

SURF SIMULATOR

Risk Assessment



Description:

A mobile single passenger 'non spinning' Simulator

Construction:

Motion base unit:

An Electro mechanical motion system, offering a forward and reverse undulating motion.

The simulator is controlled by a PLC via inverters, which is all housed in a robust GRP (Glass Re-enforced Plastic) control console.

Control console:

Conforms to all aspects of EN60-204 Electrical Equipment of Machines and IEE Wiring Regulations 16th edition BS.7671

The control console has a main isolator switch and an emergency stop button, with a key lock facility, and has internal RCD trips fitted.

Ride attachments:

All sub frames are constructed from 25mm box section, which are completely covered by a shell constructed from GRP.

Inflatable mattress:

The inflatable mattress has been manufactured from a flame retardant PVC that has been tested to BS.5438 test 2a and is inflated constantly using a 0.75kw centrifugal fan.

Operation:

Using the joystick on the control console, select either forward or reverse, and at the same time gradually increasing the speed of the simulator using the speed dial.

The ride will not start until the joystick and speed dial is activated.

The ride will not stop unless the joystick is released or the emergency stop button is pressed.

Risks:

- The operator not adhering to the instructions outlined in the manufactured safe operation manual.
- Not stopping the ride immediately.
- Allowing spectators to stand, lean, or sit on the inflatable mattress during use.
- The operator fails to watch the movements of the rider for the duration of the ride.
- Allowing more than one person on the simulator during operation.
- Allowing riders on the simulator who are under the influence of alcohol or drugs.

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