

LL16 Sheer (Regulation 38)

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Interpretation of Regulation 38 of the International Convention on Load Lines, 1966 and of the 1988 Protocol as adopted by the International Conference on the Harmonized System of Survey and Certification

Paragraph 12 of Regulation 38 of the International Convention on Load Lines, 1966 reads as follows:

Where sheer credit is given for a poop or forecastle the following formula shall be used:

$$s = \frac{yL'}{3L}$$

where

- s = sheer credit, to be deducted from the deficiency or added to the excess of sheer,
- y = difference between actual and standard height of super-structure at the end of sheer,
- L' = mean enclosed length of poop or forecastle up to a maximum length of 0.5 L,
- L = length of ship as defined in Regulation 3 (1) of this Annex.

The above formula provides a curve in the form of a parabola tangent to the actual sheer curve at the freeboard deck and intersecting the end ordinate at a point below the superstructure deck a distance equal to the standard height of a superstructure. The superstructure deck shall not be less than standard height above this curve at any point. This curve shall be used in determining the sheer profile for forward and after halves of the ship.

Paragraph 12 of Regulation 38 of the 1988 Protocol as adopted by the International Conference on the Harmonized System of Survey and Certification reads as follows:

Where sheer credit is given for a poop or forecastle the following formula shall be used:

$$s = \frac{yL'}{3L}$$

where

- s = sheer credit, to be deducted from the deficiency or added to the excess of sheer,
- y = difference between actual and standard height of super-structure at the after or forward perpendicular,
- L' = mean enclosed length of poop or forecastle up to a maximum length of 0.5 L,
- L = length of ship as defined in Regulation 3 (1) of this Annex.

The above formula provides a curve in the form of a parabola tangent to the actual sheer curve at the freeboard deck and intersecting the end ordinate at a point below the superstructure deck a distance equal to the standard height of a superstructure. The superstructure deck shall not be less than standard height above this curve at any point. This curve shall be used in determining the sheer profile for forward and after halves of the ship.

Footnote Note:

1. This UI is also applicable to Regulation 38 of International Convention on Load Lines, 1966 and the 1988 Protocol as adopted by the International Conference on the Harmonized System of Survey and Certification.

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(cont'd)

Interpretation

Where the height of a superstructure is less than standard, paragraph 12 may be applied except that the superstructure deck shall not be less than the minimum height of the superstructure above the virtual shear curve at any point.

For this purpose “ y ” shall be taken as the difference between the actual and minimum height of the superstructure at

- the end of sheer under the International Convention on Load Lines, 1966, and
- at the after or forward perpendicular under the 1988 Protocol as adopted by the International Conference on the Harmonized System of Survey and Certification.

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