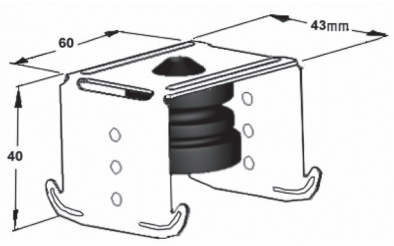
Vibro-QH mini

ANTI-VIBRATION HANGER for GYPSUM BOARD CEILINGS



Description

Vibro-QH mini is an anti-vibration hanger that can be combined with a suitable reinforced and modulated galvanized metal suspension hanger, offering vibration isolation on sound insulation gypsum board ceilings. The hole of the rubber of the **Vibro-QH mini**, is ⌀8 mm for the pass-through bolt (not inlcuded).
A long threaded rod could be used in order to adjust the height of the false ceiling.

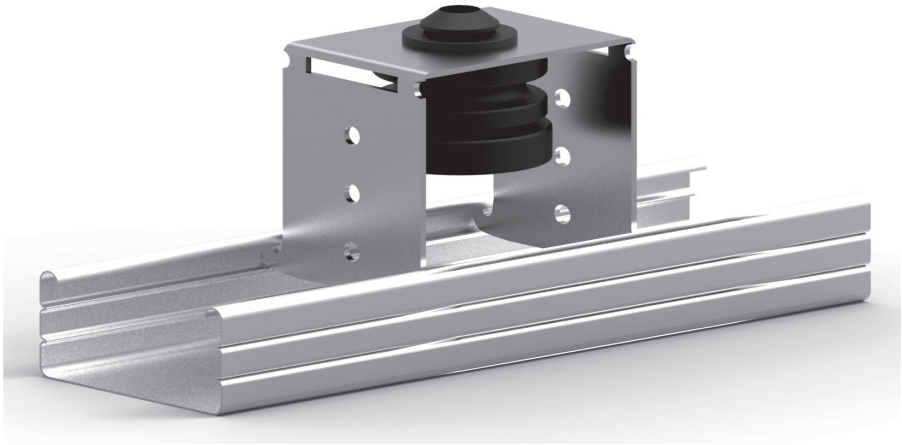
The suspension hanger has grappling edges for quick and easy connection with the standard ceiling profiles 60 x 27mm, according to DIN 18182-1. These edges help the adaptation with standard metal profile of the false ceilings so that they can easily handled. Therefore, the working cost is decreased and it also facilitates the work of the installer.

Applications

It can be used as sound insulation false ceiling hanger, quick connection with the metal profile of ceiling systems etc.

Dynamic Characteristics

Maximum Load: 20 Kp*
Natural Frequency: 15 Hz
Other loads uppon request.
**1 kp = 10 N*



*Design and Production according to Quality Management System **ISO 9001.2008** & Environmental Management System **ISO 14001.2004***

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Dynamic Characteristics VIBRO QH mini

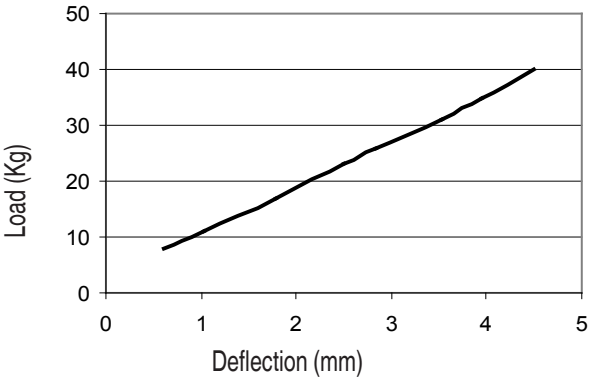
Dynamic Selection Method

The deflection (mm) has to be checked, taking into account the assessed load (g) per hanger point (chart 1).

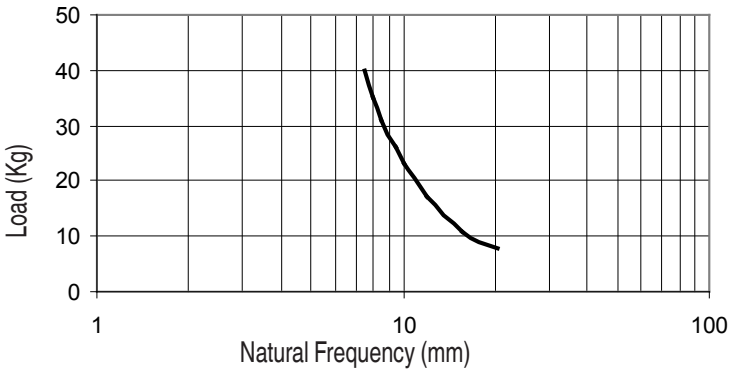
Then the natural frequency of the antivibration hangers, can be calculated (chart 2)

$$fn = \frac{1}{2\pi}\sqrt{\frac{K}{M}}$$

LOAD– DEFLECTION DIAGRAM

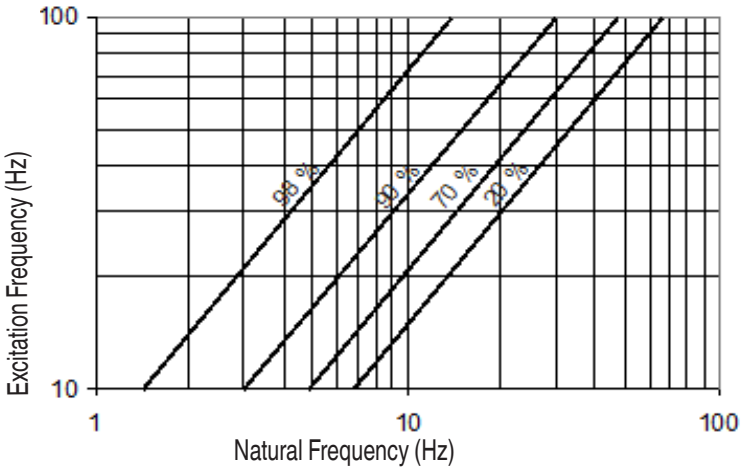


LOAD – NATURAL FREQUENCY DIAGRAM



From Chart 3, with the assessed excitation frequency of the machine (fe=rpm/60) and the natural frequency derived from chart 2, the % theoretical vibration reduction (efficiency, n) can be calculated).

For achieveing oprtumum results in special applicatios, we recommend to contact our technical department for selecting the best antivibration solution.



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