

Dimitrios Th. Armenis

Naval Architect & Marine Engineer N.T.U.A.
Mechanical Engineer N.T.U.A
Certified Designer of Public Floating Transport Media & Electromechanical Projects
Certified Energy Surveyor

120 Asklipiou str. - 11471 Athens - Greece - Tel. 210-6452439

With regard to Floating Jetty Tender, we declare that the HYDROFLOAT floating platform has the following characteristics:

- **Freeboard in Light Weight Condition, without Load¹ : 0,370m**
- **Each Module is capable of a load of 300 kg/m², in the maximum permitted, loading condition of 0,08m min freeboard, for floating platforms.**

1

Freeboard in Light Weight Condition (Without Load)

Module (Cube) Weight: 7kg
Module Dimensions:

Length L : 0,50m
Breadth B: 0,50m
Depth D: 0,40m

For a single module:

Light Weight Draft $T_{LWT} = LWT / (\gamma \times L \times B) = 7 / (1.025 \times 0,50 \times 0,50) = 0,03m$

Freeboard in the Light Weight Condition:

$FB_{LWT} = D - T_{LWT} = 0,40 - 0,03 = 0,37m$

2

Max Surface Loading with min Freeboard

For the minimum freeboard $FB_{min} = 0,08m$:

Max Permissible Draft: $T_{max} = D - FB_{min} = 0,40 - 0,08 = 0,32m$

Max Permissible Displacement Δ_{max} :

$\Delta_{max} = \gamma \times L \times B \times T_{max} = 1.025 \times 0,5m \times 0,5m \times 0,32m = 82kg$

Max Permissible Loading Q_{max} : $Q_{max} = \Delta_{max} - LWT = 82 - 7 = 75kg$

Max Surface Loading q_{amax} :

$q_{amax} = Q_{max} / A = 75t / 0,25m^2 = 300kg/m^2$

Dimitrios Th. Armenis