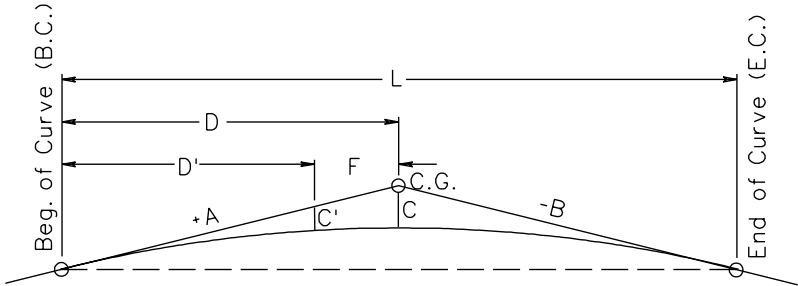


METRIC REBARS, STANDARDIZED ON NORMAL DIAMETERS

Bar Designation	Nom. Mass (kg/m)	Diameter (mm)	Area (mm) ²	Perimeter (mm)
# 10	0.560	9.53	70.97	29.92
# 13	0.994	12.70	129.03	39.90
# 16	1.552	15.88	200	49.86
# 19	2.235	19.05	283.87	59.84
# 22	3.042	22.23	387.10	69.83
# 25	3.973	25.40	509.68	79.81
# 29	5.060	28.65	645.16	90.02
# 33	6.404	32.26	819.35	101.35
# 36	7.907	35.81	1006.45	112.52
# 43	11.384	43.0	1451.61	135.13

PARABOLIC VERTICAL CURVE



- C.G.=Point of change of gradient.
- C =Center correction.
- C' =Correction at any given point on curve.
- D = L/2 =Half length of vertical curve.
- D' =Distance to point where correction is required from beginning or end of curve.

$$C = \frac{\text{Alg. diff.} \times \text{length of curve in stations}}{8}$$

$$C' = C \left(\frac{D'}{D} \right)^2$$

PARABOLIC VERTICAL CURVE COMPUTATIONS

Quantity	From Inch-Pound Units	To Metric Units	Multiply by
Length	mile	km	<u>1.609344</u>
	yard	m	<u>0.9144</u>
	foot	m	<u>0.3048</u>
	foot	mm	<u>304.8</u>
	inch	mm	<u>25.4</u>
Area	square mile	km ²	2.59000
	acre	m ²	4046.856
		ha (10000 m ²)	0.4046856
	square yard	m ²	<u>0.83612736</u>
	square foot	m ²	<u>0.09290304</u>
	square inch	mm ²	<u>645.16</u>
Volume	acre foot	m ³	1 233.49
	cubic yard	m ³	0.764555
	cubic foot	m ³	0.0283168
	cubic foot	cm ³	28316.85
	cubic foot	L (1000 cm ³)	28.31685
	100 board feet	m ³	0.235974
	gallon	L (1000 cm ³)	3.78541
	quart	L (1000 cm ³)	0.946353
	ounce	m ¹	29.5735
	cubic inch	cm ³	<u>16.387064</u>
	cubic inch	mm ³	<u>16387.064</u>
Mass	pound	kg	0.453592
	ounce	g	28.3495
	short ton (2000 lbs.)	metric ton (1000 kg)	0.907184
Velocity	foot/sec	m/sec	<u>0.3048</u>
	mile/hour	km/h	<u>1.6090344</u>

NOTE: Underline denotes exact number.

CONVERSION FACTORS