

Summary Report

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Summary Report 53928/	1 Issue No: 1	Date of issue: 10 October 2018
below in accordance w determined the item met t	with the test methods containe	sted a sample of the product described ed within EN 13030:2001 and have wn on pages 3 to 5. For further details Summary Report.
Manufacturer/Agent	N.V. Renson Projects	
	IZ 2 Vijverdam Maalbeekstraat 6 B-8790 Waregem	
Product	L.150ACS	
Test location	BSRIA 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 53928/1. This up-date was carried out under BSRIA contract reference 61223.

TEST INFORMATION

Contract	53928A	
Date	18/1/2010	
Manufacturer	Renson	
Louvre Model	L.150ACS	
Material	Aluminium	
Painted	No	
Blade Height	1000	mm
Blade Width	990	mm
Blade Depth	145	mm
Frame Depth	150	mm
No.of Blades	6	
Blade Pitch	150	mm
No.of Banks	1	
Guard Type	Insect	
Guard Spacing	5	mm
Side Channels	No	
Drip Tray	Yes	
Blade Orientation	Horizontal	

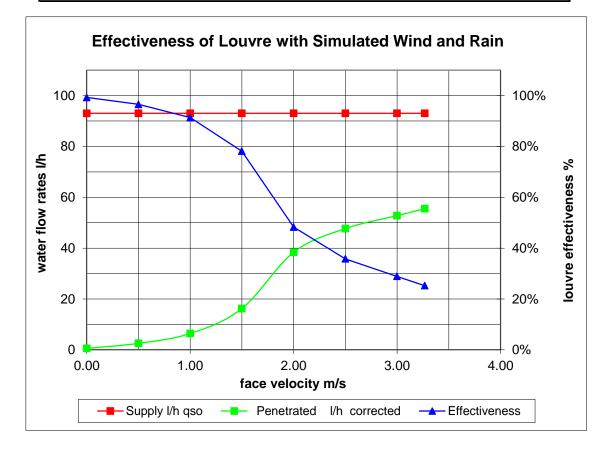
Front view of louvre



Issue No: 1

RAINWATER PENETRATION

MANUFACT I	URER MODEL	Renson L.150ACS			C		18/01/2010 53928A	
	ted rainfall /ind speed	75 13.0	mm/hr m/s		louvre height louvre width louvre area	1000 990 0.990	mm	
Ļ	VENTILA	TION RATE		WATER FL	OW RATES			
	Volume	Velocity		Supply	Penetrated		Effectiveness	Class
L	m³/s	m/s		l/h	l/h			
	0.00 0.49 0.99 1.48 1.98 2.48 2.97 3.24	0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.27		93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0	0.5 2.5 6.4 16.2 38.4 47.7 52.8 55.5		99.3% 96.6% 91.3% 78.1% 48.3% 35.8% 28.9% 25.2%	A B C D D D D D



COEFFICIENT OF ENTRY

MANUFACTURER Renson MODEL L.150ACS

air temperature 11.4 °C barometer 1025 mbar Contract 53928A

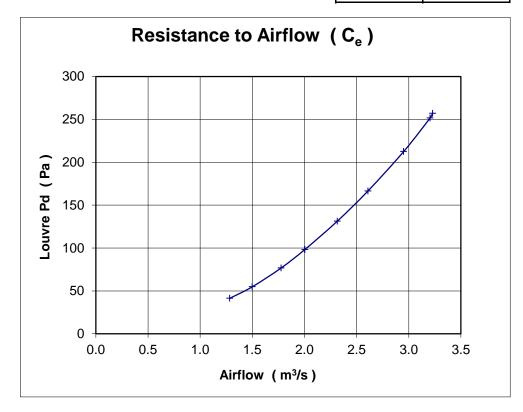
1000 mm

990 mm

air density	air density 1.250 kg/m ³		0.990	m ²
	louvre face velocity	air flow rate		
louvre pd		test	theoretical	coefficient
Pascals	m/s	m³/s	m³/s	C _e
41.4	1.30	1.284	8.054	0.159
54.8	1.51	1.500	9.267	0.162
76.7	1.79	1.776	10.965	0.162
98.3	2.02	2.004	12.414	0.161
131.3	2.34	2.315	14.347	0.161
166.5	2.64	2.609	16.156	0.161
212.5	2.98	2.951	18.252	0.162
251.6	3.24	3.205	19.860	0.161
257.0	3.26	3.229	20.072	0.161
			mean C _e	0.161
			Class	4

louvre height

louvre width



Date 18/01/2010

COEFFICIENT OF DISCHARGE

MANUFACTURER Renson MODEL L.150ACS Date 04/02/2010 Contract 53928A

air temperature 11 °C barometer 999.4 mbar air density 1.220 kg/m³

1000 mm 990 mm

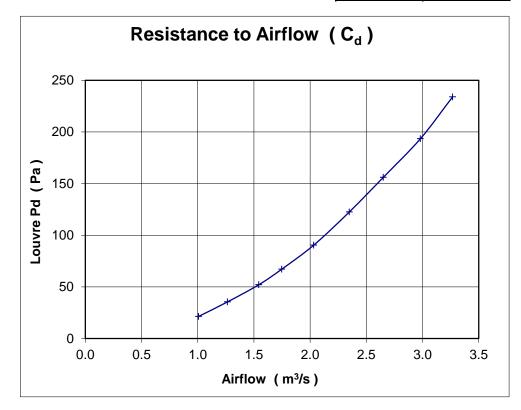
 0.990 m^2

Г	louvre face velocity	air flow i	1	
louvre pd		test	theoretical	coefficient
Pascals	m/s	m³/s	m³/s	C _d
21.4	1.02	1.007	5.863	0.172
35.5	1.28	1.265	7.551	0.167
52.1	1.56	1.543	9.148	0.169
67.2	1.77	1.748	10.389	0.168
90.4	2.05	2.032	12.050	0.169
122.5	2.37	2.348	14.027	0.167
156.1	2.68	2.652	15.834	0.167
193.4	3.01	2.981	17.625	0.169
233.9	3.30	3.268	19.383	0.169
			mean C_d	0.169
			Class	4

louvre height

louvre width

louvre area



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 I.h ⁻¹ .m ⁻²		
А	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