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Content Based
Chemical Engineering

Dust Accumulation - Single Area

NFPA 654 (2006), TIA 06-1 (3-1-2011)

EQUIPMENT :
Equip No :
Dust : **Bulk Density :** lb/ft^3

---------- **Adjusted Layer Depth Criterion (in)** ----------

$$\frac{(1/32\ in)(75\ lb/ft^3)}{\text{Bulk Density } (lb/ft^3)} = \quad \text{inch (D)}$$

---------- **User Input** ----------

Room Footprint Area = ft^2 (F)
Actual Accumulation Area = ft^2 (A)
Average Layer Depth in Accumulation Area = in (L)

---------- **Dust Volumes** ----------

Allowable Volume = ft^3
Measured Volume = ft^3

---------- **Ratio** ----------

$$\frac{A \cdot L}{5\% \cdot F \cdot D} = \frac{ft^2 \cdot in}{ft^2 \cdot in}$$

---------- **Result** ----------

Dust Accumulation - Single Area

NFPA 654 (2006), TIA 06-1 (3-1-2011)

EQUIPMENT :
Equip No :
Dust : **Bulk Density :** kg/m^3

---------- **Adjusted Layer Depth Criterion (mm)** ----------

$$\frac{(0.79\ mm)(1201\ kg/m^3)}{\text{Bulk Density } (kg/m^3)} = \quad mm\ (D)$$

---------- **User Input** ----------

Room Footprint Area = m^2 (F)
Actual Accumulation Area = m^2 (A)
Average Layer Depth in Accumulation Area = mm (L)

---------- **Dust Volumes** ----------

Allowable Volume = m^3
Measured Volume = m^3

---------- **Ratio** ----------

$$\frac{A \cdot L}{5\% \cdot F \cdot D} = \frac{m^2 \cdot mm}{m^2 \cdot mm}$$

---------- **Result** ----------

Dust Accumulation - Multiple Areas

NFPA 654 (2006), TIA 06-1 (3-1-2011)

EQUIPMENT :
Equip No :
Dust : **Bulk Density :** lb/ft^3
Room Footprint Area : ft^2 (F)

---------- Adjusted Layer Depth Criterion (in) ----------

$$\frac{(1/32\text{ in})(75\text{ lb/ft}^3)}{\text{Bulk Density (lb/ft}^3)} = \text{inch (D)}$$

---------- User Input ----------

Accumulation Location	Area	Average Layer Depth	Accumulation

---------- Dust Volumes ----------

Allowable Volume = ft^3

Measured Volume = ft^3

---------- Ratio ----------

$$\frac{\text{Accumulation}}{5\% \cdot F \cdot D} = \frac{ft^2 \cdot in}{ft^2 \cdot in}$$

---------- Result ----------

Dust Accumulation - Multiple Areas

NFPA 654 (2006), TIA 06-1 (3-1-2011)

EQUIPMENT :
Equip No :
Dust : **Bulk Density :** kg/m^3
Room Footprint Area : m^2 (F)

---------- Adjusted Layer Depth Criterion (mm) ----------

$$\frac{(0.79\ \text{mm})(1201\ \text{kg/m3})}{\text{Bulk Density (kg/m}^3\text{)}} = \quad \text{mm (D)}$$

---------- User Input ----------

Accumulation Location	Area	Average Layer Depth	Accumulation

---------- Dust Volumes ----------

Allowable Volume = m^3

Measured Volume = m^3

---------- Ratio ----------

$$\frac{\text{Accumulation}}{5\% \cdot F \cdot D} = \frac{m^2 \cdot mm}{m^2 \cdot mm}$$

---------- Result ----------

Dust Accumulation

BASIS : This program is for calculating the allowable dust accumulation for an area.

NOTE : Always begin a new case by retrieving the original file. Direct entry of data in cells that originally contain table lookups could cause functions to be lost and/or incorrect calculations. Cells that require data entry are colored **RED**; calculated values are black.

REFERENCES :

1) *NFPA 654 (2006), TIA 06-1 (3-1-2011)*

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