

METRIC MKS DEFAULTS UNIT SET DEFINED IN ETABS							
Item	Length Unit	Force Unit	Temperature Unit	Units Label	Decimal	Minimum	Zero Tolerance
Absolute Distance	m			m	4	1	5.00E-07
Relative Distance					4	1	5.00E-07
Structure Area	m			m2	2	1	5.00E-05
Angles				deg	3	1	5.00E-06
Section Dimensions							
Length	mm			mm	1	1	0.0005
Area	mm			mm2	1	1	0.0005
Length3	mm			mm3	1	1	0.0005
Length4	mm			mm4	1	1	0.0005
Length6	mm			mm6	1	1	0.0005
Rebar Area	mm			mm2	0	1	0.005
Rebar Area/Length	mm2/m			mm2/m	2	1	5.00E-05
Displacements							
Translational Displ	mm			mm	3	1	1.00E-12
Rotational Displ				rad	6	1	1.00E-12
Drift					6	1	5.00E-09
Gen Displ L/Rad	mm			mm/rad	3	1	5.00E-06
Gen Displ Rad/L	mm			rad/mm	3	1	5.00E-06
Forces							
Force		tonf		tonf	4	1	5.00E-07
Force/Length	m	tonf		tonf/m	3	1	5.00E-06
Force/Area	m	kgf		kgf/m2	2	1	5.00E-05
Moment	m	tonf		tonf-m	4	1	5.00E-07
Moment/Length	m	tonf		tonf-m/m	4	1	5.00E-07
Temperature			C	C	3	1	5.00E-06
Temperature Change			C	C	3	1	5.00E-06
Temperature Gradient	m		C	C/m	2	1	5.00E-05
Stresses							
Modulus	mm	kgf		kgf/mm2	2	1	5.00E-05
Stress Input	mm	kgf		kgf/mm2	2	1	5.00E-05
Stress Output	mm	kgf		kgf/mm2	2	1	5.00E-05
Strain	mm			mm/mm	6	1	5.00E-09
Stiffness							
Translational Stiffness	mm	tonf		tonf/mm	5	1	5.00E-08
Rotational Stiffness	mm	tonf		tonf-mm/rad	2	1	5.00E-05
TransRot Coupled Stiff		tonf		tonf/rad	4	1	5.00E-07
Trans Stiffness/Length	mm	tonf		tonf/mm/mm	6	1	5.00E-09
Rot Stiffness/Length		tonf		tonf/rad	4	1	5.00E-07
Trans Stiffness/Area	mm	tonf		tonf/mm/mm2	6	1	5.00E-09
Time Related							
Period				sec	3	1	5.00E-06
Frequency				cyc/sec	3	1	5.00E-06
Acceleration-Trans	mm			mm/sec2	2	1	5.00E-05
Acceleration-Rot				rad/sec2	3	1	5.00E-06
Velocity-Trans	mm			mm/sec	2	1	5.00E-05
Velocity-Rot				rad/sec	3	1	5.00E-06
Other Time (Seconds)				sec	4	2	5.00E-07
Mass and Weight							
Mass	m	N		kg	2	1	5.00E-05
Mass/Length	m	N		kg/m	3	1	5.00E-06
Mass/Area	m	N		kg/m2	3	1	5.00E-06
Mass/Volume	m	N		kg/m3	3	1	5.00E-06
Weight		tonf		tonf	5	1	5.00E-08
Weight/Length	m	kgf		kgf/m	2	1	5.00E-05
Weight/Area	m	kgf		kgf/m2	2	1	5.00E-05
Weight/Volume	m	kgf		kgf/m3	2	1	5.00E-05
Weight*Length2	m	kgf		kgf-m2	2	1	5.00E-05
Rotational Inertia	m	tonf		tonf-m-s2	4	1	5.00E-07
Length5	m			m5	6	1	5.00E-09
Modal Factors							
Modal Participation - Trans	mm	tonf		tonf-mm	6	1	5.00E-09
Modal Participation - Rot	mm	tonf		tonf-mm	6	1	5.00E-09
Modal Stiffness	mm	tonf		tonf-mm	3	1	5.00E-06
Participation Mass Ratios					4	1	5.00E-07
Modal Mass	mm	tonf		tonf-mm-s2	4	1	5.00E-07
Damping Items							
Eff Damping - Trans	mm	tonf		tonf-s/mm	5	1	5.00E-08
Eff Damping - Rot	mm	tonf		tonf-mm-s/rad	2	1	5.00E-05

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Eff Damping - Coupled		tonf		tonf-s/rad	5	1	5.00E-08
NL Damping - Trans	mm	tonf		tonf*(s/mm)^Cexp	2	1	5.00E-05
NL Damping - Rot	mm	tonf		tonf-	3	1	5.00E-06
Eff Damping - Trans/Length	mm	tonf		tonf-s/mm2	6	1	5.00E-09
Eff Damping - Trans/Area	mm	tonf		tonf-s/mm3	6	1	5.00E-09
Damping Ratio					4	1	5.00E-07
Miscellaneous							
1/Length	m			1/m	3	1	5.00E-06
1/Length2	m			1/m2	3	1	5.00E-06
Price/Weight		kgf		Price/kgf	6	1	5.00E-09
Energy	m	tonf		tonf-m	4	1	5.00E-07
Thermal Coefficient			C	1/C	8	1	5.00E-11
Slider Rate	mm			sec/mm	5	1	5.00E-08
Demand Capacity Ratio					3	1	5.00E-06
Reinforcement Ratio					4	1	5.00E-07