

3 RESULTS

3.1 RAINWATER PENETRATION

MANUFACTURER INSOL Ltd.
MODEL Zenith Mono 100

Date 10/08/2016
Contract 59678

Simulated rainfall 75 mm/hr

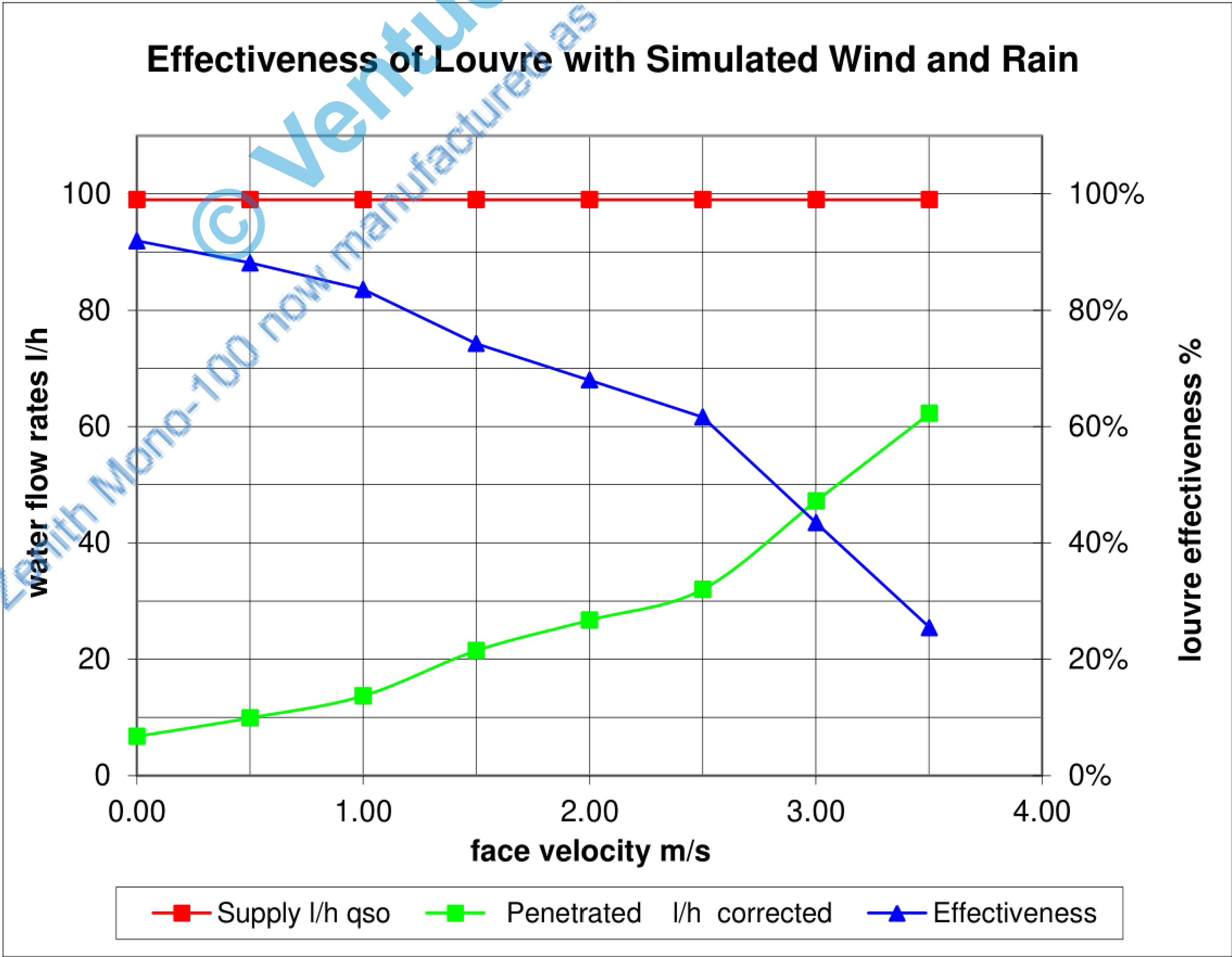
Wind speed 13.0 m/s

louvre height 1040 mm

louvre width 1070 mm

louvre area 1.113 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	6.7	91.9%	C
0.56	0.50	99.0	9.9	88.1%	C
1.11	1.00	99.0	13.7	83.6%	C
1.67	1.50	99.0	21.5	74.3%	D
2.23	2.00	99.0	26.7	68.0%	D
2.78	2.50	99.0	32.0	61.6%	D
3.34	3.00	99.0	47.2	43.4%	D
3.90	3.50	99.0	62.2	25.4%	D



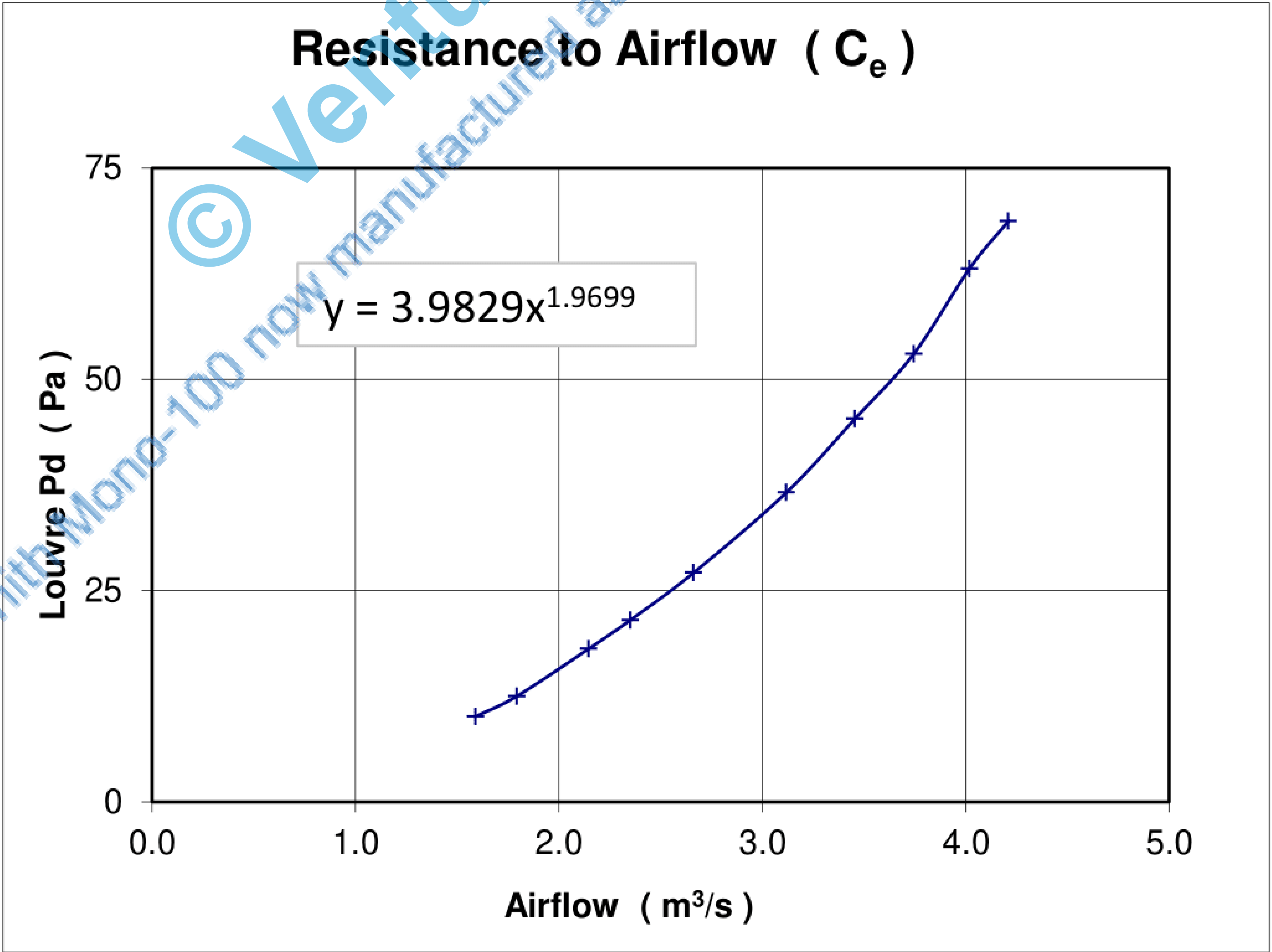
3.2 COEFFICIENT OF ENTRY

MANUFACTURER INSOL Ltd.
MODEL Zenith Mono 100

Date 19/08/2016
Contract 59678

air temperature	20.7 °C	louvre height	1040 mm
barometer	999 mbar	louvre width	1070 mm
air density	1.180 kg/m³	louvre area	1.113 m²

louvre pd Pascals	louvre face velocity	air flow rate		coefficient C _e
	m/s	test m³/s	theoretical m³/s	
10.1	1.43	1.592	4.605	0.346
12.5	1.61	1.794	5.123	0.350
18.1	1.93	2.147	6.165	0.348
21.5	2.11	2.350	6.719	0.350
27.1	2.39	2.662	7.543	0.353
36.6	2.80	3.118	8.766	0.356
45.3	3.10	3.454	9.752	0.354
53.0	3.36	3.744	10.549	0.355
63.1	3.61	4.019	11.510	0.349
68.7	3.78	4.210	12.010	0.351
mean C _e				0.351
Class				2



3.3 COEFFICIENT OF DISCHARGE

MANUFACTURER INSOL Ltd.
MODEL Zenith Mono 100

Date 19/08/2016
Contract 59678

air temperature	20.3 °C	louvre height	1040 mm
barometer	998.4 mbar	louvre width	1070 mm
air density	1.181 kg/m ³	louvre area	1.113 m ²

louvre pd Pascals	louvre face velocity	air flow rate		coefficient C _d
	m/s	test m ³ /s	theoretical m ³ /s	
10.2	1.53	1.700	4.626	0.367
12.8	1.73	1.929	5.182	0.372
16.0	1.93	2.150	5.794	0.371
19.5	2.12	2.358	6.396	0.369
23.3	2.33	2.593	6.992	0.371
27.3	2.51	2.792	7.568	0.369
36.2	2.90	3.231	8.715	0.371
47.2	3.31	3.686	9.951	0.370
57.1	3.64	4.048	10.945	0.370
62.1	3.83	4.257	11.414	0.373
mean C _d				0.370
Class				2

