

# GAUGE THICKNESS (NOMINAL & TOLERANCE)

Gauge	Galvanized Steel		Aluminum		Stainless Steel	
	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
10	.138	.147 .129	.102	.107 .098	.141	.153 .129
12	.108	.117 .099	.081	.085 .078	.109	.118 .100
14	.079	.087 .071	.064	.068 .061	.078	.085 .071
16	.064	.070 .058	.051	.054 .048	.063	.069 .057
18	.052	.057 .047	.040	.043 .037	.050	.055 .045
20	.040	.044 .036	.032	.035 .030	.038	.042 .034
22	.034	.038 .030	.025	.027 .023	.031	.035 .027
24	.028	.032 .024	.020	.022 .018	.025	.028 .022
26	.022	.025 .019	.016	.018 .014	.019	.022 .016
28	.019	.022 .016	.013	.015 .012	.016	.019 .013
30	.016	.019 .013	.010	.012 .009	.013	.015 .011

## Conversion Factors

**1 Ft<sup>2</sup> = 144 In<sup>2</sup>**  
**1 Inch = 2.54 Cm**  
**1 Mile = 5280 Feet**  
**1 mph = 88 fpm**  
**1 in<sup>2</sup> = 6.452 cm<sup>2</sup>**  
**1 Psi = 27.703 inches of H<sub>2</sub>O**  
**1 fpm = .00508 m/s**  
**1 HP = 550 ft-lbf/s = .7457 Kw**

## Equations

$$\text{Velocity (fpm)} = \frac{\text{Cubic Feet per Minute (cfm)}}{\text{ft}^2 \text{ of Free Area}}$$

$$\text{cfm} = \text{fpm} \times \text{Free Area}$$

**PITCH: Given: " Rise & Run "**

$$\text{Pitch in 12"} = \frac{12 \times \text{Rise}}{\text{Run}}$$

**Given: " Degree "**

$$\text{Pitch in 12"} = 12 \times \text{TAN (Degree)}$$