



Certificate of Testing

DNH World-Wide Limited.
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Bletchley
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Buckinghamshire
MK1 1LG

Serial Number: 15929

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Client's Order Numbers: 4429

Works Order Number: 10332

Date of Tests: 28th and 29th July 2008

Attn.: Mr. Keith Golds.

<u>Specimen:</u>	1 off	SAFE-561 IPT Speaker
	Identification No.:	Test Sample 22/7/08
	Cape Eng. Stores No.:	22502
	Receipt Date:	23 rd July 2008

Specification: Ingress Protection Testing

Tested in accordance with BS EN 60529:1992.

IP5X - Dust Protected

Duration: 8 Hours

IPX4 - Protected against splashing water

Nozzle: Spray Nozzle

Flow Rate: 10 litres per minute

Duration: 5 minutes

Distance: 300 to 500 mm



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TEST ENGINEER

G. Ball

Q.A. APPROVAL

D. K. Morris Chief Test Engineer

Certified that the specimens detailed hereon have been subjected to the tests as required by the order unless otherwise stated above. The quality control arrangements are in accordance with the conditions of our UKAS accreditation. No representation or warranty is given that the Tests performed under the terms of the Contract constitute, in themselves, a sufficient programme for the Customer's purpose, nor that the Customer's Equipment is suitable for any particular purpose. The contents of this Certificate shall not be reproduced, except in full, without the written approval of Cape Engineering UK Limited.

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Issue Date: 30th July 2008



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Procedure: IP5X- Dust Protected

The specimen was tested as supplied by the customer, as shown in Figure 1. It was mounted in the dust chamber in a normal operating orientation for a period of 8 hours as shown in Figure 2.

IPX4 - Protected against splashing water

The specimen was mounted in a normal operating orientation and was sprayed from all possible directions, as shown in Figure 3.

Results: IP5X- Dust Protected

After testing the specimen was removed from the dust chamber for water testing.

IPX4 - Protected against splashing water

After testing the specimen was dried externally before being inspected internally for dust and water ingress. No dust was found but a tiny amount of water was found, as shown in Figure 4. The amount was considered to be insufficient to affect the safety or function of the specimen.

The specimen therefore satisfies the requirements of BS EN 60529: 1992 IP54.

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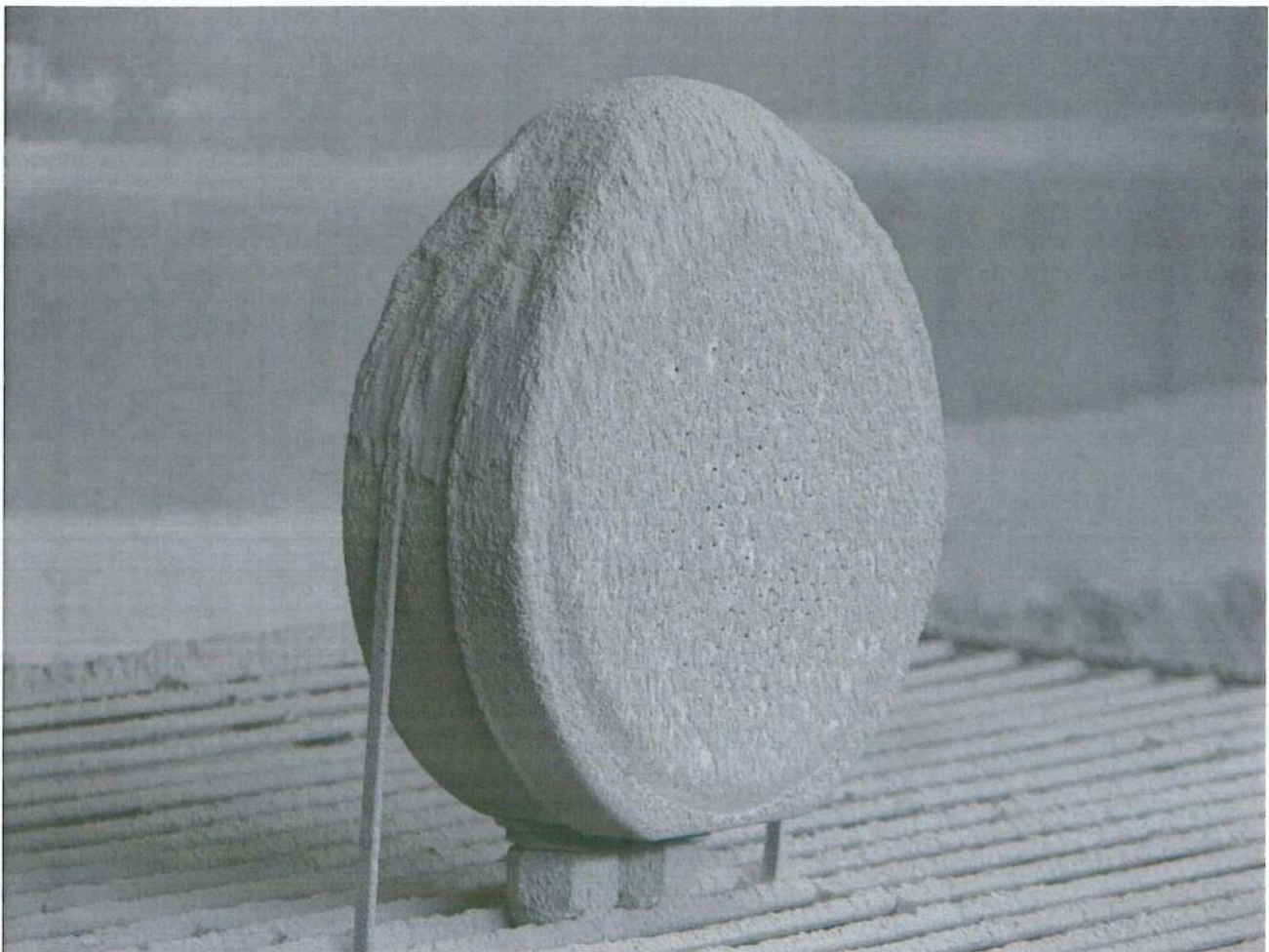
Specimen as supplied by customer

Figure 1

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Specimen after undergoing dust test

Figure 2

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Specimen undergoing water test

Figure 3

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Water found during internal inspection

Figure 4