

Summary Report

www.bsria.co.uk

Summary Report 54763/1 Issue No: 1 Date of issue: 31 August 2018

This Summary Report confirms that BSRIA Ltd 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 to 5. For further details of the test item see Page 2 of this Summary Report.

Manufacturer/Agent N.V. Renson Projects

IZ 2 Vijverdam Maalbeekstraat 6 B-8790 Waregem

Product L.050W

Test location BSRIA

Old Bracknell West

Bracknell

Berkshire RG12 7AH

Date of test 14 – 28 April 2011

Date of issue 31 August 2018

Test engineer A Freeth

Quality approved Mark Roper

Principal Test Engineer

This Summary Report 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.

This summary report supersedes certificate 54763/1 Ed 2. This up-date was carried out under BSRIA contract reference 61223.

TEST INFORMATION

54763A	
April 2011	
N.V. Renson P	rojects
L.050W	
Aluminium	
No	
965	mm
960	mm
129	mm
160	mm
19	
50	mm
1	
Insect	
0	mm
None	
Yes	
Horizontal	
	April 2011 N.V. Renson P L.050W Aluminium No 965 960 129 160 19 50 1 Insect 0 None Yes

Front view of louvre



Note: Certificate 54763/1 Edition 1 described the louvre as having 2 banks of blades. The louvre has a single bank of blades, with a profile which extends almost the full depth of the unit. The test item information above has been amended. No other changes have been made.

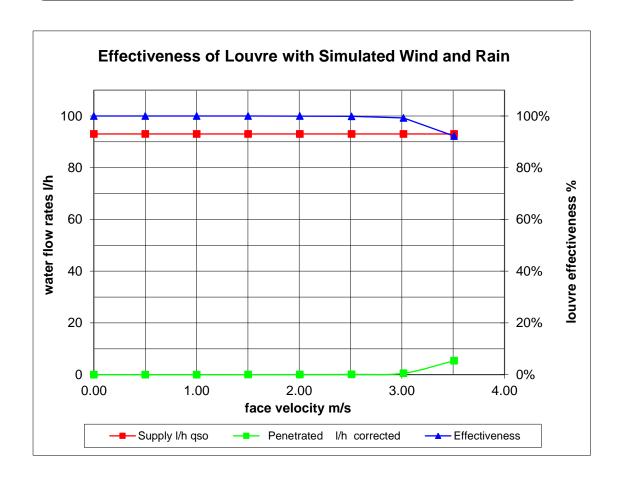
RAINWATER PENETRATION

MANUFACTURER Renson Date 14-28/04/2011 **MODEL** L.050W

Contract 54763

965 mm louvre height Simulated rainfall 75 mm/hr 960 mm louvre width louvre area 0.926 m² Wind speed 13.0 m/s

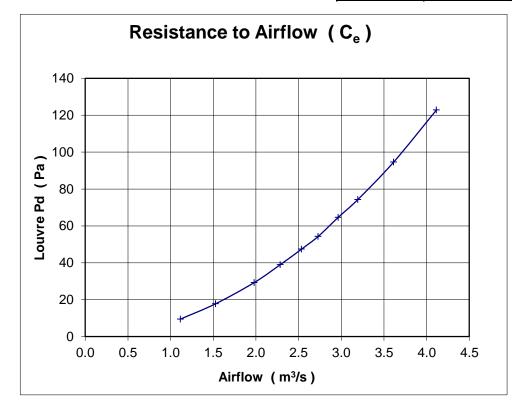
		WATER FLOW RATES		VENTILATION RATE	
Class	Effectiveness	Penetrated	Supply	Velocity	Volume
		l/h	l/h	m/s	m ³ /s
Α	100.0%	0.0	93.0	0.00	0.00
Α	100.0%	0.0	93.0	0.50	0.46
Α	100.0%	0.0	93.0	1.00	0.93
Α	100.0%	0.0	93.0	1.50	1.39
Α	99.9%	0.0	93.0	2.01	1.86
Α	99.9%	0.1	93.0	2.51	2.33
Α	99.2%	0.5	93.0	3.02	2.79
С	92.2%	5.4	93.0	3.51	3.25



COEFFICIENT OF ENTRY

MANUFACTURER Renson Date 26/04/2011 MODEL L.050W Contract 54763

	louvre face velocity	air flow ra	ate	
louvre pd		test	theoretical	coefficient
Pascals	m/s	m³/s	m³/s	C_e
9.5	1.20	1.12	3.66	0.304
17.8	1.65	1.53	5.01	0.305
29.3	2.14	1.98	6.43	0.308
39.0	2.47	2.29	7.42	0.308
47.4	2.74	2.53	8.18	0.310
54.3	2.95	2.73	8.76	0.312
64.6	3.20	2.96	9.55	0.310
74.3	3.45	3.19	10.25	0.312
94.6	3.90	3.61	11.56	0.313
122.8	4.44	4.11	13.17	0.312
			mean C _e	0.309
			Class	2



Issue No: 1

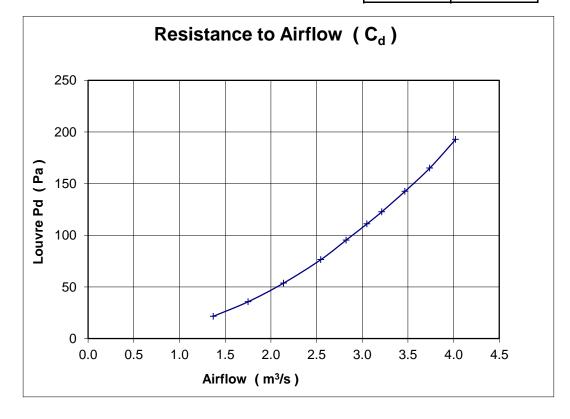
Date of issue: 31 August 2018

COEFFICIENT OF DISCHARGE

MANUFACTURER Renson Date 27/04/2011 MODEL L.050W Contract 54763

air temperature 16.8 °C louvre height 965 mm barometer 1021 mbar louvre width 960 mm air density 1.222 kg/m 3 louvre area 0.926 m 2

	louvre face velocity	air flow	rate	
louvre pd		test	theoretical	coefficient
Pascals	m/s	m ³ /s	m ³ /s	Cd
21.6	1.48	1.370	5.509	0.249
35.7	1.89	1.752	7.082	0.247
53.7	2.31	2.139	8.686	0.246
76.4	2.75	2.547	10.360	0.246
95.3	3.05	2.824	11.571	0.244
111.0	3.29	3.051	12.487	0.244
122.7	3.47	3.213	13.129	0.245
142.5	3.74	3.467	14.149	0.245
165.0	4.04	3.739	15.225	0.246
192.8	4.34	4.022	16.457	0.244
			mean Cd	0.246
			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 8.2 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 l.h ⁻¹ .m ⁻²
Α	1,00 TO 0,99	0,75
В	0,989 TO 0,95	3,75
С	0,949 TO 0,80	15,0
D	Below 0,8	Greater than 15,0

These classifications apply to various core velocities.

Discharge and Entry Loss Coefficient

The discharge and entry loss coefficient given in Table 2, shall be determined in accordance with section 8.3 of test standard EN13030:2001.

Table 2 - Discharge and Entry loss coefficient classification

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