

SAFETMAN has a capacity of 90,75 kgs. This capacity has been calculated according to IMO regulations. IMO stated that an average human weight for free-fall lifeboats is 82,5 kgs. As commonly known load tests of lifeboats should be carried out with 10% margin of the total weight. As a result SAFETMAN has a total capacity of 90,75 kgs including its own empty weight, so load tests could be completed according to regulations.

- 1-Sand bag
- 2-Real human
- 3- Sausage shaped water bag
- 4-Metal dust in bags

All of the methods above have their own weakness and errors. For example sand bags are hard to carry and store also it affects the centre of gravity for the free-fall life boat negatively.

To use real humans in these tests is really inconvenient because of the natural risk in new installment tests. Also in old systems there are unknown corrosive effects of time, sun rays and salty water.

We can summarize SAFETMAN' s features as below:

- 1- It has a total weight of 90,75 kgs when full (An average human weight + %10 load test margin)
- 2- It has physical dimensions of an average sitting human body shape.
- 3- A sitting human body shape simulated as designing SAFETMAN.
- 4- Chest, calf and knee sections have inner partitions to avoid the shapeless swellings. The water disperses in the water bag equally.
- 5- It can be fastened up to the seats with its straps.
- 6- With the air valve positioned on top of the water bag it can be filled with water totally without leaving any air inside.
- 7- It doesn't have negative free surface effect because it is full of water without any air gaps inside the water bag.
- 8- It doesn't affect the balance of the boat negatively.
- 9- According to SOLAS regulations the centre of gravity for the water bag positioned on 20-30 cms above from the seat.

