

Fig. 2G Individual condensate droplet weight with corresponding transport speed as a function of the condensation surface particular length on the dry and wet peristome surfaces.

Surface	State	Surface length, L , (mm)	Weight of water, w , (g)	Water transport velocity, v , (mm/s)
Ratchet	Dry	0.41	4.30E-08	0.05
		0.41	5.70E-08	0.07
		0.41	5.30E-08	0.07
		0.41	7.10E-08	0.13
		0.41	6.90E-08	0.08
		0.46	5.20E-08	0.03
		0.46	6.50E-08	0.06
		0.46	6.90E-08	0.11
		0.46	8.40E-08	0.17
		0.46	7.20E-08	0.15
		0.48	5.70E-08	0.07
		0.48	5.20E-08	0.04
		0.48	6.50E-08	0.06
		0.48	6.90E-08	0.07
		0.48	7.30E-08	0.12
		0.50	7.50E-08	0.15
		0.50	7.20E-08	0.14
		0.50	5.90E-08	0.08
	0.50	6.20E-08	0.07	
	0.50	6.80E-08	0.08	
	Wet	0.41	3.60E-08	2.25
		0.41	5.20E-08	2.08
		0.41	5.50E-08	1.22
		0.41	6.30E-08	1.49
		0.41	4.90E-08	1.39
		0.46	4.40E-08	2.10
		0.46	5.50E-08	2.32
		0.46	5.90E-08	1.35
0.46		6.70E-08	2.40	
0.46		6.20E-08	1.97	
Concavity	Dry	0.79	6.30E-07	0.27
		0.79	6.70E-07	0.26
		0.79	7.70E-07	0.30
		0.79	6.10E-07	0.22
		0.84	6.80E-07	0.32
		0.84	7.30E-07	0.24
		0.84	7.50E-07	0.33
		0.84	7.90E-07	0.25
		0.87	8.10E-07	0.30
		0.87	8.40E-07	0.26
Wet	0.79	6.20E-07	6.20	
	0.79	5.70E-07	5.83	
	0.79	6.30E-07	4.69	
	0.79	5.20E-07	5.52	
	0.84	5.30E-07	4.94	
	0.84	6.60E-07	5.83	
	0.84	6.90E-07	4.59	
	0.84	7.10E-07	4.98	
	0.87	6.30E-07	5.21	
	0.87	7.10E-07	5.13	
Arch	Dry	8.97	8.97	8.97
		9.33	9.33	9.33
		9.42	9.42	9.42
		9.84	9.84	9.84
		10.46	10.46	10.46
		10.59	10.59	10.59
		11.03	11.03	11.03
	11.36	11.36	11.36	
	Wet	8.97	2.85E-02	184.24
		9.33	2.51E-02	175.35
9.42		2.85E-02	192.74	
Wet	9.84	3.01E-02	198.23	
	10.46	2.86E-02	183.51	
	10.59	3.21E-02	193.40	
	11.03	3.59E-02	188.84	
	11.36	3.15E-02	183.24	