

Summary Report

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Summary Report 53928/2 Issue No: 1 Date of issue: 10 October 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.066V

BSRIA

Test location Old Bracknell West

Bracknell

Berkshire RG12 7AH

Date of test 18 January to 4 February 2010

Date of issue 9 October 2018

Test engineer A Freeth

Quality approved Mark Roper

Principal Test Engineer

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This summary report supersedes certificate 53928/2. This up-date was carried out under BSRIA contract reference 61223.

TEST INFORMATION

Contract 53928A Date 18/01/2010 Manufacturer Renson Louvre Model L.066V vertical Material Aluminium **Painted** No **Blade Height** 1000 mm **Blade Width** 998 mm **Blade Depth** 80 mm Frame Depth 85 mm No.of Blades 15 **Blade Pitch** 66 mm **Blade Angle** 45 Degrees No.of Banks 1 **Guard Type** Insect **Guard Spacing** 5 **Side Channels** No **Water Drip Tray** Yes **Blade Orientation** Vertical

Front view of louvre



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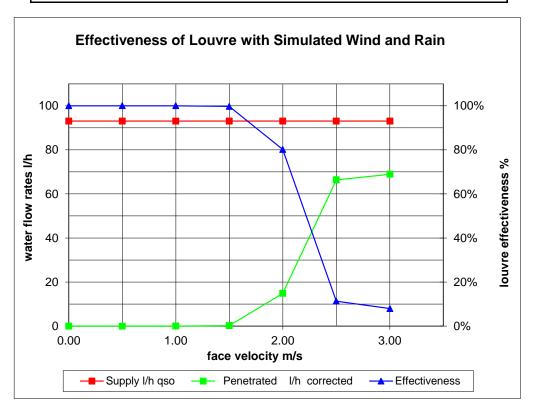
RAINWATER PENETRATION

MANUFACTURER Renson Date 18/01/2010
MODEL L.066V vertical Contract 53928A

louvre height 1000 mm louvre width 998 mm louvre area 0.998 m²

Simulated rainfall 75 mm/hr louvre wid Wind speed 13.0 m/s louvre are

VENTILAT	ION RATE	WATER FLOW RATES			
Volume	Velocity	Supply	Penetrated	Effectiveness	Class
m³/s	m/s	l/h	l/h		
0.00	0.00	93.0	0.0	100.0%	Α
0.50	0.50	93.0	0.0	100.0%	Α
1.00	1.00	93.0	0.0	100.0%	Α
1.50	1.50	93.0	0.2	99.7%	Α
2.00	2.00	93.0	14.8	80.2%	С
2.50	2.50	93.0	66.4	11.3%	D
3.00	3.00	93.0	68.9	7.9%	D
2.50	2.50	93.0	66.4	11.3%	



Issue No: 1

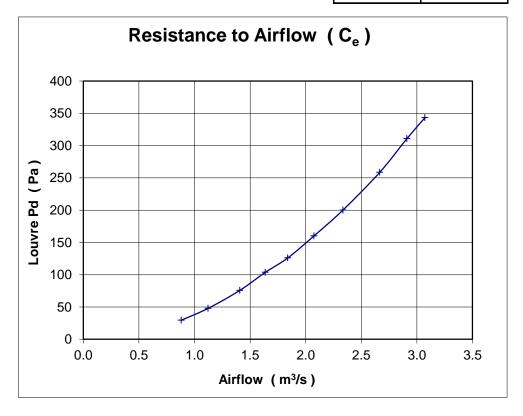
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COEFFICIENT OF ENTRY

MANUFACTURER Renson Date 18/01/2010
MODEL L.066V vertical Contract 53928A

air temperature 14.9 °C louvre height 1000 mm barometer 1026 mbar louvre width 998 mm air density 1.236 kg/m 3 louvre area 0.998 m 2

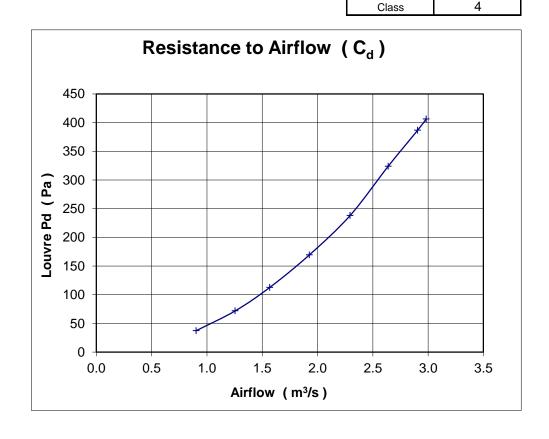
	louvre face velocity	air flow r	rate	
louvre pd		test	theoretical	coefficient
Pascals	m/s	m ³ /s	m ³ /s	C_e
				•
29.5	0.88	0.880	6.895	0.128
47.9	1.12	1.122	8.787	0.128
75.8	1.41	1.408	11.053	0.127
103.7	1.64	1.637	12.928	0.127
126.0	1.84	1.839	14.251	0.129
160.2	2.08	2.075	16.069	0.129
200.1	2.34	2.335	17.959	0.130
258.7	2.67	2.667	20.420	0.131
310.8	2.92	2.910	22.382	0.130
343.2	3.08	3.073	23.519	0.131
		_	mean C _e	0.129
			Class	4



COEFFICIENT OF DISCHARGE

MANUFACTURER Renson Date 04/02/2010
MODEL L.066V vertical Contract 53928A

	louvre face velocity	air flow	rate	
louvre pd		test	theoretical	coefficient
Pascals	m/s	m ³ /s	m ³ /s	C _d
		-	-	-
37.4	0.90	0.902	7.909	0.114
71.9	1.26	1.255	10.966	0.114
112.9	1.57	1.568	13.741	0.114
169.4	1.93	1.926	16.832	0.114
238.1	2.30	2.294	19.955	0.115
324.0	2.64	2.639	23.279	0.113
386.6	2.91	2.905	25.428	0.114
406.3	2.99	2.983	26.068	0.114
			mean C _d	0.114
			01	4



CLASSIFICATION OF WEATHER LOUVRES

Date of issue: 10 October 2018

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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