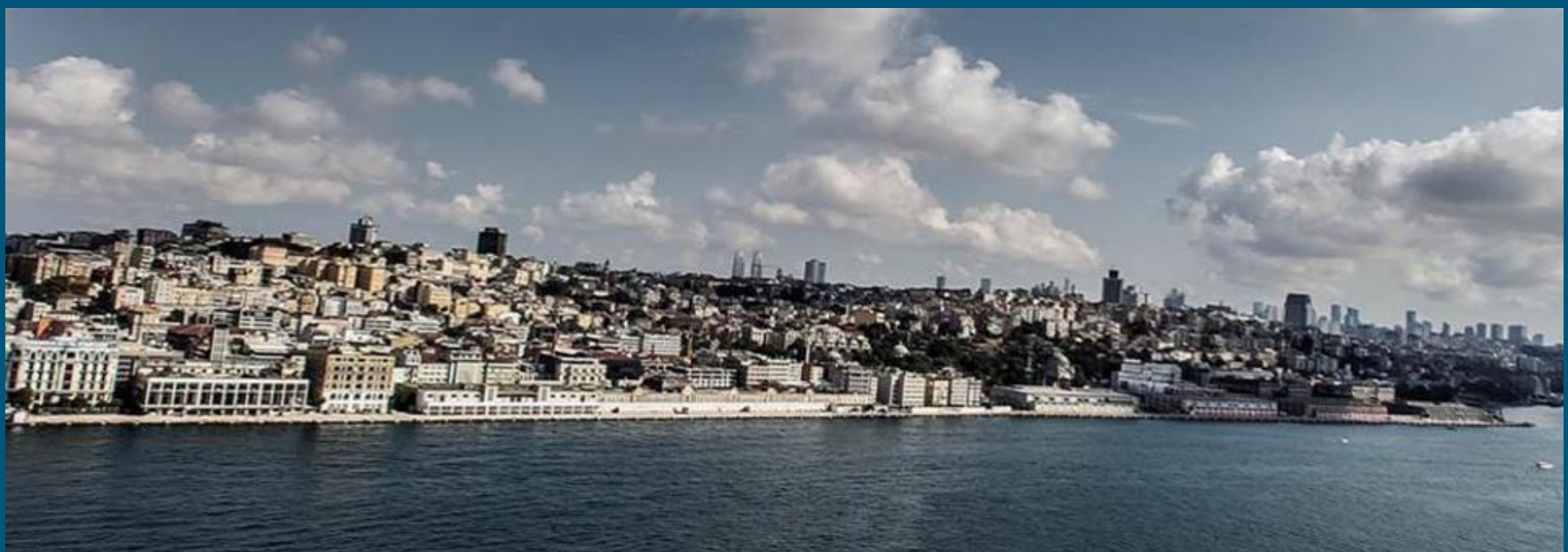


# Bollards & Fenders Specifications



GALATAPORT

# Overview of Bollards and Fenders



## Karakoy Section:

Length: **380 m**

Min. Depth: **8,5 m**

Quantity of Bollards: **27 Pcs (Swl:150 t)**

Quantity of Fenders: **17 Pcs**

## Salipazari Section:

Length: **600 m**

Min. Depth: **10 m**

Quantity of Bollards: **40 Pcs (Swl:150 t) / 4 Pcs (Swl: 200 t)**

Quantity of Fenders: **33Pcs**

# Bollards Specifications

## Salipazari Pier:

Manufacturer: **YILDIZ Metalurji Ltd. Şti.**

Type: **" T " type Bollard**

SWL : **150 Ton / 200 Ton (4 pcs)**

Quantity: **40 pcs 150 ton**

**4 pcs 200 ton (Storm Bollards)**

Distance: **Min: 7,5 m / Max: 20 m**



## Karakoy Pier:

Manufacturer: **YILDIZ Metalurji Ltd. Şti.**

Type: **" T " type Bollard**

SWL : **150 Ton**

Quantity: **27 pcs 150 ton**

Distance: **Min:7,5 m / Max: 20 m**





# Fenders Specifications – Salipazari Pier

## Salipazari Pier :

Manufacturer: **TRELLEBORG**

Type: **Sea Guards Foam Filled Fender**

Size:  **$\phi=240$  cm/ L=430 cm**

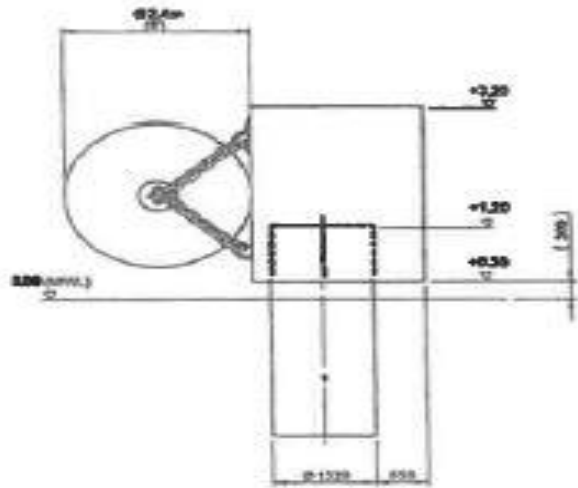
Reaction Force: **1665.00 kN (%60)**

Energy Absorption: **1091 kN-m (%60)**

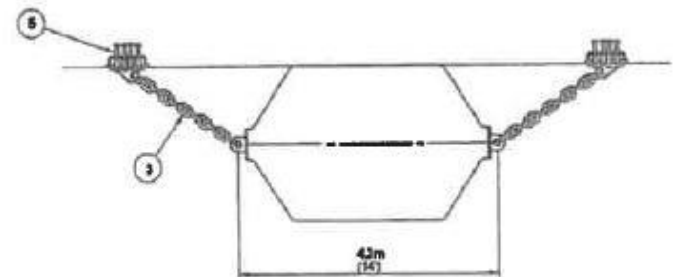
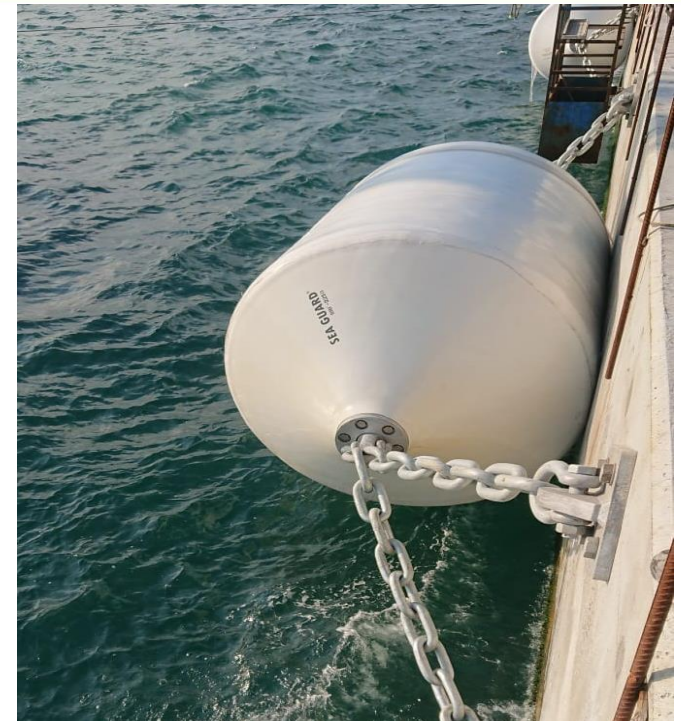
Quantity: **33 Pcs**

Distance: **Every 20 m**

Stand-Off Dist. (Between Pier to Ship): **2,40 m**



Side view of pier with Fenders



Top view of fenders on Salipazari pier

# Fenders Specifications – Karakoy Pier

Manufacturer: **SHIBATA FENDER TEAM**

Type: **SPC -1200H (G2.8)**

Size: **L: 3,21m / W: 2,30m**

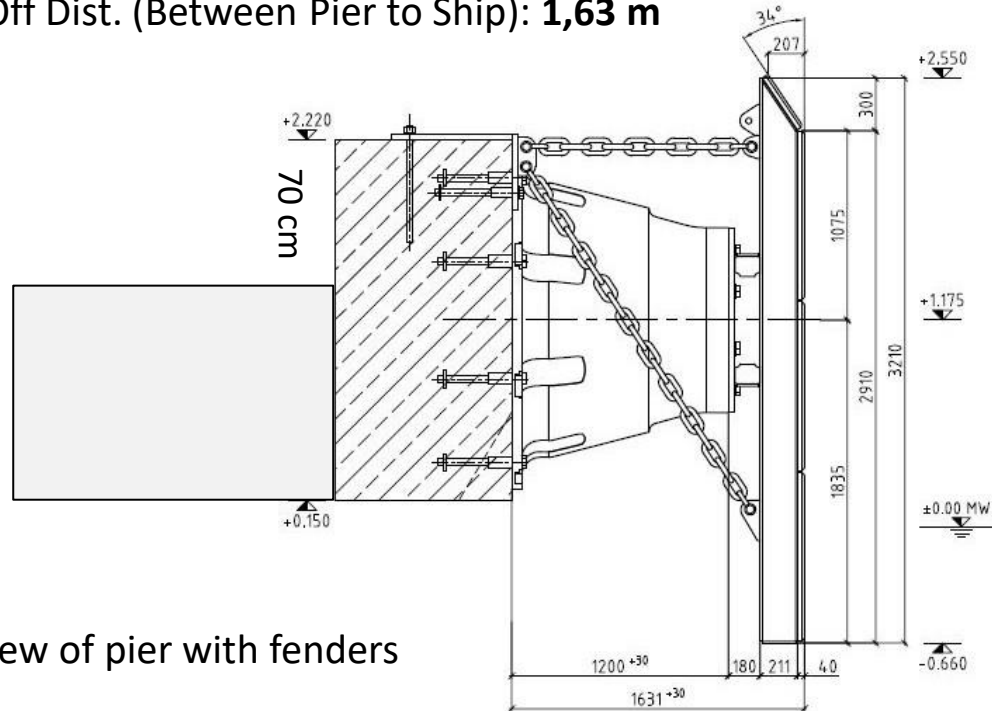
Reaction Force: **1670.00 kN (%70)**

Energy Absorption: **1048 kN-m (%70)**

Quantity: **17 Pcs**

Distance: **Every 21 / 24 m**

Stand-Off Dist. (Between Pier to Ship): **1,63 m**



Side view of pier with fenders

