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**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

Working Party on Inland Water Transport

Working Party on the Standardization of Technical  
and Safety Requirements in Inland Navigation

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agenda item 4)

HARMONIZATION OF THE REQUIREMENTS CONCERNING ANCHORS  
FOR INLAND NAVIGATION VESSELS

Addendum 3

Transmitted by the Governments of Poland and Ukraine

**POLAND**

**Table 1: Passenger vessels**

Displacement	Dimensions			Mean height of super-structure above waterline	Number, type and weight (calculated according to national requirements) of		Length of chain of bow/stern anchors	Additional observations: Main region (zone) of operation of the vessel, etc.
	L *	B */	d */		bow anchors	stern anchors		
D (t)	L* (m)	B*/ (m)	d*/ (m)	H <sub>M</sub> (m)	M <sub>B</sub> (kg)	M <sub>S</sub> (kg)	l (m)	
1	2	3	4	5	6	7	8	9
10	12.6	3.00	0.50	2.00	1 x 25, special**	-	30	Zone 3, 30 passengers
12	13.5	2.94	0.44	3.03	1 x 25, Hall	-	25	Zone 3, 40 passengers
18	31.5	5.50	0.95	5.00	2 x 100, Hall	-	50	Zone 2, 140 passengers
34	18.2	4.10	0.50	2.80	1 x 75, Hall	-	40	Zone 3, 101 passengers
44	24.0	3.13	1.00	4.20	1 x 75, Hall	-	20	Zone 3, 65 passengers
49	29.9	3.05	1.00	3.20	2 x 100, Hall	-	20	Zone 3, 65 passengers
62	29.7	5.42	0.75	3.25	1 x 100, Hall	-	25	Zone 3, 203 passengers
155	35.0	6.00	1.55	5.00	2 x 250, Hall	-	2 x 100	Zone 3, 250 passengers
168	35.0	6.00	1.64	5.00	2x 250, Hall	-	2 x 50	Zone 2, 250 passengers

\* L - Length, B - Beam and d - Draught of vessels

\*\* Special anchor = anchor with increased holding power and reduction of required mass to 75%.

**Tables 2: Pushers**

Power of engine	Designed maximum carrying capacity of convoy pushed	Number, type and weight of stern anchors calculated according to national requirements	Length of chain of stern anchors	Additional observations: Main region (zone) of operation, vessels for carrying light voluminous cargo, etc.
P (kW)	CC (t)	M <sub>s</sub> (kg)	l (m)	
1	2	3	4	5
121	2 x 150	2 x 100, Hall	2 x 30	Zone 3, Daniel type
2 x 107	2 x 200	1 x 100, Hall	30	Zone 3, LOS PS-200
2 x 121	2 x 200	2 x 300, four-armed	2 x 50	Zone 3, TUR
2 x 154	2 x 500	2 x 400, special	2 x 50	Zone 2, Karibu
2 x 155	2 x 500	2 x 400, special	2 x 30	Zone 2, Bizon-IIIP
2 x 155	2 x 500	2 x 400, special	2 x 30	Zone 3, Bizon-IIIT

**Table 4: Pushed barges**

Dimensions			Carrying capacity	Number, type and weight of bow anchors calculated according to national requirements	Length of chain of bow anchors	Additional observations: Main region (zone) of operation, vessels for carrying light voluminous cargo, etc.
L (m)	B (m)	d (m)				
1	2	3	4	5	6	7
34.00	6.56	0.90	131	1 x 150 four armed	30	Zone 3, BP-130 type
34.00	6.56	0.93	145	2 x 150 four armed	2 x 25	Zone 3, B-125 type
30.44	4.55	1.50	151	1 x 150 special	30	Zone 3, BP-150 type
31.05	10.00	1.00	224	1 x 300 four-armed	67	Zone 3, BP-200 type
34.28	8.60	1.55	352	1 x 350, four-armed	2 x 22	Zone 3, BPP-400 type
32.50	8.18	1.97	393	1 x 350, Hall	50	Zone 2, 190/1 type
44.88	8.90	1.60	461	1 x 450, special	60	Zone 3, BP-500/II-SAU
44.95	8.92	1.60	471	1 x 500, special	55	Zone 2, OBP-500 type
44.91	8.90	1.61	478	1 x 500, special	55	Zone 2, OBP-500/III type
44.87	8.91	1.60	495	1 x 450, Hall	55	Zone 3, BPC-500 type
46.96	8.60	1.55	511	1 x 400, Hall	47	Zone 3, BPP-500/K type
51.20	8.18	2.00	641	2 x 450, Hall	2 x 75	Zone 3, WW-550 type
58.95	8.96	2.00	762	2 x 400, Hall	2 x 60	Zone 2, BP-800

**Table 4: Pushed barges (continued)**

Dimensions			Carrying capacity	Number, type and weight of bow anchors calculated according to national requirements	Length of chain of bow anchors	Additional observations: Main region (zone) of operation, vessels for carrying light voluminous cargo, etc.
L (m)	B (m)	d (m)				
1	2	3	CC (t)	M <sub>B</sub> (kg)	l (m)	7
66.34	9.00	1.95	878	1 x 450, Hall 1 x 350, Hall	2 x 50	Zone 3, VC-900 type
60.77	9.08	2.50	971	1 x 400, Special	45	Zone 2, BP-1000P type
76.50	11.37	3.77	2486	2 x 500, Hall	2 x 82.5	Zone 1, BP-3000 type
76.59	11.38	3.79	2514	2 x 500, Hall	2 x 80	Zone 1, PMP-2950 type
76.42	11.39	3.95	2721	2 x 1150, special	2 x 90	Zone 2, BP-2700 type

**UKRAINE**

**Table 1: Passenger vessels**

Displacement	Dimensions			Mean height of super-structure above waterline	Number, type and weight (calculated according to national requirements) of		Length of chain of bow/stern anchors	Additional observations: Main region (zone) of operation of the vessel, etc.
					bow anchors	stern anchors		
D (t)	L (m)	B (m)	d (m)	H <sub>M</sub> (m)	M <sub>B</sub> (kg)	M <sub>S</sub> (kg)	l (m)	
1	2	3	4	5	6	7	8	9
2000	117.0	17.0	1.69	8.37	2 x 1750, Hall	-	2 x 75	Danube (Zone 3) m/v "Ukraina"
1514	105.9	16.1	1.65	8.25	2 x 1500, Hall	-	2 x 75	Danube (Zone 3) m/v "Volga"
891	86.12	14.4	1.82	10.2	2 x 1250, Hall	-	Starboard 100 Port 75	Danube (Zone 3) m/v "Dunay"
3570	125.0	16.7	2.76	10.8	2 x 2000, Hall	-	2 x 150	Dnieper (Zones 1 and 2), Danube, north-west of the Black Sea. Vessels of 301 type

Note: In column 6 a calculated mass of anchors is indicated.  
In column 8 a real length of chain is shown.

**Tables 2: Pushers**

Power of engine	Designed maximum carrying capacity of convoy pushed	Number, type and weight of stern anchors calculated according to national requirements	Length of chain of stern anchors	Additional observations: Main region (zone) of operation, vessels for carrying light voluminous cargo, etc.
P (kW)	CC (t)	M <sub>s</sub> (kg)	l (m)	
1	2	3	4	5
1472	8000	2 x 1450, Hall	100	Danube (Zone 3), carriage of all sorts of cargo except bulk liquids, m/v "Riga"
1766	4400	2 x 1560, Hall	2 x 125	Dnieper (Zones 1 and 2), north-west of the Black Sea, Danube (Zone 3), vessels of H-3290 type
1472	4400	2 x 1450, Hall	2 x 125	Dnieper (Zones 1 and 2), north-west of the Black Sea, Danube (Zone 3), vessels of 4281 type.

Note: In column 6 a calculated mass of anchors is indicated.  
In column 8 a real length of chain is shown.

**Table 3: Self-propelled pusher vessels**

Power of engine	Designed maximum carrying capacity of convoy pushed	Number, type and weight (calculated according to national requirements) of		Length of chain of bow/stern anchors	Additional observations: Main region (zone) of operation, vessels for carrying light voluminous cargo, etc.
		bow anchors	stern anchors		
P (kW)	CC (t)	M <sub>S</sub> (kg)	M <sub>S</sub> (kg)	l (m)	
1	2	3	4	5	6
2 x 722	8500	-	2x1000, Hall	-/2 x 75	Danube (Zone 3), carriage of bulk, high-volume cargo, containers, m/v "Captain Antipov"

Note: In column 6 a calculated mass of anchors is indicated.  
In column 8 a real length of chain is shown.



**Table 4: Pushed barges**

Dimensions			Carrying capacity	Number, type and weight of bow anchors calculated according to national requirements	Length of chain of bow anchors	Additional observations: Main region (zone) of operation, vessels for carrying light voluminous cargo, etc.
L (m)	B (m)	d (m)	CC (t)	M <sub>B</sub> (kg)	l (m)	
1	2	3	4	5	6	7
76.53	15.04	2.50	2300	2 x 1000, Hall	Port – 75 starboard - 100	Danube (Zone 3), high-volume, heavy, bulk cargo, barge-section C-1
76.50	11.00	2.50	15008	2 x 900, Hall	2 x 100	Danube (Zone 3), high-volume, heavy, bulk cargo, barge-section C-1
38.25	11.00	3.30	1078	2 x 700, Hall	2 x 100	Danube (Zone 3), north-west of the Black Sea, high-volume, heavy cargo, section-platform PDM-12
76.50	10.00	2.70	1588	2 x 1000, Hall	2 x 165	Danube (Zone 3), high-volume, heavy and bulk cargo, barge-section S-401
90.30	16.50	2.50	2000	2 x 1500, Hall	Port – 190 starboard - 220	Danube (Zone 3), north-west of the Black Sea, section-platform TMI
76.50	11.00	2.70	1778	2 x 900, Hall	2 x 100	Danube (Zone 3), high-volume, heavy and bulk cargoes, barge-section S-401
84.80	15.20	2.42	2200	2 x 1000, Hall	2 x 100	Dnieper (Zones 1 and 2), north-west of the Black Sea., Danube (Zone 3), open storage cargoes, barge D021type
84.80	15.20	2.42	2100	2 x 800, Hall	2 x 125	Dnieper (Zones 1 and 2), north-west of the Black Sea., Danube (Zone 3), open storage cargoes, barge 1021type

**Note:** In column 6 a calculated mass of anchors is indicated.  
In column 8 a real length of chain is shown.

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