



# TIMBER TECHNOLOGIES LLC

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## Treated Glulam Beam Sizing Worksheet Fax to: 715-962-4193

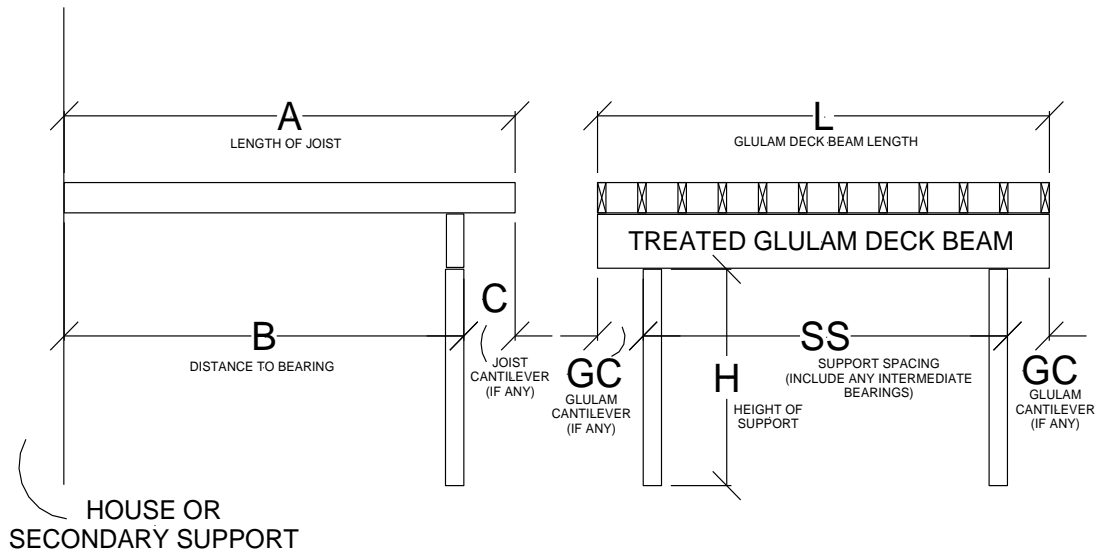
Company: \_\_\_\_\_ Phone: \_\_\_\_\_

Contact: \_\_\_\_\_ Fax: \_\_\_\_\_

Project: \_\_\_\_\_ e-mail: \_\_\_\_\_

Live Load: \_\_\_\_\_ Dead Load: \_\_\_\_\_ Total Load: \_\_\_\_\_

Please write in appropriate measurements in drawings below.



### Beam Design Values

Design Values in psi from NDS Tables 5A

Members	Species and Commercial Grade	Bending about X-X axis $F_b$	Compression Perp. to Grain $F_c$	Modulus of Elasticity $E$	Shear Parallel to Grain $F_v$
2x6/2x8	SYP 20F-1.5E	2000	740	1,600,000	300

Treated Beam members are treated to .60 CCA per AWPA Comodity Standards, Structural Glued-Laminated Members (C28)

*\*Higher strength lumber may be substituted to fit design requirements\**

#### Notes:

1. Wet Service Factor,  $C_M$

When structural glued laminated timber is used where moisture content will be 16% or greater, design values shall be multiplied by the appropriate wet service factors.

$F_b = .80$ ,  $F_c = .53$ ,  $E = .83$ ,  $F_v = .875$

2. Specific Gravity for Fastener Design = .55

3. Notations:

- NDS – National Design Specification for Wood Construction, 2005 Edition. This is an ANSI standard adopted as part of most building codes, including the International Building Code.
- SYP = Southern Yellow Pine

4. Other adjustments and design considerations may apply to the beam, depending on the application. A competent design professional should verify the accuracy, suitability, and applicability of the column design considerations before using the beam design values for any general or specific application.

For technical assistance or member sizing call 715-962-4242 or fax 715-962-4193.