PROBABILISTIC DAMAGE STABILITY

Zebec's team of Naval Architects uses approved software to carry out intact & damage stability using

- Deterministic Method
- Probabilistic Method

The stability is carried out for both;

- New Build Vessels
- Existing vessels which have undergone major modification / retrofits

- It takes into account the probability of damage of a combination of the vessel's compartments according to both IMO MSC.216(82) and IMO MSC.19(58) . MSC.216(82)
- Can be used also for simple cross checks against a ship's loading manual to full scale re-assessment/verification by preparing a computer model of the vessel
- ***Software used : Maxsurf Advance***
- Study involves a number of large angle stability analysis and uses the IMO criterion to determine an S-factor that depend on certain parameters of the GZ curve
- The GZ curves calculated for large number of different damage conditions and several load cases
- For each condition, a P-factor is calculated
- The vessel's attained subdivision index is the sum of the products of P-factors with their corresponding S-factors

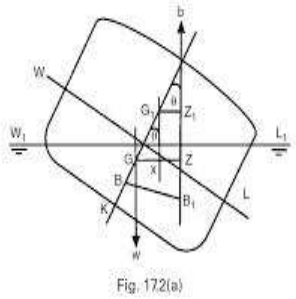
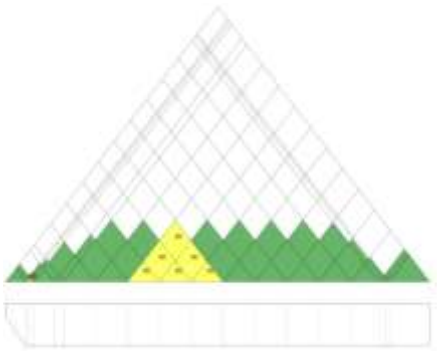
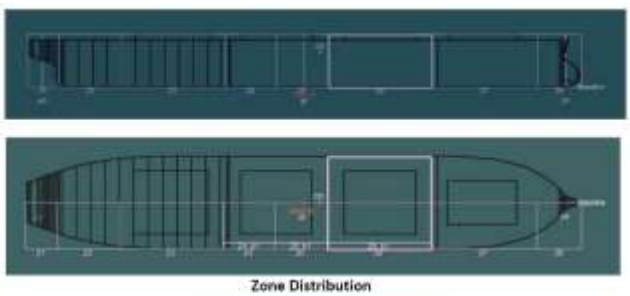


Fig. 17.2(a)



The attained subdivision index can then be compared with a required subdivision index to see if vessel achieves a sufficiently high degree of safety.


Zone Distribution

Transverse Subdivision

Contact at: +91-22-42965000
www.zebecmarine.com | zebec@zebecmarine.com