

Seismic Restraint Type WMB / LMB

Restraint Capacity up to 55Kn Vertical

APPLICATION / DESCRIPTION

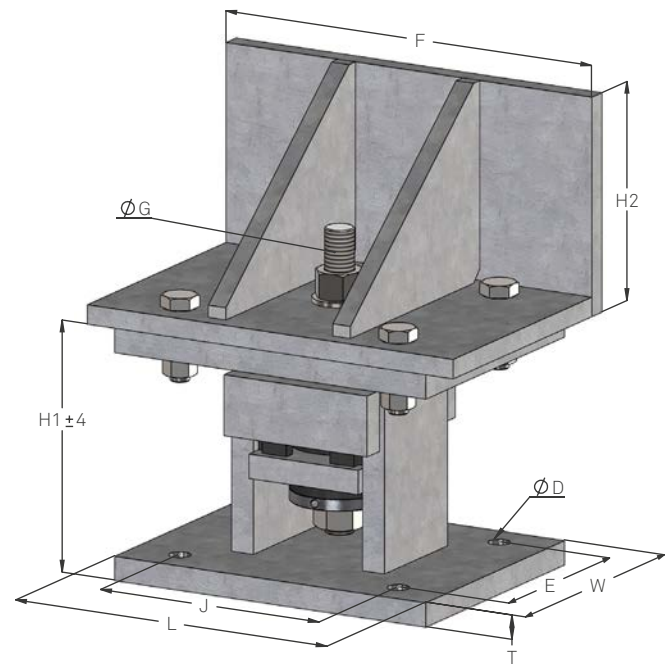
A galvanised steel seismic restraint with integral bracket for welding to the side of equipment such as diesel generator sets and chillers which are supported on open spring or pad mounts.

Seismic restraint WMB/LMB conform to requirements of the following:

- AS 1170.4 for Australian seismic zones
- NZS 4219 for New Zealand seismic zones
- Most international seismic codes

FEATURES

- Single adjustable central vertical restraint bolt
- Replaceable shock absorbing rubber snubbers
- Can be supplied with holes for bolting to equipment



WMB-LMB

WMB / LMB Dimensions

Type	Vertical Restraint kN	Horizontal Restraint kN	Dimensions mm									
			D	E	F	G	H1	H2	T	L	W	J
LMB	34	20	17	116	210	M20	163	130	16	210	150	150
WMB	55	35	22	160	335	M24	206	130	20	285	220	200

CONSTRUCTION

Hot dipped galvanised steel construction.

RESTRAINT CAPACITY

Restraint capacity is given as a maximum static force. The following can be applied simultaneously in one lateral direction and vertically up or down:

TYPE WMB

Vertical: 55kN

Lateral: 35kN

TYPE LMB

Vertical: 34kN

Lateral: 20kN

At maximum restraint loads, the displacement from normal operating position is approximately 10mm.

RESTRAINT SELECTION

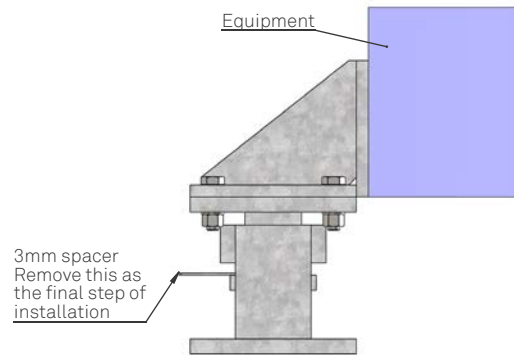
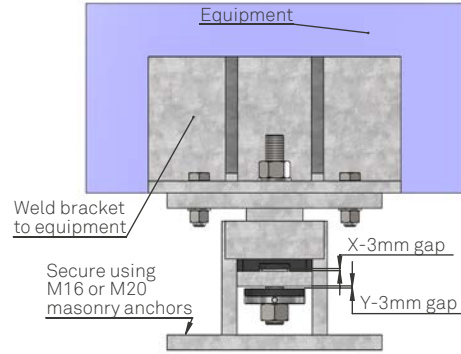
When selecting mounts, it is recommended that a safety factor of 10-20% is applied to the calculated mass of equipment to avoid overloading of any restraint.

RESTRAINT SYSTEM

These mounts incorporate replaceable resilient rubber snubbers for both vertical and lateral restraint. Vertical restraints have a normal design clearance of 3mm (gaps X and Y) in both directions and are adjustable ± 3 mm in conjunction with level adjustments. Lateral restraints have a fixed clearance of nominal 5mm.

INSTALLATION

1. LMB/WMB are supplied with a 3mm vertical spacer to ensure that gap X is maintained when bracket is welded to side of equipment.
2. Slide assembly alongside equipment, mark base plate position holes.
3. Drill holes in slab to suit M16 or M20 masonry anchors.
4. Bolt restraint in position.
5. Weld bracket to side of equipment.
6. If gap Y is outside tolerance, hold rebound washer stationary and rotate the restraining bolt to adjust.
7. Lock steel washer and lower restraint nut together tightly.
8. Remove 3mm spacer and set gap to 3mm.



WMB-LMB INSTALLATION

TECHNICAL ASSISTANCE

All Embelton offices can provide detailed technical assistance on the use of this product in specific applications.

CONDITIONS OF SALE

These products are sold subject to the published Embelton General Conditions of Sale, copies of which may be inspected on request.

SPECIFICATION

For seismic restraint of equipment on open springs or pads. They shall be Seismic Restraint Blocks type LMB/WMB as supplied by Embelton.