

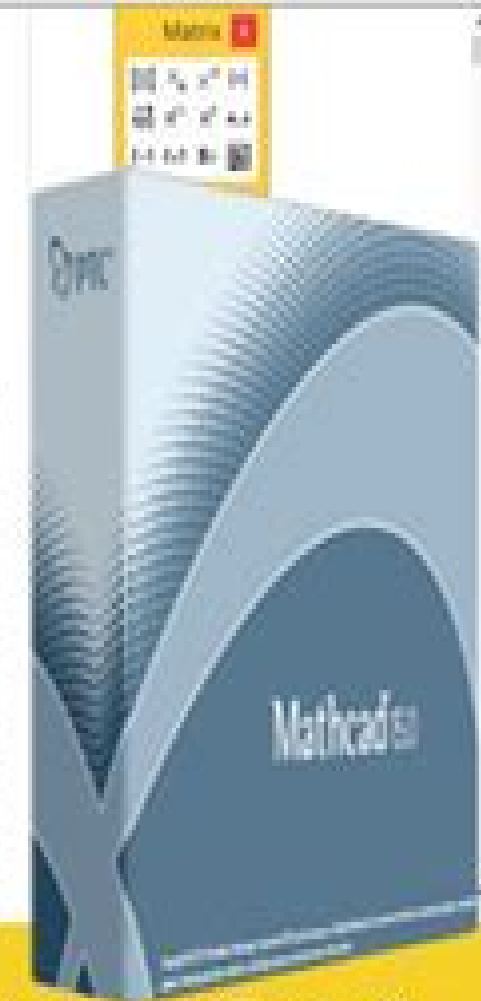
Reinforcement Area & Unit Weight

Bar Diameter: $\phi = 10, 8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 51, 75 \text{ mm}$ Reinforcement Area: $A_s = \frac{\pi \phi^2}{4}$

Number for Bar: $n = 1 \dots 9$ Reinforcement Area according to (n): $A_{s(n)} = n \cdot A_s$

Unit Weight of Bar (ton): $W_{1000} = A_s \cdot 1000 \cdot \frac{\text{kgf}}{\text{cm}^2}$ Unit Weight of Bar (12m): $W_{12m} = A_s \cdot 12m \cdot \frac{\text{kgf}}{\text{cm}^2}$

Diameter of Bar (mm)	Reinforcement Area (mm ²)									Unit Weight/1m (kg)	Unit Weight/12m (kg)
	1	2	3	4	5	6	7	8	9		
8	50.27	100.54	150.81	201.08	251.35	301.62	351.89	402.16	452.43	0.32	3.84
10	78.54	157.08	235.62	314.16	392.70	471.24	549.78	628.32	706.86	0.62	7.44
12	113.10	226.19	339.29	452.39	565.49	678.58	791.68	904.78	1017.88	0.89	10.68
14	153.94	307.88	461.81	615.75	769.69	923.63	1077.57	1231.50	1385.44	1.23	14.76
16	201.08	402.16	603.24	804.32	1005.40	1206.48	1407.56	1608.64	1809.72	1.58	18.96
18	254.47	508.94	763.41	1017.88	1272.35	1526.82	1781.29	2035.76	2290.23	2.00	24.00
20	314.16	628.32	942.48	1256.64	1570.80	1884.96	2199.12	2513.27	2827.43	2.47	29.64
22	380.13	760.27	1140.40	1520.53	1900.66	2280.80	2660.93	3041.06	3421.19	2.96	35.52
25	490.87	981.75	1472.62	1963.50	2454.37	2945.24	3436.12	3927.00	4417.88	3.85	46.20
28	615.75	1231.50	1847.25	2463.00	3078.75	3694.50	4310.25	4926.00	5541.75	4.84	58.08



DIY: Mathcad 15 - Array Origin, and Component(Excel)

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Gregory, Roy, Thorley, Lin



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