

# Solid Waste Engineering A Global Perspective SI Edition 3rd Edition Worrell Solutions Manual

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## Chapter 4

4-1 Required air velocities in pneumatic tubes can be estimated as:

$$V_m = V_c - V_f$$

Where:  $V_f$  = floating velocity (m/min):

$$V_f = 622 \sqrt{(SG)d}$$

$d$  = aerodynamic diameter of the particles (centimeters)

$W$  = the bulk density of the wood,  $296 \frac{\text{kg}}{\text{m}^3}$

$SG$  = the specific gravity of the wood chips, or

$$SG = 0.02(W)^{0.23} = 0.7$$

$$V_f = 622 \sqrt{(0.7)(2 \text{ cm})} = 736 \frac{\text{kg}}{\text{min}}$$

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$V_m$  = the material velocity sufficient to dislodge stuck particles and to even out the flow;

$$V_m = 44.6 \sqrt{W}$$

$$V_m = 44.6 \sqrt{296 \frac{\text{kg}}{\text{m}^3}} = 767 \frac{\text{m}}{\text{min}}$$

Therefore,

# Solid Waste Engineering 2nd Edition Solutions Manual

**R Bogdan**



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