

Certificate

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Certificate No: 19846/1

Issue No: 1

Date of issue: 16 March 2007

This is to certify that

BSRIA Limited

Have tested a sample of the product described below in accordance with the test methods contained within HVCA DW/143 'A practical guide to ductwork leakage testing' and have determined the item met the leakage requirements for duct joints at Class A (500 Pa) and Class B (1000 pa) as described in HVCA DW/144, when using the criteria within Clause 1.2 of DW/TM1. For further details see page 2 of this certificate.

Product covered by this certificate

Manufacturer/Agent	Doby Verrolec Harelaw Industrial Estate Stanley Co. Durham DH9 8UJ	
Product/Model	Kingspan Koolduct PreInsulated Ductwork fitted with Doby IDF 40 Flange	
Materials	Duct Panel	Kingspan Koolduct, PreInsulated Duct Panel, 22mm thick
	Joint	Doby IDF 40 Flange Profile
	Duct Cross Section	245 mm x 245 mm internal dimensions
	Sealant	PAL Silicon Internal Sealant
	Clips	EP13S
	Gasket	0120/572 (PVC Single Sided Foam Tape)
Date of test	23 February 2006	
Certificate Expiry	23 February 2009	
Test Engineer	M A Roper, Senior Test Engineer	

Quality Approved PHIL STONARD
Senior Test Engineer
MicroClimate & Testing

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TEST RESULTS

Requirements

Pressure Class	HVCA DW/144 Class A	HVCA DW/144 Class B
Static pressure ΔP	500 Pa	1000 Pa
Leakage factor	$0.027 \times \Delta P^{0.65}$ l/s/m ²	$0.009 \times \Delta P^{0.65}$ l/s/m ²
DW/TM1 Clause 1.2 multiplying factor	0.4	0.4
Surface area of duct (excluding end caps)	5.246 m ²	5.246 m ²
Maximum permitted leakage	3.22 l/s	1.68 l/s
Maximum permitted Deflection	1.20 mm	1.20 mm

Duct Details

Two sections of Kingspan Koolduct PreInsulated Ductwork, 22 mm thick panel with internal dimensions of 245 mm (W) x 245 mm (H) x 2683 mm (L), and 245 mm (W) x 245 mm (H) x 2670 mm (L). Joined with Doby IDF 40 Flange Profiles, incorporating 0120/572 gasket material, and retained by EP13S clips.

Instrumentation

Instrument	Serial Number	Calibration Date
Duct Leakage Tester – HVLTK Mk 4 M(120v)	121516	05 May 2005

Results

	Class A - 500 Pa Test		Class B - 1000 Pa Test	
	Start	Finish	Start	Finish
Duct Static Pressure	513 Pa	519 Pa	1013 Pa	1009 Pa
Measured Leakage Flow	0.80 l/s	0.75 l/s	1.21 l/s	1.23 l/s
Measured Deflection	0.0 mm	0.0 mm	0.005 mm	0.005 mm
Test Duration	15 Minutes		15 Minutes	
Test Pass/Fail	Pass		Pass	