

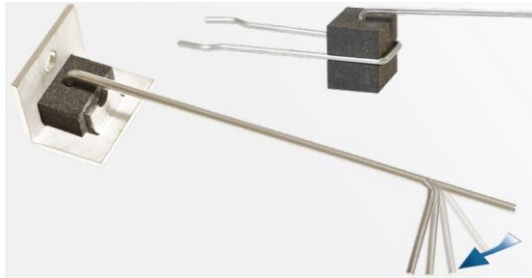
**PLAKA dBREAK – ACOUSTICAL WALL TIE**

**Acoustical fixation for double walls**

REF 12.01.01 - Version V01 - 18/08/2020



**Description**



The acoustical wall tie is composed of 3 elements: a stainless steel holder, a rubber block (cork- elastomer – 30x30x25mm) and a one-sided folded wall tie (ø4mm).

The steel holder and wall tie are the mounting parts towards the load-bearing wall and the masonry wall respectively while the rubber block ensures the acoustic decoupling of the fixation.

This provides the replacement of rigid contacts caused by the classic steel wall ties by flexible connections whereby the walls are connected without vibration transmission.

In case of a concrete wall as a support structure, the holder has a L-shape placed against the structure. For masonry walls, the holder has a U-shape that has to be placed in the mortar joint.

**Application fields**

Sound and vibrations from the outside affect outside walls and can be spread through the floor and the internal walls in the building in the form of airborne noise. The acoustical wall tie is used as a connection element (stability) between doubled-up walls and works following the mass-spring-mass principle. Therefore, the transmission of vibration from outside to the internal structure will be limited.

Principle applications:

- Decoupling of external walls with a lot of noise from the outside
- Provisional facades of rowhouses
- Partition walls between flats
- Decoupling of noisy room

**Properties**

Mechanical properties	
Service load P	500 N
Failure load	1920 N
Displacement	
at 1/3 service load (P/3)	1mm
at service load (P)	3mm
Natural frequency between P/3 and P	11-16Hz
Density of the acoustic block	1100 kg/m <sup>3</sup>
Creep rate	0,66% (< 2% creep criterion)
Elastic recuperation (30 min after removing)	98,33%
Thermal conductivity λ	0,18 W/mK

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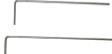
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**Dimensions**

Dimensions and materials				
Article	Description	Picture	Weight	Code
Acoustic block	cork-rubber composite strengthened with Kevlar fibres 30x30x25mm		2,6 kg/100	HUCACD3030254
Steel holder				
L-shape	St. steel 304 - 40x50x40mm		5,90 kg/100	HUCALI240403
U-shape	St. steel 304 Ø3mm - 100x30x100mm		1,20 kg/100	HUCAUI2003
Wall tie	St. steel 304 Diameter 4mm Length in function of the installation : Length 200mm Length 250mm		2,20 kg/100 2,70 kg/100	HUCACI2420040 HUCACI2425040
Minimum cavity width				
L-shape	45mm			
U-shape	35mm			

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