

## Annex to Class-IV Vessels Paper 3/2021

### Graphical Illustration of Simple Inclining Test

Passenger (pax.):	≤ 12
Heeling Moment:	WB/12
Max. Heeling Angle:	7 degree

  

Example for 12 pax. :

$$WB/12$$

$$=(75\text{kg} \times 12\text{pax.}) \times 2.5 / 12$$

$$= 187.5 \text{ kg-m}$$

Extreme Breadth (B): 2.5m

≤ 7 degree

0.625m      1/4B

(600kg – 300kg) x 0.625m = 187.5 kg-m

Passenger (pax.):	13 - 60
Heeling Moment:	WB/2
Max. Heeling Angle:	10 degree

  

Example for 20 pax. :

$$WB/2$$

$$=(75\text{kg} \times 20\text{pax.}) \times 2.5 / 2$$

$$= 1875 \text{ kg-m}$$

Extreme Breadth (B): 2.5m

≤ 10 degree

1.25m (1/2B)

OR

0.625m (1/4B)

75kg x 20 x 1.25m = 1875 kg-m      75kg x 40 x 0.625m = 1875 kg-m