

The image features a dark blue background on the left side, which transitions into a white background on the right. The blue area is filled with a complex, abstract pattern of thin, light blue lines that curve and overlap, creating a sense of depth and movement. The 'bre' logo is positioned in the upper left quadrant of the blue area. The white area on the right contains the title and other text, with several thin, light blue lines extending from the blue area into it, mirroring the abstract pattern.

bre

**Flood resistant testing  
of a Steel Flood Defence  
Door**

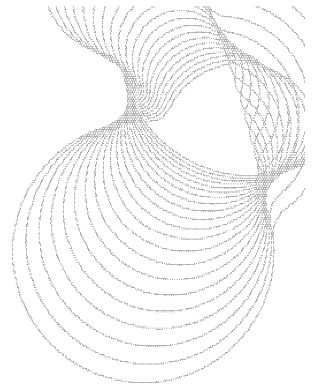
Prepared for:

Vaughan Watkins  
Operations Director

Loddon Door Services Ltd

30<sup>th</sup> July 2014

Client report number 297-769



**Prepared by**

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Name Dr Paul Blackmore

Position Associate Director, Building Technology Group

Signature

**Approved on behalf of BRE**

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Name Dr Julie Bregulla

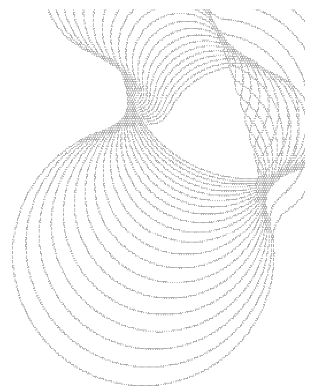
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Date 30<sup>th</sup> July 2014

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## Summary of test

### Testing to PAS 1188-1 - Static Head of Water Testing

**Product:** Loddon Door Services Ltd Steel Flood Defence Door (Outward Opening)

**Date of test:** July 2014

**Place of test:** Building Research Establishment, Garston, Watford, WD25 9XX

**Specimen Description:** A fire Rated door modified to give flood protection, the door comprises of 1.5mm thick door skins, Rockwool core, single rebate frame with a purpose made flashing to suit the structural opening, powder coated finish, locking comprising of a Von Duprin 9957 3 point Panic bar that can provide access control facility, external 990NL or 990DT trim and heavy duty monkey bolts to the slave leaf door.

The Design Maximum Water Depth (DMWD) for these tests was 1460mm

The maximum allowable leakage rate in these tests = 7.1 litres per hour

Water depth (mm)	Maximum leakage rate (l/hr)	Maximum door deflection (mm)	Result
487mm	0.24	1.04	Pass
973mm	0.49	5.18	Pass
1460mm	0.58	15.51	Pass
<b>Overall Result</b>			<b>PASS</b>