	1150
	38	78	84	140	165	270	403	574	59	122	133	220	259	425	634	902
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
25'	44	92	100	165	194	319	476	677	70	144	156	260	306	501	748	1058
	33	69	75	124	146	239	357	508	52	108	117	195	229	376	561	798
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
26'	39	82	89	147	173	283	423	602	62	128	139	231	272	445	665	946
	30	61	66	110	130	212	317	452	46	96	104	173	204	334	498	710
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
27'	35	73	79	131	154	253	378	538	55	115	124	206	243	398	593	845
	26	55	59	98	116	190	283	403	41	86	93	155	182	298	445	634
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
28'	32	65	71	118	138	227	339	482	50	103	111	185	218	356	532	758
	24	49	53	88	104	170	254	362	37	77	84	139	163	267	399	568
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
29'	28	59	64	106	125	204	305	434	45	93	100	166	196	321	479	682
	21	44	48	79	93	153	229	325	33	69	75	125	147	241	359	511
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
30'	26	53	58	96	113	184	275	392	40	84	91	150	177	290	433	616
	19	40	43	72	84	138	206	294	30	63	68	113	133	217	324	462
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
32'	21	44	47	79	93	152	227	323	33	69	75	124	146	239	356	508
	16	33	36	59	70	114	170	242	25	52	56	93	109	179	267	381
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6

Allowable Roof Load Tables LDF = 1.15

2800F

These tables can be used to size simple span beams and headers that carry uniform loads. The PLF loads must be calculated and take into account all floor and roof framing loads coming onto the beam or header.

Key: For each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.15, and deflection limited to L/180

Row 2: Maximum Live Load limited by deflection of L/240

Row 3: Required Bearing Length in trimmer thickness

(e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

Allowable Loads for Anthony POWER BEAM® in Pounds per Linear Foot

Actual Span	7"															
	Depth (in.)															
	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8	14	16	18	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
7'	2687	4373	4613	6469	7207	9660	11889	14490	16348	18642	21252	24247	27720	31794	36641	42421
	2687	4373	4613	6469	7207	9660	11889	14490	16348	18642	21252	24247	27720	31794	36641	42421
	3	3	3	4.5	6	7.5	9	10.5	12	13.5	16.5	18	21	25.5	30	36
8'	2057	3348	3532	4953	5518	7670	9660	11592	12936	14556	16348	18339	20566	23074	25917	29169
	2026	3348	3532	4953	5518	7670	9660	11592	12936	14556	16348	18339	20566	23074	25917	29169
	1.5	3	3	4.5	4.5	6	7.5	9	10.5	12	13.5	15	18	19.5	22.5	25.5
9'	1625	2646	2790	3913	4360	6060	7915	9660	10702	11939	13283	14746	16348	18107	20049	22204
	1423	2646	2790	3913	4360	6060	7915	9660	10702	11939	13283	14746	16348	18107	20049	22204
	1.5	3	3	4.5	4.5	6	7.5	9	10.5	10.5	12	13.5	15	16.5	19.5	21
10'	1316	2143	2260	3170	3532	4909	6411	8114	9127	10120	11185	12331	13565	14900	16348	17923
	1037	2143	2260	3170	3532	4909	6411	8114	9127	10120	11185	12331	13565	14900	16348	17923
	1.5	3	3	3	4.5	6	6	9	9	10.5	12	12	13.5	15	16.5	19.5
11'	1039	1771	1868	2620	2919	4057	5299	6682	7617	8714	9660	10595	11592	12658	13800	15027
	779	1619	1754	2620	2919	4057	5299	6682	7617	8714	9660	10595	11592	12658	13800	15027
	1.5	3	3	3	3	4.5	6	7.5	9	10.5	10.5	12	13.5	15	15	16.5
12'	800	1488	1570	2201	2453	3409	4443	5591	6373	7291	8268	9288	10120	11002	11939	12936
	600	1247	1351	2201	2453	3409	4443	5591	6373	7291	8268	9288	10120	11002	11939	12936
	1.5	3	3	3	3	4.5	6	7.5	7.5	9	10.5	12	12	13.5	15	16.5
13'	630	1268	1337	1876	2090	2905	3771	4745	5408	6187	7017	7898	8829	9730	10521	11356
	472	981	1062	1764	2075	2905	3771	4745	5408	6187	7017	7898	8829	9730	10521	11356
	1.5	1.5	3	3	3	4.5	4.5	6	7.5	7.5	9	10.5	12	13.5	13.5	15
14'	504	1047	1134	1617	1802	2497	3240	4076	4646	5315	6028	6784	7584	8428	9314	10120
	378	785	851	1413	1661	2497	3240	4076	4646	5315	6028	6784	7584	8428	9314	10120
	1.5	1.5	1.5	3	3	4.5	4.5	6	6	7.5	9	9	10.5	12	13.5	15
15'	410	851	922	1409	1570	2168	2812	3538	4033	4614	5233	5890	6584	7316	8086	8893
	307	638	692	1148	1351	2168	2812	3538	4033	4614	5233	5890	6584	7316	8086	8893
	1.5	1.5	1.5	3	3	3	4.5	6	6	7.5	7.5	9	10.5	10.5	12	13.5
16'	338	701	760	1238	1378	1899	2464	3100	3534	4042	4584	5160	5768	6410	7084	7791
	253	526	570	946	1113	1824	2464	3100	3534	4042	4584	5160	5768	6410	7084	7791
	1.5	1.5	1.5	3	3	3	4.5	6	6	6	7.5	9	9	10.5	12	12
17'	282	585	633	1052	1217	1677	2176	2738	3121	3570	4049	4557	5094	5660	6256	6880
	211	439	475	789	928	1520	2176	2738	3121	3570	4049	4557	5094	5660	6256	6880
	1.5	1.5	1.5	3	3	3	4.5	4.5	6	6	7.5	7.5	9	9	10.5	12
18'	237	493	534	886	1042	1492	1935	2435	2776	3175	3601	4053	4531	5035	5564	6120
	178	369	400	665	782	1281	1912	2435	2776	3175	3601	4053	4531	5035	5564	6120
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	6	6	7.5	7.5	9	10.5	10.5
19'	202	419	454	753	886	1335	1732	2179	2484	2842	3223	3628	4055	4506	4980	5478
	151	314	340	565	665	1089	1626	2179	2484	2842	3223	3628	4055	4506	4980	5478
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	6	6	7.5	7.5	9	9	10.5
20'	173	359	389	646	760	1202	1559	1962	2236	2558	2902	3266	3651	4057	4483	4931
	130	269	292	484	570	934	1394	1962	2236	2558	2902	3266	3651	4057	4483	4931
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	6	6	7.5	7.5	9	10.5
21'	149	310	336	558	656	1075	1411	1775	2023	2315	2625	2955	3303	3670	4057	4461
	112	233	252	419	492	807	1204	1714	2023	2315	2625	2955	3303	3670	4057	4461
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	9
22'	130	270	292	485	571	935	1283	1614	1839	2104	2387	2686	3003	3337	3688	4056
	97	202	219	364	428	702	1047	1491	1824	2104	2387	2686	3003	3337	3688	4056
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	7.5	7.5	9
23'	114	236	256	425	500	819	1171	1473	1679	1921	2179	2452	2741	3046	3366	3702
	85	177	192	319	375	614	916	1305	1596	1921	2179	2452	2741	3046	3366	3702
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	7.5	7.5	9
24'	100	208	225	374	440	720	1073	1350	1539	1761	1997	2247	2512	2792	3085	3393
	75	156	169	280	330	540	807	1148	1405	1728	1997	2247	2512	2792	3085	3393
	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	7.5
25'	89	184	199	331	389	637	951	1242	1415	1619	1836	2067	2310	2567	2837	3121
	66	138	149	248	292	478	714	1016	1243	1529	1836	2067	2310	2567	2837	3121
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	7.5	7.5
26'	79	163	177	294	346	567	846	1146	1306	1494	1694	1907	2132	2369	2618	2880
	59	123	133	221	259	425	634	903	1105	1359	1649	1907	2132	2369	2618	2880
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	7.5	7.5
27'	70	146	158	263	309	506	755	1060	1209	1383	1568	1765	1973	2193	2423	2665
	53	109	119	197	232	380	566	807	987	1213	1473	1765	1973	2193	2423	2665
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	6	7.5
28'	63	131	142	235	277	454	677	964	1122	1284	1456	1638	1832	2035	2249	2474
	47	98	106	177	208	340	508	723	885	1088	1320	1584	1832	2035	2249	2474
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	6	7.5
29'	57	118	128	212	249	408	610	868	1044	1194	1355	1525	1704	1894	2093	2302
	43	88	96	159	187	306	457	651	796	979	1188	1426	1692	1894	2093	2302
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	6	7.5
30'	51	106	115	191	225	369	551	784	959	1114	1264	1422	1590	1767	1953	2147
	38	80	86	144	169	277	413	588	719	885	1074	1288	1529	1767	1953	2147
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	6
32'	42	88	95	158	185	304	454	646	790	972	1107	1246	1393	1548	1711	1881
	32	66	71	118	139	228	340	484	593	729	885	1061	1260	1481	1711	1881
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	6	6

Allowable Roof Load Tables LDF = 1.25

3000F

These tables can be used to size simple span beams and headers that carry uniform loads. The PLF loads must be calculated and take into account all floor and roof framing loads coming onto the beam or header.

Key: For each clear span there are three numbers:
Row 1: Maximum Total Load with LDF of 1.25, and deflection limited to L/180
Row 2: Maximum Live Load limited by deflection of L/240
Row 3: Required Bearing Length in trimmer thickness
(e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

Allowable Loads for Anthony POWER BEAM® in Pounds per Linear Foot

Actual Span	3 1/2"								5 1/2"							
	Depth (in.)								Depth (in.)							
	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8	14	16	18	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8	14	16	18
7'	1564	2547	2686	3767	4139	5250	6462	7875	2458	4002	4221	5919	6504	8250	10154	12375
	1512	2547	2686	3767	4139	5250	6462	7875	2376	4002	4221	5919	6504	8250	10154	12375
	3	4.5	4.5	6	6	7.5	9	12	3	4.5	4.5	6	6	7.5	9	12
8'	1198	1950	2056	2884	3213	4324	5250	6300	1882	3064	3232	4532	5049	6794	8250	9900
	1013	1950	2056	2884	3213	4324	5250	6300	1592	3064	3232	4532	5049	6794	8250	9900
	3	3	4.5	4.5	6	7.5	9	10.5	3	3	4.5	4.5	6	7.5	9	10.5
9'	946	1540	1625	2279	2539	3529	4421	5250	1487	2421	2553	3581	3990	5545	6947	8250
	712	1478	1601	2279	2539	3529	4421	5250	1118	2322	2516	3581	3990	5545	6947	8250
	3	3	3	4.5	4.5	6	9	10.5	3	3	3	4.5	4.5	6	9	10.5
10'	692	1248	1316	1846	2056	2858	3733	4500	1087	1961	2068	2900	3232	4492	5867	7071
	519	1077	1167	1846	2056	2858	3733	4500	815	1693	1834	2900	3232	4492	5867	7071
	1.5	3	3	4.5	4.5	6	7.5	9	1.5	3	3	4.5	4.5	6	7.5	9
11'	520	1031	1088	1525	1700	2362	3085	3905	817	1621	1709	2397	2671	3712	4848	6136
	390	809	877	1456	1700	2362	3085	3905	612	1272	1378	2288	2671	3712	4848	6136
	1.5	3	3	4.5	4.5	6	7.5	9	1.5	3	3	4.5	4.5	6	7.5	9
12'	400	831	900	1282	1428	1985	2593	3281	629	1306	1415	2014	2244	3119	4074	5156
	300	623	675	1122	1319	1985	2593	3281	472	980	1061	1762	2073	3119	4074	5156
	1.5	3	3	3	4.5	4.5	6	7.5	1.5	3	3	3	4.5	4.5	6	7.5
13'	315	654	708	1092	1217	1691	2209	2796	495	1027	1113	1716	1912	2658	3471	4393
	236	490	531	882	1037	1691	2209	2796	371	771	835	1386	1630	2658	3471	4393
	1.5	3	3	3	3	4.5	6	7.5	1.5	3	3	3	3	4.5	6	7.5
14'	252	523	567	942	1049	1458	1905	2411	396	823	891	1480	1649	2292	2993	3775
	189	393	425	706	831	1361	1905	2411	297	617	668	1110	1305	2139	2993	3775
	1.5	1.5	1.5	3	3	4.5	6	7.5	1.5	1.5	1.5	3	3	4.5	6	7.5
15'	205	426	461	766	900	1270	1659	2100	322	669	724	1203	1415	1996	2605	3277
	154	319	346	574	675	1107	1652	2100	242	502	543	902	1061	1739	2596	3277
	1.5	1.5	1.5	3	3	4.5	6	6	1.5	1.5	1.5	3	3	4.5	6	6
16'	169	351	380	631	742	1117	1458	1846	265	551	597	991	1166	1755	2282	2871
	127	263	285	473	556	912	1361	1846	199	413	448	744	874	1433	2139	2871
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
17'	141	292	317	526	619	989	1292	1635	221	459	498	826	972	1553	2015	2535
	106	219	238	394	464	760	1135	1616	166	345	373	620	729	1195	1783	2535
	1.5	1.5	1.5	3	3	4.5	4.5	6	1.5	1.5	1.5	3	3	4.5	4.5	6
18'	119	246	267	443	521	854	1152	1458	186	387	419	696	819	1342	1792	2255
	89	185	200	332	391	640	956	1361	140	290	314	522	614	1006	1502	2139
	1.5	1.5	1.5	1.5	3	3	4.5	6	1.5	1.5	1.5	1.5	3	3	4.5	6
19'	101	209	227	377	443	726	1034	1309	158	329	356	592	696	1141	1604	2018
	76	157	170	283	332	545	813	1157	119	247	267	444	522	856	1277	1819
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5
20'	86	180	194	323	380	622	929	1181	136	282	306	508	597	978	1444	1817
	65	135	146	242	285	467	697	992	102	212	229	381	448	734	1095	1559
	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5
21'	75	155	168	279	328	538	803	1070	117	244	264	438	516	845	1261	1644
	56	116	126	209	246	403	602	857	88	183	198	329	387	634	946	1347
	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5
22'	65	135	146	243	285	468	698	973	102	212	230	381	448	735	1097	1495
	49	101	110	182	214	351	524	745	77	159	172	286	336	551	823	1171
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5
23'	57	118	128	212	250	409	611	870	89	186	201	334	393	643	960	1364
	43	89	96	159	187	307	458	652	67	139	151	250	294	482	720	1025
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5
24'	50	104	113	187	220	360	538	766	79	163	177	294	345	566	845	1203
	38	78	84	140	165	270	403	574	59	122	133	220	259	425	634	902
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5
25'	44	92	100	165	194	319	476	677	70	144	156	260	306	501	748	1064
	33	69	75	124	146	239	357	508	52	108	117	195	229	376	561	798
	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5
26'	39	82	89	147	173	283	423	602	62	128	139	231	272	445	665	946
	30	61	66	110	130	212	317	452	46	96	104	173	204	334	498	710
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	1.5	1.5	1.5	1.5	1.5	1.5	3	3
27'	35	73	79	131	154	253	378	538	55	115	124	206	243	398	593	845
	26	55	59	98	116	190	283	403	41	86	93	155	182	298	445	634
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	1.5	1.5	1.5	1.5	1.5	1.5	3	3
28'	32	65	71	118	138	227	339	482	50	103	111	185	218	356	532	758
	24	49	53	88	104	170	254	362	37	77	84	139	163	267	399	568
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	1.5	1.5	1.5	1.5	1.5	1.5	3	3
29'	28	59	64	106	125	204	305	434	45	93	100	166	196	321	479	682
	21	44	48	79	93	153	229	325	33	69	75	125	147	241	359	511
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	1.5	1.5	1.5	1.5	1.5	1.5	3	3
30'	26	53	58	96	113	184	275	392	40	84	91	150	177	290	433	616
	19	40	43	72	84	138	206	294	30	63	68	113	133	217	324	462
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3
32'	21	44	47	79	93	152	227	323	33	69	75	124	146	239	356	508
	16	33	36	59	70	114	170	242	25	52	56	93	109	179	267	381
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3

*Allowable Roof Load data for 7" width 28F using a LDF=1.25 is available from Anthony Forest Products.

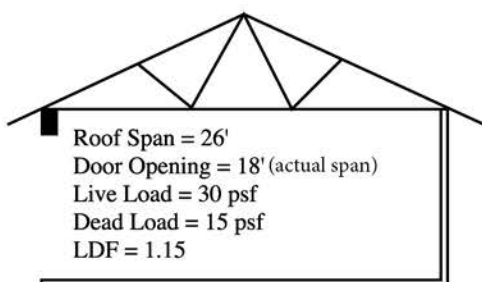
1. Values shown are the maximum uniform loads in pounds per lineal foot (PLF) that can be applied to the beam. Beam weight has been subtracted from the allowable load. Load tables are based on dry use conditions.
2. LDF = Load Duration Factor per code requirements.
3. Bearing length shown is required at each end of header, and is based on an allowable bearing stress of 805 psi. The beam must be sitting directly on top of 1 or more trimmers. A longer bearing length may be required depending on the material that the beam is bearing on. For example, if the beam is sitting on a SPF top plate, a longer bearing length will be required due to the lower compression perpendicular-to-grain design value for SPF.
4. The bearing lengths show the number of trimmers needed (e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.). This is based on the maximum PLF loads. Shorter bearing lengths may be used with lighter loads.
5. Tables are based on simple span conditions using the actual span as the center-to-center of bearing.
6. The beam is assumed to be loaded on the top edge and supported at bearing points.
7. For deflection limits of L/240 and L/480, multiply the Maximum Live Load figure (Row 2) by 1.5 and 0.75, respectively. For deflection limits of L/180 and L/360, multiply the Maximum Live Load figure (Row 2) by 1.333 and 0.667, respectively. The result shall not exceed the Total Load Figure (Row 1).
8. A 9-1/2" depth member may be substituted for a 9-1/4" member, and an 11-7/8" for an 11-1/4", etc.

Steps in Sizing Beams or Headers:

1. Determine the Total Load (live + dead) on the beam in PLF (pounds per lineal foot).
2. Determine the Live Load in PLF.
3. Find the actual span that is the same or greater than the span you have.
4. From the actual span row selected, find the PLF load that meets or exceeds the required PLF load for Total Load (Row 1) and Live Load (Row 2). The required bearing length is given in Row 3.
5. The beam size is found at the top of the column of the selected cell that meets all of your conditions.
6. If the beam selected is too deep or the bearing length too long, continue in the selected row to find another.

Examples Using Allowable PLF Tables

Allowable PLF Calculation for Roof Loads

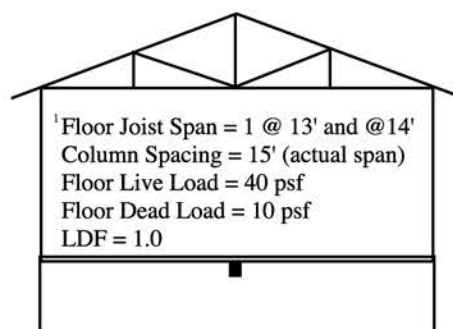


$$\text{Total Load} = (26/2 + 2') \times 45 \text{ psf} (30 + 15) = 675 \text{ plf}$$

$$\text{Live Load} = (26/2 + 2') \times 30 \text{ psf} = 450 \text{ plf}$$

Go to the allowable roof load table using LDF=1.15 and find the 18' actual span row. Using the top row, find a Total Load greater than 675 plf (3-1/2 x 14). Using the middle row, find a Live Load greater than 450 plf (3-1/2 x 14). You must select the larger of the two beams, or 3-1/2 x 14 with 4-1/2" (3 trimmers) of bearing. You could also use the 5-1/2 x 11-1/4 if you only had 3" (2 trimmers) of bearing.

Allowable PLF Calculation for Floor Loads



$$\text{Total Load} = (13/2 + 14/2) \times 50 \text{ psf} (40 + 10) = 675 \text{ plf}$$

$$\text{Live Load} = (13/2 + 14/2) \times 40 \text{ psf} = 540 \text{ plf}$$

Go to the allowable floor load table and find the 15' actual span. Using the top row, find a total load greater than 675 plf (3-1/2 x 14). Using the middle row, find a live load greater than 540 plf (3-1/2 x 14). You must select the larger of the two beams, or 3-1/2 x 14 and use 3.0" (2 trimmers) of bearing. You could also use the 5-1/2 x 11-1/4 if you only had 3" (2 trimmers) of bearing.

¹For continuous joist (not simple span), multiply 1.25 times live and dead loads to correct loading on Power Beam®.

Allowable Design Stresses (psi)

	Flexural Stress** F_b	Tension Parallel to Grain F_t	Compression Perpendicular to Grain F_{c1}	Horizontal Shear F_v	Modulus of Elasticity E
3-1/2" & 5-1/2"	3000	1350	805	300	2,100,000
7"	2800	1300	805	300	2,100,000
3-1/2" BEAM WIDTH					
Depth (in)	7 ^{1/4}	9 ^{1/4}	9 ^{1/2}	11 ^{1/4}	11 ^{7/8}
Weight* (lbs/ft)	7.0	9.0	9.2	10.9	11.6
C_{db} Factor (L=21')	1.00	1.00	1.00	1.00	1.00
I (in ⁴)	111	231	250	415	489
Moment Capacity (lbs-ft)	7665	12478	13161	18457	20582
Shear Capacity (lbs)	5075	6475	6650	7875	8316
5-1/2" BEAM WIDTH					
Depth (in)	7 ^{1/4}	9 ^{1/4}	9 ^{1/2}	11 ^{1/4}	11 ^{7/8}
Weight* (lbs/ft)	11.1	14.1	14.5	17.2	18.2
C_{db} Factor (L=21')	1.00	1.00	1.00	0.997	0.989
I (in ⁴)	175	363	393	653	768
Moment Capacity (lbs-ft)	12046	19608	20682	28916	32246
Shear Capacity (lbs)	7975	10175	10450	12375	13068
7" BEAM WIDTH					
Depth (in)	7 ^{1/4}	9 ^{1/4}	9 ^{1/2}	11 ^{1/4}	11 ^{7/8}
Weight* (lbs/ft)	14.1	18.0	18.5	21.9	23.1
C_{db} Factor (L=21')	1.00	0.997	0.996	0.988	0.985
I (in ⁴)	222	462	500	831	978
Moment Capacity (lbs-ft)	14309	23232	24472	34030	37845
Shear Capacity (lbs)	10150	12950	13300	15750	16632
7" BEAM WIDTH					
Depth (in)	19 ^{1/4}	20 ^{5/8}	22	23 ^{3/8}	24 ^{3/4}
Weight* (lbs/ft)	37.4	40.1	42.8	45.5	48.1
C_{db} Factor (L=21')	0.962	0.958	0.955	0.952	0.950
I (in ⁴)	4161	5118	6211	7450	8844
Moment Capacity (lbs-ft)	96996	110964	125845	141637	158338
Shear Capacity (lbs)	26950	28875	30800	32725	34650

* Beam Weights are based on 40 pcf.

** Flexural Stress, F_b , shall be modified by Volume Factor, C_v , as outlined in ICC ESR-1940, APA Product Report-L263 and APA-EWS Y 117 where;

$$C_v = K_L \times [(21/L)^{0.05} \times (12/d)^{0.05} \times (5.125/b)^{0.05}] \leq 1.0$$

where:

K_L = loading coefficient (1.0 for uniformly distributed),

L = length of bending member between points of zero moment, ft.,

d = depth of bending member, in.,

b = width of bending member, in.

Tabulated Moment Capacities are based on a span of 21 feet and modified for other spans. Width and depth portions of Volume Factor, C_v , are incorporated in tabulated Moment Capacities using C_{db} Factor.

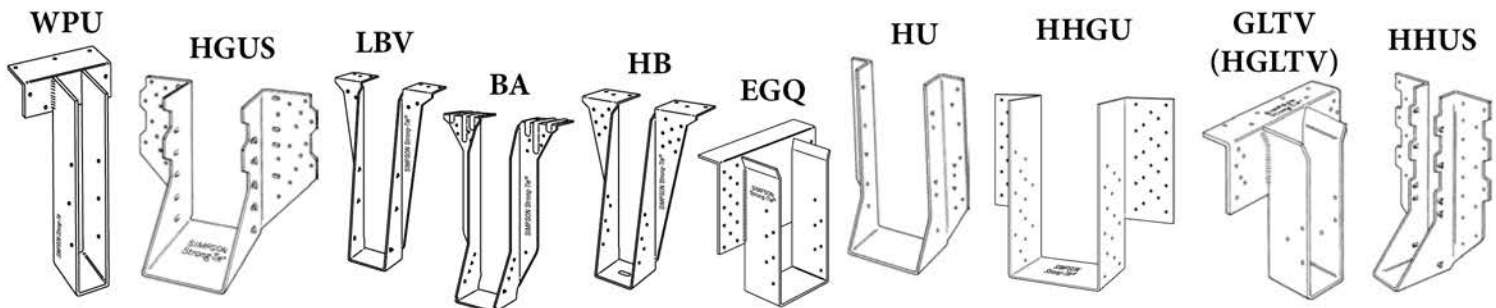
Note: Allowable design properties and load capacities are based on a load duration of 100 percent and dry use conditions.

Top Mount Hangers			
Supported Member Width	Supported Member Depth	Hanger	Maximum Load (lbs.)
3 - 1/2"	7 - 1/4"	WPU 3.56/7.25	4165
3 - 1/2"	9 - 1/4"	LBV3.56/9.25	2590
		HB3.56/9.25	5650
3 - 1/2"	9 - 1/2"	LBV3.56/9.5	2590
		HB3.56/9.5	5650
3 - 1/2"	11 - 1/4"	LBV3.56/11.25	2590
		HB3.56/11.25	5650
3 - 1/2"	11 - 7/8"	B3.56/11.88	3800
		HB3.56/11.88	5650
3 - 1/2"	14"	BA3.56/14	3800
		GLTV3.514	7200
3 - 1/2"	16"	BA3.56/16	3800
		GLTV3.516	7200
3 - 1/2"	18"	HB3.56/18	5650
		HGLTV3.518	8835
5 - 1/2"	7 - 1/4"	HB5.50/7.25	5650
5 - 1/2"	9 - 1/4"	HB5.50/9.25	5650
		GLTV5.50/9.25	7200
5 - 1/2"	9 - 1/2"	HB5.50/9.5	5650
		GLTV5.59	7200
5 - 1/2"	11 - 1/4"	HB5.50/11.25	5650
		GLTV5.50/11.25	7200
5 - 1/2"	11 - 7/8"	HB5.50/11.88	5650
		HGLTV5.511	8835
5 - 1/2"	14"	HB5.50/14	5650
		EGQ5.50-SDS3'	19800
5 - 1/2"	16"	HB5.50/16	5650
		EGQ5.50-SDS3'	19800
5 - 1/2"	18"	HGLTV5.518	8835
		EGQ5.50-SDS3'	19800
7"	9 - 1/4"	HB7.12/9.25	5650
		GLTV49.25-2	7200
7"	9 - 1/2"	HB7.12/9.5	5650
		GLTV49.5/2	7200
7"	11 - 1/4"	HB7.12/11.25	5650
		HGLTV411.25-2	8835
7"	11 - 7/8"	HB7.12/11.88	5650
		EGQ7.25-SDS3'	19800
7"	14"	GLTV414-2	7200
		EGQ7.25-SDS3'	19800
7"	16"	HGLTV416-2	8835
		EGQ7.25-SDS3'	19800
7"	18"	HGLTV418-2	8835
		EGQ7.25-SDS3'	19800

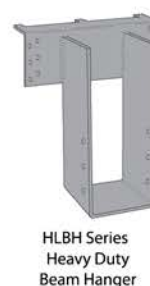
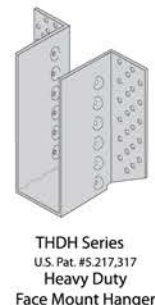
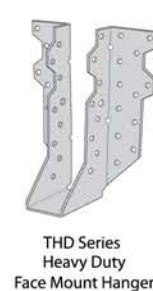
Face Mount Hangers			
Supported Member Width	Supported Member Depth	Hanger	Maximum Load (lbs.)
3 - 1/2"	7 - 1/4"	HHUS48	4210
3 - 1/2"	9 - 1/4" - 9 - 1/2"	HHUS410	5635
		HGUS410	9100
3 - 1/2"	11 - 1/4" - 11 - 7/8"	HHUS410	5635
		HGUS410	9100
3 - 1/2"	14" - 18"	HHUS410	5635
		HGUS414	10100
5 - 1/2"	7 - 1/4"	HGUS5.50/8	7460
5 - 1/2"	9 - 1/4" - 9 - 1/2"	HHUS5.50/10	5635
		HGUS5.50/10	9100
5 - 1/2"	11 - 1/4" - 11 - 7/8"	HHUS5.50/10	5635
		HGUS5.50/12	9600
5 - 1/2"	14"	HHUS5.50/10	5635
		HGUS5.50/14	10100
5 - 1/2"	16" - 18"	HGUS5.50/14	10015
		HGUS5.50-SDS	14145
7"	9 - 1/4" - 9 - 1/2"	HHUS7.25/10	5635
		HGUS7.25/10	9100
7"	11 - 1/4" - 11 - 7/8"	HHUS7.25/10	5635
		HGUS7.25/12	9600
7"	14"	HGUS7.25/14	10100
		HGU7.25/SDS	14145
7"	16" - 18"	HGUS7.25/14	10100
		HHGU7.25/SDS	17845

Notes:

1. Maximum loads shown are based on 3 - 1/2" minimum Power Beam Header for floor loads at 100% duration. Consult Simpson's Wood Construction Connectors catalog for allowable increases when other load durations apply and for installation information. Hangers only achieve maximum load capacity when all nail holes are filled with the proper size nails and the minimum nail penetration. Full bearing is required at hanger seat. Hanger values listed are for dry service conditions only.
2. Top flange hanger configuration and thickness of top flange need to be considered for flush frame conditions.
3. When ordering EGQ, HGU, or HHGU specify height.



Top Mount Hangers ¹					
Joist Size	USP Stock No.	Fastener Schedule ^{2,3,4}		Allowable Loads (Lbs)	
		Header	Joist	100%	Uplift ⁵ 160%
3-1/2 x 7-1/4	HDO48	(12) 16d	(4) 10d	3825	815
3-1/2 x 9-1/4	PHXU35925	(8) 16d	(6) 10d	6650	1290
	HLBH35925	(15) NA16D-RS	(6) 16d	10620	1420
3-1/2 x 9-1/2	PHXU3595	(8) 16d	(6) 10d	6650	1290
	HLBH3595	(15) NA16D-RS	(6) 16d	10620	1420
3-1/2 x 11-1/4	PHXU35112	(8) 16d	(6) 10d	6650	1290
	HLBH35112	(15) NA16D-RS	(6) 16d	10620	1420
3-1/2 x 11-7/8	PHXU35118	(8) 16d	(6) 10d	6650	1290
	HLBH35118	(15) NA16D-RS	(6) 16d	10620	1420
3-1/2 x 14	PHXU3514	(8) 16d	(6) 10d	6650	1290
	HLBH3514	(15) NA16D-RS	(6) 16d	10620	1420
3-1/2 x 16	PHXU3516	(8) 16d	(6) 10d	6650	1290
	HLBH3516	(15) NA16D-RS	(6) 16d	10620	1420
3-1/2 x 18	PHXU3518	(8) 16d	(6) 10d	6650	1290
	HLBH3518	(15) NA16D-RS	(6) 16d	10620	1420
5-1/2 x 7-1/4	HDO68	(12) 16d	(4) 16d	3825	955
5-1/2 x 9-1/4	PHXU55925	(8) 16d	(6) 10d	6650	1290
	HLBH55925	(15) NA16D-RS	(6) 16d	10620	1605
5-1/2 x 9-1/2	PHXU5595	(8) 16d	(6) 10d	6650	1290
	HLBH5595	(15) NA16D-RS	(6) 16d	10620	1605
5-1/2 x 11-1/4	PHXU55112	(8) 16d	(6) 10d	6650	1290
	HLBH55112	(15) NA16D-RS	(6) 16d	10620	1605
5-1/2 x 11-7/8	PHXU55118	(8) 16d	(6) 10d	6650	1290
	HLBH55118	(15) NA16D-RS	(6) 16d	10620	1605
5-1/2 x 14	PHXU5514	(8) 16d	(6) 10d	6650	1290
	HLBH5514	(15) NA16D-RS	(6) 16d	10620	1605
5-1/2 x 16	PHXU5516	(8) 16d	(6) 10d	6650	1290
	HLBH5516	(15) NA16D-RS	(6) 16d	10620	1605
5-1/2 x 18	PHXU5518	(8) 16d	(6) 10d	6650	1290
	HLBH5518	(15) NA16D-RS	(6) 16d	10620	1605
7 x 9-1/4	PHXU71925	(8) 16d	(6) 10d	6650	1290
	HLBH71925	(15) NA16D-RS	(6) 16d	10620	1605
7 x 9-1/2	PHXU7195	(8) 16d	(6) 10d	6650	1290
	HLBH7195	(15) NA16D-RS	(6) 16d	10620	1605
7 x 11-1/4	PHXU71112	(8) 16d	(6) 10d	6650	1290
	HLBH71112	(15) NA16D-RS	(6) 16d	10620	1605
7 x 11-7/8	PHXU71118	(8) 16d	(6) 10d	6650	1290
	HLBH71118	(15) NA16D-RS	(6) 16d	10620	1605
7 x 14	PHXU7114	(8) 16d	(6) 10d	6650	1290
	HLBH7114	(15) NA16D-RS	(6) 16d	10620	1605
7 x 16	PHXU7116	(8) 16d	(6) 10d	6650	1290
	HLBH7116	(15) NA16D-RS	(6) 16d	10620	1605
7 x 18	PHXU7118	(8) 16d	(6) 10d	6650	1290
	HLBH7118	(15) NA16D-RS	(6) 16d	10620	1605



Notes for Top Mount Hangers:

1. Top flange hanger configuration and thickness of top flange need to be considered for flush frame conditions.
2. 10d nails are 0.148" diameter by 3" long and 16d nails are 0.162" diameter by 3-1/2" long.
3. Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
4. NA16D-RS nails are 0.148" diameter by 3-1/2" long, hardened ring shank nails.
5. Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

Face Mount Hangers						
Joist Size	USP Stock No.	Fastener Schedule ^{1,2}		Allowable Loads (Lbs.)		
		Header	Joist	100%	125%	Uplift ³ 160%
3-1/2 x 7-1/4	THD48	(28) 16d	(16) 10d	3950	4935	2595
	THDH48	(36) 16d	(10) 16d	6535	7835	3185
3-1/2 x 9-1/4 - 9-1/2	THD410	(38) 16d	(20) 10d	5360	6700	3810
	THDH410	(46) 16d	(12) 16d	8260	9010	3970
3-1/2 x 11-1/4 - 11-7/8	THD412	(48) 16d	(20) 10d	6770	7045	3810
	THDH412	(56) 16d	(14) 16d	9845	9845	5225
3-1/2 x 14 - 18	THD414	(58) 16d	(20) 10d	7045	7045	3810
	THDH414	(66) 16d	(16) 16d	9845	9845	6810
5-1/2 x 7-1/4	HD68	(14) 16d	(6) 10d	1975	2470	1140
5-1/2 x 9-1/4 - 9-1/2	THD610	(38) 16d	(20) 10d	5660	7080	3410
	THDH610	(46) 16d	(16) 16d	8725	9855	4565
5-1/2 x 11-1/4 - 11-7/8	THD612	(48) 16d	(20) 10d	7150	8415	4065
	THDH612	(56) 16d	(20) 16d	9935	9935	5180
5-1/2 x 14 - 18	THD614	(58) 16d	(20) 10d	8415	8415	4065
	THDH614	(66) 16d	(22) 16d	11645	11645	5795
7 x 9-1/4 - 9-1/2	THD7210	(38) 16d	(20) 10d	5660	7080	3410
	THDH7210	(46) 16d	(12) 16d	8260	9010	3970
7 x 11-1/4 - 11-7/8	THDH7212	(56) 16d	(14) 16d	9845	9845	5225
7 x 14 - 18	THDH7214	(66) 16d	(16) 16d	9845	9845	6810

Notes for Face Mount Hangers:

1. 10d nails are 0.148" diameter by 3" long and 16d nails are 0.162" diameter by 3-1/2" long.
2. Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.
3. Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

Connections for Two-Piece 3 1/2" Wide Anthony Power Beams

For Top-Loaded Applications

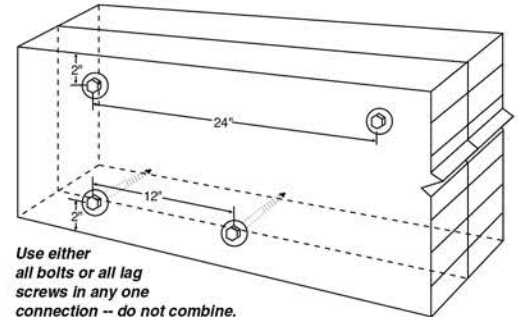
Minimum Connection Required:

Two rows of 1/2" Diameter Lag Screws⁽³⁾ or Bolts⁽⁴⁾ at 24" on center staggered.

For Side-Loaded Applications

Maximum Uniform Load Applied to Either Side:

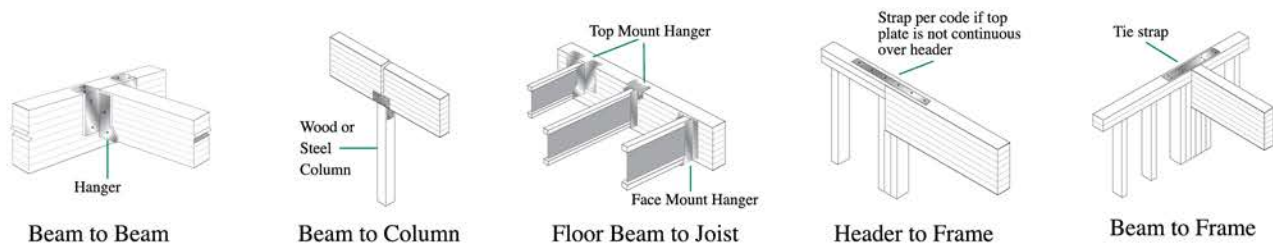
Two Rows Spaced At:	24" o.c.	12" o.c.
Lag Screws ⁽³⁾	500 plf	1000 plf
Bolts ⁽⁴⁾	920 plf	1840 plf



Notes:

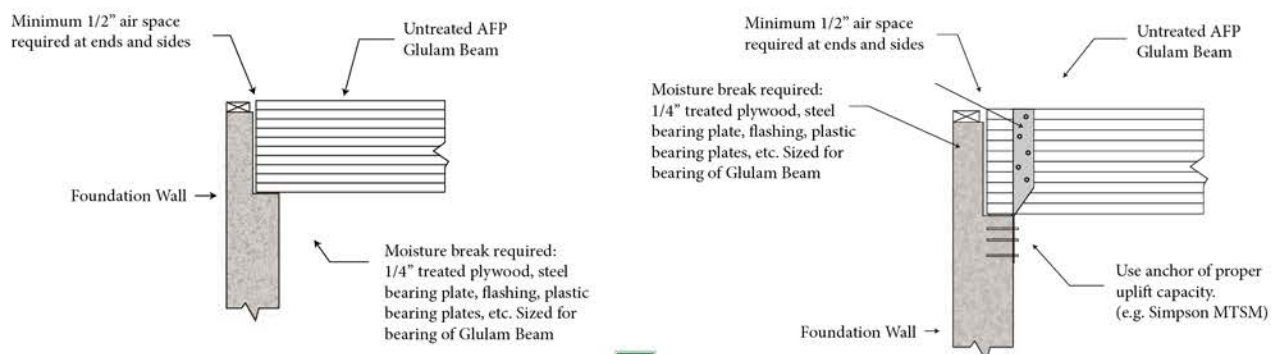
1. Verify adequacy of beam in uniform load tables.
2. Values listed are for 100% load duration. An increase of 15% for snow load roof applications or 25% for non-snow roof conditions is allowed where permitted by the building code.
3. Lag screws are to be 1/2" diameter x 7" of material conforming to ASTM Standard A307 with a minimum bending yield strength of 45,000 psi. A 3/8" lead hole is required for each lag screw. Turn lag screws tight with a wrench to achieve full penetration. Do not hammer. A standard cut washer is required between the wood and screw head.
4. Bolts are to be of 1/2" diameter material conforming to ASTM Standard A307 with a minimum bending yield strength of 45,000 psi. Bolt holes are to be the same diameter as the bolt, and located 2" from the top and bottom of the member. A standard cut washer is required between the wood and bolt head and between the wood and nut.
5. Beams loaded from only one side must be restrained to minimize rotation.

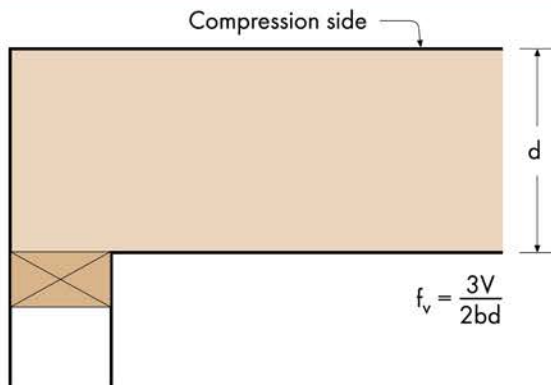
TYPICAL CONNECTIONS



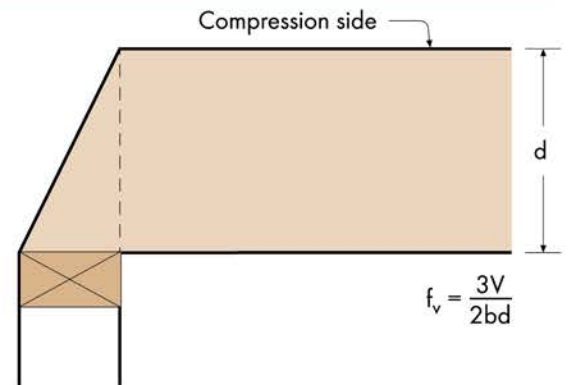
FOUNDATION BEAM POCKET DETAIL

When Uplift resistance is required by local building jurisdiction

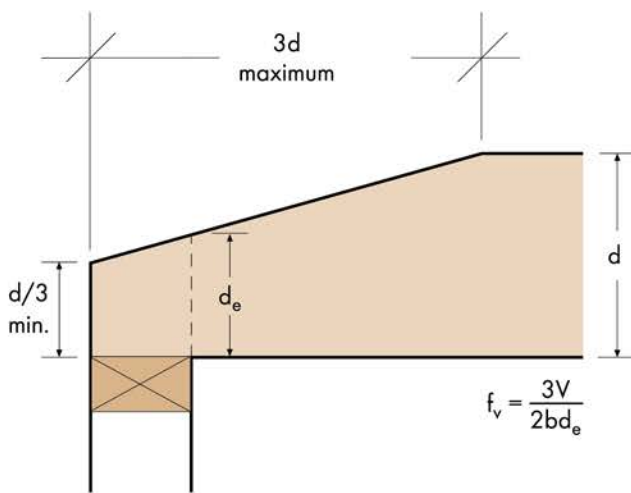




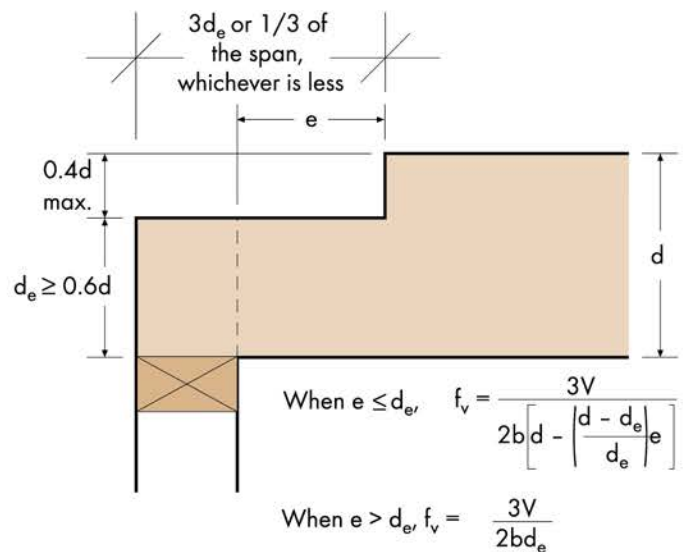
(a) Square End Bearing



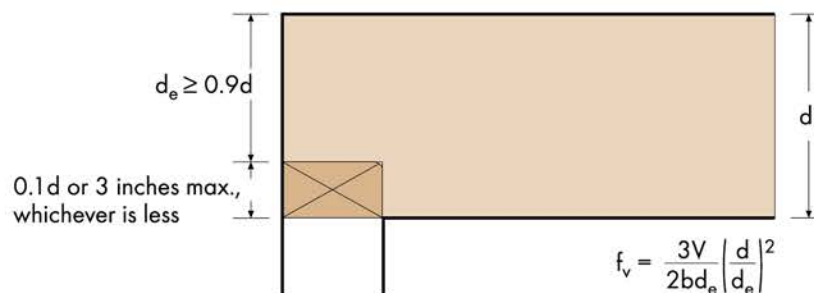
(b) Slope End Bearing



(c) Sloped End Cut for Roof Drainage



(d) Compression-side Notch



(e) Tension-side Notch

f_v = shear stress (psi) V = shear force at notch location (lb) b = width of beam (in.)
 d = depth of beam (in.) d_e = effective depth as shown (in.) e = length of notch as shown (in.)

VERTICAL HOLES

Whenever possible, avoid drilling vertical holes through glulam beams. As a rule of thumb, vertical holes drilled through the depth of a glulam beam will cause a reduction in the capacity at the location directly proportional to the ratio of 1-1/2 times the diameter of the hole to the width of the beam. For example a one inch drilled hole in a 6-inch-wide beam would reduce the capacity of the beam at that section by approximately $\frac{(1 \times 1\text{-}1/2)}{6} = 25\%$

For this reason, when it is necessary to drill vertical holes through a glulam member, the holes should be positioned in areas of the member that are stressed to less than 50 percent of design in bending. In a simply supported, uniformly loaded beam, this area would be located from the end of the beam inward approximately 1/8 of the beam span. In all cases, the minimum clear edge distance, as measured from either side of the member to the nearest edge of the vertical hole, should be 2-1/2 times the hole diameter. Use a drill guide to minimize “wandering” of the bit as it passes through knots or material of varying density, and to insure a true alignment of the hole through the depth of the beam.

HORIZONTAL HOLES

Like notches, holes in a glulam beam remove wood fiber, thus reducing the net area of the beam at the hole location and introducing stress concentrations. These effects cause a reduction in the capacity of the beam in the area of the penetration. For this reason, horizontal holes in glued laminated timbers are limited in size and location to maintain the structural integrity of the beam. Figure 1 shows the zones of a uniformly loaded, simply supported beam where the field drilling of holes may be considered. These non-critical zones are located in portions of the beam stressed to less than 50 percent of design bending stress and less than 50 percent of design shear stress. For beams of more complex loading or other than simple spans, similar diagrams may be developed.

ZONES WHERE SMALL HORIZONTAL HOLES ARE PERMITTED IN A UNIFORMLY LOADED, SIMPLY SUPPORTED BEAM

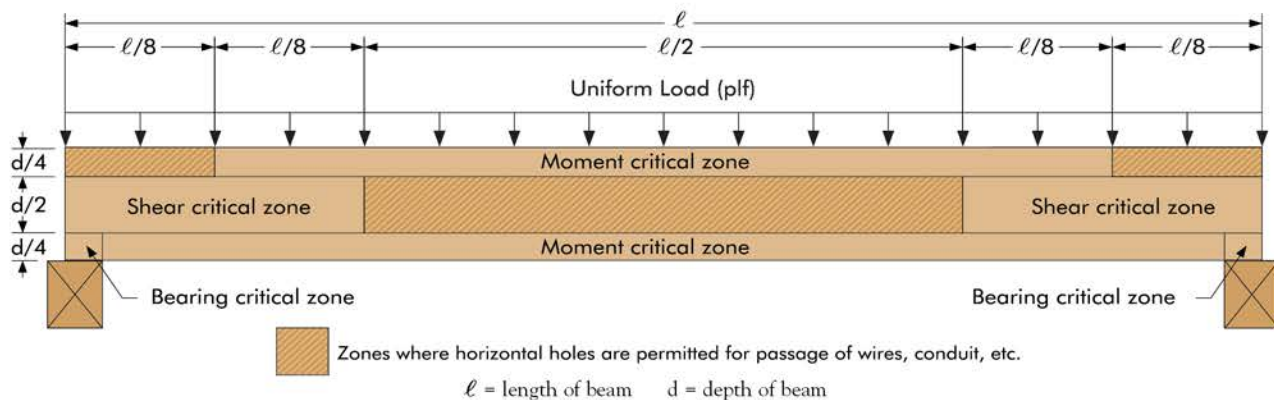
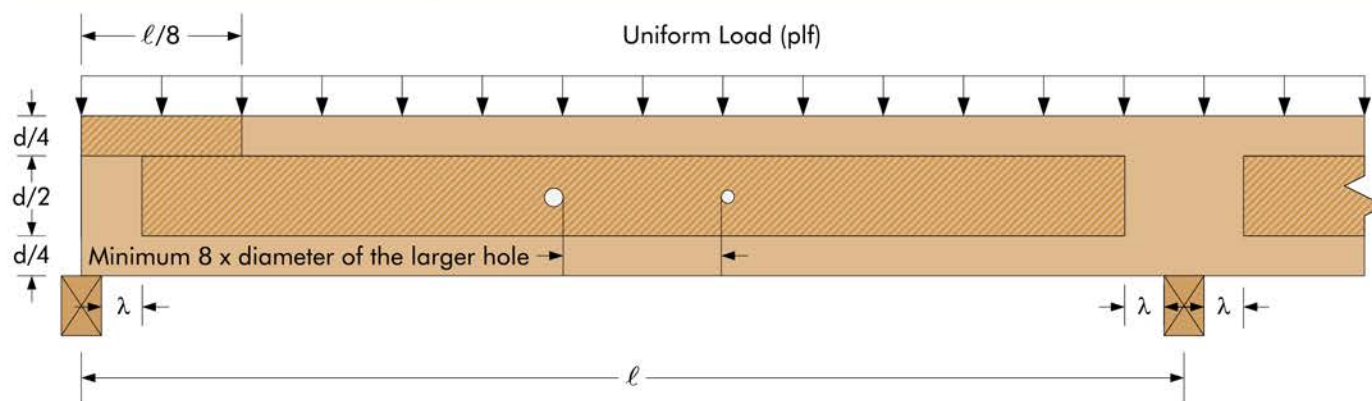


Figure 1

Field-drilled holes should be used for access only and should not be used as attachment points for brackets or other load bearing hardware unless specifically designed as such by the engineer or designer. Examples of access holes include those used for the passage wires, electrical conduit, small diameter sprinkler pipes, fiber optic cables, and other small, lightweight materials. These field drilled horizontal holes should meet the following guidelines:

- Hole size:** The hole diameter should not exceed 1-1/2 inches or 1/10 the beam depth, whichever is smallest, with the exception of 1-inch-diameter or smaller holes as noted in Item 2 below.
- Hole location:** The hole should have a minimum clear distance, as measured from the edge of the hole to the nearest of the beam, of 4 hole diameters to the top or bottom face of the beam and 8 hole diameters from the end of the beam. Note that the horizontal hole should not be drilled in the moment-critical zone, as defined in the figure above, unless approved by an engineer or architect qualified in engineered timber design.

ZONES WHERE 1-INCH OR SMALLER DIAMETER HORIZONTAL HOLES ARE PERMITTED IN A UNIFORMLY LOADED SIMPLE OR MULTIPLE-SPAN BEAM ($d \geq 7\text{-}1/4$ INCHES)



 Zones where 1-inch or smaller diameter horizontal holes are permitted for passage of wire, conduit, etc.
 a) the maximum number of holes for each span shall not exceed 1 hole per 5 feet and b) the hole must not be cut in cantilevers.
 $\lambda = 6$ inches minimum when $\ell/d \geq 10$, or $\ell/6$ minimum when $\ell/d < 10$.

Figure 2

A 1-inch diameter or smaller hole may be cut at the middle half of the beam depth anywhere along the span, except for the area that is within 6 inches of clear distance between the face of the support and the nearest edge of the hole, providing the following conditions are met:

- the beam is at least 7-1/4 inches in depth,
- the beam is subject to uniform loads only,
- the span-to-depth ratio (ℓ/d) is at least 10,
- the hole spacing and maximum number of holes must meet the requirements specified in Items 1 and 2 below, and
- the hole must not be cut in cantilevers.

If the depth-to-span ratio of the beam is less than 10, the 1-inch diameter of smaller hole may be cut in accordance with the provisions listed above except that the location of the hole must maintain a clear distance between the face of the support and the nearest edge of the hole of at least 1/6 of the span.

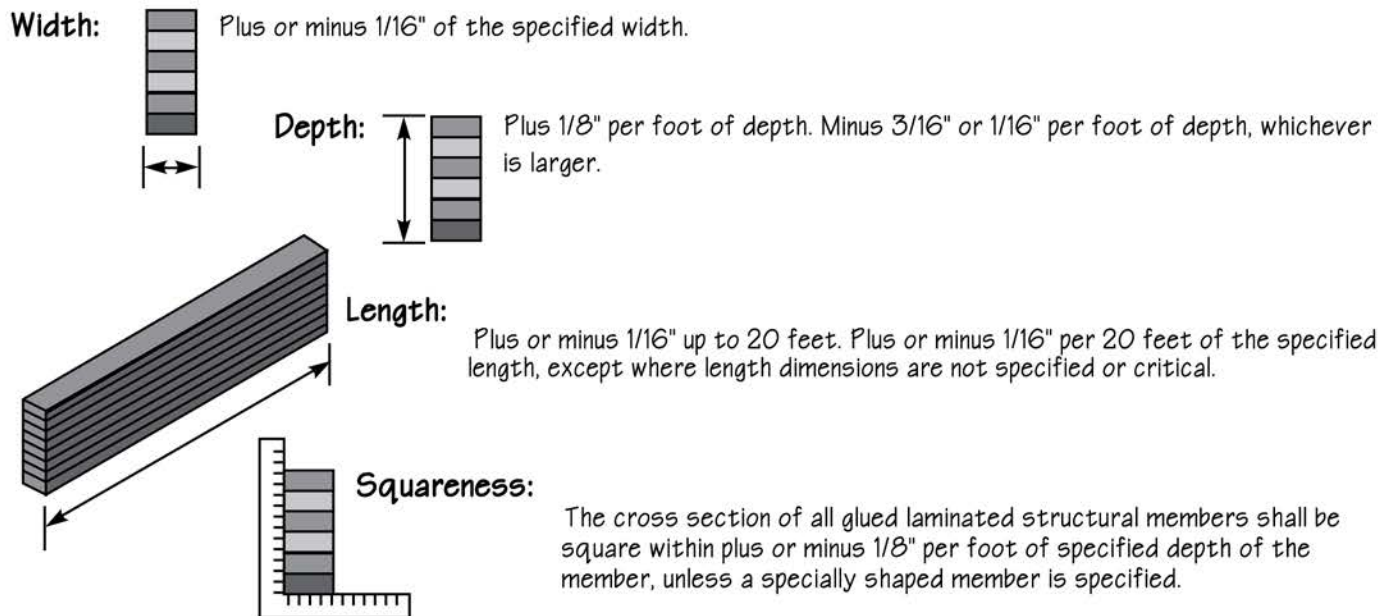
- Hole Spacing:** The minimum clear spacing between adjacent holes, as measured between the nearest edge of the holes, should be 8 hole diameters based on the largest diameter of any adjacent hole in the beam.
- Number of holes:** The maximum number of holes should not exceed 1 hole per 5 feet of beam length. In other words, the maximum number of holes should not exceed 4 for a 20-foot-long beam. The hole spacing limitation, as given above, should be satisfied separately.

For glulam members that have been oversized, the guidelines given above may be relaxed based on an engineering analysis.

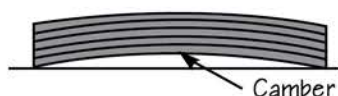
Regardless of the hole location, holes drilled horizontally through a member should be positioned and sized with the understanding that the beam will deflect over a period of time under in-service loading conditions. This deflection could cause distress to supported equipment or piping unless properly considered.

Beam depth, d (in.)	Span when $\ell/d = 10$
7-1/4	6'-1"
7-1/2	6'-3"
8-1/4	6'-11"
9	7'-6"
9-1/4	7'-9"
9-1/2	7'-11"
9-5/8	8'-1"
10-1/2	8'-9"
11	9'-2"
11-1/4	9'-5"
11-7/8	9'-11"
12	10'-0"
12-3/8	10'-4"
13-1/2	11'-3"
14	11'-8"
15	12'-6"
15-1/8	12'-8"
16	13'-4"
16-1/2	13'-9"
17-7/8	14'-11"
18	15'-0"
19-1/4	16'-1"
19-1/2	16'-3"
20	16'-8"
20-5/8	17'-3"
21	17'-6"
22	18'-4"
22-1/2	18'-9"
23-3/8	19'-6"
24	20'-0"

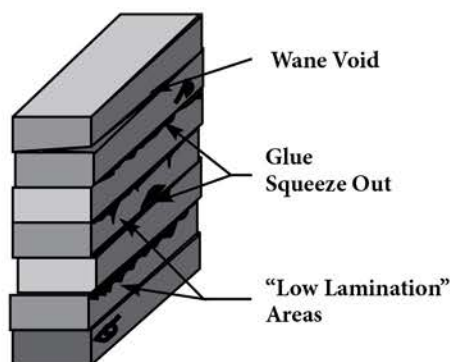
All Allowable Tolerances shown below are at time of manufacture per ANSI A190.1.



Camber:

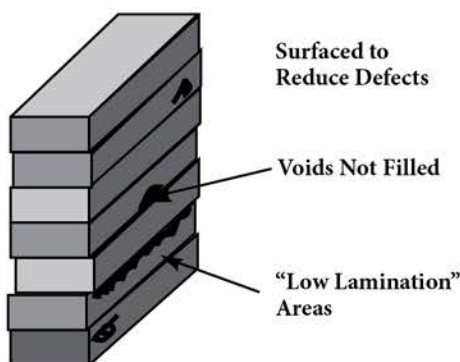


The tolerances are applicable at the time of manufacture without allowance for dead load deflection. Plus or minus 1/4" up to 20 feet. Over 20 feet increase tolerance 1/8" per each additional 20 feet not to exceed 3/4".



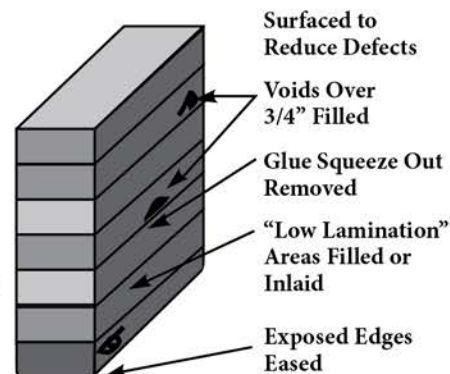
Framing Appearance

- Laminations may possess the natural growth characteristics of the lumber grade.
- No voids or low laminations are filled.
- Members have a "Hit and Miss" (more miss) appearance.
- Glue smear is allowed.
- Most common widths 3 1/2" and 5 1/2".



Industrial Appearance

- Laminations may possess the natural growth characteristics of the lumber grade.
- No voids or low laminations are filled.
- Members are surfaced in accordance with APA industrial finish standards.



Architectural Appearance

- Laminations may possess the natural growth characteristics of the lumber grade.
- Voids larger than 3/4" are filled with putty.
- Exposed faces are surfaced and low laminations are repaired.
- Exposed edges are eased.



Power Beams should be stored and handled in accordance with the following guidelines to maximize performance and minimize necessary field adjustments:

TIPS

Power Beams should be stored on edge and not wide face.



- *Protect the glulam products from direct exposure to weather conditions (i.e. sun, wind, rain, snow) by storing under cover or by leaving the paper wrap intact until they are installed in place.*
- *Store on stickers or racks above ground moisture and in orderly stacks at heights that may be handled safely.*
- *Use care in moving and storing with forklifts to prevent damage with forks.*
- *To minimize checking, seal ends of beams after trimming or cutting.*
- *Do not install damaged glulam. Notify Anthony Forest Products or your local distributor for assistance.*
- *Once beams are installed, remove protective wrap, allow them to gradually season and adjust to the temperature and moisture conditions of the structure.*
- *Do not directly expose glulam members to rapid changes in moisture and temperature, typical of temporary heating units. Such exposure may result in excessive surface checking.*

In the field, glulam is subject to humidity and moisture that can affect critical size tolerance and appearance. To maintain the dimensional stability and minimize checking of Power Beams, each beam is surface sealed with a special protective wax emulsion coating for wood.

Our sealers are environmentally friendly, water-based products that help stabilize the moisture content of wood. Not only does the sealer protect the glulams from environmental moisture, but it allows the glulam to adjust to the environment slowly.

What is a Power Beam®?

Power Beam® is a high strength glulam produced to compete with LVL and Parallam®.

What is the warranty on Power Beam®?

Anthony Forest Products Company warrants that its Power Beam® will be free from defect in design, materials and workmanship. When installed and finished according to installation instructions and accepted engineering standards, our Power Products will perform in accordance with our current published specification for the lifetime of your home or building.

How is it manufactured?

Power Beam® is manufactured using machine evaluated Southern Pine lumber in accordance with product standard ANSI A190.1-2007 and ASTM D-3737. Materials are manufactured using wet use adhesives and are certified under APA-EWS quality control and assurance program. Standard 28F and 30F Power Beam® are manufactured using balanced layups. These layups, designated as 28F-E2 and 30F-E2, are symmetric in their makeup, therefore no top or bottom orientation is required. An unbalanced layup for Power Beam® is available. The unbalanced Power Beam®, designated as 28F-E1 and 30F-E1, has an asymmetrical layup with stronger laminations in the tension zone than the compression zone. For this reason, unbalanced beams are marked with top stamps and should be installed with the compression face upward.

Is Power Beam® cambered like most glulams?

Camber is often manufactured into glulams to offset the long term deflection due to gravity loads thus reducing the adverse aesthetic effect of in-service deflections. The use of camber is advantageous for long span members supporting large design loads. Typical residential and light commercial beam and header applications do not require camber. In fact, camber manufactured into members used in these applications may never relax resulting in a permanent curvature. For this reason, standard 28F-E2 and 30F-E2 Power Beam® is manufactured with zero camber for use in simple, continuous, and cantilevered span applications. Cambered Power Beam® can, however, be produced on special order.

Does it look like a typical glulam?

Power Beam® is a framing appearance grade glulam and is not intended for architectural applications. Power Beam® is side stamped with Anthony Forest Products trademarks and APA-EWS quality marks.

How is Power Beam® packaged?

Power Beam® comes surface sealed, individually wrapped in water resistant paper or bundle wrapped.

What about storage?

As with any wood product, a well-drained covered storage site is preferred and recommended. Materials should be kept off of the ground using blocking, skids, or rack systems. For long term storage, slits should be cut in the bottom of the wrapping to allow ventilation and drainage of any entrapped moisture. Proper storage with adequate ventilation and drainage will reduce the likelihood of staining, or other affects from water infiltration such as cupping and dimensional changes.

Can you notch or drill holes in Power Beam®?

Since glulams are highly engineered components manufactured from specifically selected and positioned lumber laminations, an improperly cut notch or hole drilled in the wrong location can significantly affect the member's structural performance. For this reason, field modifications such as notching, cutting, or drilling should be minimized and never done without a thorough understanding of the effects on the member's structural integrity. For further information on field modifications see pages 19, 20 and 21 or contact Anthony Forest Products Company.



Engineered Timbers

...offer versatility, economy, strength and durability

3000F

Versatility

Anthony glued laminated timber has a proven track record of reliability for a variety of structural applications. Exposed beams offer a dramatic design element, yet provide an unusual sense of softness, natural charm, and inviting warmth.

At the same time, engineered timber construction provides an exceptionally high level of safety, durability and cost efficiency. Kiln-dried Anthony Glulam offers a strong, workable long span performance capability unmatched by any other building material.

Cost Effective/Energy Efficient

Anthony Glulam is surprisingly economical as compared to the higher cost composites or steel. The Glulam has a high strength to weight ratio and is sized to fit all system-type framing applications. One piece construction reduces building time and cost, and the Glulam can be trimmed to fit on the job site.

The energy efficiency of engineered timber can provide additional savings to the property owner. The natural thermal and

insulating qualities of laminated wood can be combined with thermally efficient insulation materials to keep heat loss at a minimum.

Strong, Durable, Fire Safe and Stable

Throughout history, wood has been a durable building material, assuming proper principles of design, construction and maintenance are followed. The Anthony Glulam provides an even higher degree of proven quality manufacturing.

Both the 2400F and 3000F Power Products exhibit property characteristics superior to solid sawn wood. Extra precautions are taken to ensure all laminations are kiln-dried to a maximum 15% moisture content. The end product results in a beam member with an exceptional level of dimensional stability, virtually eliminating checking, twisting, warping and shrinkage.

Glulam, like large timbers, also has excellent natural fire resistant qualities. Although considered a combustible material, glulam beams and columns may be designed for projects requiring a one-hour fire

resistance without the application of fire retardant chemicals which is not recommended for glulams. Please refer to APA EWS Y245B report "Calculating Fire Resistance of Glulam Beams and Columns" for more information. Typically an extra tension lamination is required. A design professional is required to ensure compliance with all local building codes.

Readily Available

The Anthony Glulam is readily available through a network of stocking distributors throughout the country. Glulams are offered in specified lengths up to 60' in framing, industrial, architectural and premium grades. All beams are either bundled or individually wrapped with water-resistant paper. Beams are squared-end trimmed and manufactured with a standard 2000' radius camber or no-camber.

Computer Software

Anthony Forest Products offers a Windows® friendly sizing software for fast and accurate sizing of most beam applications.



POWER PRODUCTS[®] FAMILY

Power Beam[®]

Power Joist[®]

Power Rated Glulam (PRG[®])

Power Column[®]

Power Preserved Glulam[®]

Stock 24F Glulam

SYP Lumber



Tomorrow's Engineered Wood - TodaySM



Power Beam[®]



Power Joist[®]



Treated Glulam



Power Log[®]



SYP Lumber



ANTHONY®
ANTHONY FOREST PRODUCTS CO.



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309 N. Washington ▲ El Dorado, AR 71730 ▲ 800-221-2326 ▲ www.anthonyforest.com

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