

Ceiling Clips Type FCB

Single Deflection Rubber

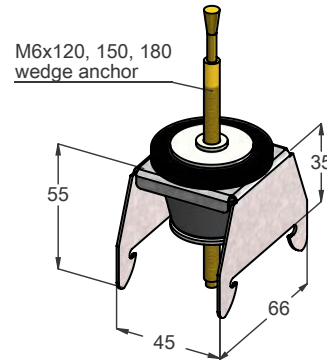
APPLICATION

Typically used for suspended architectural ceilings, where a low cost, low deflection, light to medium duty hanger is required for the effective isolation of noise and vibration from the levels above and below the ceiling.

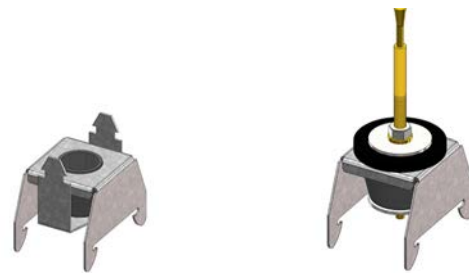
The FCB bracket is used below a concrete slab and can either be used by connecting directly to the slab (FCB-X) or between a top cross rail and furring channel (FCB-R).

FEATURES

- Static deflection of 5mm
- The active element is colour coded for easy identification of load range
- If mechanical or fire damage occurs, metal plates in the hanger element interlock so that complete loss of support is less likely



FCB DIMENSIONS



FCB-R

FCB-X

CONNECTION OPTIONS

FCB PRODUCT GUIDE

Bracket	Rubber Element	Rubber Element Colour	Max Load kg	Dynamic Factor	Static Deflection mm	Height Rubber Element mm
FCB	CHE	Blue	17	1.0	5	31
		White	25	1.0		
		Red	40	1.2		

DYNAMIC CHARACTERISTICS

Rubber mounts differ from spring mounts in that the natural frequency is a function not only of deflection, but also of the rubber hardness (durometer), an indication of rubber's damping capabilities.

The natural frequency is usually greater than indicated by static deflection alone. For effective assessment of natural frequency, multiply natural frequency obtained from static deflection by the dynamic factor given in the table.

PERFORMANCE CHARACTERISTICS

Axial loads: See table – Load deflection is close to linear from 10% to 100% load.

Creep: Maximum 4% deflection per decade of time (ref 1 minute).

HANGER SELECTION

When selecting hangers, it is recommended that the calculated mass of the ceiling is overestimated by 10-20% to avoid overloading of any element. If maximum rated deflections are required, then ceiling should be weighed and an accurate assessment of loads made.

INSTALLATION – CONNECTION R

1. Install top cross rail as normal at 1200 centres.
2. Slide on 4-6 FCB-R brackets to top cross rail, adjust to 600 centres.
3. Attach furring channels.

INSTALLATION – CONNECTION X

1. Ensure upper and lower fastenings are in vertical line.
2. Drill $\varnothing 6$ hole in the concrete. The spacing should be 600 x 1200mm.
3. Insert wedge anchor in hole and pull down to lock in anchor.
4. Adjust height using nuts on assembly, use laser to align mounts.
5. Connect furring channels along the 1200mm spacing, furring channels now 600mm apart.

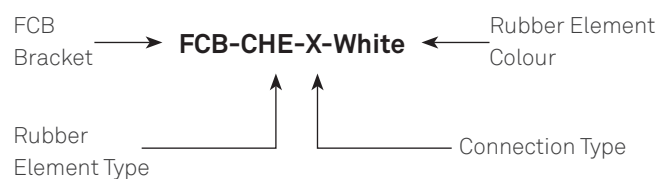
TECHNICAL ASSISTANCE

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

CONDITIONS OF SALE

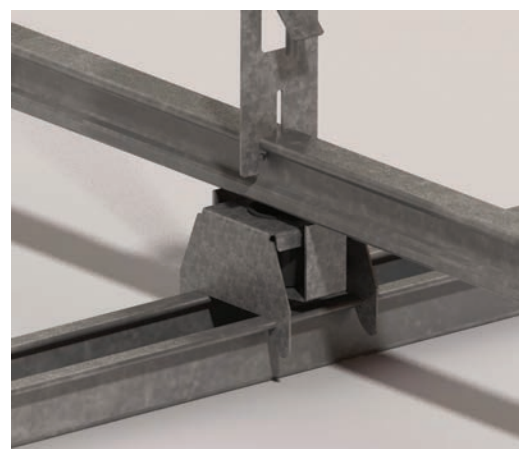
These products are sold subject to the published Embelton General Conditions of Sale, copies of which may be inspected on request.

ORDERING INFORMATION (EXAMPLE)



SPECIFICATION

Suspension hangers shall have an active rubber element colour coded for easy identification of load capacity, with a minimum deflection under rated load of 5mm incorporating a steel plate completely embedded in the elastomer, which interlocks in the event of fire or mechanical damage. They shall be type FCB as supplied by Embelton.



FCB-CHE-R-WHITE INSTALLATION