

Summary Report

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Summary Report 55201/1

Issue No: 1

Date of issue: 15 September 2014

BSRIA has tested a sample of the product described below in accordance with the test methods contained within BS EN 1886:2007 “Ventilation for buildings-Air handling units-Mechanical performance” and have determined the item met the requirements of the standard for those aspects shown. For further details see page 2 of this summary report.

Manufacturer/Agent	VES Andover Ltd Eagle Close Chandlers Ford Industrial Estate Chandlers Ford Eastleigh Hampshire S053 4NF
Product	Air Handling Unit ‘Model Box’ (50mm Frame)
Date of test	29 September 2011
Test Engineer	Tom Garrigan/Rebecca Hogg
Quality Approved	MARK ROPER Principal Test Engineer

This summary report relates to type testing and does not imply BSRIA's endorsement, approval, certification or on-going control of the product(s), either in terms of performance, design, manufacture or materials used. This summary report and the results stated herein relate solely to the sample product(s) tested and to the specific tests undertaken.

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PRODUCT DETAILS

The air handling unit 'model box' had a 50 mm frame and overall dimensions of 2620 mm by 1080 mm by 1200 mm, as per drawing VRD-083-006. The unit was manufactured and supplied by VES Andover Ltd. The frame of the unit was constructed from extruded aluminium and held together with knock-in joints, while the panels were steel sheets with mineral wool sandwiched between them. The unit was supplied in two halves with a fan mounting plate and two filter mounting plates, which had a bag filter installed. The filter bulkhead was constructed as per drawing VRD-083-010.

It was necessary to repeat the thermal bridging tests after the model box had been returned. A new model box, of exactly the same dimensions and build were supplied by VES Andover Ltd. The only exceptions were that it was not supplied with filter mounting plates and a different construction of extruded foam was used on the internal joins of the panels and frame. The extruded foam was constructed as per drawing VRD-083-007. The foam construction of the previous model boxes was a manual attempt to build a similar profile out of multiple 25 mm by 7 mm strips, as the extruded foam was not available when the first model boxes were constructed.

RESULTS

The AHU model box attained a class rating of D1 during the deflection test.

The AHU model box remained structurally intact during the strength test at a positive and negative downstream pressure of 2500 Pa.

The AHU model box attained a class rating of L2 during the casing air leakage test at 700 Pa positive downstream and 400 Pa negative pressure downstream.

The AHU model box attained a filter bypass leakage class of F9 at 400 Pa positive and negative pressure, upstream and downstream.

The AHU model box attained a class rating of T5 during the thermal transmittance test and TB3 during the thermal bridging test.

Full details of results and test methods can be found within BSRIA report 55201/1 dated September 2011.