

Certificate

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Certificate No: 53929/3 Editon 2

Issue No: 1

Date of issue: 19 March 2010

This is to certify that

BSRIA Limited

Has tested a sample of the product described below in accordance with the test methods contained within EN 13030 : 2001 and have determined the item met the detailed classification shown on pages 3 and 4 of this certificate. For further details of the test item see Page 2 of this certificate

Manufacturer/Agent Alumat Systems (UK) Ltd
Senator House
Bourne End Road
Southam
Warwickshire
CV47 0NA

Product ASC75W Louvre System

Test location BSRIA
Old Bracknell West
Bracknell
Berkshire RG12 7AH

Date of test 18 February 2010

Expiry date 19 March 2013

Test engineer M Roper / M Evans

Quality approved Phil Stonard
Laboratory Manager
Testing & Certification

This certificate must not be reproduced except in full without the written approval of an executive director of BSRIA. It is only intended to be used within the context described in the text.

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TEST ITEM INFORMATION

Contract	53929A	
Date	19/02/2010	
Manufacturer	Alumet	
Louvre Model	ASC75W Louvre System	
Material	Aluminium	
Painted	No	
Blade Height	950	mm
Blade Width	903	mm
Blade Depth	75	mm
Frame Depth	125	mm
No.of Blades	13	
Blade Pitch	75	mm
Blade Angle	45	Degrees (Approx)
No.of Banks	1	
Guard Type	Insect and Bird Mesh	
Guard Spacing	50	
Side Channels	No	
Water Drip Tray	Yes	
Blade Orientation	Horizontal	



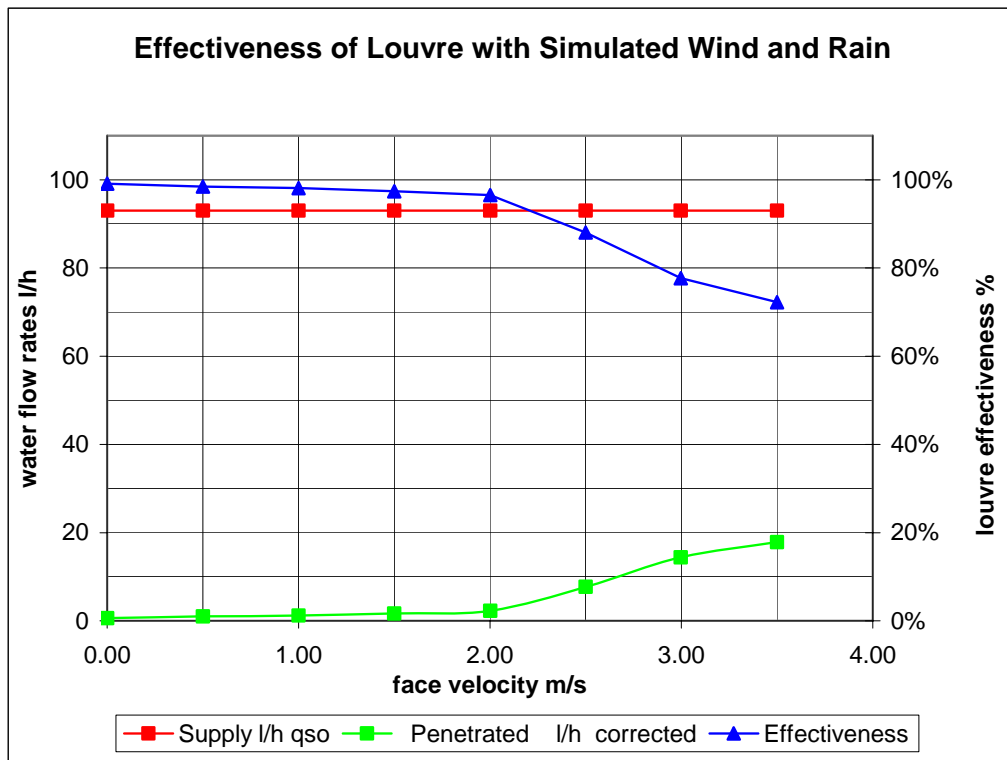
WATER PENETRATION

MANUFACTURER Alumet
 MODEL ASC75W Louvre System

Date 19/02/2010
 Contract 53929A

Simulated rainfall 75 mm/hr
 Wind speed 13.0 m/s
 louvre height 950 mm
 louvre width 903 mm
 louvre area 0.858 m²

VENTILATION RATE		WATER FLOW RATES		Effectiveness	Class
Volume m ³ /s	Velocity m/s	Supply l/h	Penetrated l/h		
0.00	0.00	93.0	0.6	99.1%	A
0.43	0.50	93.0	1.0	98.5%	B
0.86	1.00	93.0	1.2	98.2%	B
1.29	1.50	93.0	1.7	97.4%	B
1.72	2.00	93.0	2.2	96.5%	B
2.14	2.50	93.0	7.7	88.0%	C
2.57	3.00	93.0	14.4	77.7%	D
3.00	3.50	93.0	17.8	72.3%	D



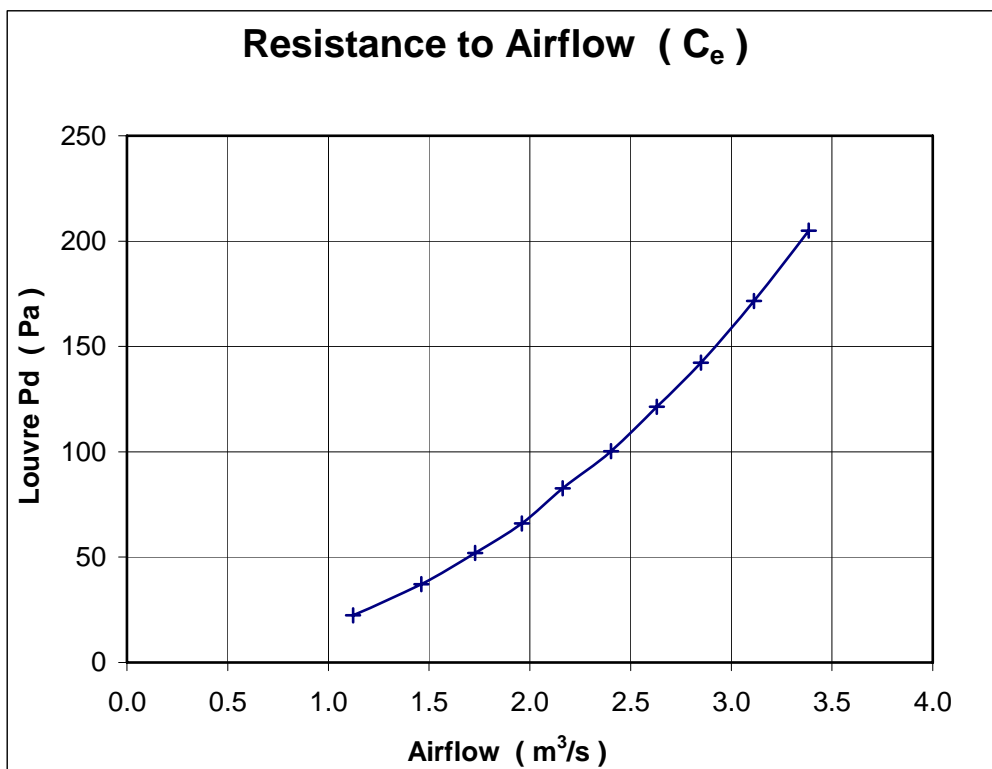
ENTRY LOSS COEFFICIENT

MANUFACTURER Alumet
 MODEL ASC75W Louvre System

Date 19/02/2010
 Contract 53929A

air temperature 10.5 °C louvre height 950 mm
 barometer 986.5 mbar louvre width 903 mm
 air density 1.207 kg/m³ louvre area 0.858 m²

louvre pd Pascals	louvre face velocity	air flow rate		coefficient C _e
	m/s	test m ³ /s	theoretical m ³ /s	
22.4	1.31	1.122	5.230	0.215
37.2	1.70	1.461	6.738	0.217
52.0	2.01	1.728	7.964	0.217
66.0	2.28	1.960	8.974	0.218
82.6	2.52	2.163	10.038	0.215
100.3	2.80	2.403	11.061	0.217
121.5	3.07	2.630	12.171	0.216
142.3	3.32	2.850	13.172	0.216
171.6	3.63	3.113	14.466	0.215
204.9	3.94	3.384	15.808	0.214
mean C _e				0.216
Class				3



CLASSIFICATION OF WEATHER LOUVRES

Weather louvres shall be classified by their ability to reject simulated rain.

Penetration Classification

Table 1 shows the different classifications based on the maximum simulated rain penetration per square metre of louvre. The classification is determined in accordance with section 8 of EN 13030:2001.

Water penetration rating at a given louvre face velocity is determined by the water penetration while the louvre is subjected to a 13 ms^{-1} simulated wind velocity and a simulated rain fall at the nominal rate.

Table 1 Penetration classification

Class	Effectiveness	Maximum allowed penetration of simulated rain $\text{l.h}^{-1}.\text{m}^{-2}$
A	1 TO 0,99	0,75
B	0,989 TO 0,95	3,75
C	0,949 TO 0,80	15,0
D	Below 0,8	Greater than 15,0

These classifications apply to various core velocities.

Discharge Loss Coefficient

The discharge loss coefficient given in Table 2, shall be determined in accordance with section 7.2 of test standard EN13030:2001.

Table 2 Discharge loss coefficient classification

Class	Discharge Loss Coefficient
1	0,4 and above
2	0,3 to 0,399
3	0,2 to 0,299
4	0,199 and below

(Note: The above also applies to entry loss coefficient)