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**REGULATION OF THE PORT OF PIRAEUS AUTHORITY SA FOR THE SAFE MOORING
AND UNMOORING OF SHIPS SUBJECT TO TOWING**

ARTICLE I

Scope

The purpose of this Regulation is to regulate issues concerning the safe mooring and unmooring of ships subject to towing which are harboured at the port facilities of Piraeus Port Authority S.A. (hereinafter referred to as PPA) in order to ensure the safety of navigation, crews, port and other PPA facilities and the protection of the marine environment.

ARTICLE II

Scope of application

This Regulation applies to the maritime port zone of the PPA, as defined in par. 3.4 of the Concession Agreement between the Greek State and the PPA dated 24 June 2016, ratified by Law 4404/2016, and concerns port facilities (a), (b), (d), (e), (f) and (g) of par. 3.3 of the above-mentioned Agreement.

This Regulation does not apply to tugboats engaged exclusively in the towing of barges or floating structures for the execution of port works.

ARTICLE III

Institutional framework and other terms of the Regulation

In preparing this Regulation, the PPA mainly took into account:

1. Law 4404/2016 (Government Gazette A 126/8-7-201) "On the ratification of the 24 June 2016 amendment and codification into a single text of the 13 February 2002 Concession Agreement between the Greek State and Piraeus Port Authority S.A. and other provisions"
2. The provisions of Presidential Decree 83/2022 "Regulation regulating issues of tugboats with regard to the technical specifications of design and construction, bollard pull, stability, fire-fighting and anti-pollution equipment and its amendment as article 55 of Law 5116/2024 (Government Gazette 100/A/3.7.2024).
3. Article 6 of decision no. 3131.1/01/93/21.04.1993 of the Minister of Merchant Shipping "Approval of the General Port Regulation no. 1" (B'336).
4. The specificities, spatial planning and characteristics of the port facilities of application..

5. The fact that the 5th Fire Station of the Port of Piraeus, where the Fireboats are docked, is located within the "Cruise" port facility of PPA S.A., with cruise ships mooring at a distance of 0 to 0.5 nautical miles from it.
6. The type, technical characteristics and additional maneuvering capabilities of ships that normally approach the port facility.
7. The need to provide quality port services with a view to the safety of ships operating in the port facility, their crews, port employees and workers, as well as the protection of the marine environment and facilities.
8. Regulation (EU) 2017/352 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 February 2017 establishing a framework for the provision of port services and common rules on the financial transparency of ports.
9. University Studies
10. The actual conditions for the provision of towing services in the maritime port zone of the PPA as well as the commonly accepted rules of shipbuilding science and nautical art and experience.
11. 11. The general institutional framework governing the safe and lawful operation of tugboats and their ship-owning and management companies to achieve the purpose of article 1.

PPA SA, with this Regulation, determines:

The minimum required bollard pull, the minimum number and the minimum specifications of tugs for each type of ship in the following size categories, which are required during mooring and unmooring at port facilities, so that the towing services provided ensure the safety of ships operating at port facilities, their crews, port workers, as well as the protection of the marine environment and the port's infrastructure facilities..

ARTICLE IV **Definitions**

For the purposes of this Regulation:

1. Vessel: Any vessel intended to move on water, for the transport of persons or goods, which requires towing and is serviced at the PPA infrastructure.
2. Tug (P/K): Any vessel constructed or converted for towing in ports or on the high seas or escorting or providing towing assistance to a vessel.
3. Length Overall (LOA): The length between the outermost points of the bow and stern. It is measured parallel to the keel and any projections of the rudder or girder or cantilevers are not taken into account.

4. Length (L) of tug: The length measured between perpendiculars taken at the ends of the highest loaded waterline.
5. Tug stability: The transverse static stability of the tug in the intact condition.
6. Tug stability data: The stability data provided in the form of a manual to assist the Master in the safe loading and ballasting of the tug.
7. Port tug: Any tug which is provided with a certificate of compliance with the legal requirements of the Port Authority for the performance of port towing operations.
8. Port towing work: The service offered by port tugs of any kind, mainly the performance of towing, mooring and unmooring of arriving and departing ships, the provision of watch services.
9. Standby tug: The port tug that remains on standby near a ship which, due to its condition (mechanical failure, rudder failure, etc.) or the type of cargo it is transporting or loading/unloading, is required by applicable legislation or following a decision of the Port Authority to hire a tug for the safety of adjacent facilities or passing ships.

In particular, the terms included in this Regulation are understood as defined in article 2 of Presidential Decree 83/2022 (Government Gazette A 229).

ARTICLE V

Minimum requirements for the operation of port tugs

1. Tugs operating in port facilities under the jurisdiction of PPA S.A. must carry seaworthiness certificates issued by a Government Certification Body and fully comply with the provisions of this Regulation, P.D. 83/2022 and the general institutional framework governing tugboats. PPA S.A. reserves the right to request any required documents/certificates in order to verify that the tugboats operating in its port facilities comply with the relevant requirements of P.D. 83/2022.
2. The towing capacity of each tugboat is proven by the Bollard Pull Test Certificate issued in accordance with the provisions of P.D. 83/2022.
3. Each tugboat operating in the port facilities under the jurisdiction of PPA S.A. must have a towing capacity greater than twenty-five (25) tons.
4. Tugboats serving the petroleum products pier, in addition to the minimum towing capacity requirements included, must have minimum firefighting requirements in accordance with Article 11 of Presidential Decree 83 / 2022.
5. Each tugboat must have at least two (2) propellers for the safety of the tugboat and its crew.
6. Tugboats must be insured with an insurance organization for damages to third parties.
7. In addition to the provisions of the above paragraphs, tugboats and their shipowners or management companies must comply with all the provisions of Presidential Decree 83/2022, article 55 of Law 5116/2024 (Government Gazette 100/A/3.7.2024) and any other provision issued by the Greek authorities.
8. If, in the judgment of the master of the ship, exceptional conditions exist that may endanger the ship and its passengers, the master may determine the number of tugs used and their towing power, in addition to those provided for in article 6.

9. The owners or managing companies of the tugs are required to submit photocopies of the documents and seaworthiness certificates of each tug to the Department of Ship Operations and Berthing, of the PPA, before the commencement of its activities in the port facilities under the jurisdiction of the PPA S.A.

ARTICLE VI

Minimum total required Bollard Pull and minimum number of tugs per category and size of ship during the mooring and unmooring process

- 6.1 The tables below indicate the minimum total required pulling power and the minimum number of tugs required for each type of ship when mooring and unmooring the following ship size categories. A clear distinction is made between commercial/tourist port tugs and tugs in the Shipbuilding and Repair Zone managed by the PPA.
- 6.2 The required minimum number of tugs to carry out a towing operation is determined by taking into account the total required bollard pull depending on the size and type of the ship, the prevailing conditions as well as the operational requirements according to the spatial configuration of the port of Piraeus.
- 6.4 Important note: If auxiliary thruster/s are present, the basic requirement is that the auxiliary thruster/s are operational and can support the mooring and unmooring process. Otherwise, the ship is considered not to have auxiliary thruster/s.

a) Commercial/tourist port towage

A. Bulk Carriers/ General Cargo

I. WITHOUT BOW THRUSTERS

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	30 tons	2	50 tons	2	50 tons
<i>III. (151-200)</i>	2	50 tons	3	75 tons	3	90 tons
<i>IV. (201-250)</i>	2	55 tons	3	75 tons	3	120 tons

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	1	25 tons
<i>III. (151-200)</i>	2	50 tons	2	50 tons	2	60 tons
<i>IV. (201-250)</i>	2	50 tons	2	50 tons	3	100 tons

II. WITH BOW THRUSTERS

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	1	25 tons
<i>III. (151-200)</i>	1	25 tons	1	25 tons	2	50 tons

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	1	25 tons
<i>III. (151-200)</i>	1	25 tons	1	25 tons	2	50 tons

* There are no data available for ship categories with longer lengths that have bow thrusters. In the case of such a ship the calculation should be based on the tables without side thrusters and on the available power of the ship's side thrusters under the responsibility of the master or pilot.

B. Tankers**I. WITHOUT BOW THRUSTERS**

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	50 tons	2	50 tons
<i>III. (151-200)</i>	2	50 tons	2	75 tons	3	75 tons
<i>IV. (201-250)</i>	2	55 tons	2	75 tons	3	100 tons

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	1	25 tons
<i>III. (151-200)</i>	1	25 tons	2	50 tons	2	50 tons
<i>IV. (201-250)</i>	2	50 tons	2	50 tons	3	75 tons

II. WITH BOW THRUSTERS

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	1	30 tons
<i>III. (151-200)</i>	1	25 tons	2	50 tons	2	50 tons

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	1	25 tons
<i>III. (151-200)</i>	1	25 tons	1	25 tons	1	40 tons

* *There are no data available for ship categories with longer lengths that have bow thrusters. In the case of such a ship the calculation should be based on the tables without side thrusters and on the available power of the ship's side thrusters under the responsibility of the master or pilot.*

C. Cruise ships

I. WITHOUT BOW THRUSTERS

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	30 tons
<i>II. (101-150)</i>	1	30 tons	2	50 tons	2	60 tons
<i>III. (151-200)</i>	2	50 tons	2	75 tons	3	120 tons
<i>IV. (201-250)</i>	2	65 tons	3	120 tons	4	190 tons
<i>V. (251-300)</i>	3	85 tons	4	160 tons	4	270 tons
<i>VI. (301-350)</i>	3	110 tons	4	220 tons	5	360 tons

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	2	50 tons
<i>III. (151-200)</i>	1	25 tons	2	50 tons	3	100 tons
<i>IV. (201-250)</i>	1	40 tons	3	100 tons	4	170 tons
<i>V. (251-300)</i>	2	60 tons	3	135 tons	4	250 tons
<i>VI. (301-350)</i>	2	90 tons	3	200 tons	4	300 tons

II. WITH BOW THRUSTERS

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	30 tons	1	30 tons
<i>III. (151-200)</i>	1	25 tons	1	30 tons	2	70 tons
<i>IV. (201-250)</i>	1	25 tons	1	40 tons	2	90 tons
<i>V. (251-300)</i>	1	25 tons	1	40 tons	2	90 tons
<i>VI. (301-350)</i>	1	25 tons	1	40 tons	2	90 tons
<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	30 tons	1	30 tons
<i>III. (151-200)</i>	1	25 tons	1	30 tons	1	40 tons
<i>IV. (201-250)</i>	1	25 tons	1	40 tons	2	60 tons
<i>V. (251-300)</i>	1	25 tons	1	40 tons	2	60 tons
<i>VI. (301-350)</i>	1	25 tons	1	40 tons	2	60 tons

D-E. Car Carriers/Passenger-Car Carriers**I. WITHOUT BOW TRHUSTERS**

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	30 tons	1	40 tons
<i>II. (101-150)</i>	1	35 tons	1	50 tons	2	70 tons
<i>III. (151-200)</i>	2	55 tons	2	75 tons	3	120 tons
<i>IV. (201-250)</i>	2	75 tons	3	110 tons	4	200 tons

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	2	55 tons
<i>III. (151-200)</i>	1	30 tons	2	50 tons	3	100 tons
<i>IV. (201-250)</i>	1	50 tons	2	90 tons	4	175 tons

II. WITH BOW THRUSTERS

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	1	35 tons
<i>III. (151-200)</i>	1	25 tons	2	50 tons	2	60 tons
<i>IV. (201-250)</i>	2	50 tons	2	50 tons	3	100 tons

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-100)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (101-150)</i>	1	25 tons	1	25 tons	1	30 tons
<i>III. (151-200)</i>	1	25 tons	1	25 tons	2	50 tons
<i>IV. (201-250)</i>	1	25 tons	1	25 tons	2	75 tons

F. Container Ships with cargo on deck

I. WITHOUT BOW THRUSTERS

Category	4 Bft		Mooring 5 Bft		6 Bft	
	Minimum number of tugs	Total required bollard pull	Minimum number of tugs	Total required bollard pull	Minimum number of tugs	Total required bollard pull
<i>I. (0-130)</i>	1	25 tons	1	25 tons	1	50 tons
<i>II. (131-180)</i>	1	35 tons	2	50 tons	2	70 tons
<i>III. (181-250)</i>	2	50 tons	2	90 tons	3	120 tons
<i>IV. (251-294)</i>	2	75 tons	3	120 tons	3	170 tons
<i>V. (295-350)</i>	3	100 tons	4	190 tons	4	270 tons
<i>VI-a. (351-400, ≤21000 TEUs)</i>	3	110 tons	4	215 tons	5	360 tons

For ships of 390-400m length carrying more than 21,000 TEUs (Cat.VI-b) and not equipped with side thrusters, the minimum number of tugs and the total force required for their mooring are: 3 tugs and 130 tons for 4 Bft conditions, 4 tugs and 250 tons for 5 Bft conditions, 6 tugs and 420 tons for 6 Bft conditions.

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-130)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (131-180)</i>	1	35 tons	2	50 tons	2	70 tons
<i>III. (181-250)</i>	1	50 tons	2	90 tons	3	100 tons
<i>IV. (251-294)</i>	2	65 tons	3	120 tons	4	150 tons
<i>V. (295-350)</i>	2	90 tons	3	140 tons	4	250 tons
<i>VI-a. (351-400), ≤21000 TUEs)</i>	3	100 tons	3	160 tons	5	340 tons

For ships of 390-400m length carrying more than 21,000 TEUs (Cat.VI-b) and not equipped with side thrusters, the minimum number of tugs and the total force required for their untying are: 3 tugs and 120 tons for 4 bft conditions, 3 tugs and 170 tons for 5 bft conditions, 6 tugs and 400 tons for 6 bft conditions.

II. WITH BOW THRUSTERS

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-130)</i>	1	25 tons	1	25 tons	1	40 tons
<i>II. (131-180)</i>	1	35 tons	1	35 tons	2	60 tons
<i>III. (181-250)</i>	2	45 tons	2	60 tons	3	100 tons
<i>IV. (251-294)</i>	2	60 tons	2	85 tons	3	140 tons
<i>V. (295-350)</i>	2	85 tons	3	120 tons	4	220 tons
<i>VI-a. (351-400, ≤21000 TEUs)</i>	3	95 tons	3	145 tons	4	280 tons

For ships of 390-400m length carrying more than 21,000 TEUs (Cat.VI-b) and carrying side thrusters, the minimum number of tugs and the total force required for their mooring are: 3 tugs and 105 tons for 4 Bft conditions, 4 tugs and 180 tons for 5 Bft conditions, 5 tugs and 340 tons for 6 Bft conditions..

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-130)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (131-180)</i>	1	35 tons	1	35 tons	1	40 tons
<i>III. (181-250)</i>	1	45 tons	2	60 tons	2	80 tons
<i>IV. (251-294)</i>	2	60 tons	2	75 tons	2	95 tons
<i>V. (295-350)</i>	2	75 tons	2	85 tons	3	160 tons
<i>VI-a. (351-400, ≤21000 TEUs)</i>	2	85 tons	2	95 tons	4	250 tons

Για πλοία μήκους 390-400m που μεταφέρουν περισσότερα από 21.000 TEUs (Κατ.VI-b) και φέρουν έλικες πλευρικής έλξης, ο ελάχιστος αριθμός ρυμουλκών και η συνολική απαιτούμενη δύναμη για την απόδεσή τους είναι: 2 ρυμουλκά και 95 tons για συνθήκες 4 Bft, 2 ρυμουλκά και 105 tons για συνθήκες 5 Bft, 5 ρυμουλκά και 300 tons για συνθήκες 6 Bft.

b) Towing in the Ship Repair Zone

Towage operations in the repair area for all categories of ships except container ships have the same requirements in terms of pulling power and minimum number of tugs as those in the commercial port.

As regards container ships, the following applies:

F-2. Containerships without cargo on deck

I. WITHOUT BOW THRUSTERS

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-130)</i>	1	25 tons	1	25 tons	1	30 tons
<i>II. (131-180)</i>	1	35 tons	2	50 tons	2	50 tons
<i>III. (181-250)</i>	2	50 tons	2	70 tons	3	90 tons
<i>IV. (251-294)</i>	2	75 tons	3	90 tons	3	120 tons
<i>V. (295-350)</i>	3	100 tons	4	120 tons	4	170 tons
<i>VI. (351-400)</i>	3	110 tons	4	150 tons	5	220 tons

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-130)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (131-180)</i>	1	35 tons	2	30 tons	2	50 tons
<i>III. (181-250)</i>	2	50 tons	2	50 tons	3	70 tons
<i>IV. (251-294)</i>	2	65 tons	3	70 tons	3	100 tons
<i>V. (295-350)</i>	2	90 tons	3	100 tons	4	150 tons
<i>VI. (351-400)</i>	2	100 tons	3	125 tons	4	200 tons

II. WITH BOW THRUSTERS

<i>Category</i>	<i>4 Bft</i>		<i>Mooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-130)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (131-180)</i>	1	25 tons	1	30 tons	1	40 tons
<i>III. (181-250)</i>	1	35 tons	2	50 tons	2	65 tons
<i>IV. (251-294)</i>	1	40 tons	2	55 tons	2	85 tons
<i>V. (295-350)</i>	1	40 tons	3	75 tons	3	120 tons
<i>VI. (351-400)</i>	1	40 tons	3	75 tons	4	150 tons

<i>Category</i>	<i>4 Bft</i>		<i>Unmooring 5 Bft</i>		<i>6 Bft</i>	
	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>	<i>Minimum number of tugs</i>	<i>Total required bollard pull</i>
<i>I. (0-130)</i>	1	25 tons	1	25 tons	1	25 tons
<i>II. (131-180)</i>	1	25 tons	1	25 tons	1	25 tons
<i>III. (181-250)</i>	1	25 tons	1	30 tons	1	40 tons
<i>IV. (251-294)</i>	1	25 tons	2	50 tons	2	60 tons
<i>V. (295-350)</i>	1	25 tons	2	50 tons	3	100 tons
<i>VI. (351-400)</i>	1	25 tons	2	50 tons	3	125 tons

c) Towing in the Ship Repair Zone - Drydocking

Towing of ships to drydock in the repair area for all categories of ships except container ships, have the same requirements in terms of tugboat pulling power, as those of the commercial port, with the requirement that there are always at least two (2) tugboats for safety reasons.

As for container ships, the provisions of Table F-2 apply. "Container ships without cargo on deck", with the requirement that there are always at least two (2) tugboats for safety reasons.

ARTICLE VII Amendments

- 7.1 This Regulation may be amended at any time, only by decision of the PPA S.A. CEO, following a detailed report by the Competent Department.
- 7.2 Immediately after any amendment, the Port Authority and the companies whose tugboats operate in the port facilities of PPA S.A., shall be immediately informed, so that they may comply within the prescribed deadline.
- 7.3 For any issue related to the implementation of this Regulation and where there is no corresponding provision on this matter, the PPA S.A. CEO shall decide accordingly.

ARTICLE VIII Implementation Date

- 8.1 The application of the present Regulation shall enter into force upon the notification of the Port Authority.
- 8.2 The provisions of this Regulation shall be applied in a transparent, objective and non-discriminatory manner to all tugboat operators wishing to provide services within the Port of Piraeus.
- 8.3 PPA S.A. shall periodically review, every 5 years, the technical requirements applicable to tugboats operating within the Port of Piraeus, considering any new port facilities and the sizes, types and technical characteristics of the ships served in the Port. Following this review, the PPA S.A. CEO may approve amendments to the technical requirements of this Regulation, where required for reasons of operational efficiency, safety or environmental protection.
PPA S.A. shall amend this Regulation as required, in the event of amendments to the applicable legal framework (national and EU).