

Supplemental Information (SI) for:

Wind Tunnel Study on Aerodynamic Particle Resuspension from Monolayer and Multilayer Deposits on Linoleum Flooring and Galvanized Sheet Metal

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SI TABLES

Table S1: Fluorescence stereomicroscope, camera, and morphometry settings

Particle Diameter (μm)	Dye/Filter	Excitation Wavelength (nm)	Emission Wavelength (nm)	Zoom Drive	Focus Drive	Exposure (s)	Gamma	Gain	Image Area (mm^2)	Image Threshold
3	Red/TXR	542	612	72.5	88-90	0.18-1.2	10	10	1.8	25
10	Green/GFP3	468	508	10-11	90-91	1.2-1.5	10	10	55-80	25

Table S2: Approximation of the particle deposit height, δ , and viscous sublayer thickness, y_{VSL} , for multilayer deposit experiments of varying dust load, m_0

m_0 (g/m^2)	δ^+ (μm)	\bar{U} (m/s)	y_{VSL} (μm)
6.23	95	2.5	600
		5	300
7.31	112	7.5	200
		10	150
13.21	202	12.5	120
		15	100
20.25	309	20	75
		25	60

⁺: Determined using Equation 2 of Boor et al. (2013). ATD mass median diameter of $4.5 \mu\text{m}$ and bulk density of $500 \text{ kg}/\text{m}^3$. Assumed porosity of 0.75 due to gravitational settling in the seeding chamber.

Table S3: Approximation of the particle deposit height and viscous sublayer thickness for monolayer deposit experiments

D (μm)	δ^+ (μm)	\bar{U} (m/s)	y_{VSL} (μm)
3	3	25	60
		50	30
10	10	75	20

⁺: For monolayer deposits, δ is equal to the diameter of the deposited particles, D

