

# combifloat

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## Combifloat C-1500 SELF ELEVATING PLATFORM FOR PDVSA

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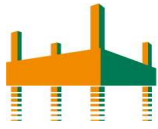


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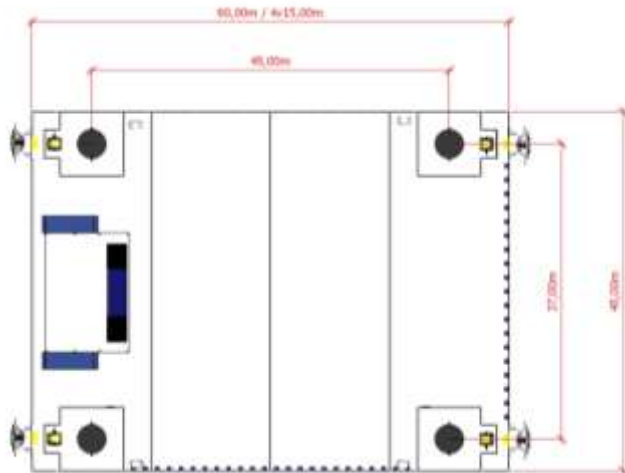
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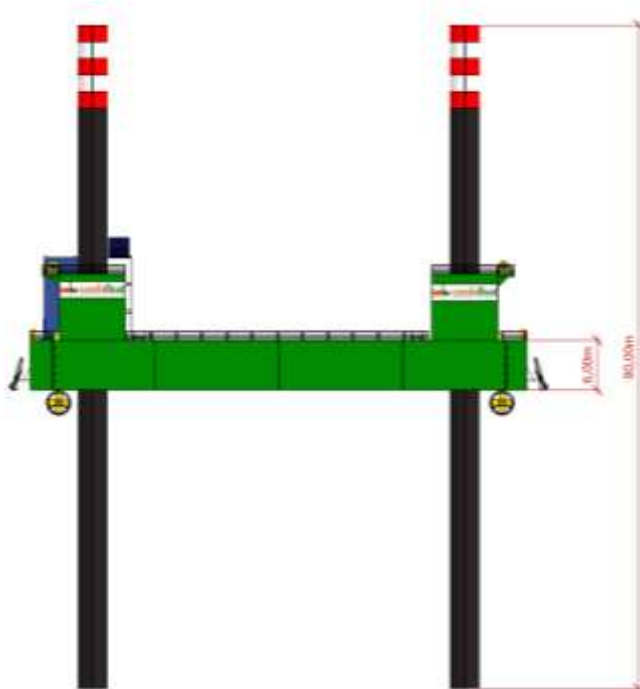


## C-1500 SELF ELEVATING PLATFORM

Top view



Side view



### General

Type	C-1500 Modular Self Elevating platform
Class	Bureau Veritas

### Main dimensions

Length	60,0 m
Breadth	45,0 m
Depth	6,0 m
Draft maximum	4,6 m
Free deck area	2200 m <sup>2</sup>

### Pontoon dimensions

Length	45,0 m
Breadth	15,0 m
Depth	6,0 m
Draft maximum	4,6 m

### Loads

Variable load	1750 mT
Deck strength	15 – 25 mT/m <sup>2</sup>

### Jacking system

Leg length	80,0 m (4 parts of 20,0 m)
Leg diameter	3,6 m
Type	Rack & Pinion
Jacking speed	1 m/min
Design capacity	1250 mT/Leg
Holding capacity	2450 mT/Leg

### Mooring System

Winches	4x 500m, 30mT pull
Anchors	4x Delta Flipper 5 mT

### Installation conditions

Maximum H <sub>s</sub> for leg touching (depending on soil conditions)	1,5 m
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### Operational conditions

Water depth	45,0 m
Maximum wave height	7,5 m
Wind speed	20,0 m/s
Air gap	13,0 m

### Survival conditions

Water depth	45,0 m
Maximum wave height	15,0 m
Wind speed	35,0 m/s
Air gap	13,0 m

### Accommodation

Capacity	20 people, double cabins
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### Remark

Given the mild wave conditions at Lake Maracaibo, the variable load has been increased to 1750 tons.

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Contrary to the current Combifloat line of platforms, this platform will consist of only 4 floats, which, because of their size, need to be transported over water. The philosophy of the design is such that with minimum aid of external (large) cranes the platform can be assembled in floating condition and the legs being erected.

The 4 floats can easily being coupled by a male – female connection, whilst in floating condition.

## Main characteristics

- Outer dimensions of the floats approx. L x B x H = 45 x 15 x 6m
- Outer dimensions of platform approx. L x B x H = 60 x 45 x 6m
- Leg length of approx. 80m (consisting of 4 parts)
- Cylindrical legs with rack and pinion jacking system
- Electrical drive system
- 60Hz, 690V generating power, 440 and 230V sub systems
- Total installed power of 4000 kW, divided over the aft and forward float
- Propulsion (2 retractable L-drive thrusters – 500kW) for infield moves. DP1 system.
- Uniform deckload of total 1500 ton.
- Local deckload of 15t/m<sup>2</sup>, special central area of max 25 t/m<sup>2</sup> (e.g crawler crane, suitable for 800 T track load)
- Floats are internally accessible
- Legs are provided with spud cans with water jetting system
- Compliancy with ATEX Class I div II requirements
- Helideck for Dolphin AS365N3 helicopter
- Autonomy of at least 10 days

## Classification

Classification Society ; Bureau Veritas

The proposed Class notation will be; I ✕ Hull ✕ Mach Offshore Self Elevating Unit, Special Service, Construction Unit, Propulsion Assisted.

The flag will be Belize.

The following IMO conventions will apply;

- International Convention on Load Lines
- International Convention on Tonnage Measurements
- SOLAS
- MARPOL I, IV, V, VI, VII, VII IEE
- Maritime Labour Convention MLC 2006
- MODU code

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The platform is suitable for working in 45 to 50 m water depth (subject to bottom conditions and leg penetration)

The platform's machinery and equipment will be designed to operate under the following conditions;

- Min seawater temp.                      -1 °C
- Max seawater temp.                     34 °C
- Min outside air temp.                 -20°C
- Max outside temp.                     45°C @ 95% RH

## Layout

The layout will be characterized by;

- 4 floats with identical main dimensions
- The floats are oriented athwarts
- In the basic configuration the aft float will have a 20p accommodation on top
- The accommodation will be modular, having an airgap of 0.8m between the float and the accommodation
- The aft float will accommodate (at least);
  - One ER with 2 x 500 kW and 1 x 1000 kW powerpacks, pumps, sewage plant, fresh water maker and other small equipment
  - One switchboard room
  - Two rooms to accommodate the VFDs (as close as possible to each jacking house)
  - One HVAC room
  - One central control room (CCR)
  - One thruster room
  - Two preload tanks
  - One fresh water tank
  - One sewage tank
  - Fuel oil tank
  - Access to the couplings
- The two middle floats will remain as empty as possible, but comprise;
  - Bilge system
  - Some lighting
  - Access to the couplings
- The forward float will accommodate (at least);
  - One ER with 2 x 1000 kW powerpacks, pumps and other small equipment
  - One switchboard room
  - Two rooms to accommodate the VFDs (as close as possible to each jacking house)
  - One slave control room
  - One thruster room
  - Two preload tanks
  - Fuel Oil tank
  - Access to the couplings
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- The aft and forward floats are interconnected via a watertight cable duct for power (max 500 kW) and signal cabling

## Deck Equipment

The platform is provided with:

- 20p accommodation with platform control room on top
- 20p fully enclosed lifeboat with davits
- Life rafts on either side
- 2 cranes with SWL of 25t@20m with manriding facility
- 4 jacking houses with local operation of the rack&pinion system

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