
LL66
(Oct
2003)

Hatch Cover Stress/Deflection Calculation (Res. MSC.143(77), 2005 LL Protocol Regulation 16(5) (a) & (b))

Regulation 16 *Hatchways closed by weathertight covers of steel or other equivalent materials*

Hatch cover minimum design loads

(5) *All hatch covers shall be designed such that:*

- (a) *the product of the maximum stress determined in accordance with the above loads and the factor of 1.25 does not exceed the minimum upper yield point strength of the material in tension and the critical buckling strength in compression;*
- (b) *the deflection is limited to not more than 0.0056 times the span,*

Interpretation

In the calculation of stress and deflection from the prescribed mass per unit area, the design pressure is to be determined by using a vertical acceleration equal to 1.0g.

Note: This UI LL 66 is to be uniformly implemented by IACS Members and Associates from 1 January 2005.

