

Northern Office:

Unit 4 Eagle Park, Eagle Park Drive,
Warrington. WA2 8JA
t: 01925 582899 f: 01925 582898

Southern Office:

Dugard House,
Peartree Road, Colchester. CO3 0UL
t: 01206 216 690 f: 01206 577954

info@cmsantivibration.co.uk
www.cmsantivibration.co.uk



CMS Structural Bearings

Overview

Inner city residential and commercial developments are often constructed in areas next to or nearby mainline railways, which risks repeated exposure to the noise and vibrations resulting from passing trains. Not only can this have a detrimental impact on building support structures, it can also cause disturbance to residents or workers within the buildings. The solution for new constructions is to isolate foundations with elastomeric anti-vibration bearings.

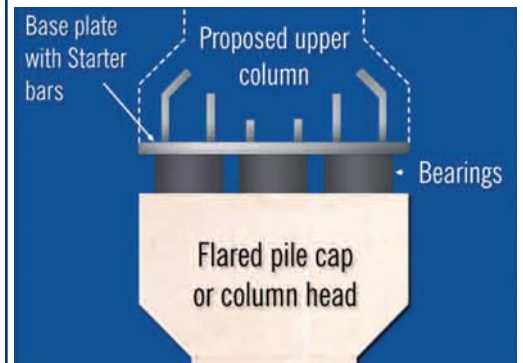
CMS structural bearings are available as natural rubber/steel plate bearings, designed to BS 5400 and fabric reinforced bearings to BS 6177.

The CMS Vibrations technical team can advise on the most suitable bearing system for individual projects.

Installation

In some cases, side restraint will be required to ensure the stability of the structure. This can usually be provided by steel dowels which should always have a rubber dowel sleeve, or some form of side restraint bearings incorporating sliding faces, to account for vertical compression of the main bearings.

Fail safe devices are usually fabricated steel boxes or strip designs but concrete upstands can also be used. For in situ concrete structures, a filler e.g. clayboard, polystyrene or other suitable filler material, can be used to infill between bearings prior to casting. Alternatively, a galvanised steel base plate with starter bars can be used as a permanent shutter on top of groups of bearings.



structural bearing

Applications

Bearings can be used in any environment where a structure needs to be isolated from a source of vibration. This includes:

- Offices
- Hospitals
- Apartments
- Oil rig modules
- Auditoria
- TV, radio and other studios

Benefits

- Superior dynamic performance
- Maintenance-free working life
- Absorb vibration
- Prevent sound transfer
- Available in any plan size

