



TÜV Product Service Ltd, Octagon House,
 Concorde Way, Segensworth North, Fareham,
 Hampshire, United Kingdom, PO15 5RL
 Tel: +44 (0) 1489 558100
 Website: www.tuvps.co.uk

COMMERCIAL-IN-CONFIDENCE

TEST HOUSE CERTIFICATE

CLIENT	Protechnic Ltd Unit 1, West End Trading Estate Blackfriars Road Nailsea, Bristol BS48 4DJ	DOCUMENT	75912592 THC 05 Issue 1
		CLIENT'S ORDER NUMBER	4586

INCOMING RELEASE NOTE	Not released
DATE OF RECEIPT	3 February 2011
EQUIPMENT UNDER TEST (EUT)	EXO Flight Case
MODEL/PART NUMBER(S)	EXO
SERIAL NUMBER(S)	Identified as EUT 2
TEST PLAN/ISSUE/DATE	N/A
TEST SPECIFICATION/ISSUE/DATE	IEC 60529 Edition 2.1 2001-02
DEVIATIONS FROM THE STANDARD	None
DATE OF TEST	11 February 2011
TEST(S) DESCRIPTION	<u>IPX6 Water Test</u>

TEST(S) APPLIED

EUT to be acclimatised at ambient laboratory conditions for a minimum of 16 hours.

The enclosure to be sprayed from all practical directions with a stream of water from a standard test nozzle as described below:

- Internal diameter of nozzle : 12.5 mm
- Delivery rate approx 1 bar, adjusted to give a flow rate of 100 litres/minute (+/- 5 %)
- Test duration : 3 minutes
- Distance from nozzle to test surface : 2.5 to 3 metres
- The water temperature should not differ by more than 5°C from the temperature of the test sample
- It is the responsibility of the customer to specify the amount of water which may be allowed to enter the cabinets and the details of a dielectric strength test, if any.

RESULT(S) OF TEST

This certificate relates only to the actual item tested.

Initial Inspection: The customer stated that the case was in good condition to begin the test. The top lid was removed and relocated without problem, then resecured for the test. The operation of the EUT latch mechanisms was satisfactory. EUT dimensions: 592mm (W) x 393mm (D) x 277mm (H). Mass (gross weight): 9.0kg.

The water test was completed successfully for this single flight case.

Final Inspection: Upon completion of the testing the Equipment Under Test (EUT) was visually inspected both internally and externally. The top lid was removed and relocated without problem. The operation of the EUT latch mechanisms was satisfactory. There was no noticeable binding of the moving parts, namely the latch mechanisms. No pre-test and post-test EUT weight measurements were taken. This inspection showed water ingress into the base of the flight case (approximately 50ml). No damage or degradation was observed to the remainder of the test piece.

Approved by 

R M Thompson
 Authorised Signatory



Date 26 April 2012
