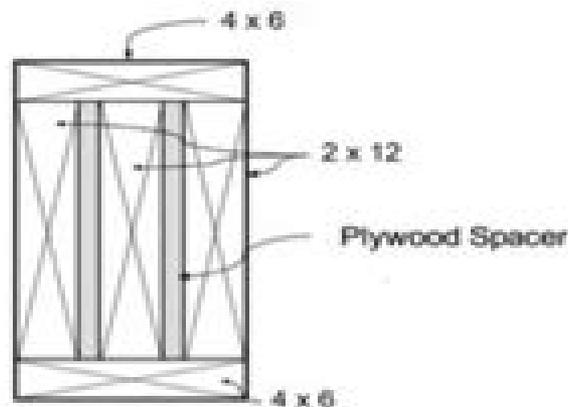


# Homework Assignment 1

## Statics and Strength of Materials

### Problem Statement

Find the required properties for the composite wood beam shown below.

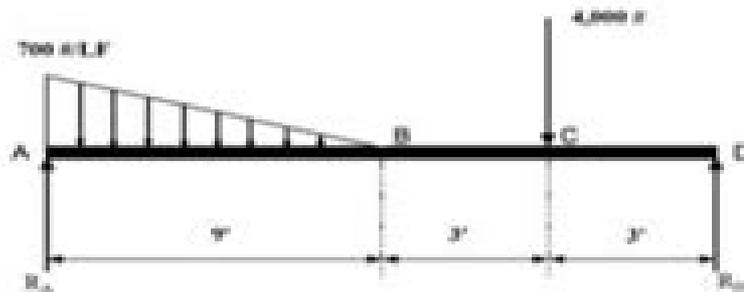


1. Cross-sectional area,  $A$
2.  $I_x$ ,  $S_x$ , and  $r_x$
3.  $I_y$ , and  $r_y$

Hint 1: use the Souder book Appendix 6 for the standard dressed size of wood components.

Hint 2: Consider this cross-section as a whole to calculate the required properties (it is rectangular, don't overthink).

Refer to the sketch of the simply supported beam shown below to compute the required information:



4. Compute the resultant load ( $P_r$ ) of the 700 #/LF and the 4,000 #
5. Distance from A to the resultant load
6. Reactions  $R_A$  and  $R_D$
7. Maximum moment,  $M_{max}$
8. Maximum shear,  $V_{max}$

All work shall be shown neatly and professionally prepared (handwritten or in text editing software) and uploaded to Canvas as a single PDF file.

# Statics And Strength Of Structures

**M Walker**

A decorative graphic element consisting of a horizontal light blue bar with a rounded right end, overlaid on a red-to-white gradient semi-circle.

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