

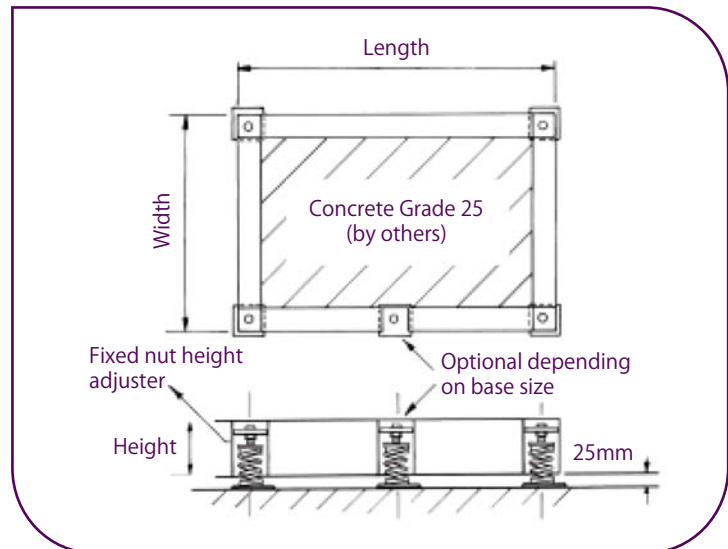
## Inertia Bases//Type TIB

An inertia base is normally required when vibrating plant is required to be isolated with high deflection mounts, typically above 10mm deflection. If plant, such as a pump, is placed on springs without a frame base, it will be unstable.

An inertia base is a frame base into which concrete is poured, which increases the mass of the base, consequently damping down the inertial forces of the plant. The increased mass of the concrete in the base also lowers the centre of gravity of the combined structure, decreasing the base dimensions required to achieve stability. The height of the frame of the base must be at least of the longest dimension between supporting mounts.

Type TIB Inertia bases comprise a frame section manufactured from folded steel sheet typically mm thick. Mounting plates are manufactured from 10mm thick plate. Reinforcing bars are fitted into the bases. The base would normally be finished with grey or red primer - other finishes can be applied as required. Concrete would be supplied and poured into the bases by others.

The base should be placed on a fixed former prior to pouring. Following curing of the concrete, the base should be lifted and the mounts fitted. Height adjustment and levelling of the base can be achieved by adjusting the fixed nut on the mounts, maintaining a minimum dimension of 25mm between the bottom of the base and the supporting structure. We would recommend that the base is temporarily fixed solid by chocks between the bottom of the base and the supporting structure prior to installation of equipment on the base. Following fitting of the supported equipment the chocks should be removed and the base levelled. The bases may be fitted with open springs, restrained springs or neoprene mounts.



**Dimension & Weight Table**

150mm High Base			200mm High Base			300mm High Base		
Width mm	Base Length mm	Weight Kg	Width mm	Base Length mm	Weight Kg	Width mm	Base Length mm	Weight Kg
450	450	100	N/A	N/A	N/A	N/A	N/A	N/A
450	600	125	N/A	N/A	N/A	N/A	N/A	N/A
450	900	165	450	900	190	N/A	N/A	N/A
450	1200	210	450	1200	270	N/A	N/A	N/A
600	600	160	600	600	200	N/A	N/A	N/A
600	900	200	600	900	260	N/A	N/A	N/A
600	1200	260	600	1200	340	N/A	N/A	N/A
600	1500	320	600	1500	420	N/A	N/A	N/A
900	900	275	900	900	350	900	900	540
900	1200	360	900	1200	480	900	1200	715
900	1500	420	900	1500	570	900	1500	885
900	1800	520	900	1800	700	900	1800	1055
1200	1200	500	1200	1200	660	1200	1200	975
1200	1500	620	1200	1500	820	1200	1500	1215
1200	1800	745	1200	1800	885	1200	1800	1460
1200	2100	840	1200	2100	1115	1200	2100	1670
1200	2400	970	1200	2400	1285	1200	2400	1920
1500	1500	970	1500	1500	1015	1500	1500	1510
1500	1800	930	1500	1800	1225	1500	1800	1820
1500	2100	1080	1500	2100	1425	1500	2100	2120
1500	2400	1240	1500	2400	1640	1500	2400	2430
1800	1800	1120	1800	1800	1475	1800	1800	2190
1800	2100	1300	1800	2100	1715	1800	2100	2545
1800	2400	1490	1800	2400	1990	1800	2400	2915
2100	2100	1520	2100	2100	1900	2100	2100	2850
2100	2400	1740	2100	2400	2130	2100	2400	3250
2400	2400	1980	2400	2400	2615	2400	2400	3880

Please note: The sizes in the table are typical but we can manufacture to any size required. Please note a clearance of at least 150mm should be allowed around the base to allow adjustment of the levelling nuts.