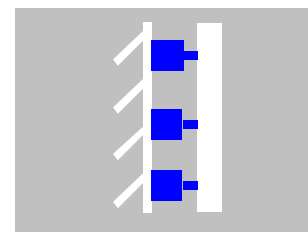


## 3.4 ACOUSTIC WALL FIXINGS



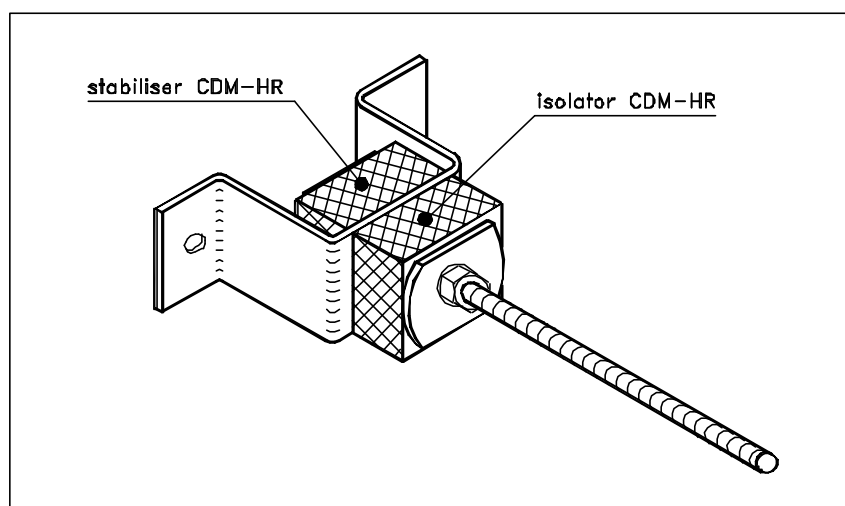
CDM-ISO-WH

### 1. APPLICATIONS

The **CDM-ISO-WH** suspension elements are acoustic fixings made to fix a structure to the wall avoiding stiff contacts. A **CDM-ISO-WH** suspension element is conceived in such a way that every stiff contact between the suspended wall and the existing wall is eliminated. In this way a mass-spring-mass system is created that considerably reduces noise transmission.

### 2. CDM PRODUCTS AND SYSTEMS

The **CDM-ISO-WH** element consists of two basic elements, made of CDM-HR material. The first part is the isolator element, the CDM bearing that ensures the isolation effect and the second part is the stabiliser element, the CDM bearing that decouples the precompression bolt from the equipment. A steel plate regulates the load-distribution of the precompression force over the bearing. No washer is required as the CDM-HR material is squeezed inside the element avoiding all direct contact between the precompression bolt and the separating steel plate. All the metal parts of the suspension element are made of stainless steel (specifications on demand). The hangers are available with straight threaded rod (for dry wall constructions) or with a hook (for wet wall constructions).



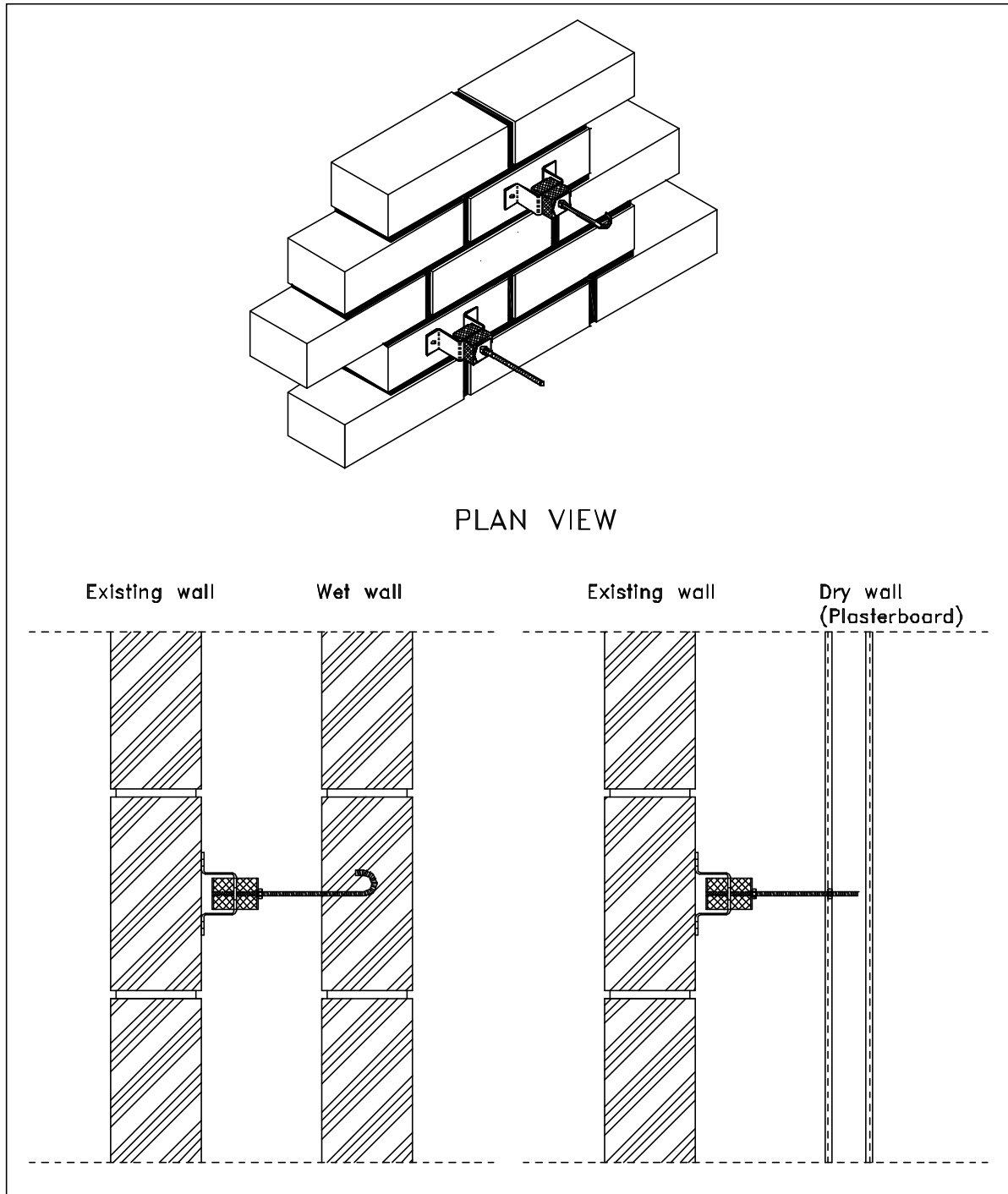
### 3. PERFORMANCE

The **ISO-WH** elements have a dynamic stiffness of 0.39 MN/m (measured as described in Applied Acoustics 58 p. 51-68 (1999)) which is far below the advised value of 1.7 MN/m.

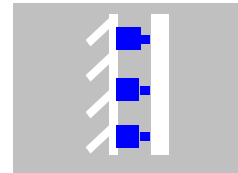
## 4. INSTALLATION

- Avoid all stiff contacts between the suspended wall and the existing structure. Special attention should therefore be paid to the perimeter of the wall and ducting facilities.
- No maintenance required after installation. The system can easily be removed without structural changes.

Some application examples are given in the figure below.

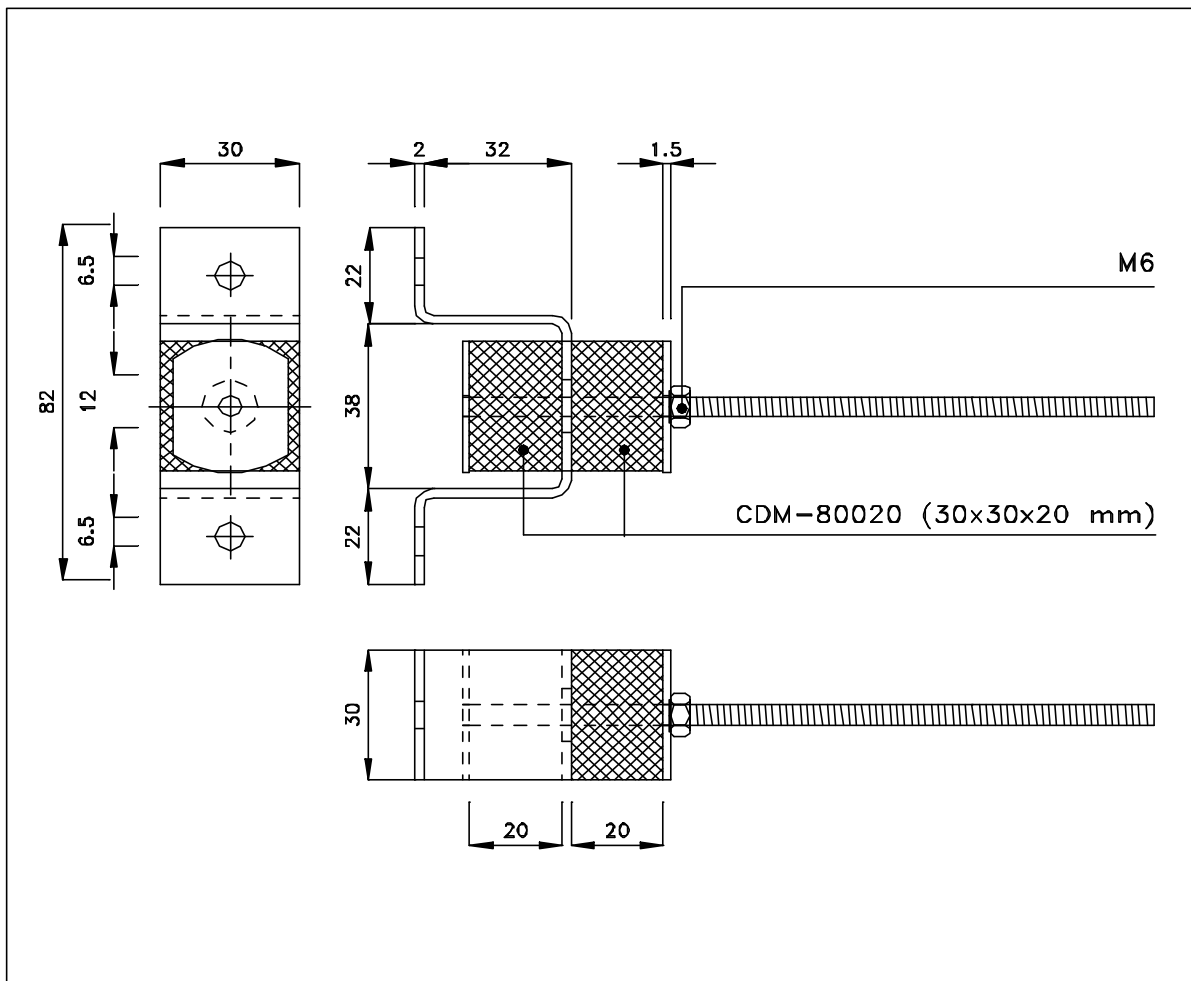


# CDM-ISO-WH



CDM-ISO-WH

Properties		ISO-WH
Hmax	[N]	500
Deflection at Hmax	[mm]	2
Dynamic stiffness	[MN/m]	0.39



ACOUSTIC WALL FIXING ISO-WH

