(Draft)

Amendments of the Rules

for the Towing Survey of Barges and Tugboats

(Internal opinion inquiry)

May 2021

Hull Rule Development Team

- Main Amendments -

(1) Effective date : 1 July 2022 (Contracts for construction are signed on or after 1 July 2022)

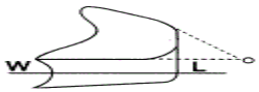
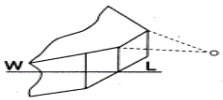
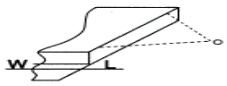
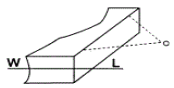
◉ Request from the internal customers

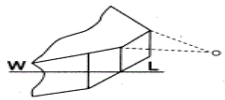
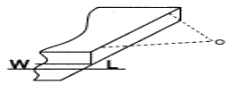
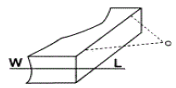
- Consistent with F2 of Table 32 of the Enforcement Regulations of the Ship Safety Act

(1) Effective date : 1 July 2022

(Contracts for construction are signed on or after 1 July 2022

Present	Amendment	Note
CH 3 TOWING ARRANGEMENTS	**CH 3 TOWING ARRANGEMENTS**	
103. Total resistance of towed ships	**103. Total resistance of towed ships**	- At the request of Naveal Vessel Survey Team(21.5.24.)
1. Total resistance of towed ships is to be in accordance with followings and the values may be the requirements for determining the bollard pull of the tugboats.	**1.** Total resistance of towed ships is to be in accordance with followings and the values may be the requirements for determining the bollard pull of the tugboats.	
〈omitted〉	〈same as the current Rules〉	
R_w : wave making resistance as obtained from the following formula	R_w : wave making resistance as obtained from the following formula	
$R_w = 0.014 C F_2 A_2 V^2$ (ton)	$R_w = 0.014 C F_2 A_2 V^2$ (ton)	
where,	where,	
C : resistance coefficient of rough sea condition, 1.2	C : resistance coefficient of rough sea condition, 1.2	
A_2 : hull cross sectional area below the waterline (m^2)	A_2 : hull cross sectional area below the waterline (m^2)	
V : towing velocity (knots)	V : towing velocity (knots)	
F_2 : bow shape coefficient as obtained from the following table	F_2 : bow shape coefficient as obtained from the following table	

Bow shape	F_2
	0.2/0.4
	0.3/0.5
	0.4/0.6
	0.3/0.5
	0.8/1.0

Bow shape	F_2 *(2022)*
	~~0.2~~/0.4
	~~0.3~~/0.5
	~~0.4~~/0.6
	~~0.3~~/0.5
	~~0.8~~/1.0

: Consistent with F2 of Table 32 of the Enforcement Regulations of the Ship Safety Act