Calculation Tables

Connection between the construction's weight and its surface area

Steel thickness (mm)	1	2	3	4	5	6	7	8	9	10	15	25	50
Surface in m²/mt steel	254	127	85	63	51	42	36	32	28	25	17	10	5

Calculation Formulae

Solid by volume. % $= \dfrac{\text{Dry film x 100}}{\text{Wet film}}$

Wet film in microns $= \dfrac{\text{Dry film x 100}}{\text{Solid by Vol. \%}}$

Dry film in microns $= \dfrac{\text{Wet film x solid by Vol. \%}}{100}$

Theoretical spreading rate, m²/ltr $= \dfrac{\text{10 x Solid by Vol. \%}}{\text{Dry film in microns}}$

Theoretical cost/m² $= \dfrac{\text{Dry film in microns x ltr. Price}}{\text{10 x Solid by Vol. \%}}$

Weight of dry film, gm/cm² $= \dfrac{\text{Weight of dry film x Solid by weight \%}}{\text{Solid by Vol. \%}}$

Weight/m² of dry paint film, kg/m² $= \dfrac{\text{Dry film(microns) x wt of dry film x Solid by weight \%}}{\text{1000 x Solid by Vol. \%}}$

Price/m² $= \dfrac{\text{Dry film x Price/Ltr.}}{\text{10 x Solid by Vol. \%}}$

Theoretical paint consumption, ltr. $= \dfrac{\text{Dry film in microns x area (m}^2\text{)}}{\text{10 x Solid by Vol. \%}}$

Paint consumption with loss $= \dfrac{\text{Dry film x area (m}^2\text{)}}{\text{10 x Solid by Vol. \% x loss factor}}$

Loss Factor
30% loss = 0.7
20% loss = 0.8
10% loss = 0.9