

## TEST CERTIFICATE

**CLIENT:** TÜV SÜD Product Service  
Octagon House  
Concorde Way  
Fareham  
Hampshire  
PO15 5RL

**CERTIFICATE NUMBER** 21507/01 Issue 01

**CUSTOMER ORDER NUMBER** 2600015142

**TÜV REFERENCE** 75950185 - 121000

**PAGE 1 of 2**

**DATE OF RECEIPT**

22 February 2021

**EQUIPMENT SUPPLIER**

Daniamant Ltd

**TEST ITEM(S)**

| Description                               | Model N° | Serial N° | PTL ID |
|---|----------|-----------|--------|
| Liferaft Internal and External Light Unit | RL7      | 31        | 33571  |

**TEST SPECIFICATION / ISSUE**

BS EN 60529:1992 +A2:2013 IP6X Category 1

**DATE OF TEST**

Test # 1: 25 February 2021  
Test # 2: 23 March 2010

**TEST(S) APPLIED**

Protection Against Solid Foreign Objects, Dust-Tight

The EUT consisted of two components, an battery box/controller with internal light and an exterior light hardwired together by a cable. Prior to the testing both controller and exterior lights were function tested as per the customers instructions by activating the lanyard. The units performed satisfactorily; the exterior light repeatedly flashed at a rate of approximately 1 per second and the control box LED indicator remained continuously on.

Initially the test items were examined for apertures and openings allowing penetration of a 1mm diameter probe applied with a force of 1N.

During test # 1 a 19.9 mbar vacuum was applied to the interior light only and the air flow was below measurable, therefore a test period of 8 hours was required. The external light was not tested.

During test # 2 a 19.9 mbar vacuum was applied to the exterior light only and the air flow was below measurable, therefore a test period of 8 hours was required. The Battery/Control Enclosure was not tested. The test conditions were as follows:

The test conditions were as follows:

Dust Grade: BS EN 60529 Talc Test Dust  
Concentration: 2 kg/m<sup>3</sup>  
Duration: 8 hrs  
Temperature/Humidity: Test # 1: 18.4°C / 54.2% rh  
Test # 2: 17.6°C / 61.3% rh

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### RESULT(S) OF TEST

#### IP6X

There were no apertures permitting entry with a 1mm diameter probe when using a force of 1N on either unit under test.

On completion of the test excess dust was removed by light brushing, no conspicuous damage was noticed on the exterior of either unit.

The units were powered prior to internal inspections, and the function checks are reported as satisfactory when the lanyard was activated. The exterior light repeatedly flashed at a rate of approximately 1 per second, the interior light LED indicator remained continuously on.

As per the customers instructions the interior light and external light were opened for inspection. This involved a destructive method of breaking the weld line of the clear top of the EUT's. There was no visible dust ingress into the battery/control box and external light.

The Liferaft Internal and External Light Unit meets the requirements of BS EN 60529:1992 +A2:2013 IP6X Category 1.

Approved by .....  
Greg Spicer, MEng  
Managing Director  
Date: 12 April 2021