*BRE Wind Engineering: Client Report.*

# WEATHERTIGHTNESS TESTS ON THE W.B. WATSON ROOFING SYSTEM.

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**SUMMARY.**

This report contains a summary of results from a series of Weathertightness Tests carried out on the W. B. Watson Patent System Each series of tests provided information which aided the implementation of design modifications.

The Weathertightness Tests 'were carried out using a monopitch roof test rig (3m x 2.5m) with a variable roof pitch, positioned in the air flow of BRE's No.3 boundary layer wind tunnel. Four types of tests were carried out; a deluge test simulating. Rain with no wind, a low wind high rain test, a mid condition test and a high wind low rain test. In same instances a pressure box was attached to the underside of the test specimen to create pressure differences across the specimen. However, after a series of BRERWULF tests at BRE it was demonstrated that the system was permeable, therefore indicating that the inclusion of the pressure box to simulate pressure differences was not necessary.