

From the Mohr's circle shown:

$$\begin{aligned} [I_U = C + R \cos 2\theta] \quad I_U &= 3.985 + 2.599 \cos 51.7368^\circ \\ I_U &= 5.594 \times 10^6 \text{ mm}^4 \\ [I_V = C - R \cos 2\theta] \quad I_V &= 3.985 - 2.599 \cos 51.7368^\circ \\ I_V &= 2.375 \times 10^6 \text{ mm}^4 \end{aligned}$$

**Problem 1-12**

The composite section shown in Figure 1-17 is made up of C 15 × 50 and W 21 × 83. Determine the properties of the composite section.

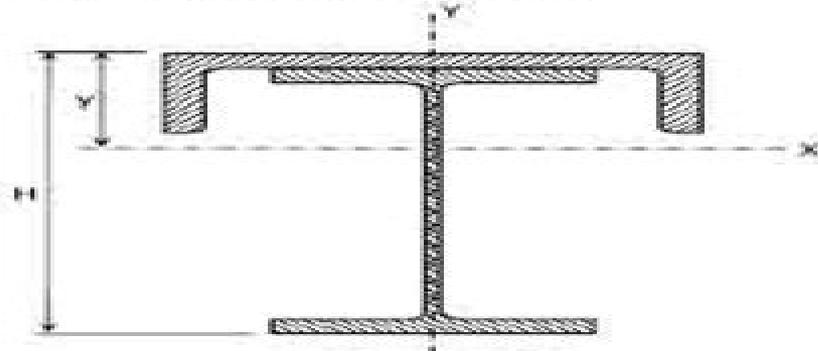
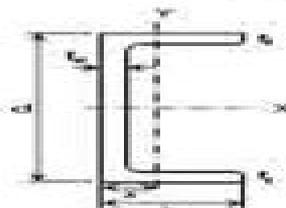


Figure 1-17

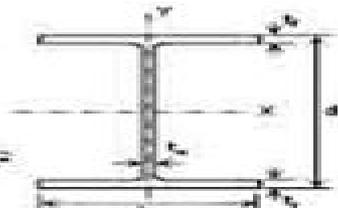
**SOLUTION**

Properties:



**Channel**  
 $d = 381.00 \text{ mm}$   
 $t_w = 18.20 \text{ mm}$   
 $b_f = 94.40 \text{ mm}$   
 $t_f = 16.50 \text{ mm}$   
 $A = 9,484 \text{ mm}^2$   
 $IW = 74.60 \text{ kg/m}$   
 $x = 20.27 \text{ mm}$   
 $I_x = 168,157,000 \text{ mm}^4$   
 $I_y = 4,579,000 \text{ mm}^4$

**Wide Flange**  
 $d = 544.30 \text{ mm}$   
 $t_w = 13.10 \text{ mm}$   
 $b_f = 212.20 \text{ mm}$   
 $t_f = 21.20 \text{ mm}$   
 $A = 15,677.00 \text{ mm}^2$   
 $IW = 123.31 \text{ kg/m}$   
 $r_x = 54.61 \text{ mm}$   
 $I_x = 761,704,000 \text{ mm}^4$   
 $I_y = 33,881,000 \text{ mm}^4$



# Steel And Timber Design Solved Problems

**Patrick Vollmar**



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