

Certificate

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Certificate No: 54763/9

Issue No: 1

Date of issue: 28 February 2011

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 has determined the item met the detailed classification shown on page 3 of this certificate. For further details of the test item see Page 2 of this certificate

Manufacturer/Agent	N.V. RENSON PROJECTS IZ 2 Vijverdam Maalbeekstraat 6 B-8790 Waregem Belgium
Product	Mesh 6mm x 6mm
Test location	BSRIA Old Bracknell Lane West Bracknell Berkshire RG12 7AH
Date of test	29 December 2010
Expiry date	28 February 2014
Test engineer	M Roper / A Freeth
Quality approved	Phil Stonard Laboratory Manager

TEST ITEM INFORMATION

Contract	54763
Date	December 2010
Manufacturer	N.V. Renson Projects
Louvre Model	Mesh 6mm x 6mm
Material	Aluminium frame
Painted	No
Frame Height	986 mm
Frame Width	972 mm
Frame Depth	N/A mm
No. of Banks	1
Guard Type	Bird/Vermin
Guard Spacing	N/A mm



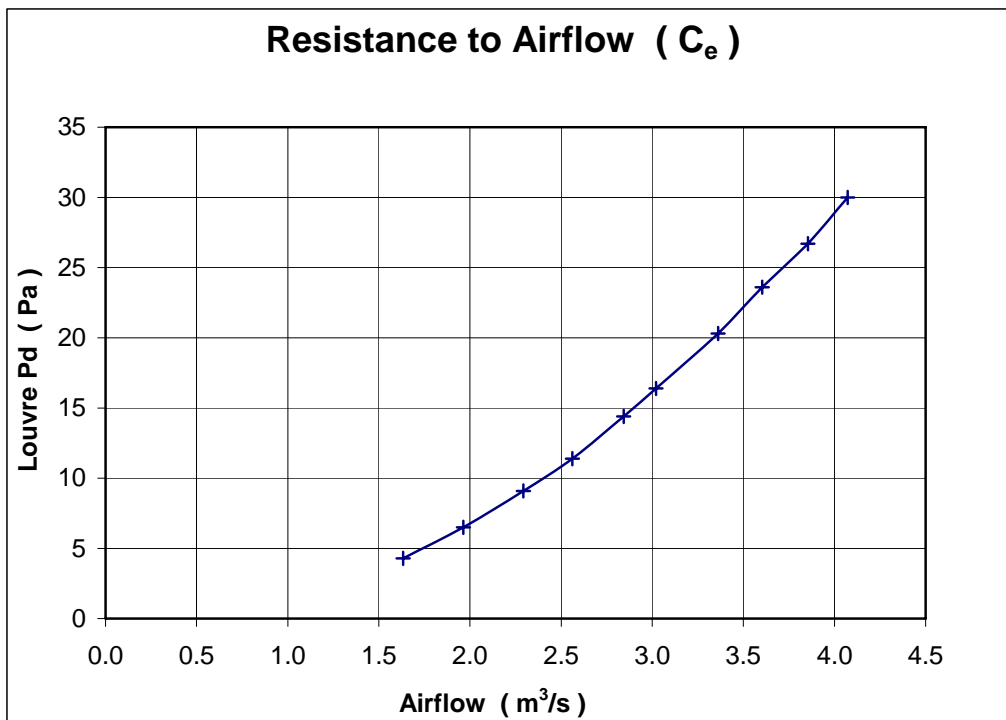
COEFFICIENT OF ENTRY

MANUFACTURER Renson
 MODEL Mesh 6 x 6

Date 29/12/2010
 Contract 54763

air temperature 8.5 °C louvre height 986 mm
 barometer 1000 mbar louvre width 972 mm
 air density 1.232 kg/m³ louvre area 0.958 m²

louvre pd Pascals	louvre face velocity	air flow rate		coefficient C _e
	m/s	test m ³ /s	theoretical m ³ /s	
30.0	4.25	4.073	6.688	0.609
26.7	4.02	3.854	6.310	0.611
23.6	3.76	3.603	5.932	0.607
20.3	3.51	3.362	5.502	0.611
16.4	3.15	3.020	4.945	0.611
14.4	2.97	2.842	4.634	0.613
11.4	2.67	2.562	4.123	0.621
9.1	2.39	2.292	3.684	0.622
6.5	2.05	1.963	3.113	0.630
4.3	1.70	1.633	2.532	0.645
mean C _e				0.618
Class				1



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 $\text{l.h}^{-1}.\text{m}^{-2}$
A	1,00 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 8.3 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)