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Chapter 2

2-1 Assume: From table 2-2 , $1.07 \frac{kg}{capita \ / \ day}$;

$$20,000 \text{ people} \times 1.07 \frac{kg}{capita \ / \ day} = 21,400 \frac{kg}{day} = 21.4 \frac{tonnes}{day}$$

landfill capacity = $21.4 \frac{tonnes}{day}$; x 365 days x 10 years = 78,110 tonnes

industrial waste = 900 tonnes per day, so $921.4 \frac{tonnes}{day}$ is generated.

Therefore, capacity will be reached in approximately 85 days instead of 10 years.

2-3 $2 \text{ tracks}(0.5 \text{ ft})(3 \text{ ft}) = 3m^2$; $\frac{8 \text{ tonnes}}{3m^2} = 2667 \text{ kg} / m^2$

2-5 Moisture transfer is the movement of water from wet materials such as food waste to dry absorbent materials like paper.

Assume: $\frac{2.2 \text{ kg}}{capita \ / \ day}$ of waste collection; 220,000 kg/day generated waste;

$$140,000 \text{ m}^3 \text{ capacity} \times 120 \frac{kg}{m} = 1.68 \times 10^7 \text{ kg capacity};$$

Then, the expected life is:

$$\frac{1.68 \times 10^7 \text{ kg}}{220,000 \text{ kg}} \times \frac{1 \text{ day}}{capacity} = 76 \text{ days};$$

However, if it assumed that the refuse is compacted to a density of $450 \frac{kg}{m^3}$.

Steel Design 5th Edition Solution

Wei-Wen Yu



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