

Ship Stability

Ship stability can be defined as the ability of the ship to return to her initial state or withstand the external forces (still sea water and waves) without change of her initial state. Therefore, ship stability is the ability of a ship to float in an upright position and, if inclined under action of an external force, to return to this position after the external force has ceased acting

However, in [naval architecture](#), ship stability has a calculated formula. This formula appears to focus on the vessel center of gravity, hull center of buoyancy, and meta-center of vessels also on how these interacts.

- **Meta-centric heights (GM)**

To give you the basic understanding about meta-center height, it's the initial static measurement of the floating body of a vessel. This calculation is being derived by total distance between the center of gravity of a vessel and its meta-center.

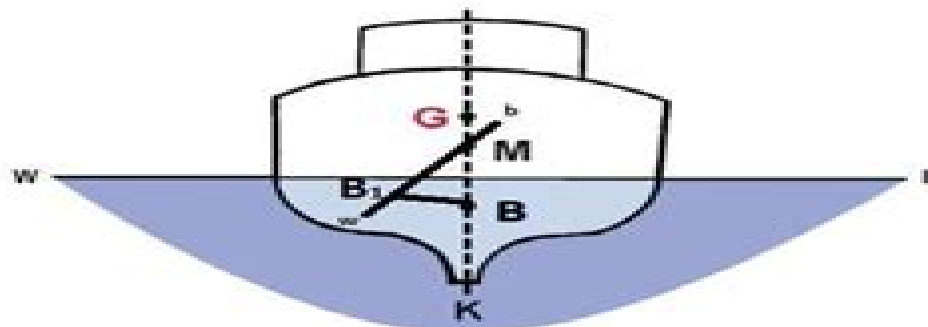
- **Intact and damaged ship stability**

Someone may ask, what the word intact and damaged stands for; these are types of ship distinct stability. Intact simply means for the initial operational configuration of the vessel. While damaged is the worst condition of the intact.

A vessel are required to meet various ship stability criteria as mentioned above (GM), trim, range of stability, etc. According to the regulation of [IMO](#) and [SOLAS](#), a ship is been credited to be seaworthy if she fulfill the above mentioned (intact and damaged) stability.

- **Centre of buoyancy of a floating body**

This is a point where all body parts buoy up each other. "B" is the center of buoyancy. While B1 shows when the ship is inclined. Therefore, when the ship is inclined, the center of buoyancy moves from B to B1. This creates a movement, and the righting lever returns the ship to its initial position, which makes her stable.



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