



# **REVITHOUSSA LNG TERMINAL JETTY AND TERMINAL INFORMATION**

## General Information

Name of Jetty: **Revithoussa**

Name of Terminal: **DESFA LNG TERMINAL “Revithoussa”**

Product handling: **LNG**

Type of terminal: **Receiving and Regasification**

## Operator of Terminal

DESFA S.A. ([www.desfa.gr](http://www.desfa.gr))

Tel: 0030-213-0-885320

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e-mail: [desfalng@desfa.gr](mailto:desfalng@desfa.gr)

Geographical Information Country: **Greece**

Nearest Town: **Piraeus**

Lat: 37°57.6'N

Long: 23°24.2'E

Time zone: GMT +2 hours



## Technical Information

**Storage Tanks:** Two in-ground with **Storage Capacity:** 130,000 m<sup>3</sup>

**Unloaded Rate:** 7,250m<sup>3</sup>/h

**Vaporization Peak Rate:** 1,250m<sup>3</sup>/h

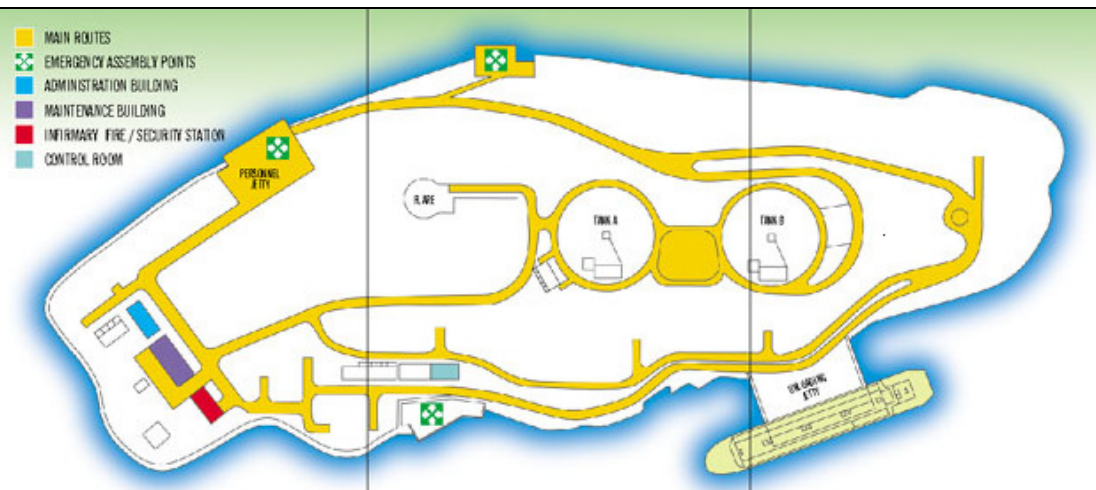
**Vaporization SMSR\*:** 1,000m<sup>3</sup>/h

\*Sustained Maximum Stable Rate

**Vaporization Units:** 4 SCVs (630m<sup>3</sup>/h)

3 ORVs (630 m<sup>3</sup>/h)

## Terminal Layout



## Jetty View



## Weather Data Restriction

### Wind

Wind Speed (Beaufort)	Wind Direction – Wave Height (m)							
	N	NE	E	SE	S	SW	W	NW
6	0.4	0.4	0.7	1.0	1.5	1.4	1.0	0.6
7	0.6	0.6	0.9	1.4	1.8	-	1.4	0.8
8	0.8	0.8	-	-	2.3	-	1.8	0.9

### Tidal Data for Revithoussa LNG Jetty

	Height (m)	Maximum Current at Jetty	
		Knots	Direction
Highest Astronomical Tide	1.0	Currents are reported to be minimal	
Lowest Astronomical Tide	0		
<i>Note:- Tidal heights refer to Chart Datum which is at the level of Lowest Astronomical Tide</i>			

Atmospheric visibility in the area is reduced to less than one nautical mile only on about two occasions per year.

### Weather Restriction

Cargo stoppage	30 knots and raising
Hard arm disconnection	35 knots
Resumption of cargo discharge	20 knots and falling
Early sailing	Above 40 knots

### Berth limits

Depth alongside berth (Lowest Sea Level, LSL=0)	12.7 m
Dock Water Density	1.025 Kg/m <sup>3</sup>
Under Keel Clearance (UKC)	1 m
Normal side of berthing	Port or/and starboard side

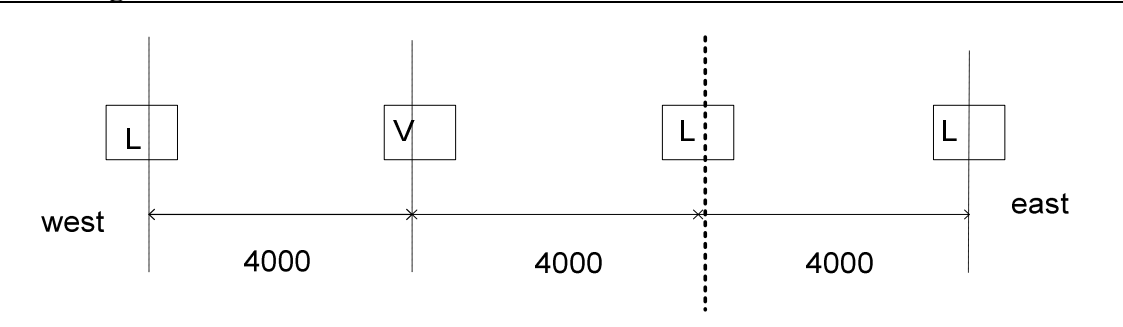
### Vessel Dimensional limits

<b>LOA</b>	<b>300 m</b>
<b>Draft</b>	<b>11.65m</b>
<b>max vessel Deadweight</b>	<b>130,000tn</b>

### Vessel Manifold Restrictions

Ship side to flange face	Min: 2.6 m
Spacing Between Manifold Centre	Min: 1.8 m
Manifold height above chart datum	Max: 24m Min: 8.55 m

### Loading Arms data

	
<b>Number of Liquid arms</b>	3
Flange spec	2 x 12" 150ASA FF 1 x 16" 150ASA
Flow Rate	2 x 1,750 & 1 x 3,750 m <sup>3</sup> /h
Total flow Rate	<b>7,250 m<sup>3</sup>/h</b>
<b>Number of Vapour arms</b>	1
Flange spec	1 x 12" 150ASA FF
Connection for all arms	Hydraulic Coupler QC/DC/ PERC
Packing for all 12" arms	Graphite Gasket Type
Reducers Available length 600mm	3 (16"x 12") 3 (12"x 12") 3 (12"x 8")

## Berthing

**Tugs required:** Up to 4 for berthing

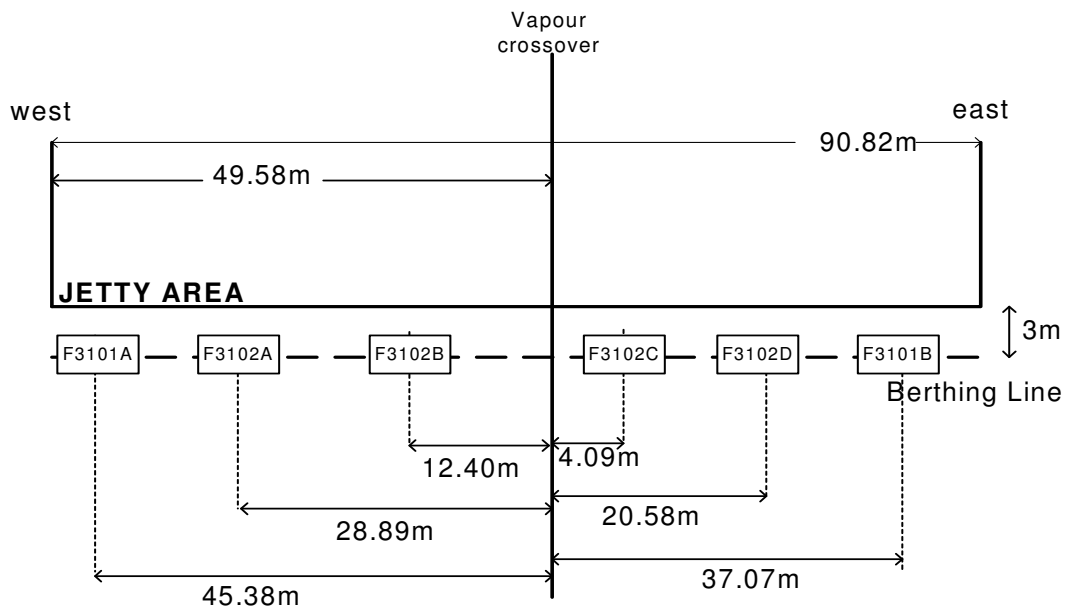
Up to 3 for unberthing

**Berthing Velocity:** max 0.10 m/sec

## Fenders Data

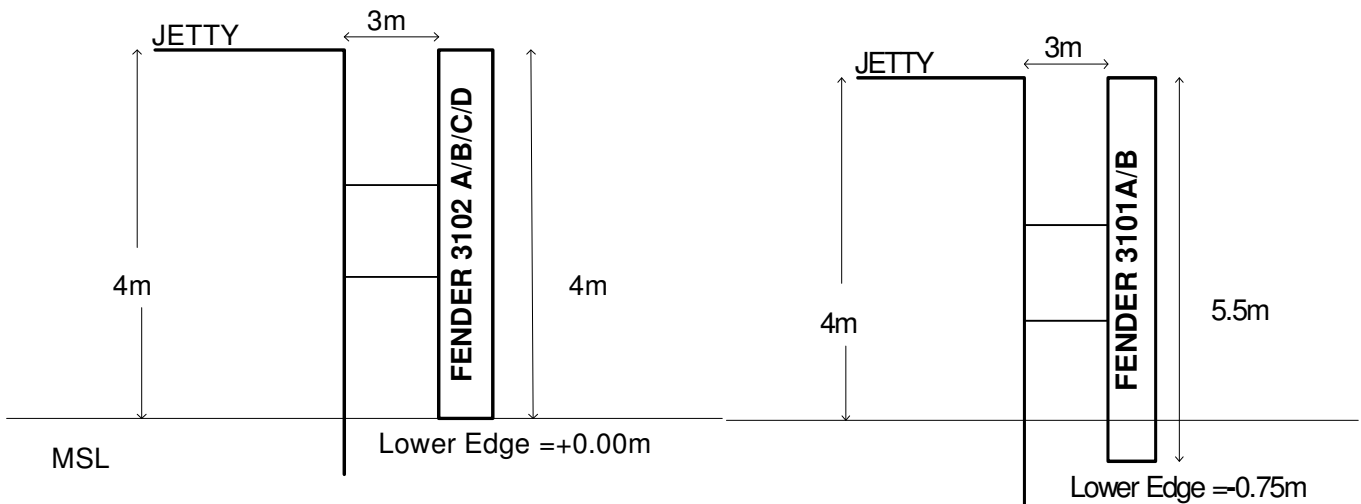
**F3101A/B (unit type 2000H \* 2600L)**

**F3102A/B/C/D (unit type 2000H \* 1500L)**



**Contact area 5m x 4m**

**Contact area 6m x 5.5m**



## Mooring data

Mooring Dolphin (MD) Type QRH, 3 hooks / 6 sets (3x100)

Breasting Dophine (BD) Type QRH, 2 hooks / 4 sets (2x60)

**Jetty Mooring Arrangement (looking to seaward – east to west)**

Mooring Set	MH3106	MH3105	MH3104	MH3110	MH3109	MH3108	MH3107	MH3103	MH3102	MH3101
Number of Hooks	3	3	3	2	2	2	2	3	3	3
Rating (tonnes)	300	300	300	120	120	120	120	300	300	300
Height above MSL (m)	4	4	4	4	4	4	4	4	4	4
Distance from Vapour Return (m)	163	112	63	39	22	29	47	73	123	173
Distance from Berthing Line (m)	43	44	47	5	5	5	5	42	50	42

## Emergency Shut Down (ESD)

Type	Electric
Shore Connector type	AF-1016-621PL-22 (37 pins , male)
Cable Length	50 m
ESD Valves closure time	30 sec

## ESD PIN Configuration

Pin 1	Not connected
Pin 2	
Pin 3	High High Level TankA (optional)
Pin 4	
Pin 5	Telephone Line (Hot Line) 16/40 V DC IS line
Pin 6	
Pin 7	Telephone Line 1 (16/40 V DC IS line)
Pin 8	
Pin 9	Interphone Line 2 (No IS Line)
Pin 10	
Pin 11	High High Pressure of Tanks (optional)
Pin 12	
Pin 13	ESD from SHORE to SHIP (Volt free contact on Shore Side closed in healthy condition )
Pin 14	
Pin 15	ESD from SHIP to SHORE ( Volt free contact on Ship Side closed in healthy condition )
Pin 16	
Pin 17	Continuity check linked on ship
Pin 18	
Pin 19	Not connected
Pin 20	Not connected
Pin 21	Not connected
Pin 22	Not connected
Pin 23	ESD from Shore to SHIP (Volt free contact on Shore Side closed in healthy condition )
Pin 24	
Pin 25	Not connected
Pin 26	Not connected
Pin 27	Not connected
Pin 28	Not connected
Pin 29	High High Level Tank B (oprional)
Pin 30	
Pin 31 to 37	Not connected



## Gangway

Position of Gangway: **36m** west of vapour centreline

Gangway Details	
Gangway type	Tower
Gangway manufacturer	Montalev
Gangway width	0.75 m
Method of quick retraction	
Deck landing point (referenced to vapour return)	36 m (west)
Free area required on ship's deck	2.0 x 2.0
Working range at ship's rail:-	
Maximum height above chart datum	22.6 m
Minimum height above chart datum	3.3 m
Fore and aft slew allowance	12° (2.5 m)



## Other systems

- **Bonding cable**

Position : 15m east of vapour centerline

Cable Length: 50m

Connector Type: GD-1024-60PL-22 (480V/100Amps) or screw type

- **Communication System (mobile)**

UHF hand held radio, **channel 2**

VHF hand held radio, **channel 68**

- **Berth Fire Fighting System**

Fire extinguisher with dry powder	Upper Platform
Water deluge with springlers	Middle Platform
Sea water, high expansion foam, fire extinguiser with dry powder, water deluge	Lower platform
Hydraulic monitor sea water	Jetty tower
Fire Connection	International Pipe Connection 2" ½ FF/ 8 bolts and nuts (required only 4 bolts& Nuts)

- **Utilities**

**Liquid Nitrogen** *Flange spec: 2" 150 ASA, 4 bolts*

**Fresh Water** *Coupling Quick connector*

*Flow spec: 2 m<sup>3</sup>/h at 6.5 barg*