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INLAND TRANSPORT COMMITTEE

Working Group on Inland Water Transport

Working Party on the Standardization
of Technical and Safety Requirements
in Inland Navigation
(nineteenth session, 14-16 March 2000,
agenda item 4)

HARMONIZATION OF THE REQUIREMENTS CONCERNING ANCHORS FOR INLAND NAVIGATION VESSELS

Transmitted by the Governments of Lithuania, Romania and the Russian Federation

Note: At its seventeenth session, the Working Party agreed that it would be useful to collect information on actual anchor requirements for vessels other than self-propelled cargo vessels (covered by resolution No. 36, TRANS/SC.3/104/Add.3) and on the basis of this information and using also relevant CCNR and draft EC provisions to try to develop, with the help of a volunteer delegation, minimum pan-European anchor requirements for the following types of vessels: (i) passenger vessels; (ii) pushers; (iii) self-propelled pusher vessels; and (iv) pushed barges. Governments were invited to complete the tables set out in annex 2 to TRANS/SC.3/WP.3/35, reflecting the existing national requirements in their countries as far as the equipment of the above four types of inland navigation vessels was concerned (TRANS/SC.3/WP.3/35, paras. 13 and 14).

Reproduced below is the information received from Governments.

LITHUANIA

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_M (m)	M_B (kg)	M_S (kg)	l (m)	
1	2	3	4	5	6	7	8	9
200	40	6	1.2	6.0	2 x100, Matrosov	-	2x75	River Nemunas, Kaunas-Jurbarkas
200	40	6	1.5	6.0	2 x100, Matrosov	-	2x75	River Nemunas, Klaipeda-Kaunas

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_S (kg)	l (m)	
1	2	3	4	5
600	1000	2x150, Matrosov	2x100	River Nemunas, Kurshskiy Zaliv (construction material, coal, timber, containers)

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

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_S (kg)	M_S (kg)	l (m)	
1	2	3	4	5	6
220	300+600=900	2x125, Matrosov	1x1,250 (four arms anchor)	50+75/25	River Nemunas, Kurshskiy Zaliv (construction material, coal, timber)

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_B (kg)	l (m)	
1	2	3	4	5	6	7
72	12	1.1	600	2x200, Matrosov	75/100	River Nemunas, Jurbarkas-Kaunas (construction material, coal, timber, containers)
72	12	1.5	1050	2x200, Matrosov	75/100	Klaipeda-Kaunas

ROMANIA

Table 1: Passenger vessels

Displacement	Dimensions			Mean height of superstructure 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	L */	B */	d */	H_M	M_B	M_S	l	
(t)	(m)	(m)	(m)	(m)	(kg)	(kg)	(m)	
1	2	3	4	5	6	7	8	9
14	14.2	4.1	0.4	3.1	2X75, Hall	-	2x30/-	Danube, 30 passengers
60	24.0	4.8	1.2	3.0	2X150, Speck	-	2x30/-	Danube, 25 passengers
59	25.1	5.1	0.8	3.1	2X150, Hall	-	2x50/-	Danube, 60 passengers
61	24.0	4.5	1.5	3.4	2X150, Hall	-	2x50/-	Danube, 120 passengers
85	27.7	6.3	1.0	3.6	2X175, Hall	-	2x50/-	Danube, 90 passengers
226	45.2	7.1	1.5	4.2	2X200, Hall	-	1x50+1x75/-	Danube, 150 passengers
472	61.4	11.3	1.8	6.6	2X350, Hall	-	1x50+1x75/-	Danube, 300 passengers

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_S (kg)	l (m)	
1	2	3	4	5
2x220	2000	2x200, Hall	2x75	Danube, max. 6 km/h
2x295	3000	2x400, Hall	2x100	"
2x310	3000	2x500, Speck	2x75	"
2x600	6000	2x900, Hall	2x75	"
2x655	6000	2x650, Hall	2x75	"
2x880	9000	2x930, Hall	2x75	"
2x925	9000	2x2100, Speck	2x100	"
2x1000	9000	2x1750, Speck	2x75	"
2x1325	12000	2x1500, Speck	2x82.5	"
2x1765	18000	2x1320, Hall	2x75	

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_S (kg)	M_S (kg)	l (m)	
1	2	3	4	5	6
2x650	4000	2x700, Speck	2x1000, Speck	2x100/2x75	Danube, max. 6 km/h

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_B (kg)	l (m)	
1	2	3	4	5	6	7
61.4	11.0	2.0	1000	1x1920, Hall	1x75	Danube, max. 6 km/h
71.0	11.0	1.8	1000	2x600, Hall	2x75	“
70.2	11.0	2.5	1300	1x2000, Hall	1x120	“
71.0	11.0	2.4	1500	1x1000, Hall	1x110	“
70.3	11.0	2.5	1500	1x1980, Hall	1x120	“
76.5	11.0	2.7	1700	1x1250, Hall	1x100	“
76.2	11.0	3.0	2000	1x1920, Hall	1x100	“
76.5	11.0	3.1	2000	1x1920, Hall	1x100	“
86.3	11.0	2.9	2000	1x1740, Hall	1x100	“
89.0	11.0	3.8	3000	1x2100, Hall	1x100	“

RUSSIAN FEDERATION

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_M (m)	M_B (kg)	M_S (kg)	l (m)	
1	2	3	4	5	6	7	8	9
3850	129	16	2.85	13.8	2x1575 of enhanced holding power	1x855 of enhanced holding power	175 and 150/125	Navigational zone 1 (“M” basin)
1390	90.2	13.5	1.66	11	2x1000, Hall	1x500, Hall	125 and 100/75	Navigational zone 2 (“O” basin)
35.0	24.3	3.96	0.68	5.2	2x35, Matrosov, of enhanced holding power	-	60, steal anchor line	Navigational zone 3 (“P” basin)

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_S (kg)	l (m)	
1	2	3	4	5
810	9000	1x1750, Hall	300, steal anchor line	Navigational zone 2 (”O” basin)
1765	15000	2x1250, Hall	125	Navigational zone 2 (”O” basin)
220	2000	1x125, Matrosov	120, steal anchor line	Navigational zone 3 (”P” basin)

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_S (kg)	M_S (kg)	l (m)	
1	2	3	4	5	6
2x331=662	2000	1x1500 and 1x1250, Hall	1x1000, Hall	175 and 175/75	Navigational zone 1 (“M” basin)
2x880=1760	11400	2x1750, Hall	2x1250, Hall	155 and 155/75	Navigational zone 2 (”O” basin)
165.5	300	1x150, Matrosov	1x100, Matrosov	75/75, steal anchor line	Navigational zone 3 (“P” basin)

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_B (kg)	l (m)	
1	2	3	4	5	6	7
85.7	16.5	2.55	2500	2x1000, Hall	150 and 150	Navigational zone 1 (“M” basin)
113	16.5	3.48	5000	2x1250, Hall	100 and 100	Navigational zone 2 (“O” basin)
91.0	15.5	2.6	2000	2x800, Hall	102 and 77	Navigational zone 3 (“P” basin)