

Overview noise level requirements

Noise level limits for merchant ships according to **(SOLAS II-1/3-12) Resolution MSC.337(91)** and **(Regeling Veiligheid Zeeschepen art.23, lid 5) Resolution A.468(XII)** and seagoing fishing vessels according **Regeling geluidniveaus aan boord van vissersvaartuigen**.

If two values (1st/2nd) are given in a column, then the first value is according Res. A.468(XII) and the second value is according Res. MSC.337(91).

Because Res.MSC.337(91) has a new tonnage reference, the values are separated in column 1600 – 10000 GT and column ≥10000 GT.

The column "reasonable and practical" is valid for existing and new ships < 1600 GT

Measurements are taken at **80% MCR**, for fishing vessels at **100% MCR** and for tug boats with FPP **93%** of nominal rpm and in free sailing condition.

	≥10000 GT	1600 - 10000 GT	Reasonable + practical	Fishing bt. L < 55 m.	Fishing bt. L ≥ 55 m.
Machinery spaces	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
ER manned	90/-	90/-	90	90	90
ER unmanned	110/110	110/110	110	110	110
Control rooms	75/75	75/75	75	75	75
Work shops	85/85	85/85	85	85	85
Other working spaces	90/85	90/85	90	-	-
Fish processing spaces	-	-	-	85	85

	≥10000 GT	1600 - 10000 GT	Reasonable + practical	Fishing bt. L < 55 m.	Fishing bt. L ≥ 55 m.
Navigation spaces	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Bridge, chart room 1)	65/65	65/65	70	70	65
Look out post 2)	70/70	70/70	75	-	-
Radio rooms	60/60	60/60	70	70	60
Radar rooms	65/65	65/65	70	70	65

1) Sound signal audible and communication possible

2) Including bridge wing and –windows. Inapplicable for tug boats, see Res.A.343(IX)

	≥10000 GT	1600 - 10000 GT	Reasonable + practical	Fishing bt. L < 55 m.	Fishing bt. L ≥ 55 m.
Accommodation	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Cabins, hospital	60/55	60/60	70	70	60
Messrooms	65/60	65/65	75	75	65
Recreation rooms	65/60	65/65	65	-	-
Open deck recreation	75/75	75/75	75	-	-
Offices	65/60	65/65	75	75	65

	≥10000 GT	1600 - 10000 GT	Reasonable + practical	Fishing bt. L < 55 m.	Fishing bt. L ≥ 55 m.
Service spaces	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Galleys, pantries 1)	75/75	75/75	75	75	75

1) Without food processing equipment operating

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	≥10000 GT	1600 - 10000 GT	Reasonable + practical	Fishing bt. L < 55 m.	Fishing bt. L ≥ 55 m.
Unoccupied spaces	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
See section 3.14	90/90	90/90	90	-	-

General remarks:

- For merchant ships Resolution MSC.337((91) is in force from the 1st of July 2014. This resolution concerns the code on noise levels on board ships and is applicable on ships of a gross tonnage of 1600 and above, built on or after this date. Contrary to Resolution A.468(XII), the new code is compulsory on the basis of SOLAS II-1/3-12. For Dutch flagged vessels Resolution A.468(XII) will remain in force regardless of their gross tonnage if they are built before 1 July 2014 and for vessels with a gross tonnage less than 1600 if they are built on or after 1 July 2014. For the time being Resolution A.468(XII) will also remain in force for dredgers with propulsion and high-speed vessels with a gross tonnage of 1600 and above, if they are built on or after 1 July 2014, because they are excepted from the new code.
- For vessels with DP notation it is required to carry out noise measurements also according section 3.3.8. and 3.3.9 from Resolution MSC.337(91) ADOPTION OF THE CODE ON NOISE LEVELS ON BOARD SHIPS. Dredgers are exempted from Res.MSC.337(91) and are measured according Res.A.468(XII). So no measurements in DP operation are required. Noise exposure is also covered by requirements of Directive 2003/10/EG
- It is advisable to make a noise level prediction in such a design stage that the acoustic measures necessary can be realized in order to reduce the noise level below the maximum acceptable levels (reference is made to Appendix 3 " SUGGESTED METHODS OF ATTENUATING NOISE" of IMO Resolution MSC.337(91))
- Additional the requirements of the " Arbeidsomstandighedenbesluit, Part 3. " Geluid ", art. 6.6 and further (implementation of the Directive 2003/10/EG)" must be met.
- Every vessel, sister vessel as well, requires a noise level measurement to be carried out. A noise survey report must be made based on the measurement results
- The limits mentioned in column REASONABLE + PRACTICAL shall be regarded as maximum levels. Those maximum levels can only be accepted if they are measured after sufficient and reasonable noise reducing measurements have been done. It is desirable for the noise levels to be lower than the maximum levels specified.

This corresponds with procedures as mentioned in Res.A.468(XII) and Res.MSC.337(91):

Res.A.468(XII) 4.1.1. the limits specified in this section should be regarded as maximum levels and not as desirable levels. Where reasonably practicable, it is desirable for the noise level to be lower than the maximum levels specified.

Res.MSC.337(91) 4.1.1 the limits specified in this section shall be regarded as maximum levels and not as desirable levels. Where reasonably practicable, it is desirable for the noise level to be lower than the maximum levels specified.