

Floating Floor Mount Type CEFM2

Jacking Case Housing, Rubber Element

APPLICATION

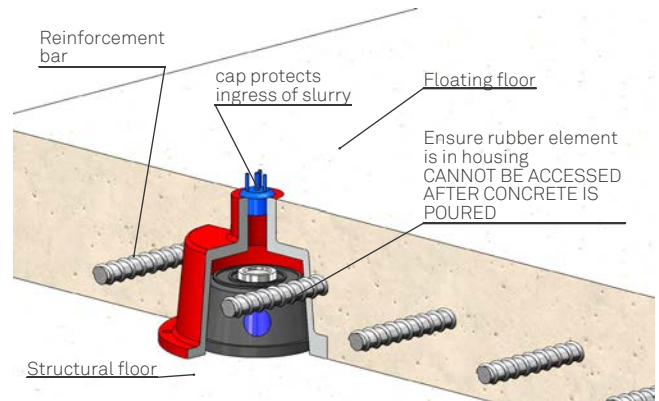
Used where an integral jacking mounting system is required for support and acoustical isolation of floating concrete floors. The CEFM2 mount offers a cost-effective, high load capacity support system for floors in highly critical applications such as theatres, hospitals and studios, as well as for isolating high noise sources such as plant rooms in multistorey buildings.

FEATURES

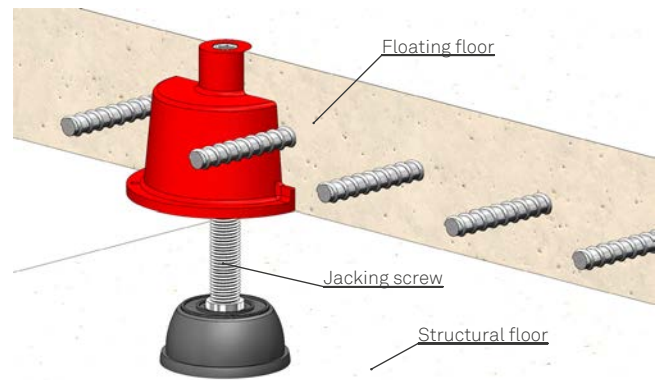
- Capable of jacking floating floor from zero elevation
- Load capacity up to 1,300kg/mount
- Rugged cast iron housing
- Standard design is for 150mm thick floors. The housing can be fitted with a height extension unit for floors of greater thickness
- Positioning supports for reinforcing bars
- 6mm or 12mm static deflection options

OPTIONS

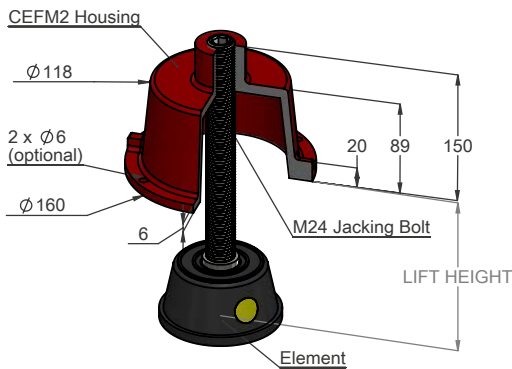
- Base flange holes for fastening to elevated form work if required
- 150mm jacking bolt provides a lift height of 48-85mm (RMC only)
- 120mm jacking bolt provides a lift height of 20-60mm (RMC) or 45-80mm (XRMC)



CEF M2 JACK-UP FLOATING FLOOR LOWERED



CEF M2 JACK-UP FLOATING FLOOR RAISED



CEF M2 DIMENSIONS

CEF M2 PRODUCT GUIDE AND DIMENSIONS

Type	Max Load kg	Dynamic Factor	Static Deflection mm	Colour Code	Element Height mm	Diameter mm
RMC-1	380	1.2	6	Blue	46	106
RMC-2	580	1.4		White		
RMC-3	850	1.5		Red		
RMC-4	1,300	1.6		Green		
XRMC-1	380	1.2	12	Blue	76	106
XRMC-2	580	1.4		White		
XRMC-3	850	1.5		Red		
XRMC-4	1,300	1.6		Green		

PRODUCT DESCRIPTION

The CEFM2 housing is designed to be embedded in the concrete floor slab, where integral positioning supports provide for ready location of the reinforcing bars. An M24 jacking bolt with hexagon socket head is supplied in a length to suit the application.

Internal lugs to position the active element on installation are incorporated so that the element is precisely centralised with the jacking bolt.

The use of a jacking type mount eliminates the need for plywood or form board overlays whilst ensuring that a positive air gap is achieved once jacked – no slurry ingress into the cavity can occur once the air gap is formed.

ELEMENT CHARACTERISTICS

The active rubber element (type RMC/XRMC) is manufactured from a high quality natural rubber blend giving excellent dynamic performance and low long term creep. All compounds used are tested to ASTM D2000 for original physical properties, ageing and compression set.

A thick steel plate is integrally moulded into the top of the element with a removable loading button to locate the jacking screw.

LIFT HEIGHT

Lift height is the separation distance between the bottom of the housing and the bottom of the RMC/XRMC element. The upper limit is set by a minimum thread engagement in the housing, the lower limit by the necessity for the bolt head to be at or below the top of the housing when the floor is jacked.

The maximum lift height is 85mm, set by bending restraints on the bolt and housing.

INSTALLATION

Installation procedures will depend upon the thickness of the floor slab.

Generally the top of the CEFM2 housing can be used as a screeding level for the floor, with external positioning lugs used to locate the reinforcing steel.

As the active element is captive within the housing, it cannot be removed or replaced. For this reason care must be taken to ensure that each housing has an element inside it prior to placing the reinforcement steel, and that the element is fitting snugly between the internal centralising lugs.

Check that the plastic snap-in cap provided is in place to prevent the jacking screw thread from filling up with concrete, and ensure that the housing has minimal gaps under the base flange which could allow entry of concrete slurry. It is best to seal the housing/floor interface if in doubt.

For floating floors which use a cavity infill material and corresponding form board overlay, holes can be provided in the base flange of the mount for attachment to the board.

For floating floors over 150mm thick, a height extension unit can be provided.

JACKING PROCEDURE

Full jacking instructions, including the recommended jacking sequence, are prepared specifically for each project where requested.

Please note: Jacking is usually done one screw turn at a time on all housings in rotation to minimise slab distortion and screw loads. Lubrication of the jacking screw is mandatory.

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

Mounts for the floating floor slabs shall comprise a cast housing with M20 socket head jacking bolt and a rubber element moulded from prime materials, and capable of 6mm static deflection at rated load. Mounts shall be able to lift the floor from zero elevation to design operating height and must have the facility to support reinforcing steel at height positions consistent with structural requirements. They will be type CEFM2 as supplied by Embelton.