

Type Test Certificate

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Certificate No: 51004/1

Issue No: 2

Date of issue: 6 February 2012

BSRIA Ltd has tested a sample of the product described below in accordance with the test methods contained within EN 13030 : 2002 and have determined the item met the detailed classification. For further details see Page 2 of this certificate

Manufacturer/Agent	Architectural Profiles Ltd. Cockayne House 126-128 Crockhamwell Road Woodley Reading Berkshire RG5 3YA
Product	AP70LB4 Double Bank
Test location	BSRIA Old Bracknell Lane West Bracknell Berkshire RG12 7AH
Date of test	6 August 2007
Date of issue	6 February 2012
Expiry date	6 February 2014
Test engineer	Mark Roper
Quality approved	Phil Stonard Laboratory Manager

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PRODUCT DETAILS

Manufacturer	Architectural Profiles Ltd
Louvre Model	AP70LB4 Double Bank
Material	Aluminium
Painted	No
Blade Height	985 mm
Blade Width	972 mm
Blade Depth	146 mm
Frame Depth	196 mm
No.of Blades	9
Blade Pitch	100 mm
Blade Angle	45 deg
No.of Banks	2
Guard Type	Insect
Guard Spacing	50 mm
Side Channels	Yes
Water Drip Tray	Yes
Blade Orientation	Horizontal



WATER PENETRATION

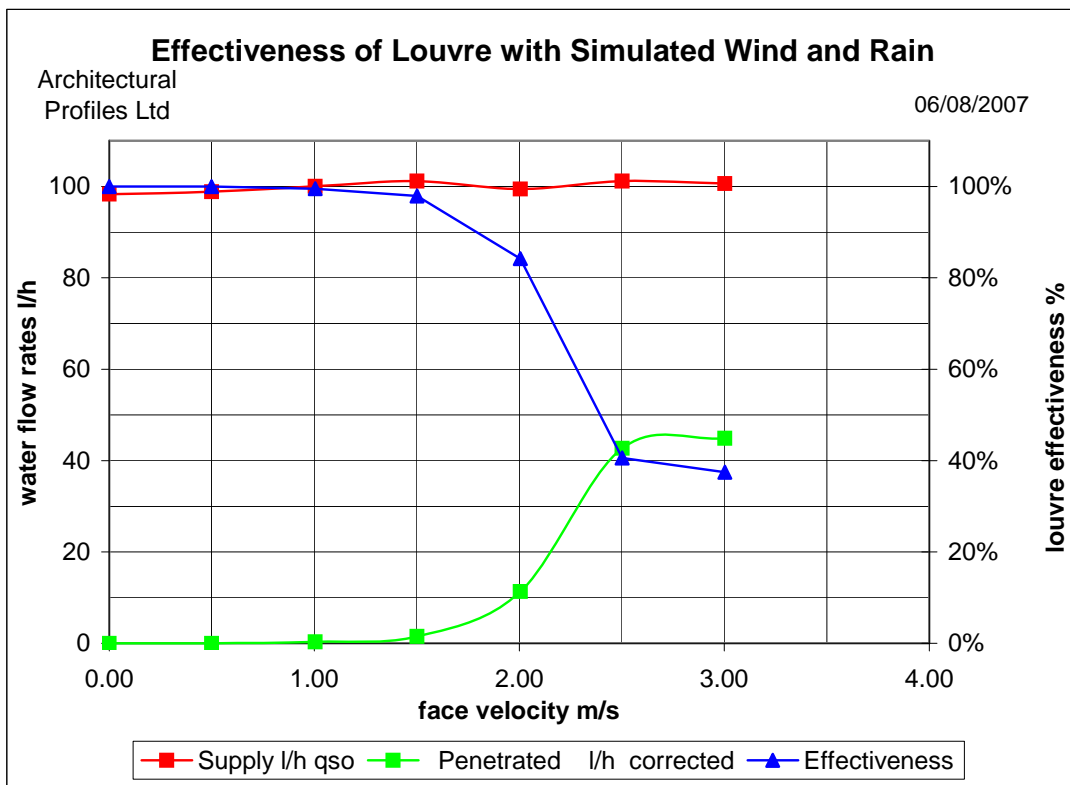
WATER PENETRATION

MANUFACTURER Architectural Profiles Ltd
 MODEL AP70LB4 Double Bank

Date 06/08/2007
 Contract 51004

Simulated rainfall 75 mm/hr
 Wind speed 13.0 m/s
 louvre height 985 mm
 louvre width 972 mm
 louvre area 0.957 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	98.3	0.0	100.0%	A
0.48	0.50	98.9	0.0	100.0%	A
0.96	1.00	100.1	0.3	99.5%	A
1.44	1.50	101.2	1.5	97.9%	B
1.92	2.00	99.5	11.3	84.2%	C
2.39	2.50	101.2	42.7	40.6%	D
2.88	3.00	100.6	44.9	37.5%	D



COEFFICIENT OF ENTRY OR DISCHARGE

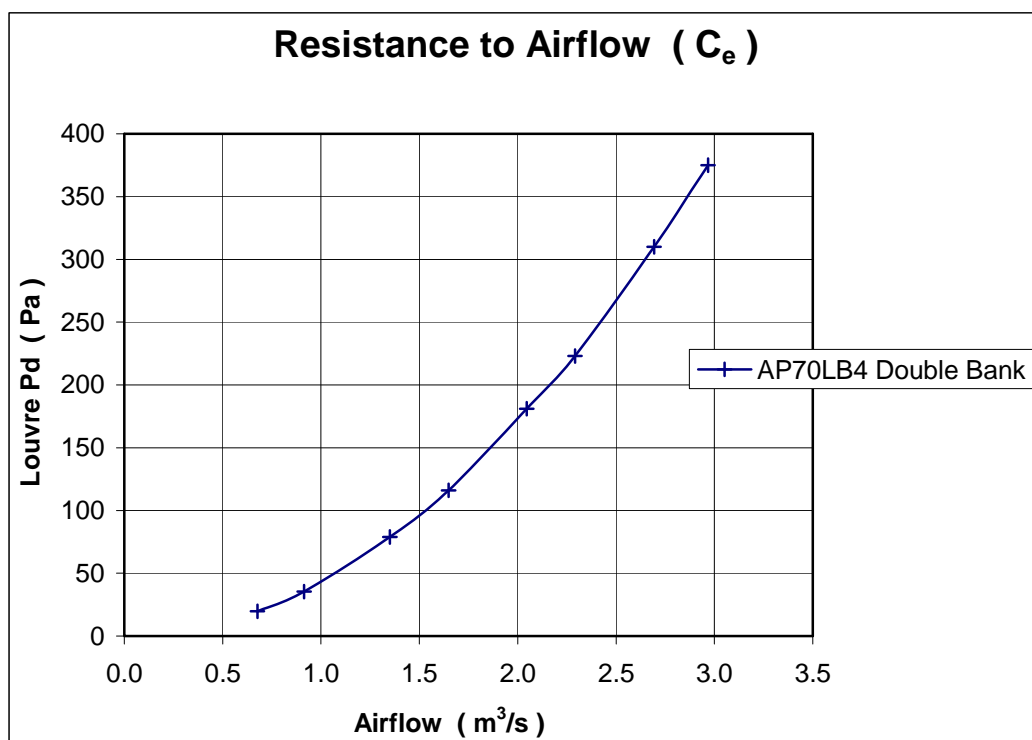
ENTRY LOSS COEFFICIENT

MANUFACTURER Architectural Profiles Ltd
 MODEL AP70LB4 Double Bank

Date 06/08/2007
 Contract 51004

air temperature 21.08 °C louvre height 985 mm
 barometer 1002 mbar louvre width 972 mm
 air density 1.182 kg/m³ louvre area 0.957 m²

louvre pd Pascals	louvre face velocity		air flow rate		coefficient C _e
	m/s		test m ³ /s	theoretical m ³ /s	
19.7	0.71		0.677	5.528	0.123
35.5	0.95		0.914	7.420	0.123
79.0	1.41		1.350	11.069	0.122
116.0	1.72		1.648	13.413	0.123
181.0	2.14		2.046	16.755	0.122
223.0	2.39		2.291	18.598	0.123
310.0	2.81		2.693	21.928	0.123
375.0	3.10		2.968	24.117	0.123
mean C _e					0.123
Class					4



CLASSIFICATION OF WEATHER LOUVRES

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

Penetration Classification

Table 1 shows difference classifications based on the maximum simulated rain penetration per square metre of louvre. The effectiveness is determined in accordance with section 6.1.7.iii.

Water penetration rating at a given louvre face velocity is determined by the water penetration while the louvre is subjected to a 13 m^{-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 6.2.4.

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)