

3 RESULTS

3.1 RAINWATER PENETRATION

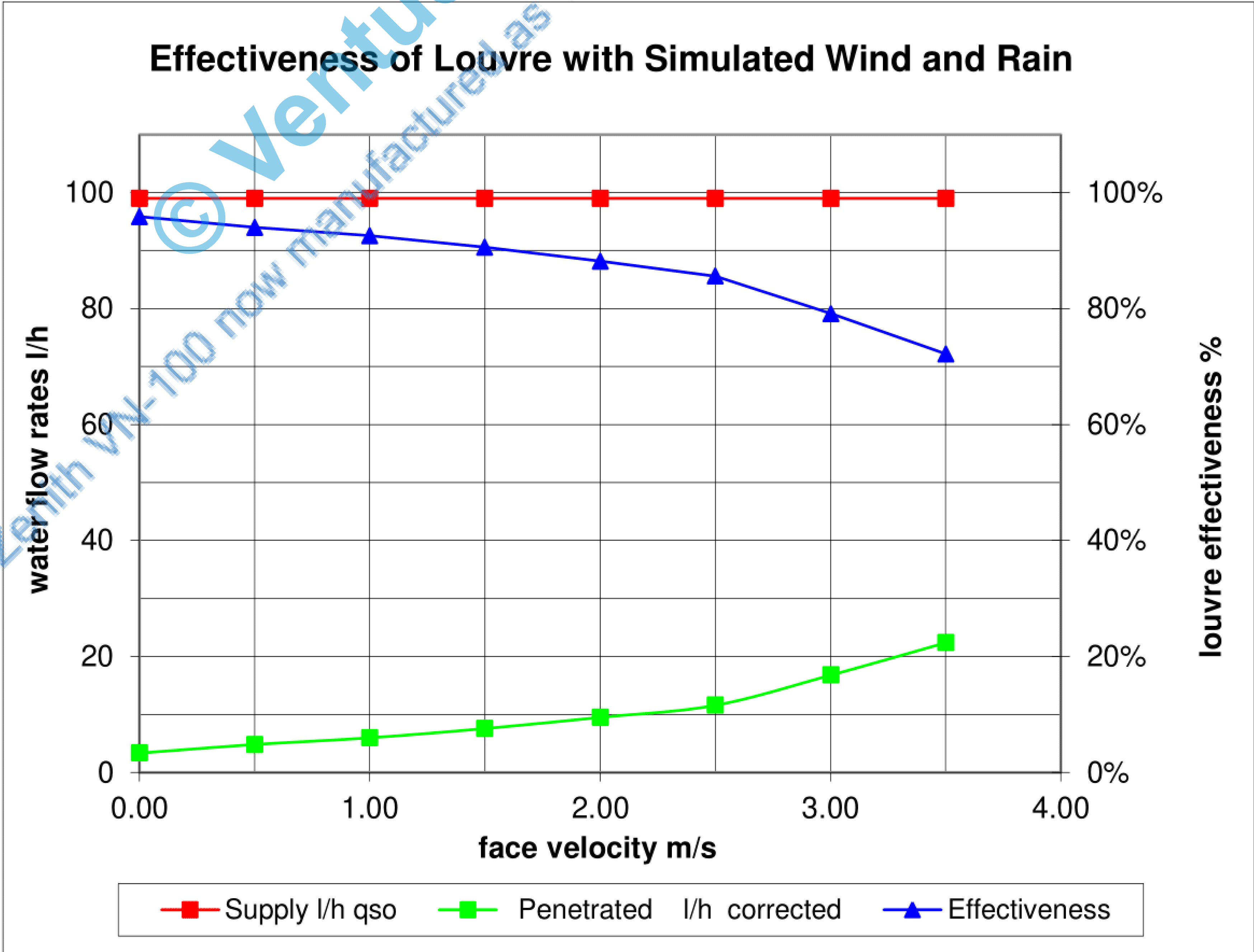
MANUFACTURERINSOL Ltd.
MODELZenith VN-100

Date 18/08/2016
Contract 59678

Simulated rainfall75 mm/hr
Wind speed13.0 m/s

louvre height1036 mm
louvre width1035 mm
louvre area1.072 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	99.0	3.4	95.8%	B
0.54	0.50	99.0	4.8	94.0%	C
1.07	1.00	99.0	6.0	92.6%	C
1.61	1.50	99.0	7.6	90.6%	C
2.15	2.00	99.0	9.5	88.2%	C
2.68	2.50	99.0	11.6	85.6%	C
3.22	3.00	99.0	16.8	79.1%	D
3.75	3.50	99.0	22.4	72.2%	D



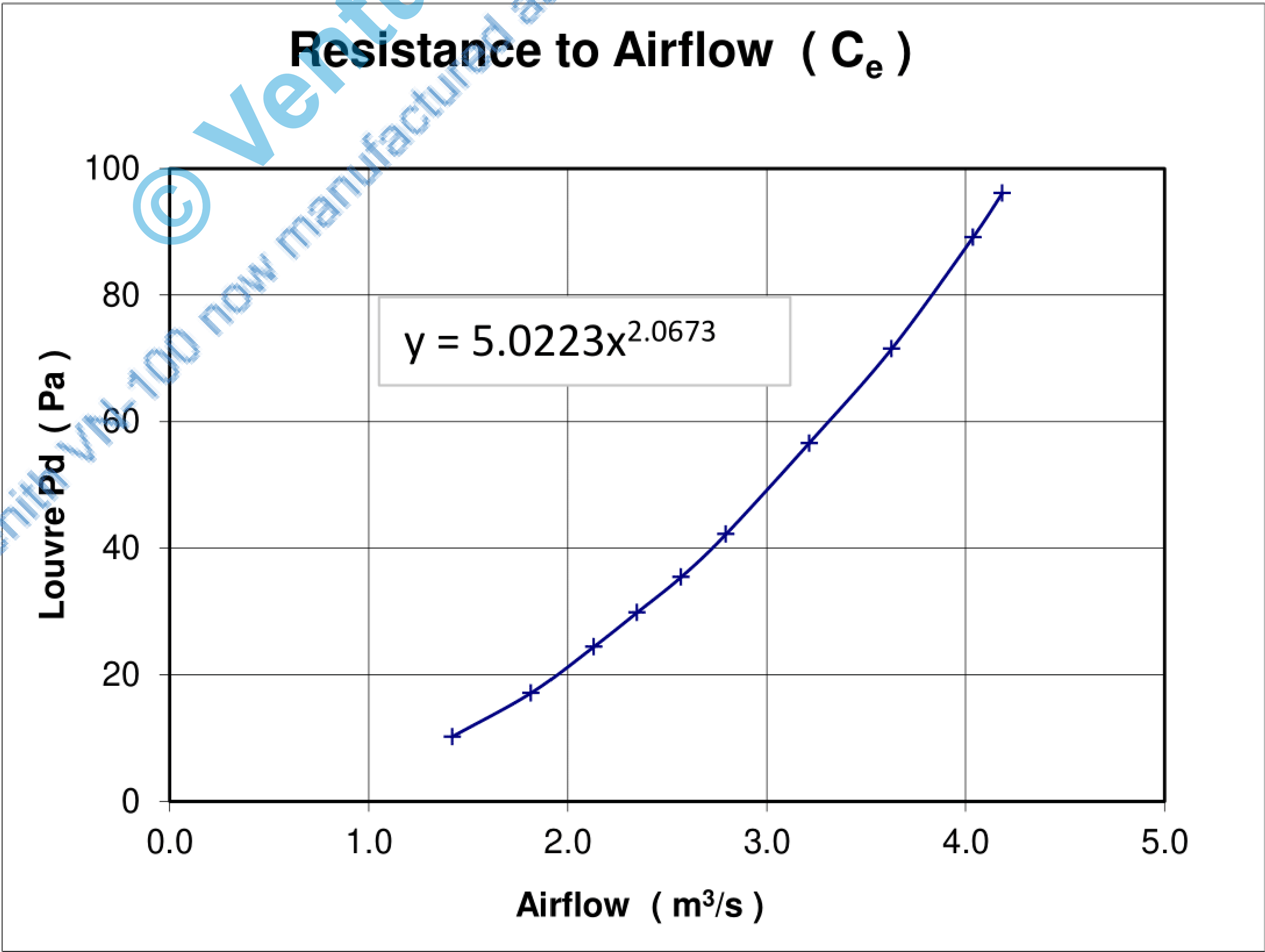
3.2 COEFFICIENT OF ENTRY

MANUFACTURER INSOL Ltd.
MODEL Zenith VN-100

Date 09/08/2016
Contract 59678

air temperature	19.4 °C	louvre height	1036 mm
barometer	1018 mbar	louvre width	1035 mm
air density	1.207 kg/m³	louvre area	1.072 m²

louvre pd Pascals	louvre face velocity	air flow rate		coefficient C _e
	m/s	test m³/s	theoretical m³/s	
10.2	1.32	1.420	4.408	0.322
17.1	1.69	1.816	5.708	0.318
24.4	1.99	2.130	6.818	0.312
29.8	2.19	2.347	7.535	0.312
35.4	2.40	2.568	8.212	0.313
42.2	2.61	2.795	8.966	0.312
56.6	3.00	3.213	10.384	0.309
71.5	3.38	3.628	11.671	0.311
89.1	3.76	4.037	13.028	0.310
96.1	3.90	4.185	13.531	0.309
mean C _e				0.313
Class				2



3.4 COEFFICIENT OF DISCHARGE

MANUFACTURER INSOL Ltd.
MODEL Zenith VN-100

Date 19/08/2016
Contract 59678

air temperature	20.3 °C	louvre height	1036 mm
barometer	997.6 mbar	louvre width	1035 mm
air density	1.180 kg/m ³	louvre area	1.072 m ²

louvre pd Pascals	louvre face velocity	air flow rate		coefficient C _d
	m/s	test m ³ /s	theoretical m ³ /s	
10.1	1.26	1.350	4.437	0.304
12.5	1.39	1.492	4.936	0.302
15.9	1.59	1.700	5.567	0.305
20.2	1.77	1.896	6.275	0.302
25.1	1.99	2.133	6.995	0.305
29.7	2.16	2.318	7.609	0.305
36.3	2.37	2.537	8.412	0.302
56.6	2.96	3.173	10.504	0.302
77.3	3.55	3.803	12.276	0.310
95.5	3.89	4.170	13.644	0.306
mean C _d				0.304
Class				2

