FREE FALL IMPACT FORCE CHART

Feet		6	10	20	30	50	100	200	300
Meter		1.83	3.05	6.10	9.14	15.24	30.48	60.96	91.44
Pounds	kg	Impact Force Rating in Pounds							
1	0.45	59.3	98.8	197.7	296.2	493.8	987.6	1,975.2	2,962.8
3	1.36	177.9	296.5	592.9	888.4	1,481.4	2,962.8	5,925.6	8,888.4
5	2.27	296.5	494.1	988.2	1,480.7	2,469.0	4,938.0	9,876.0	14,814.0
10	4.54	592.9	988.2	1,976.5	2,961.5	4,938.0	9,876.0	19,751.9	29,627.9
15	6.80	889.4	1,482.4	2,964.7	4,442.2	7,407.0	14,814.0	29,627.9	44,441.9
20	9.07	1,185.9	1,976.5	3,953.0	5,923.0	9,876.0	19,751.9	39,503.9	59,255.8
35	15.88	2,075.3	3,458.9	6,917.7	10.365.23	17,282.9	34,565.9	69,131.8	103,697.7
80	36.29	4,743.6	7,906.0	15,811.9	23,692.0	39,503.9	79,007.7	158,015.5	237,023.2

CHART ASSUMPTIONS: The chart assumes that full PPE is being worn and that the object is blunt with a minimal deceleration (Stopping Distance). Formula Used: 0.5*Object Mass*(Velocity^2))/Stopping Distance

CHART ACCURACY: These calculations are intended to give a general idea of the potential severity of a dropped object. A detailed and specific risk assessment will always deliver a more accurate calculation of potential severity.

CHART WARNING: An object droped at any height should be considered dangerious or even deadly. The purpose of this chart is to emphasize the enormous impanct forces generated with an object dropped from height.

