



# PORT INFORMATION



## PORT OF ALUMAR

The Alumar Port Terminal is located in São Marcos Bay, on the southwest coast of São Luís Island.

Lat: 02° 40.7' S

Long: 44° 21.8' W



**ZYON**  
SHIPPING AGENCY



## 1 Port equipment and shore facilities

The pier is located on the left bank of the Rio dos Cachorros, with two adjacent berths, as follows:

Located to the west of the port, it consists of a concrete platform measuring 486.00 meters in length and 19.60 meters in width, equipped with 18 fenders spaced between 27.00 to 29.00 meters apart, and it is maintained dredged to a depth of 13.00 meters.

### 1.1 System for the unloading of caustic soda and fuel oil

The installation for receiving caustic soda is located at the western end of the pier. It consists of a flange bolted for the coupling of flexible hoses with a diameter of 6 inches and a length of 16 meters, which are connected to the ship. The caustic soda is pumped by the ship's own pumps.

The installation for receiving fuel oil is located at the western end of the pier and consists of two flanges bolted for the coupling of flexible hoses with a diameter of 8 inches and a length of 10 meters, which are connected to the ship. Fuel oil is pumped by the ship's own pumps.

### 1.2 Ship unloader

The Alumar Port Terminal is equipped with two material unloaders, of the 'Clam Shell' type, with a nominal discharge rate of 1500 t/h for one and 2000 t/h for the other.

### 1.3 Ship loader

The alumina ship loader is of the linear type, with a 72-foot conveyor belt and a nominal loading rate of 1500 t/h.

### 1.4 Berths Characteristics

Berth 1 - Located to the west of the terminal, with a length of 290.00 meters and a width of 50.00 meters, and it is maintained dredged to a depth of 13.00 meters (thirteen meters) relative to the DHN reference level (average level of spring low tides).

Berth 2 - Located to the east of the terminal, with a length of 222.00 meters and a width of 50.00 meters, and it is maintained dredged to a depth of 13.00 meters (thirteen meters) relative to the DHN reference level (average level of spring low tides).

## IMPORTANT NOTES

- The maximum draft for ship berthing maneuvers is 11.58 meters, according to the terminal's guidelines.
- Ships entering the terminal to load alumina will have starboard-side berthing as the standard procedure.
- The maximum draft for departure is 11.58 meters, provided that the tidal height at high tide is equal to or greater than 4.8 meters (Alumar tide table - DHN). In the event that the tidal height is less than 4.8 meters, the maximum draft will be subject to consultation.



## 2. ANCHORAGE AREAS

São Marcos Bay presents challenges for anchorage due to its unsuitable bottom conditions, which are exacerbated by the strong currents that can reach up to 6 knots during high and low tides. These factors have led to incidents of vessels losing their anchors and running aground on the numerous sandbanks and shallow areas of the bay. To mitigate these risks, the Port Authority advises captains to ensure that their crews are on duty and properly trained to carry out emergency maneuvers while anchoring their vessels.

**“ Anchorage is not allowed in the maneuver area,  
nor at the entire extension of the port's access channel”**

RECOMMENDED ANCHORAGE AREAS				
NAME	LOCATION			REMARKS
	Points	Lat (S)	Long (W)	
ONE (01)	A	01°58'5	044° 07,0'	Vessels on dispute; Vessels undergoing huge repairs; Vessels over 80,000 DWT and draft of more than 11 meters.
	B	01°55,5	044° 09,0'	
	C	01°49,2'	043°58,4'	
	D	01°51,8'	043°56,5	
NAME	LOCATION			REMARKS
	Points	Lat (S)	Long (W)	
TWO (02)	A	02°02,9'	044°03,4'	For ships with drafts of 20 m or more. Pay close attention to the underwater cables in the west sector of this area.
	B	02°05,4'	044°03,4'	
	C	02°06,0'	044°07,2'	
	D	02°04,4'	044°06,1'	
THREE (03)	A	02°08,3'	044°08,7	For ships with drafts of 20 m or more. Pay close attention to the underwater cables in the west sector of this area.
	B	02°10,9'	044°09,'	
	C	02°12,1'	044°10,0'	
	D	02°12,1'	044°11,0'	
FOUR (04)	A	02°19,2'	044°12,2'	Vessels under 80,000 DWT and draft of more than 11 meters.
	B	02°21,4	044°09,8	
	C	02°24,4'	044°12,8'	
	D	02°27,4'	044°17,2'	
	E	02°26,6'	044°19,4'	
FIVE (05)	A	02°22,2'	044°20,3'	Vessels under 80,000 DWT and draft of more than 11 meters.
	B	02°25,0'	044°21,3'	
	C	02°24,4'	044°22,2'	
	D	02°20,1'	044°20,4'	



### 3.1 Pilot boarding zone

The designated zone for the pilot to embark and disembark from the ship is situated 1.2 miles West of the Medo Island lighthouse or any other location specified in the nautical chart DHN 412.

### 3.2 Pilotage communication

VHF channels 14 and 16

## 4. CHARACTERISTICS OF ACCEPTABLE VESSELS

- SDWT: 76,000 TPB
- LOA: 225 meters
- Beam (Width): 32.31 meters
- Maximum Draft for berthing and departure: 11.58 meters
- Air Draft for Loading Alumina Ships: 14.00 meters
- Air Draft for Unloading Coke/Pitch/Coal/Bauxite Ships: 28.00 meters

## 5. WIDTH OF THE CHANNEL

The minimum width of the access channel is 120 meters in straight sections and 140 meters in curves.

## 6. DEPTH OF THE CHANNEL

The channel is dredged to a depth of 8.00 meters (eight meters) relative to the DHN reference level (average level of spring low tides).

## 7. WEATHER CONDITIONS

Maranhão is subject to multiple tropical climatic patterns, each with varying amounts of rainfall and vegetation coverage. The state has a warm, semi-humid tropical climate, with average temperatures hovering around 26.7°C. The temperature range in the state's capital city, São Luis, and coastal regions fluctuates between 23.4°C (during winter) and 31°C (during summer), creating favorable weather conditions for the Port of Itaqui and surrounding areas.

## OUR FULL STLE

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