Australian Government
Australian Maritime Safety Authority

National Standard for Commercial Vessels

Omnibus amendments instrument No1, 2021 for:

Part C: Design and construction

- **Section C3: Construction**
- **Section C6: Stability**
  - **Sub-section C6B: Buoyancy and stability after flooding**
  - **Sub-section C6C: Stability tests and stability information**
- **Section C7: Equipment**
  - **Sub-section C7D: Anchoring**

Part F: Special vessels

- **Section F2: Leisure Craft**

Part G: Non survey vessels

Approved by the National Marine Safety Regulator on 23 August 2021 and adopted by the Infrastructure and Transport Ministers on 25 February 2022, to commence on 1 April 2022.

Published by Australian Maritime Safety Authority, GPO Box 2181 Canberra, ACT 2601. All inquiries to be addressed to the General Manager, Standards, Australian Maritime Safety Authority.

1 Name of instrument

This is the National Standard for Commercial Vessels, Omnibus Amendments instrument No. 1, 2021.

2 Commencement

The amended editions of the standards listed below will commence on 1 April 2022.

3 Amendments

The following National Standards for Commercial Vessels (NSCV) will be amended in accordance with details described in this instrument as per table 1.

Table 1 – summary of amendments and edition numbers

NSCV edition #	Clauses amended	New edition #	Amendment details described in
Part C Section C3, Ed 1.2	2.2, 3.2.2, Annex C, table C.1.	1.3	Schedule 1
Part C Section C6, Sub-section C6B, Ed 1.2	10.6.1.3	1.3	Schedule 2
Part C Section C6, Sub-section C6C, Ed 2.2	5.4.6.3	2.3	Schedule 3
Part C Section C7, Sub-section C7D, Ed 1.3	2.3.3.2, 3.7	1.4	Schedule 4
Part F Section F2, Ed 2.6	12.3.8	2.7	Schedule 5
Part G, Ed 2.4	3.7	2.5	Schedule 6

Schedule 1- Amendment to NSCV Part C: Design and construction,

Section C3: Construction

[1] In the note following clause 2.2:

Substitute the word “planning” with the word “planing’.

[2] In clause 3.2.2 Deemed-to-satisfy alternatives to class, Table 1:

Delete “KEY 1”

“1. At the time of development of this standard, Parts 5 and 6 of ISO 12215 were still in draft form. Only the final published versions of Parts 5 and 6 of ISO 12215 are deemed-to-satisfy solutions for the standard, not the draft versions.”

[3] In Annex C, Table C.1

Replace

Table C.1 Minimum Mechanical Properties for Non-Welded Aluminium Alloys

Alloy and temper	Product	Thickness range	Tension		Compression yield strength	Shear		Bearing		E*
			Ultimate strength	Yield strength		Ultimate strength	Yield strength	Yield strength	Ultimate strength	
		mm	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa
5005-H12	Sheet, plate	≤50	124	96	90	76	152	55	234	69 637
5005-H14	Sheet	≤6	144	117	103	83	172	69	276	69 637
5005-H16	Sheet	≤4	165	138	124	96	206	83	331	69 637
5005-H32	Sheet	≤6	117	83	76	76	138	48	234	69 637
5005-H34	Sheet	≤6	137	103	98	83	167	59	276	69 637
5005-H36	Sheet	≤4	158	124	110	90	200	76	317	69 637
5050A-H32	Sheet	≤6	151	110	96	96	186	62	303	69 637
5050A-H34	Sheet	≤6	172	137	124	103	221	83	345	69 637
5052-H32	Sheet, plate	≤50	213	158	145	131	269	90	414	70 327
5052-H34	Sheet, plate	≤25	234	179	165	138	303	103	448	70 327
5052-H36	Sheet	≤4	255	199	179	152	317	117	483	70 327
5052-H38	Sheet	≤3.25	268	220	207	152	338	124	510	70 327
5052-H391	Sheet	≤2	290	241	227	159	358	138	524	70 327
5083-H111	Extrusions	≤125	275	165	145	159	262	97	538	71 705
5083-H321	Plate	>5 ≤40	303	213	179	179	365	124	59	71 705
5083-H321	Plate	>40 ≤75	282	199	165	165	117	538	338	71 705
5083-H323	Sheet	≤6	310	234	221	179	138	607	400	71 705
5083-H343	Sheet	≤6	344	268	255	200	159	655	455	71 705
5086-H34	Sheet, plate	≤25	303	234	221	179	138	579	400	71 705

(Continued)

With

Table C.1 Minimum Mechanical Properties for Non-Welded Aluminium Alloys

Alloy and temper	Product	Thickness range	Tension		Compression yield strength	Shear		Bearing		E*
			Ultimate strength	Yield strength		Ultimate strength	Yield strength	Ultimate strength	Yield strength	
		mm	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa
5005-H12	Sheet, plate	≤50	124	96	90	152	76	234	55	69 637
5005-H14	Sheet	≤6	144	117	103	172	83	276	69	69 637
5005-H16	Sheet	≤4	165	138	124	206	96	331	83	69 637
5005-H32	Sheet	≤6	117	83	76	138	76	234	48	69 637
5005-H34	Sheet	≤6	137	103	98	167	83	276	59	69 637
5005-H36	Sheet	≤4	158	124	110	200	90	317	76	69 637
5050A-H32	Sheet	≤6	151	110	96	186	96	303	62	69 637
5050A-H34	Sheet	≤6	172	137	124	221	103	345	83	69 637
5052-H32	Sheet, plate	≤50	213	158	145	269	131	414	90	70 327
5052-H34	Sheet, plate	≤25	234	179	165	303	138	448	103	70 327
5052-H36	Sheet	≤4	255	199	179	317	152	483	117	70 327
5052-H38	Sheet	≤3.25	268	220	207	338	152	510	124	70 327
5052-H391	Sheet	≤2	290	241	227	358	159	524	138	70 327
5083-H111	Extrusions	≤125	275	165	145	262	159	538	97	71 705
5083-H321	Plate	>5 ≤40	303	213	179	365	179	124	59	71 705
5083-H321	Plate	>40 ≤75	282	199	165	165	117	538	338	71 705
5083-H323	Sheet	≤6	310	234	221	179	138	607	400	71 705
5083-H343	Sheet	≤6	344	268	255	200	159	655	455	71 705
5086-H34	Sheet, plate	≤25	303	234	221	179	138	579	400	71 705

(Continued)

And replace

Table C1 (continued)

Alloy and temper	Product	Thickness range	Tension		Compression yield strength	Shear		Bearing		E*
			Ultimate strength	Yield strength		Ultimate strength	Yield strength	Yield strength	Ultimate strength	
		mm	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa
5086	Sheet	>4.8 ≤6	248	124	117	152	69	496	214	71 705

with

Table C1 (continued)

Alloy and temper	Product	Thickness range	Tension		Compression yield strength	Shear		Bearing		E*
			Ultimate strength	Yield strength		Ultimate strength	Yield strength	Ultimate strength	Yield strength	
		mm	MPa	MPa	MPa	MPa	MPa	MPa	MPa	MPa
5086	Sheet	>4.8 ≤6	248	124	117	152	69	496	214	71 705

Schedule 2 - Amendment to NSCV Part C: Design and construction,
Section C6: Stability
Sub-section C6B Buoyancy and stability after flooding

[1] In the note following clause 10.6.1.3 Quality of inflated materials:

Delete Note:

"The Register of Compliant Equipment published by the NMSC at www.nmsc.gov.au provides a listing of equipment and materials that have been verified as complying with relevant standards".

Schedule 3 - Amendment to NSCV Part C: Design and construction
Section C6: Stability
Sub-section C6C: Stability tests and stability information

[1] In the note following clause 5.4.6.3 Simplified stability documentation, b):

Delete

"NOTE: A template for motor or sail operator's stability manual can be downloaded from the NMSC website."

Schedule 4 - Amendment to NSCV Part C: Design and construction
Section C7: Equipment
Sub-section C7D: Anchoring systems

[1] In the note following clause 2.3.3.2 - Assessment and verification:

Delete Note:

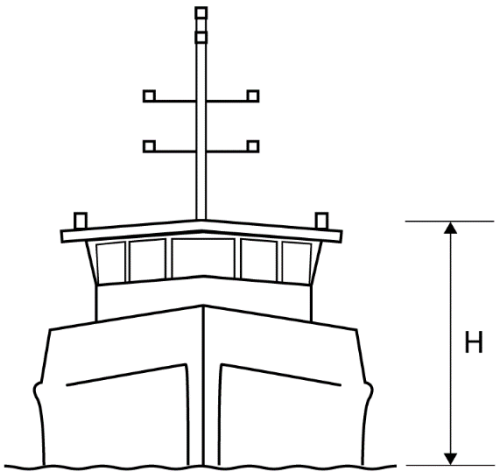
"NOTE: A listing of safety equipment that has been recognised as complying with the NSCV is available on the Register of Compliance Equipment published by the National Marine Safety Committee at www.nmsc.gov.au."

[2] In clause 3.7 DETERMINING ANCHOR MASS BY TABLES:

Add

"In tables 3.1, 3.2, 3.3 and 3.4, "H" is the height in metres from the waterline to the top of the highest tier of a superstructure / deckhouse etc above the main deck, that has a breadth greater than 25% of the vessel's maximum beam."

And, add graphic:



[3] In clause 3.8 NUMBER OF ANCHORS, Table 3.4 - Anchor mass in kg for Class E vessels:

Swap the symbols “L” and “H” in top left of table to match the previous tables 3.1, 3.2, 3.3 as below.

Table 3.4 – A

L / H	0.5	1.0	1.5

Incorrect

Table 3.4 – A

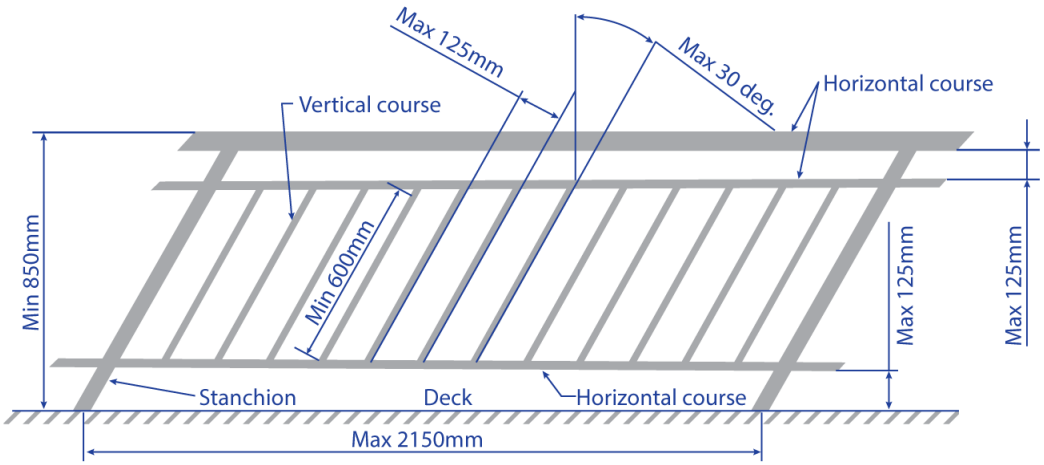
H / L	0.5	1.0	1.5

Correct

Schedule 5 - Amendment to NSCV Part F: Special vessels Section F2: Leisure Craft

[1] In clause 12.3.8 Bulwarks and guardrails, Figure 2 Houseboat guardrail geometry

Rework image in higher resolution.



Schedule 6 - Part G: Non-survey vessels

[1] In clause 3.7 Bilge systems, (2):

Substitute

"(2) The following vessels must have the kind and number of bilge pumps mentioned in Table 9:
(a) an open vessel;
(b) a vessel with covered bilges;
(c) a vessel with under-floor compartments, other than airtight void spaces filled with foam to over 90% of the void volume."

With

"(2) The following vessels must have the kind and number of bilge pumps mentioned in Table 9:
(a) an open vessel ≥ 5m;
(b) a vessel with covered bilges;
(c) a vessel with under-floor compartments, other than airtight void spaces filled with foam to over 90% of the void volume.
NOTE: Open vessels of measured length less than 5 m may be provided with a bailing bucket in lieu of a bilge system, provided there is ready access to the bilge for bailing."

[2] In clause 3.7 Bilge systems, Table 9 - Bilge systems - kind and number of pumps

Insert new note:

"NOTE: Open vessels of measured length less than 5 m may be provided with a bailing bucket in lieu of a bilge system, provided there is ready access to the bilge for bailing."