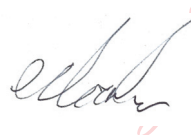



Date Samples Arrived:	03/05/2017	Customer Name and Address:	Dick Clark
Date Testing Started:	05/05/2017		Beka Associates Ltd
Date Testing Completed:	08/05/2017		Old Charlton Road
Customer Purchase Order No:	027484		Hitchin
			SG5 2DA

Description of Test Samples:	Identity/Serial Numbers:
1 off BA495 Stainless Steel Rear Cover fitted to 1 off fixture plate	Sample 1

Test(s) Performed in the following order unless otherwise specified:	In Accordance With:
IP6X Dust Ingress	UKAS BS EN 60529:1992 + A2:2013
IPX6 Water Ingress	UKAS BS EN 60529:1992 + A2:2013

Report Summary:
<p>The sample content was subjected to the tests detailed above and on pages 3 and 5; the details and methodology of which are contained in this test report.</p> <p>The sample underwent a pre-test inspection to check for abnormalities or damage, no obvious signs of damage were noted to the sample.</p> <p>A visual inspection for the check of ingress in relevance to each test was carried out on completion of each test regime; the sample exhibited no obvious signs of dust ingress upon completion of the IP6X dust ingress test. No obvious signs of water ingress were noted to the sample upon completion of the IPX6 water ingress test.</p> <p>Upon completion of each test regime, the samples fixture bolts were torqued to 120 cNm as per customer email dated 04/05/2017.</p> <p>The sample was returned to the customer for further examination on completion of testing.</p>

Distribution:	Test Engineer:	Harry Cloake		Digitally signed by H. Cloake Date: 2017.05.30 08:11:23 +01'00'
1. PARC Ltd File 2. Dick Clark				
Sample Disposal:	Approved by:	Nick Fishwick, Senior Test Engineer		Digitally signed by N. Fishwick Date: 2017.06.01 09:35:26 +01'00'
Sample/s returned to customer via courier				

1. Sample Content

Description of Test Samples:	Identity/Serial Numbers:
1 off BA495 Stainless Steel Rear Cover fitted to 1 off fixture plate	Sample 1

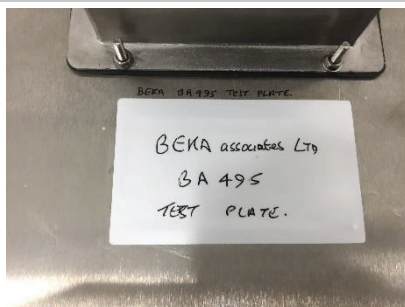
2. Initial Inspection

The sample content exterior was subjected to an initial visual inspection (non-UKAS). No obvious damage was noted.

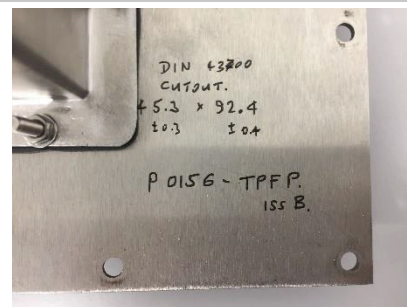
Pre-test



Sample 1



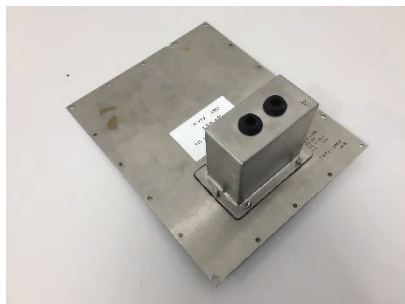
Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1

3. Test Procedure

3.1 IP6X Dust Ingress Test

3.1.1 Test Definition

The sample was subjected to an IP6X Dust Ingress Test in accordance with BS EN 60529:1992 + A2:2013, with the following conditions applied:

- Duration: 8 hours, defined by vacuum survey
- Initial inspection by use of a 1mm probe
- Negative pressure of 16mbar drawn through the sample

Prior to testing the sample was inspected for any apertures or openings that would allow the penetration of a 1mm probe. On completion of the inspection, it was noted that the sample showed no apertures or openings that would allow the penetration of a 1mm probe. The sample was therefore subjected to the Ingress protection test detailed above.

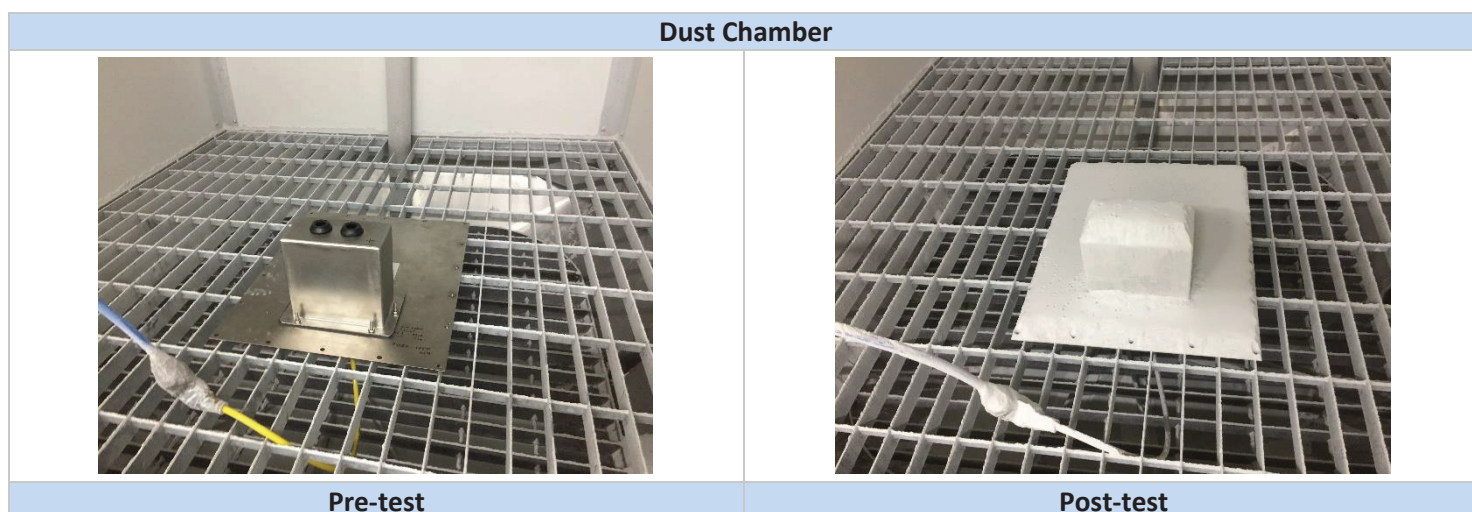
3.1.2 Test Equipment Used

The table displayed below lists the equipment used to carry out the IP6X dust ingress test:

Test Equipment	PARC ID	Calibration Due Date
Weiss Technik ST-1000 U Dust Chamber	2	08/08/2017
Dust Chamber Pressure Gauge	2a	24/08/2017
1mm Probe	417	05/10/2020
Force Gauge	661	07/04/2018
Dust Room Logger	770	21/12/2017

3.1.3 Test Photos

The photographs displayed below show the sample prior to and on completion of the IP6X dust ingress test:



3.1.4 Test Results/Plots

The photographs displayed below show the sample on completion of the IP6X dust ingress test:

Pre-test



Sample 1



Sample 1



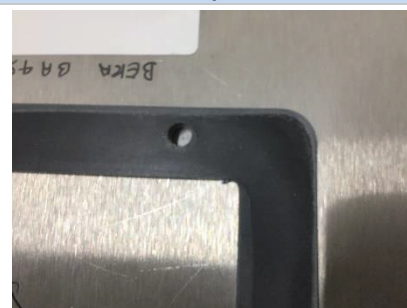
Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1

No obvious signs of dust ingress were exhibited by the sample upon completion of the test regime.

3.2 IPX6 Water Ingress Test

3.2.1 Test Definition

The sample was subjected to an IPX6 Water Ingress Test in accordance with BS EN 60529:1992 + A2:2013, with the following conditions applied:

- Duration: 3 minutes divided proportionally over 6 faces of testing
- Flow rate: 100L/min +/-5%
- Spray distance: 2.5 – 3m
- Max temperature differential between sample and water: 5°C
- Nozzle diameter: 12.5mm

3.2.2 Test Equipment Used

The table displayed below lists the equipment used to carry out the IPX6 water ingress test:

Test Equipment	PARC ID	Calibration Due Date
Spray Nozzle	145	Before use
Fluke Thermometer	596	22/08/2017
Thermocouple	870	21/02/2018
Timer	863	29/06/2017

3.2.3 Test Photos

The photographs displayed below show the sample prior to and on completion of the IPX6 water ingress test:

Dust Chamber



Pre-test

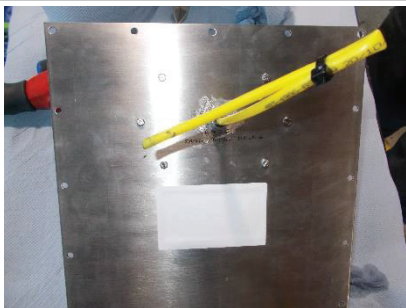


Post-test

3.2.4 Test Results/Plots

The photographs displayed below show the sample on completion of the IPX6 water ingress test:

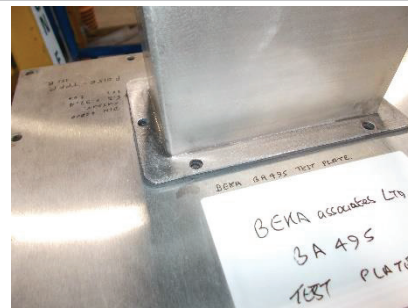
Pre-test



Sample 1



Sample 1



Sample 1



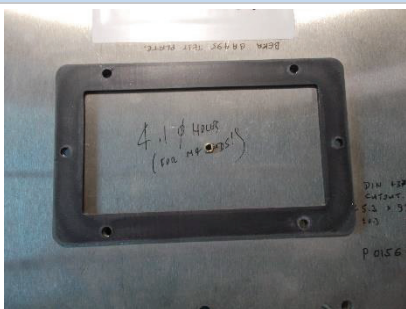
Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1



Sample 1






Sample 1



Sample 1

No obvious signs of water ingress were exhibited by the sample upon completion of the test regime.

  	Test Report Number 8333 Issue 1		Product Assessment and Reliability Centre Ltd Unit 4 Alverdiscott Road Industrial Estate Bideford, Devon, EX39 4LQ Telephone: +44 (0) 1237 421255 info@parctest.co.uk www.parctest.co.uk
	Date of Issue:	30/05/2017	
Page 7 of 7	Reason for Re-issue	N/A	Commercial in Confidence

4. Report Summary

The sample content was subjected to the tests detailed on pages 1, 3 and 5; the details and methodology of which are contained in this test report.

The sample underwent a pre-test inspection to check for abnormalities or damage, no obvious signs of damage were noted to the sample.

A visual inspection for the check of ingress in relevance to each test was carried out on completion of each test regime; the sample exhibited no obvious signs of dust ingress upon completion of the IP6X dust ingress test. No obvious signs of water ingress were noted to the sample upon completion of the IPX6 water ingress test.

Upon completion of each test regime, the samples fixture bolts were torqued to 120 cNm as per customer email dated 04/05/2017.

The sample was returned to the customer for further examination on completion of testing.

End of Test Report