

"Carriwater"
"Hopper Breezer"

Allowance for Hopper

Volume of Immersed Portion :-

$$\text{Sides} = \frac{59 \times 14.5 \times 3.4}{35} = 83 \text{ tons}$$

$$\text{Keelson} = \frac{59 \times 6.0 \times 3.5}{35} = \frac{35 \text{ tons}}{118}$$

$$\times \text{Reserve of buoyancy } 25.2\% = 29.7 \text{ tons}$$

Volume of Emerged Portion :-

$$\frac{59 \times 3.3 \times .9}{35} = 5 \text{ tons}$$

$$\text{Total} = \underline{\underline{34.7 \text{ tons}}}$$

$$\begin{aligned} \text{Area of W. Plane} &= 222.0 \times 43.0 \times .86 = 8209 \\ \text{less well. } 59 \times 33.0 &= \underline{1947} \\ &= \underline{\underline{6262}} \end{aligned}$$

$$\text{T.P.I.} = \frac{6262}{420} = 14.9$$

$$\frac{34.7}{14.9} = 2.33 \text{ metres}$$

$$\begin{aligned} 2.33 \times \frac{2}{10} &= .466 \\ &= \frac{1}{2}'' \end{aligned}$$



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