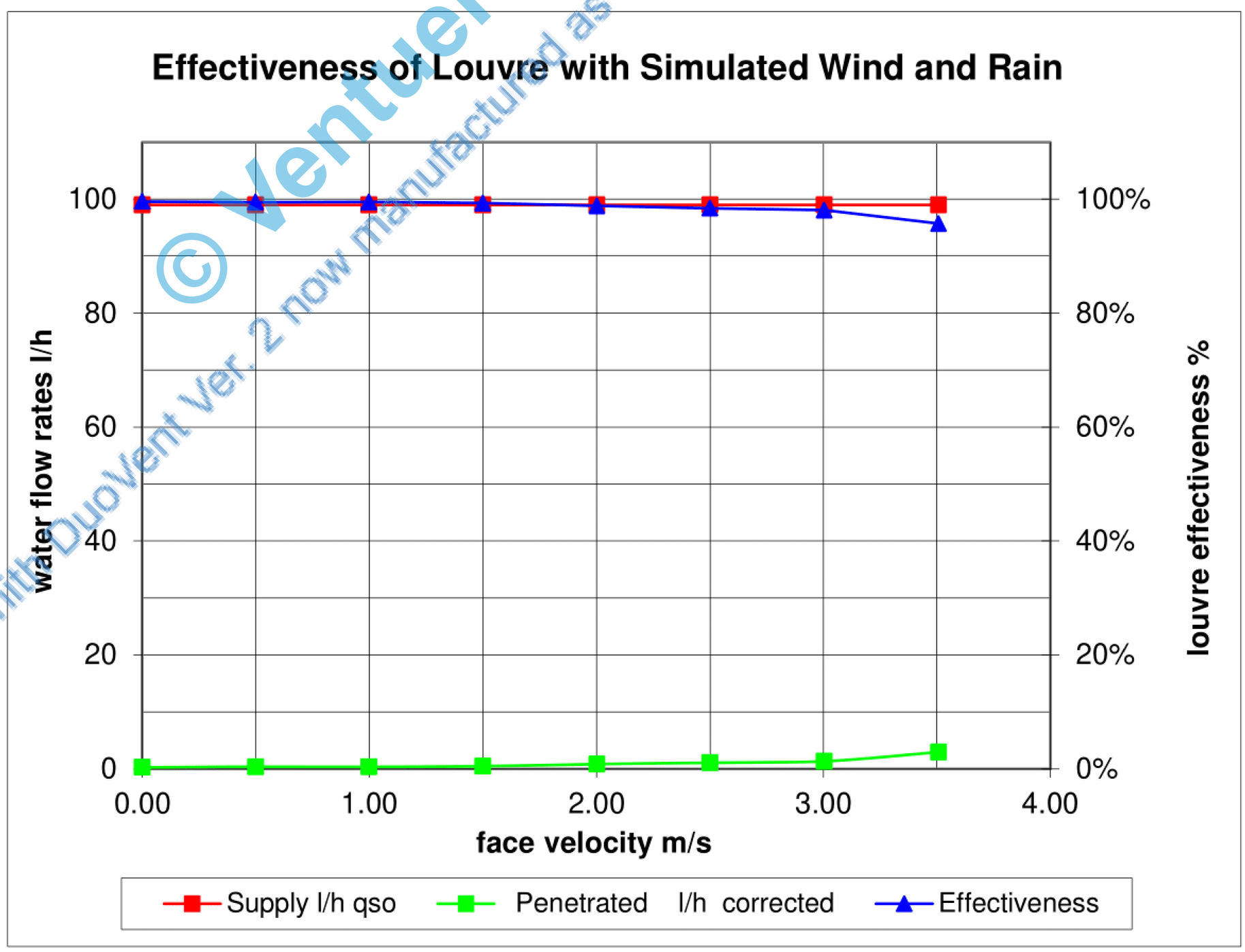
3 RESULTS

3.1 RAINWATER PENETRATION

MANUFACTURER Insol Ltd. Date 08/05/2015
MODEL DuoVent version 2 Contract 58796

			louvre height	970	mm
Simulated rainfall	75	mm/hr	louvre width	950	mm
Wind speed	13.0	m/s	louvre area	0.922	m^2

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	0.3	99.6%	A
0.46	0.50	99.0	0.4	99.5%	A
0.92	1.00	99.0	0.3	99.5%	A
1.38	1.50	99.0	0.5	99.3%	A
1.84	2.00	99.0	0.8	98.8%	B
2.30	2.50	99.0	1.1	98.4%	B
2.77	3.00	99.0	1.3	98.1%	B
3.23	3.51	99.0	3.0	95.7%	B

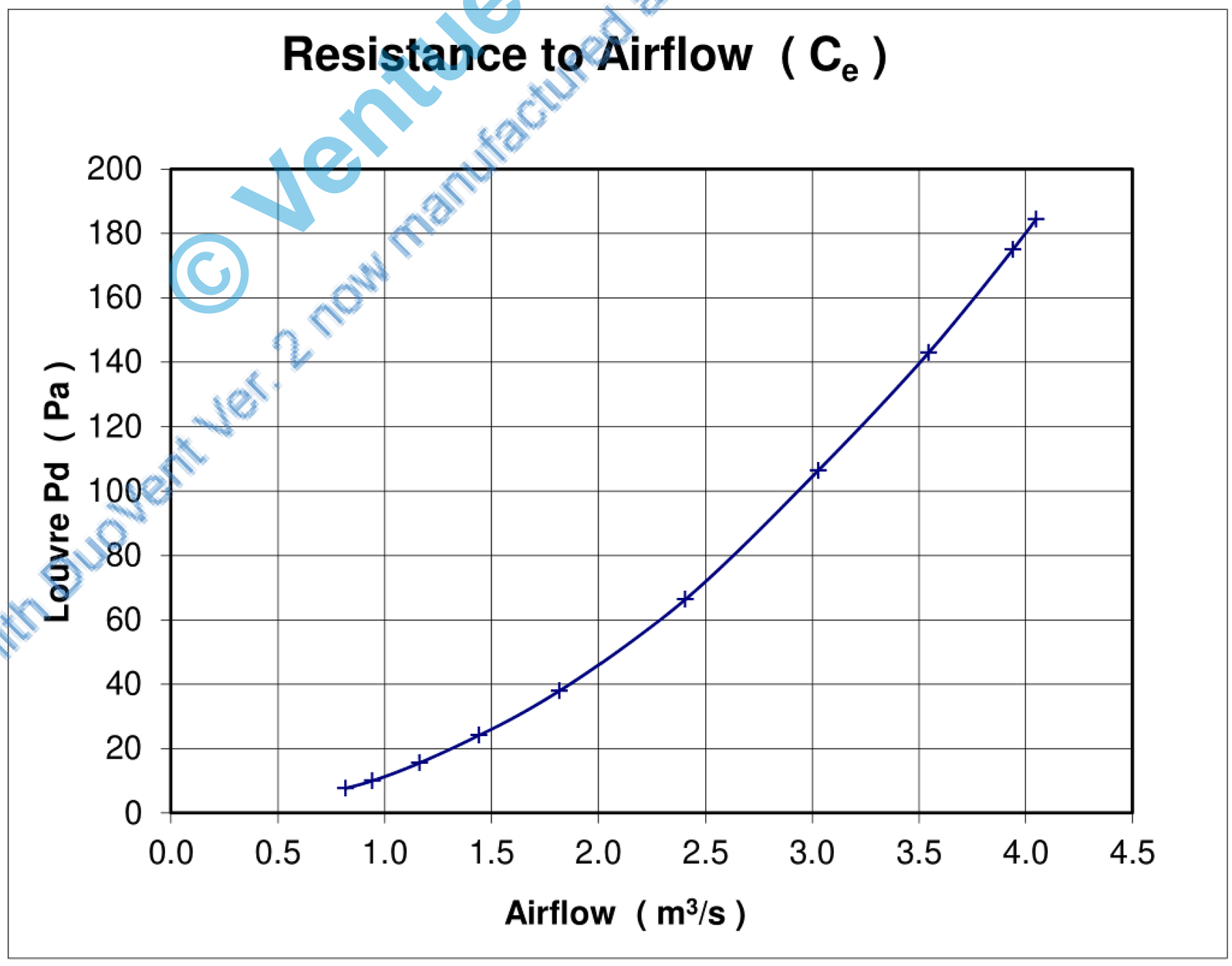


3.2 COEFFICIENT OF ENTRY

MANUFACTURER Insol Ltd. Date 08/05/2015
MODEL DuoVent version 2 Contract 58796

air temperature	19.9	°C	louvre height	970	mm
barometer	1004	mbar	louvre width	950	mm
air density	1.189	kg/m^3	louvre area	0.922	m^2

	louvre face velocity	air flow rate		
louvre pd Pascals	m/s	test m^3/s	theoretical m^3/s	coefficient C_e
7.7	0.89	0.818	3.317	0.247
10.0	1.02	0.943	3.780	0.249
15.6	1.26	1.164	4.721	0.247
24.2	1.57	1.442	5.880	0.245
38.0	1.97	1.820	7.368	0.247
66.4	2.61	2.407	9.740	0.247
106.4	3.29	3.029	12.330	0.246
143.0	3.85	3.546	14.294	0.248
175.0	4.28	3.940	15.813	0.249
184.4	4.39	4.048	16.232	0.249
			mean C_e	0.247
			Class	3



3 RESULTS

3.1 COEFFICIENT OF DISCHARGE

MANUFACTURER INSOL Ltd. Date 09/08/2016
MODEL Zenith Duo Contract 59678

air temperature	18.7	°C	louvre height	1095	mm
barometer	1017	mbar	louvre width	1069	mm
air density	1.209	kg/m^3	louvre area	1.171	m^2

	louvre face velocity	air flow rate		
louvre pd Pascals	m/s	test m^3/s	theoretical m^3/s	coefficient C_d
10.2	1.10	1.293	4.807	0.269
18.7	1.45	1.699	6.509	0.261
24.0	1.63	1.906	7.374	0.258
29.3	1.81	2.124	8.148	0.261
35.2	1.99	2.328	8.931	0.261
50.5	2.34	2.742	10.697	0.256
67.6	2.71	3.171	12.376	0.256
86.4	3.08	3.604	13.992	0.258
105.7	3.40	3.980	15.476	0.257
114.9	3.57	4.177	16.135	0.259

mean C_d	0.260
Class	3