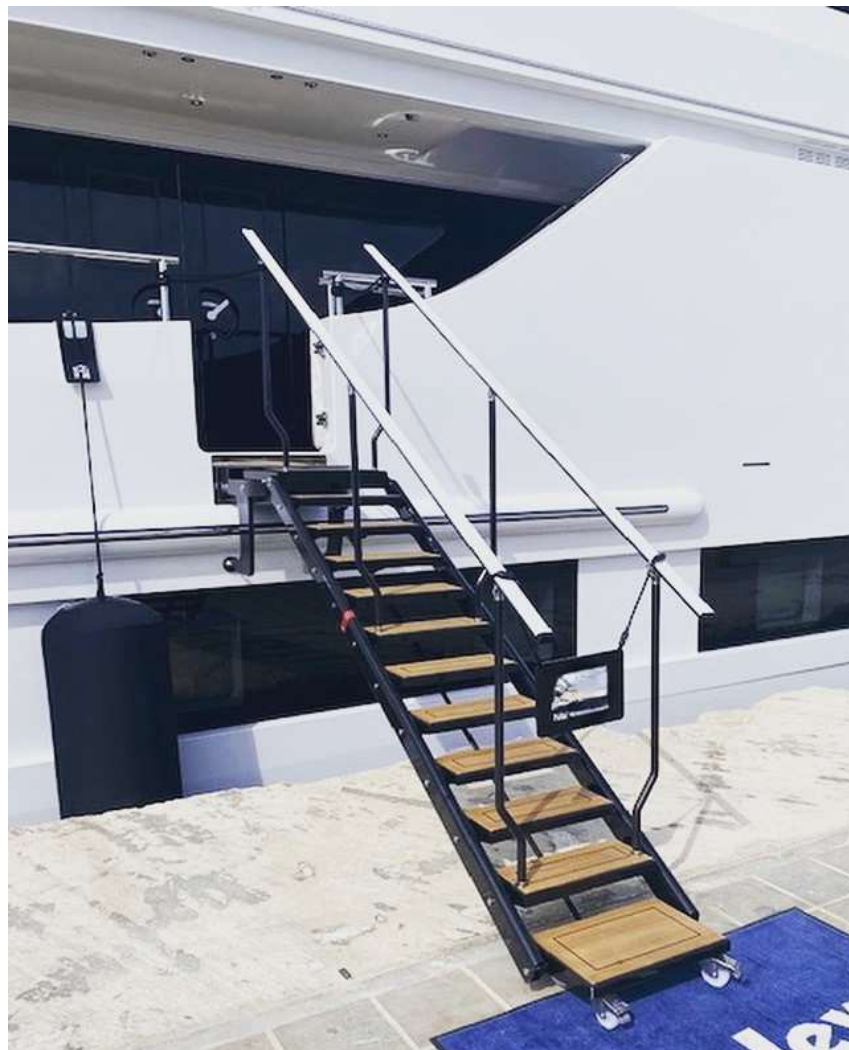


# CARBON EQUIPMENT Ltd Removable boaring Stair

## *BOARDING STAIR - DOCKING TYPE* TECHNICAL SPECIFICATION



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## MAIN DIMENSIONS & FEATURES

EQUIPMENT	Removable Boarding Stair		
MODEL	E2.0 MIDRANGE	E2.1 SUPERYACHT FIX	E2.3 SUPERYACHT SWIVELLING
Top Platform	Fix Type	Fix Type	Swivelling Type
Max width	520mm	Step width + 160 mm	Step width + 160 mm
Top platform length	220 mm	350 mm	1090 mm
Lower platform length	270 mm	350 mm	350 mm
Number of steps	5 to 7	7 to 12	7 to 12
Step length	220 mm	220 / 235 mm	220 / 250 mm
Step width	420 mm	420 / 500 mm	420 / 550 / 650 mm
Swivelling working angle	NDT	NDT	-90° / +90°
Pivoting working angle	-35° / -70°	-35° / -70°	-35° / -70°
Pivoting limits	0° / -80°	0° / -80°	0° / -80°
Step to step vertical distance @60°	250	(220)212 / (235)225 mm	(235)225 / (250)238 mm
Handrail standard	Optional 2 rounded & rope	2 rounded stanchion & rope	4 rounded stanchion & rope
Handrail height	750 mm	1000 mm	1000 mm
Handrail width	Straight stanchion , W=420mm	100mm larger than step width	100mm larger than step width
Max working load	120 Kg	200 Kg	200 Kg

Note:

All dimensions and finishing of Superyacht models may be customized following customer request.



E2.0 Midrange Type



E2.1 Superyacht Fix type



E2.3 Superyacht Swivelling Type

## STAIR'S CONSTRUCTION

The whole structure construction is made out of carbon fibre and epoxy resin.

Laminate is consolidated in autoclave and cured at high temperature (>90°C).

For the best result, every part is CNC machined and assembled in steel template.



Fitting are stainless steel AISI 316L , while bearing and protection are made out of POM-C and natural Nylon.

## FINISHING

Standard finishing is shiny C-LOOK for the whole structure.

Transparent paint has ceramic features with UV protection.

Lower face of steps and platforms are black matt painted without fairing, so to keep construction as light as possible.

Different colour or matt C-LOOK finishing is available on demand.



## TOP PLATFORM & ATTACHMENT SYSTEM

Stair's top platform shall be connected to the yacht side.

Standard system for all models is :

- Nr.2 stainless steel flanges to be bolted on yacht side
- The adjustable bracket that touching yacht side keep the platform horizontal.



On demand is available the cover system.

In this case a carbon made carter, shaped in the same way of hull side/gate, will be bolted on top of yacht toe-rail.

The carter, provided with neoprene protection on the inner face, will include the needed flanges to link the stair.



All the system are provided with removable brackets, for an easier storage.



*Removable pin details*

Brackets are provided with adjustable protection



*Protection details*

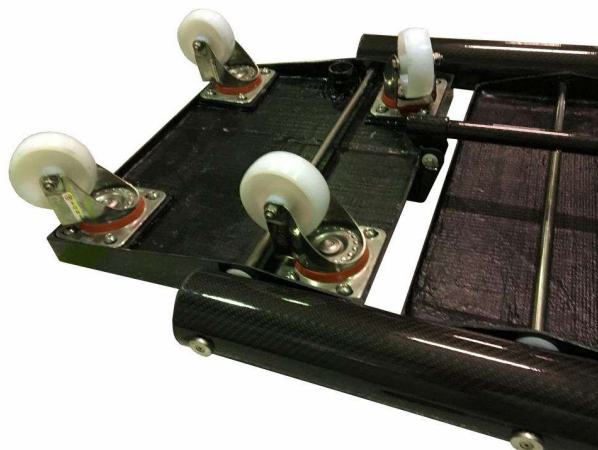
## SWIVELLING PLATFORM

The swivelling platform, available for the E2.3 model only, is a platform able to swivel  $-90^\circ / +90^\circ$  from yacht side.



Step height between fix platform and swivelling platform is in agreement with the chosen walkway coverage thickness.

Lower platform is provided with nr.4 swivelling wheels. In case of the swivelling platform, two wheels are provided with brake so to stop stair rotation.



## WALKWAY COVERAGE

Steps and platforms may have different walkway coverage:

1. No skid paint – basic option
2. Teak plank – on demand
3. Teak plate – on demand.



*No skid paint*



*Teak plank*



*Teak plate*

## HANDRAIL SYSTEM

Basic handrail system is obtained with rounded stanchions made out of carbon fibre and a soft rope handrail (D=10mm).

A rigid option is available on demand.



Both solutions are provided with the lock system on each stanchion.

The rigid solution may be provided with three life line each side, lines to be directly connected to the yacht.

Upper life line shall be connected to the pulpit by fixing its splice to handrail inboard end.

Life line shall run through the stanchions and shall be fixed to the yacht

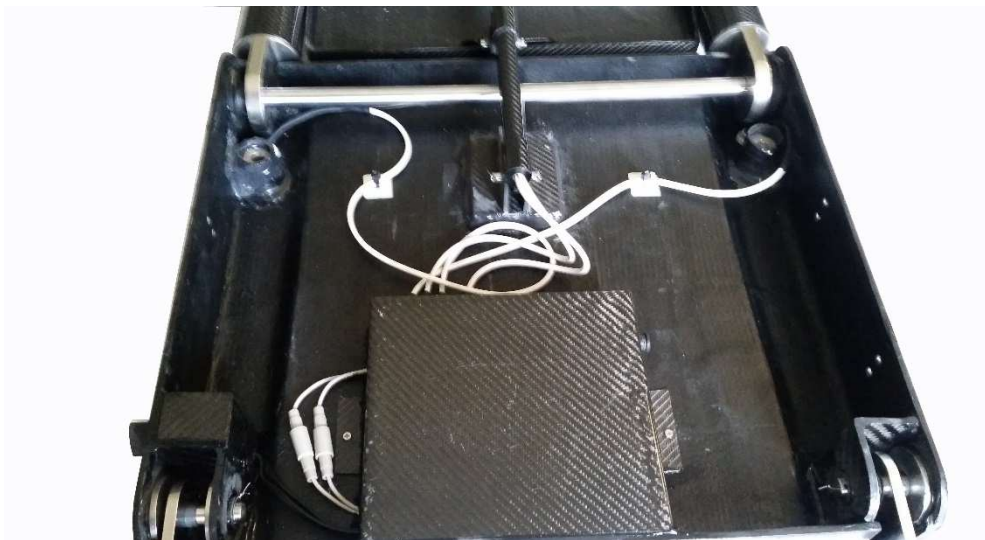


## LIGHT SYSTEM

Nr.2 spot light may be placed on the platform and/or on the steps.



A 12/24V e/plug will be hidden in the fix platform for both cases.



A battery option may be provided with nr.4 spot light only.

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