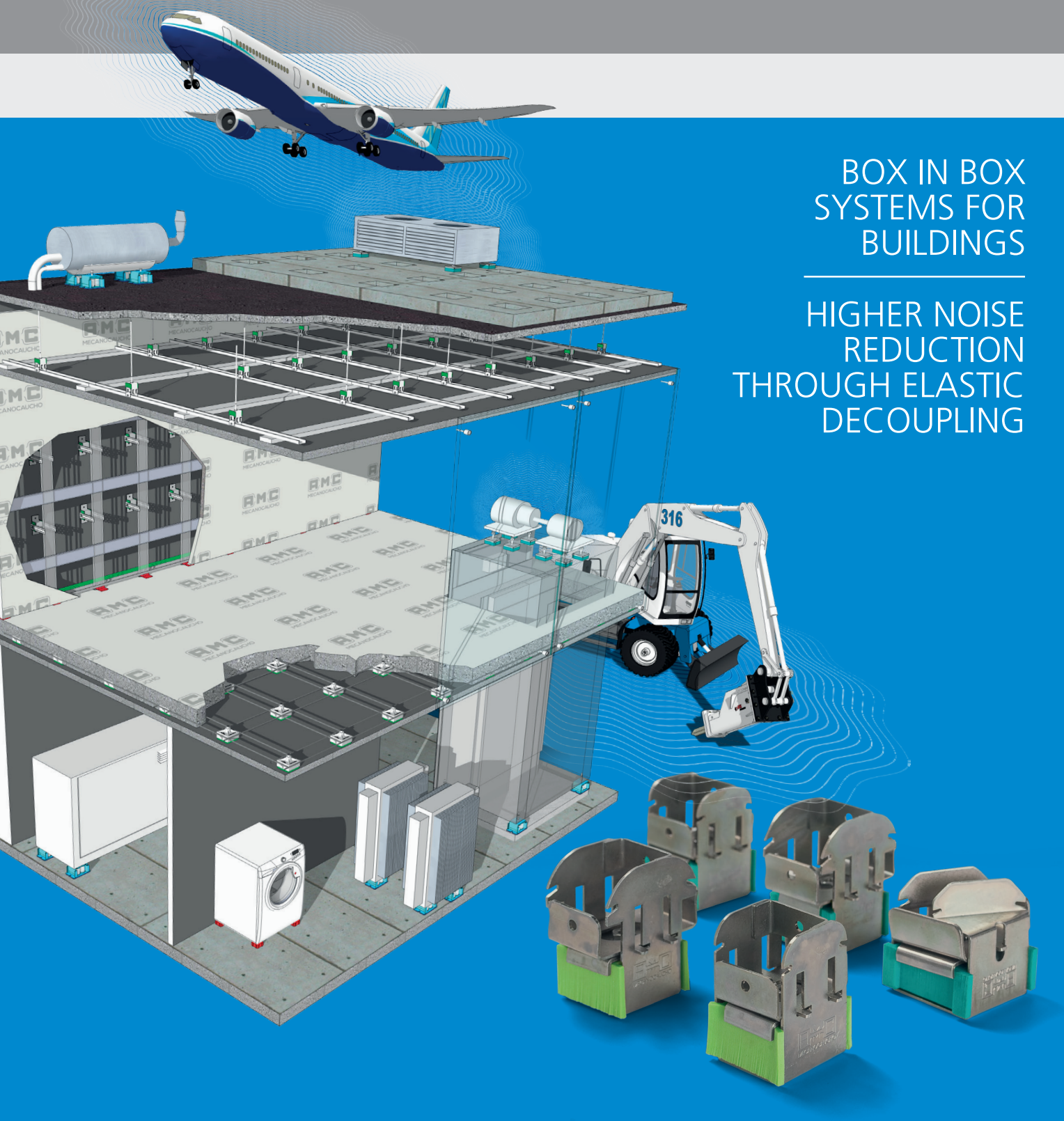


General catalogue

Akustik+sylomer®

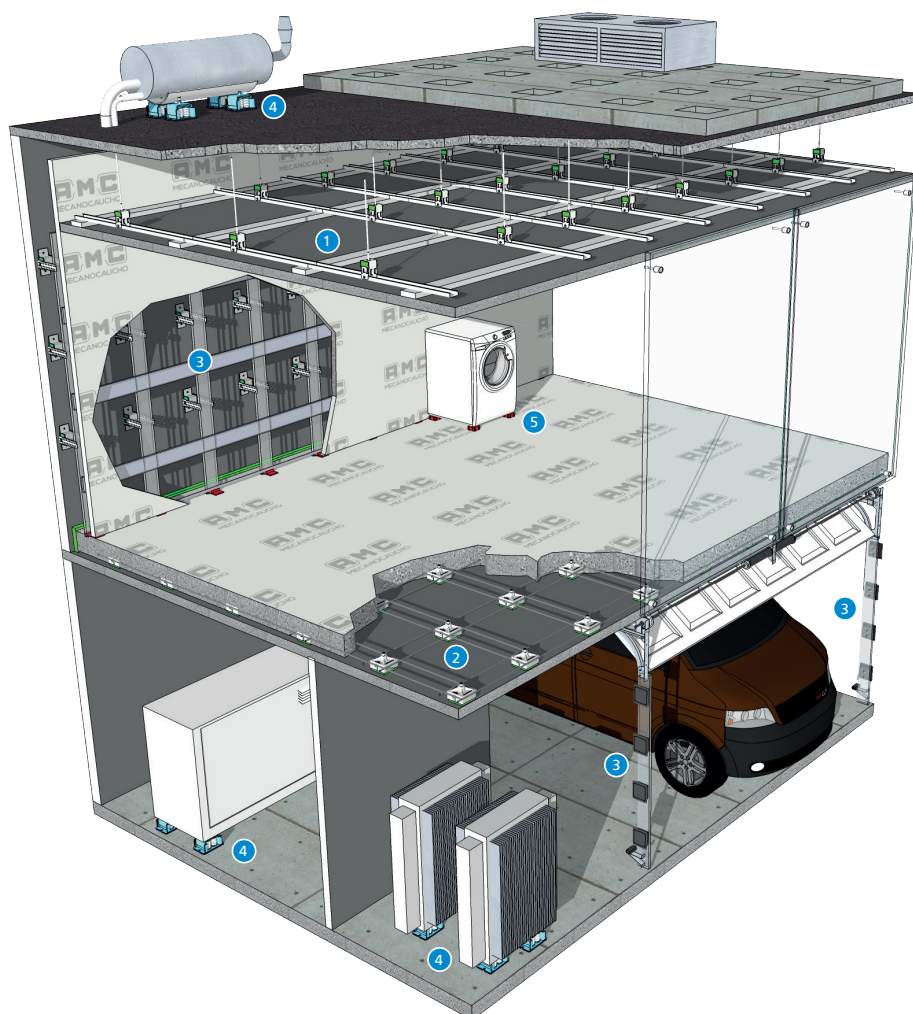
by getzner

®



BOX IN BOX
SYSTEMS FOR
BUILDINGS

HIGHER NOISE
REDUCTION
THROUGH ELASTIC
DECOUPLING



150 MODELS OF ACOUSTIC HANGERS

The **widest** range on the market

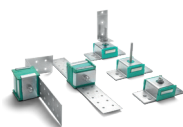
① NOISE ISOLATION - CEILING



② NOISE ISOLATION - FLOOR



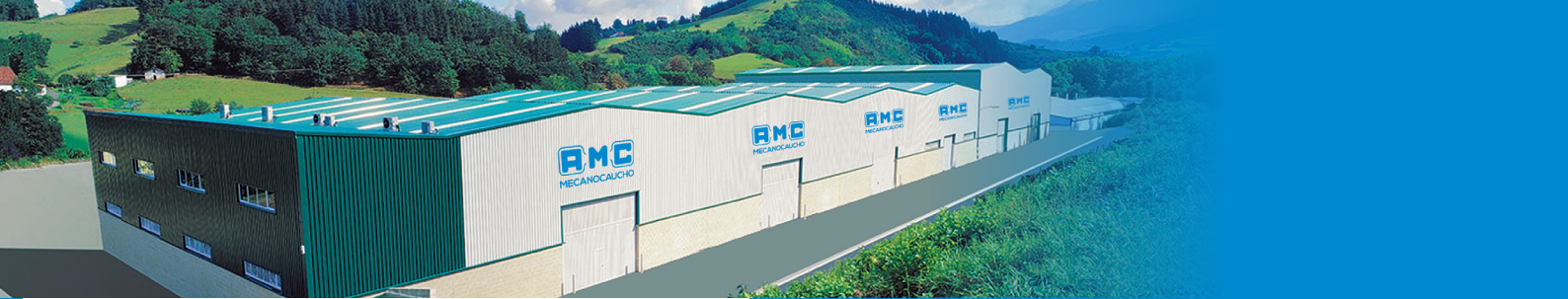
③ NOISE ISOLATION - WALL



OTHER PRODUCTS



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AKUSTIK+SYLOMER®	
CEILING MOUNTS	
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Grand Akustik+Sylomer®	Page 20
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FZH+Sylomer®	Page 34



Factory 1 of AMC-MECANOCAUCHO



Factory of AMC 2 MECANOCAUCHO S.A.



Factory of Getzner Werkstoffe in Austria.



getzner
engineering a quiet future

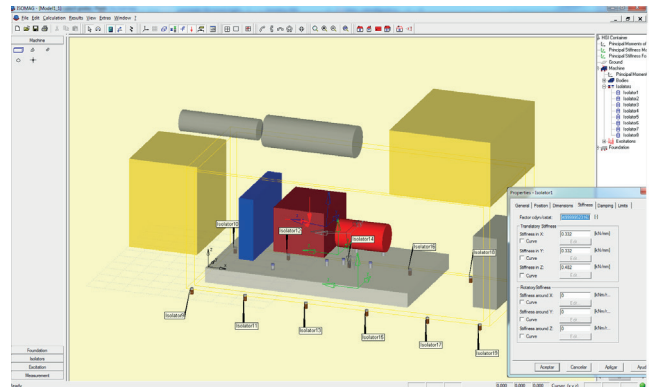
Akustik+Sylomer® is the trademark of a new solution for the anti-vibration mountings of false ceilings or vibrating elements that have to be suspended. They are used for the attenuation of vibrations, reducing structure-borne noise.

AMC-MECANOCAUCHO® has been manufacturing anti-vibration suspensions since 1969, and since then it has been manufacturing suspensions for this same purpose, using rubber, spring or a combination of both, called **Akustik**.

GETZNER Werkstoffe GmbH manufactures a prestigious anti-vibration material called **Sylomer®** which is used for protection against vibration and noise in the rail, construction and industry sectors. Operating from Austria since 1969, it is now the leader in its sector, and boasts totally cutting-edge technological facilities and media for vibration isolation.

The **Akustik+Sylomer®** ceiling mounts are made of Sylomer®, a microcellular polyurethane material specially conceived for vibration isolation. This material produces a higher degree of damping than the elastomers traditionally used for this purpose.

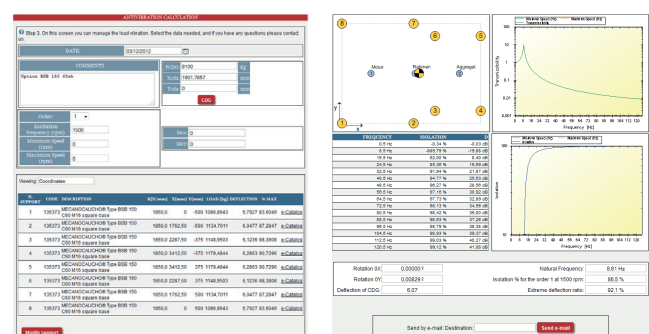
ENGINEERING



LOGISTICS



ANTIVIBRATION CALCULATIONS

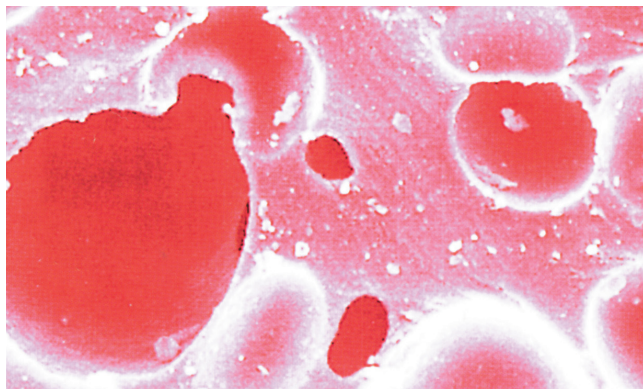


EXPOSITION TOOLS FOR DISTRIBUTORS



< The cooperation of two great companies

QUALITY



We have more than 45 years of experience providing quality products, capable of overcoming the most demanding tests. For this purpose it is vital our knowledge on the correct manufacturing processes and the use first grade components.

SERVICE



We keep in stock more than 4.5 Million euros of finished products. This fact is key to respond quick to urgent enquiries.

ENGINEERING SERVICES



Calculations • Development • Tests • Measurements

Our technical department makes calculations, develops new products, analyzes their elastical properties and make on site measurements in order to find the correct technical solution to solve each vibration problem.

DISTRIBUTOR SUPPORT



AMC-MECANOCAUCHO offers a wide range of exposition displays on store. Should you require one, do not hesitate to contact our sales dpt, so they can offer you the one that adapts better to your needs.



ACOUSTIC HANGER PRO



The app that helps you find the correct acoustic hanger

1 FILL IN THE INPUT DATA

Indicate if you want to isolate a floor or a ceiling. Then introduce the weight per square meter and distance between hangers/mounts.

Location

Load

Kg/m²

Distance between points

A (cm) B (cm)

2 SELECT THE PERFORMANCE LEVEL

Introduce the natural frequency that you require. If you ignore this value you can select if your preference is high isolation or cost effectiveness. You can also select if the elastic material is rubber, Sylomer or spring.

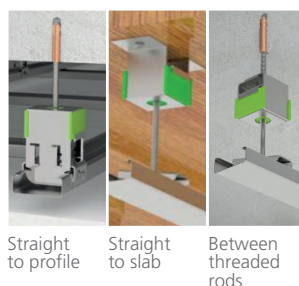
Best price Best isolation

☐ I know the natural frequency

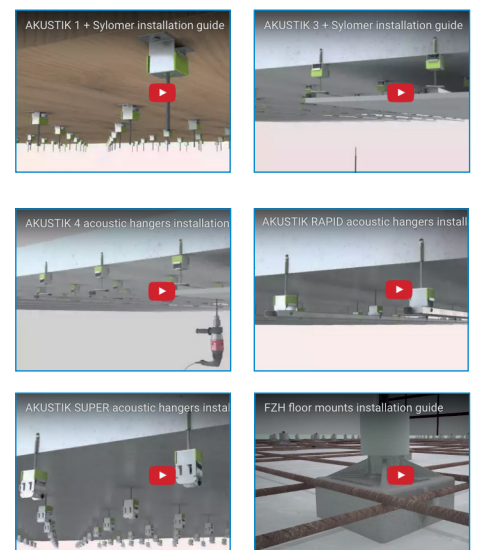
Material

3 SELECT THE INSTALLATION TYPE

In case that you want to isolate a ceiling, you must indicate if the hanger has to be anchored to the slab, to the metallic beam or between rods. This will provide you a range of selected hangers and mounts that will fulfil your requirement.

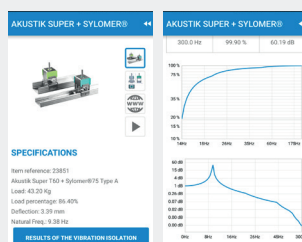


YOU WILL HAVE ACCESS TO EXTRA CONTENT:



4 OBTAIN RESULTS

Select the hanger that suits best. This will lead you to a page where you will be able to check the isolation level. On this page you will be able to receive the complete vibration isolation level, data sheet, installation video or even require a quotation/ offer.



www.acoustichangerpro.com



COMPARATIVE TESTS AT THE LABEIN TECHNOLOGY CENTRE

Akustik+Sylomer® is the trademark of a new solution for the anti-vibration mountings of false ceilings or vibrating elements that have to be suspended. They are used for the attenuation of vibrations, reducing structure-borne noise.

The **Akustik+Sylomer®** ceiling mounts are made of Sylomer®, a microcellular polyurethane material specially conceived for vibration isolation. This material produces a higher degree of damping than the elastomers traditionally used for this purpose.

The **Labein** technology centre performed a series of comparative tests to confirm the good acoustic results of **Akustik+Sylomer®**. This centre is officially ENAC-certified and complies with the requirements of the ISO 140-1:1997 standard.

PURPOSE OF THE TEST

The purpose of the test is to compare, in equal conditions, the acoustic isolation to air-borne noise of a false ceiling without anti-vibration suspensions (direct transmission) to a false ceiling with the new **Akustik+Sylomer®** suspensions.

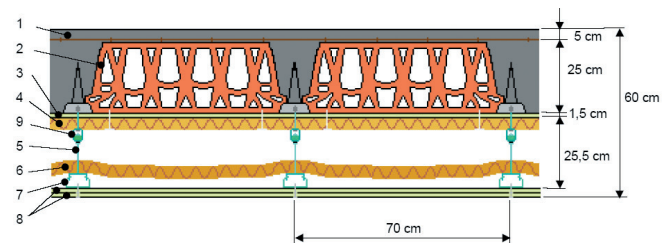
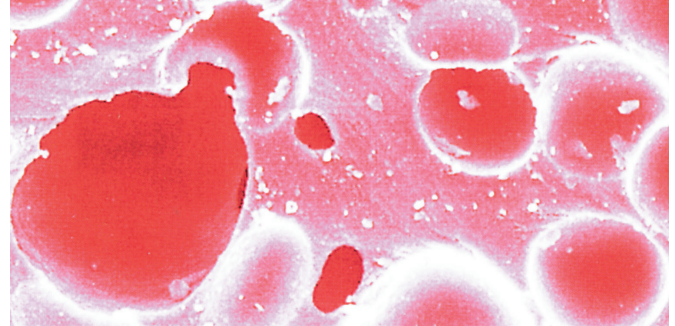
The secondary endpoint is to compare the **Akustik+Sylomer®** to another suspension with the same size-specific characteristics using high-resilience natural rubber from our Akustik 4 45 shore A standard series.

TEST METHODOLOGY

The reports contain the results of the noise isolation test to airborne noise conducted according to the UNE-EN ISO 140-3 standard for a false ceiling with the following ceiling mounts:

- Direct transmission (without antivibration suspensions).
- Akustik 4 45 shore A.
- **Akustik 3+Sylomer®** 30 Type B.

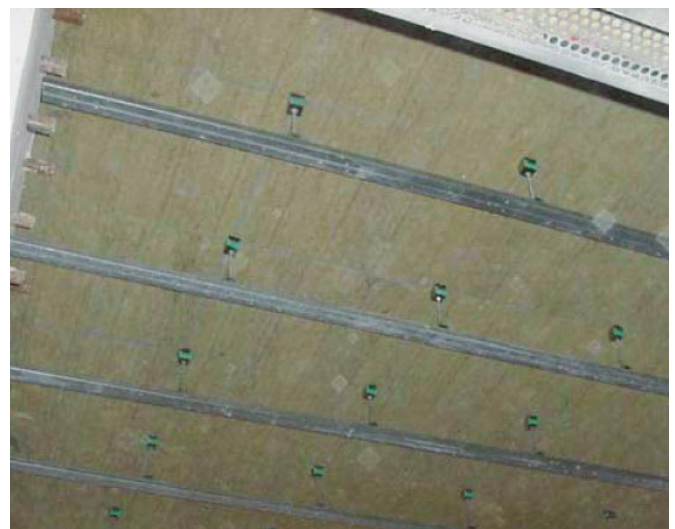
Besides the isolation curves, two RW and RA indexes have been calculated and used to compare the performance of the different suspensions. The Rw noise reduction index of the sample tested and the terms of adaptation of the C and Ctr spectrum were obtained according to the ISO 717-1 standard, based on the isolation curve. The pink noise isolation index RA between 100Hz and 5 KHz is that which is specified by the Basic Spanish Building Standard: NBE-CA 88 "Acoustic Conditions".



Specimen used for the test

IMPORTANT NOTE: The composition of the false ceiling is not meant to be used for teaching purposes in acoustics. It is a standard implementation whose objective is to compare the anti-vibration elements.

The specimen used in the tests is a standard ceramic hollow block with an approximate isolation of 54 dB.



The results and the descriptive reports can be downloaded free of charge from www.akustik.com

COMPARATIVE TESTS AT THE LABEIN TECHNOLOGY CENTRE

COMPARATIVE RESULTS OF THE TEST BETWEEN A SUSPENDED CEILING WITH AND WITHOUT AKUSTIK+SYLOMER®.

Graphic 1 shows the isolation provided by a single plasterboard suspended with **Akustik+Sylomer®** suspensions and the same ceiling fitted with M6 rod. The blue line represents the isolation achieved with **Akustik+Sylomer®** mounts.

As can be seen, there are major differences at low and high frequencies, offering a difference of:

- 3 dB at 125 Hz
- 6 dB at 250 Hz
- 5 dB at 500 Hz
- 5 dB at 1000Hz

At the same time, comparative tests were conducted with ceilings with a greater number of plasterboards. Table 1 shows the results of the RW reduction index:

It is clear that the use of **Akustik+Sylomer®** suspensions provides far greater airborne isolations, which in some cases are equivalent to or greater than the use of 2 or 3 plasterboards with anti-vibration ceiling mounts.

The results and descriptive reports can be downloaded free from www.akustik.com

Akustik isolation curves

Graphic 1

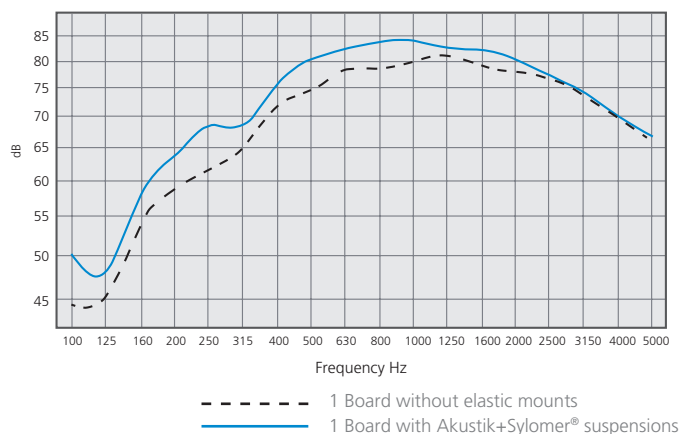
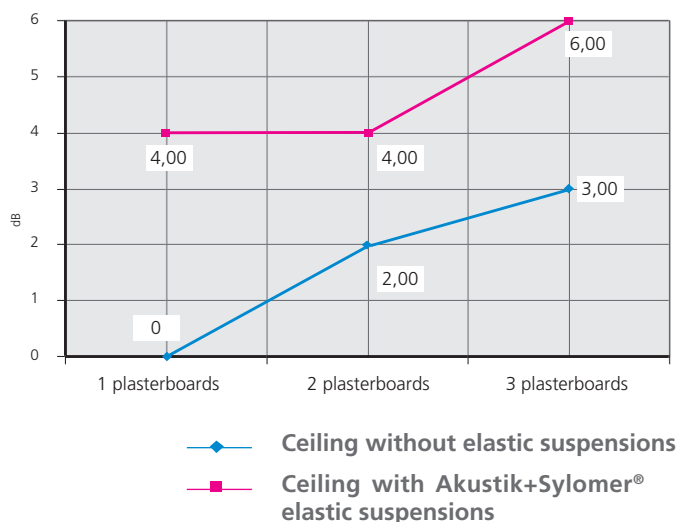


Table 1

RW (C; Ctr) sound isolation index	Without suspensions (M6 rod)	With suspensions Akustik+Sylomer®
1 plasterboard	71 (-4; -10) dB	75 (-4; -10) dB
2 plasterboard	73 (-3; -9) dB	75 (-3; -8) dB
3 plasterboard	74 (-3; -8) dB	77 (-3; -8) dB

Gain in dB thanks to the use of the Akustik+Sylomer® suspensions as opposed to a ceiling without elastic suspensions.



COMPARATIVE TESTS AT THE LABEIN TECHNOLOGY CENTRE

COMPARATIVE RESULTS OF THE TEST BETWEEN A SUSPENDED CEILING WITH AKUSTIK+SYLOMER® VS RUBBER SUSPENSIONS.

Table 2 compares the RA sound isolation index according to the number of plasterboards.

The improvement is self-evident, the Akustik+Sylomer® mounts offer a superior isolation to the rubber mounts. This difference is so great that it may be said that a ceiling with a plasterboard with Akustik+Sylomer® offers the same isolation as a ceiling with two plasterboard rubber suspensions. This therefore means savings in time and material.

The savings in plasterboard and labour costs make these mounts particularly interesting, both technically and economically.

In order to provide a better analysis of the differences between the rubber mounts and the Akustik+Sylomer® mounts, table 3 shows the isolation data at different frequencies.

The results of these tables show that the isolation differences are in the low frequency range, which is particularly interesting for the isolation of premises without soundproofing, since they are particularly difficult to isolate.

Table 2

RW (C; Ctr) sound isolation index	With Akustik+Sylomer® suspensions	With rubber suspensions
1 plasterboard	75 (-4; -10) dB	74 (-3; -9) dB
2 plasterboard	75 (-3; -8) dB	75 dB (-4; -10) dB
3 plasterboard	77 (-3; -8) dB	76 (-4; -10) dB

Table 3

Suspended ceiling with 1 plasterboard		
FREQUENCY	Akustik+Sylomer®	RUBBER
160 Hz.	58,3 dB	57,5 dB
250 Hz.	68,4 dB	66 dB
500 Hz.	80,3 dB	79,1 dB

False ceiling with 2 plasterboards		
FREQUENCY	Akustik+Sylomer®	RUBBER
160 Hz.	57 dB	56,9 dB
250 Hz.	70 dB	68 dB
500 Hz.	81,5 dB	81,1 dB

False ceiling with 3 plasterboards		
FREQUENCY	Akustik+Sylomer®	RUBBER
160 Hz.	60,4 dB	58,5 dB
250 Hz.	69,4 dB	67 dB
500 Hz.	82,4 dB	81,1 dB

ADVANTAGES ON WOODEN STRUCTURES

In order to show the acoustic advantages when using Akustik+Sylomer® acoustic hangers, the German IFT Rosenheim technological center has performed Impact and airborne noise tests using 2 different types of wooden structures.

IFT ROSENHEIM

Wooden ceiling using sand as a filler: Reduction of impact noise 19dB, Gain of airborne isolation 18 dB.

Wooden ceiling using mineral wool as a filler: Reduction of impact noise 14 dB, Gain of airborne isolation 6 dB.

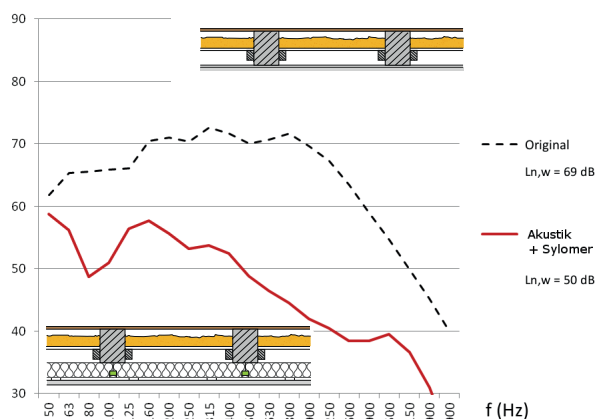
In both kinds of ceilings a comparison has been done in order to determine the acoustic advantage that provides using Akustik+Sylomer® hangers.



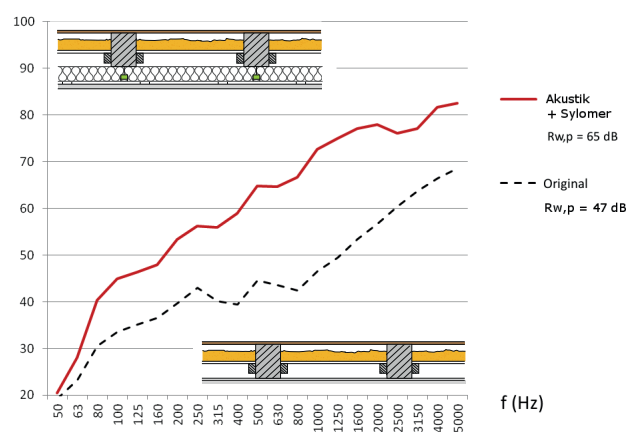
Akustik Lateral+Sylomer®: The akustik Lateral hanger is specifically suiting the structures where no space is available and the acoustic hangers have to be fixed to the wooden beam.

WOODEN CEILING FILLED WITH SAND

Impact noise

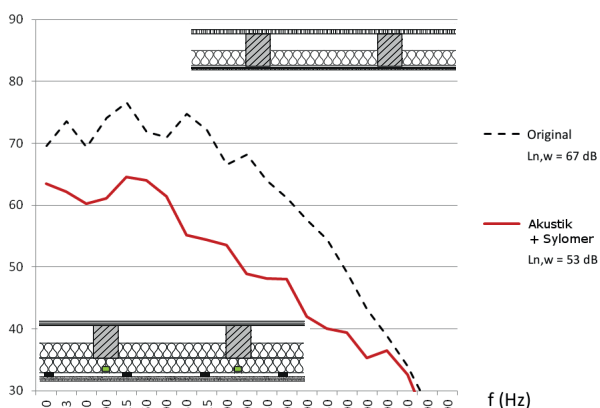


Airborne noise

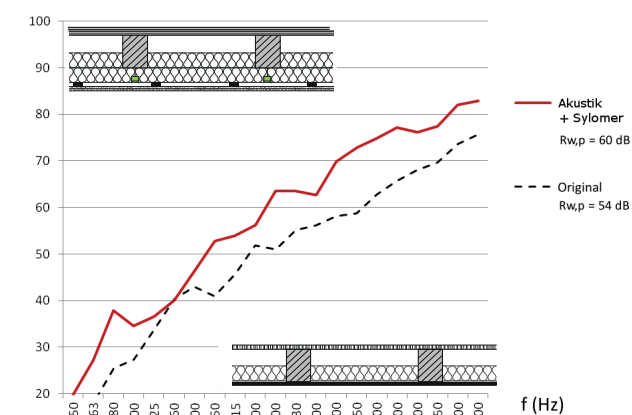


WOODEN CEILING FILLED WITH MINERAL WOOL

Impact noise



Airborne noise



BEHAVIOUR AT HIGH AND LOW FREQUENCIES

Structure-borne noise is transmitted through the structures of a building, machine, installation... This radiation noise becomes airborne noise.

Low noise frequencies are those that are usually less damped in the air and are therefore better transmitted through structures. The range of low frequencies is between 20 and 500 Hz.

NATURAL FREQUENCY OF THE AKUSTIK+SYLOMER® MOUNTS

The Akustik+Sylomer® ceiling mounts can obtain very low natural frequencies of up to 7 Hz at the optimal loading point. At this loading point the decoupling frequency of the Akustik+Sylomer® mounts is 9,9Hz.

Such a low natural frequency is optimal for the false ceilings of soundproofed premises. This type of suspensions are also particularly interesting for the isolation of machines or

vibrating elements that work at more than 600 rpm. Examples are:

- Ducts / pipelines:
 - Of cooling liquids from refrigerating compressors, and are ideal for use in supermarkets, the frozen food section.
 - Air conditioning.
 - Pumping of water
 - From fume exhausts.
- Suspension of air conditioning machinery.
- Suspension of vibrating elements in general.

BEHAVIOUR OF THE AKUSTIK+SYLOMER® MOUNTS AT LOW FREQUENCIES IN SOUNDPROOFED PREMISES.

The range of audible frequencies in the human being may vary according to age and to other factors although in general it is between 20 Hz and 20.000Hz. By way of example the notes produced by a guitar have a frequency range from 82

to 698 Hz.

Considering that the most unfavourable excitation frequency, i.e. 20 Hz, the isolation degree of structure-borne noise produced by an Akustik+Sylomer® suspension would be close to 90%. (*)

(*) Installation of the optimal loading point of the Akustik+Sylomer® for a theoretical single mass spring system.

BEHAVIOUR OF THE AKUSTIK+SYLOMER® MOUNTS AT MEDIUM AND HIGH FREQUENCIES.

Sound waves are not comprised of just one frequency, but rather of a set of frequencies superimposed without any order, which is the main reason why noise is unpleasant. Thus, the ideal suspender must be able to isolate the broadest possible range of frequencies.

Behaviour of a metal spring

These suspenders are often recommended for the elastic

suspension of false ceilings. It is important to know that this type of mount is suitable for the damping of low frequencies, whereas the high frequencies are propagated through the coils of the spring. To filter this type of frequencies the springs must be combined with a stage of viscoelastic material under the spring to stop the propagation of this type of vibration.

BEHAVIOUR OF THE AKUSTIK+ SYLOMER®

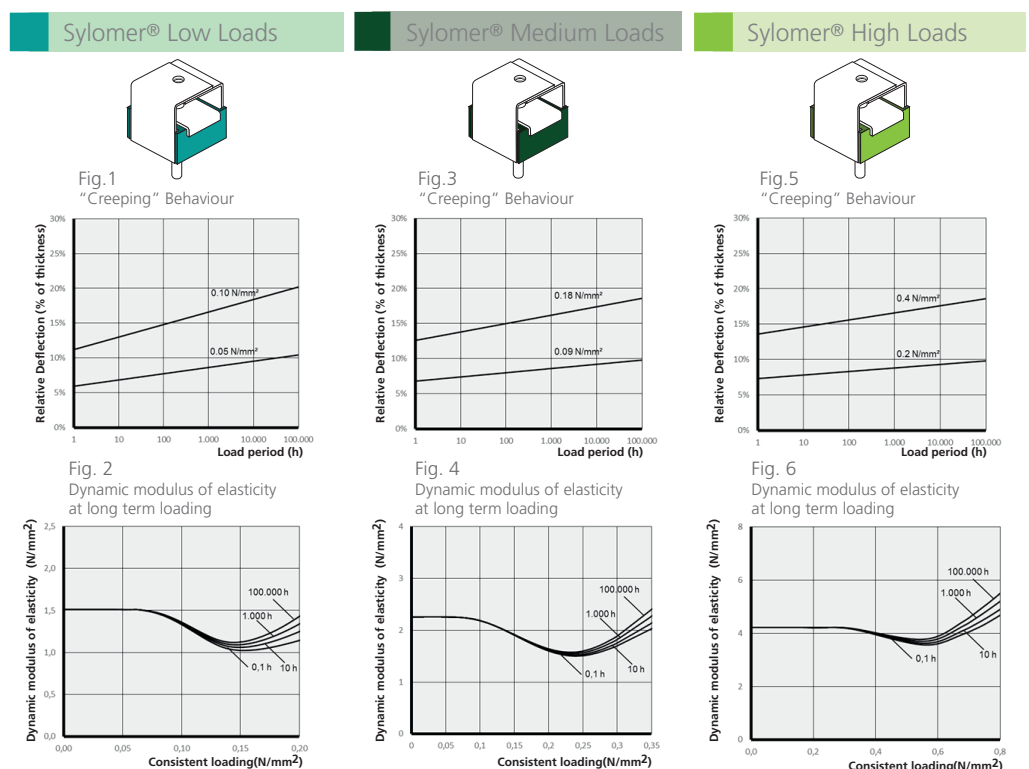
Thanks to the viscoelastic properties of the Sylomer, the akustik+Sylomer has a behaviour similar to the spring at low frequencies and at the same time not only prevents the high frequencies as occurs in the spring via its coils, but also considerably improves the behaviour of the rubber at high frequencies. These results are shown in the comparative section of Akustik+Sylomer® with regard to rubber suspenders.

CREEPING AND LONG-TERM BEHAVIOUR

Static loads produce a certain degree of creeping. This phenomenon can be observed in all elastomers. Creeping is the increase in deformation under consistent loading Figs. 1 and 3 show the creeping for the two types of Sylomer® used for our ceiling mounts.

Within the field recommended for the application of continuous loads, the additional deflection remains under 50% of the initial deflection even after an extended period of 10 years.

The dynamic stiffness of the ceiling mounts must increase as little as possible over time. Figs. 2 and 4 show the variation of the dynamic module over time of the two types of Sylomer used in our ceiling mounts.



CEILING MOUNTS

Akustik+Sylomer®: Models and dimensions

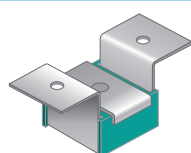
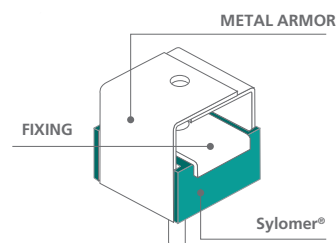
PRODUCT DESCRIPTION

These antivibration mounts have been conceived for the suspension of false ceilings, vibrating pipelines and machinery that has to be suspended.

The excellent properties of the Sylomer® micro-cellular polyurethane material achieve elevated isolation values as opposed to other mounts that use rubber or cork, or a combination of both. These antivibration mounts are manu-

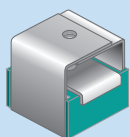
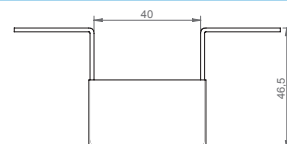
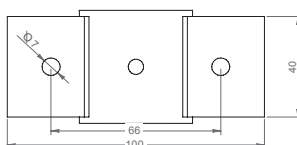
factured in two special mixes of Sylomer® to adapt better to the load of each application.

A great variety of fixing metal armors and elements facilitate the installation and to adapt better to each type of job. Their rugged metal parts can withstand tensile stresses from 650Kg to 1000Kg. They are supplied with an anticorrosive treatment that can withstand the toughest environments.



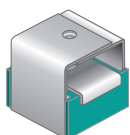
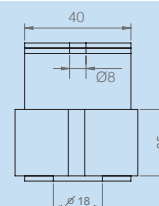
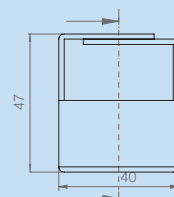
Akustik 1

It is secured directly to the ceiling by means of two holes.



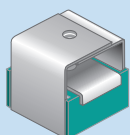
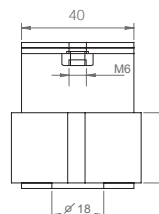
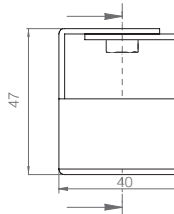
Akustik 3

It is secured directly to the ceiling with a screw and locking nut.



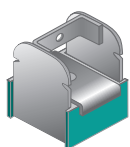
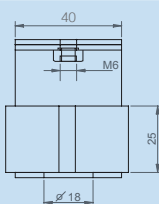
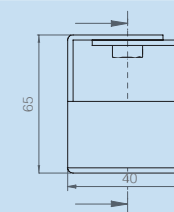
Akustik 4

It is secured with a screw via a nut welded to the metal armor.



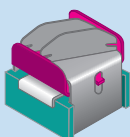
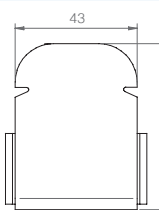
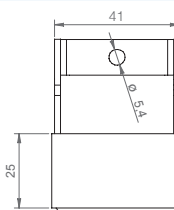
Akustik 4 High

It is secured with a screw via a nut welded to the metal armor.



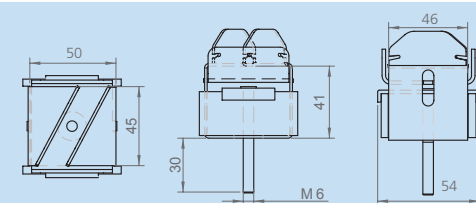
Akustik Rapid T47

Designed to be secured to most profiles on the market. Its design makes for easy and safe installations.



Akustik Safety

Its gravitational system guarantees correct installation and offers greater safety, preventing elements from becoming detached.



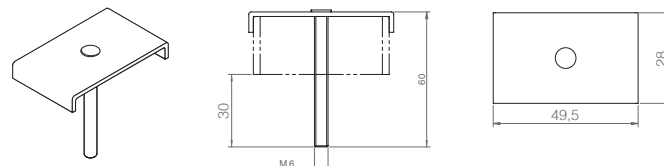
CEILING MOUNTS

Akustik+Sylomer®: Models and dimensions

TYPE OF FIXING

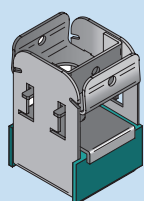
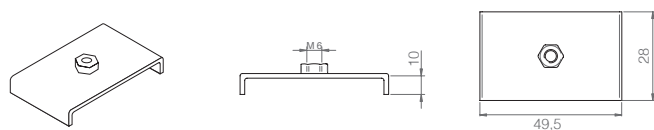
TYPE A

For installations where M6 male fixing is required, the recommended fixing is **Type A**.



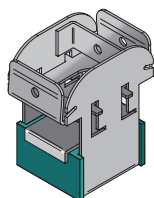
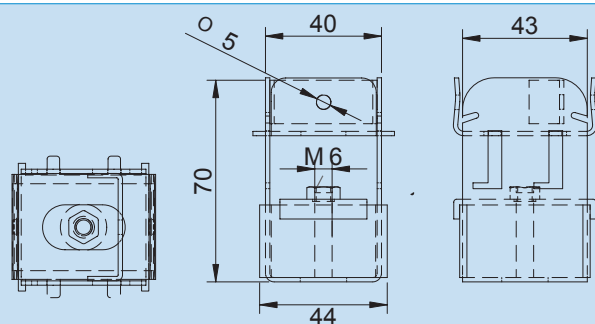
TYPE B

For installations where M6 female fixing is required, the recommended fixing is **Type B**.



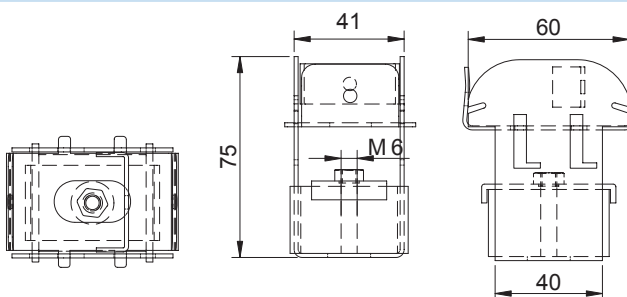
Akustik
Super T47

The "SUPER" security feature is adaptable to the different profiles existing on the market.

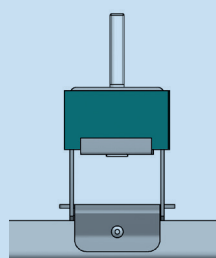


Akustik
Super T60

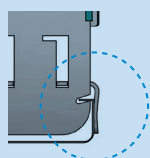
The external dimension of the profiles that exist on the market may vary, our "SUPER" security system with lip form adapts to the different lengths of the profile having a tight fit.



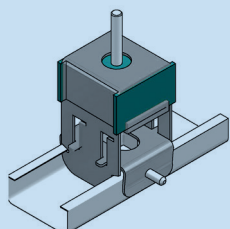
INSTALLATION STEPS OF AKUSTIK SUPER



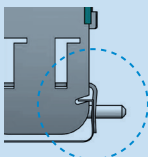
Detail A



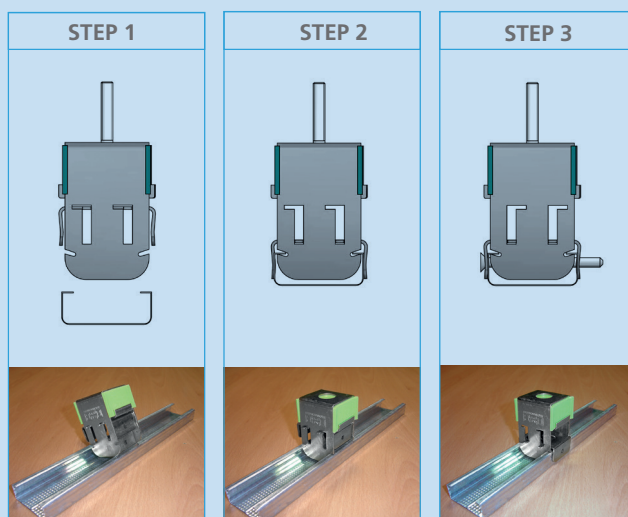
1• The security system is adaptable to different widths of profiles.



Detail B



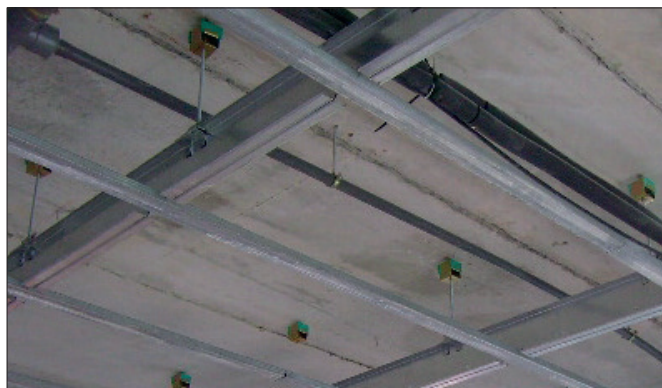
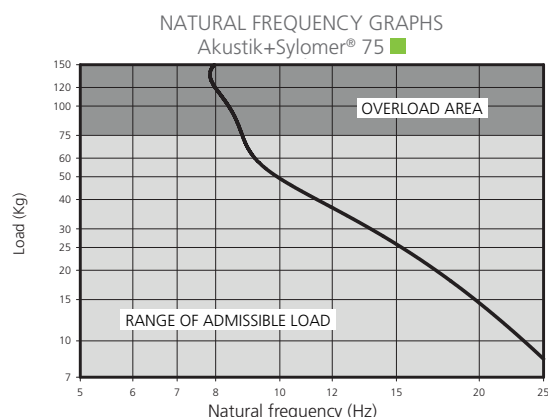
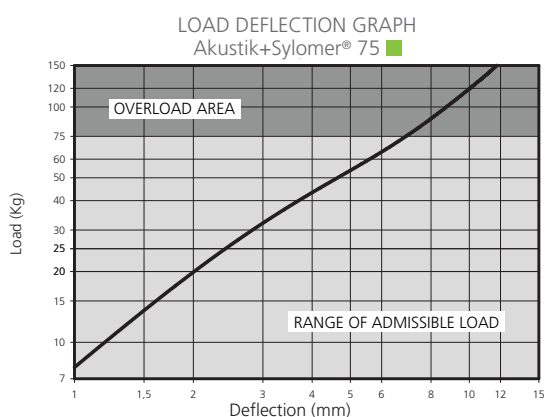
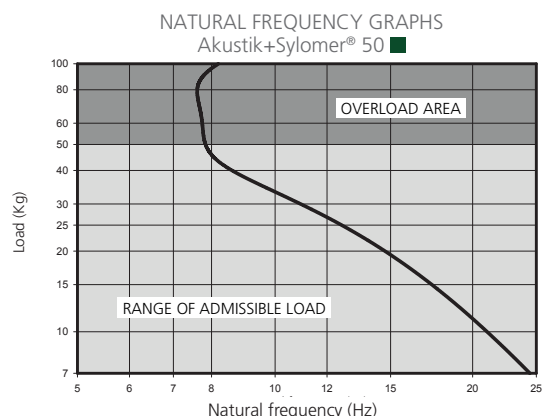
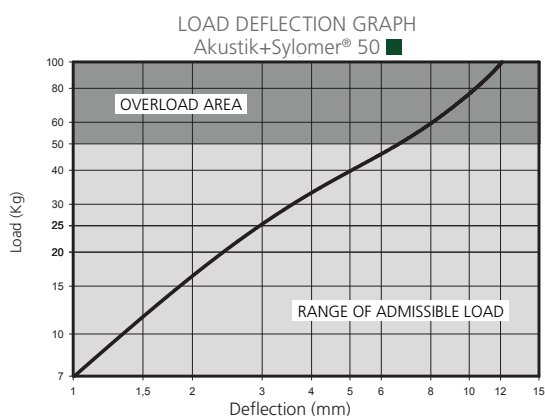
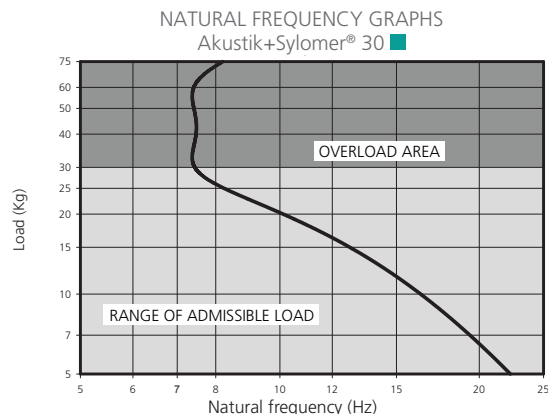
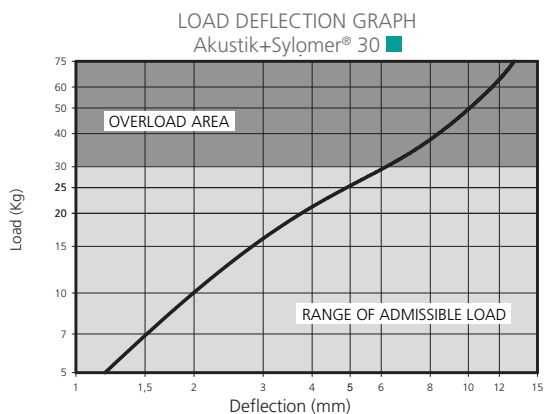
2• The "SUPER" security system admits the possibility of inserting a blocking screw.



CEILING MOUNTS

Akustik+Sylomer®: Models and dimensions

TYPES OF SYLOMER®



Application of an Akustik 4+Sylomer 30 type A.



Application of an Akustik Super T60 +Sylomer 30 type B.

CEILING MOUNTS

Akustik+Sylomer® Range

	REF AMC	SUMMARY	(Kg) MAX. LOAD	ART.NR
	Akustik 1+Sylomer® 30 Type A	Metal armor of the Akustik 1 secured to the ceiling by an M6 screw and with a nut.	30	23501
	Akustik 3+Sylomer® 30 Type A	Metal armor of the Akustik 3 secured to the ceiling by an M6 screw and with a nut.	30	23503
	Akustik 4+Sylomer® 30 Type A	Metal armor of the Akustik 4 secured to the ceiling by an M6 screw and with a nut.	30	23505
	Akustik 4 High+Sylomer® 30 Typ A	Metal armor of the Akustik 4 secured to the ceiling by an M6 screw and with a nut.	30	23537
	Akustik Rapid+Sylomer® 30 Typ A	Metal armor of the Akustik rapid secured to the ceiling by an M6 screw and with a nut.	30	23507
	Akustik Sicherheit+Sylomer® 30 Typ A	Metal armor of the Akustik Safety secured to the ceiling by an M6 screw and with a nut.	30	23508
	Akustik 1+Sylomer® 30 Typ B	Metal armor of the Akustik 3 secured to the ceiling by a welded M6 nut.	30	23509
	Akustik 3+Sylomer® 30 Typ B	Metal armor of the Akustik 4 secured to the ceiling by a welded M6 nut.	30	23511
	Akustik 4+Sylomer® 30 Typ B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	30	23513
	Akustik 4 High+Sylomer® 30 Typ B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	30	23538
	Akustik Rapid+Sylomer® 30 Typ B	Metal armor of the Akustik Safety secured to the ceiling by an M6 screw.	30	23515
	Akustik Sicherheit+Sylomer® 30 Typ B	Metal armor of the Akustik Safety secured to the ceiling by a welded M6 nut.	30	23516

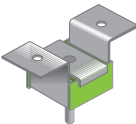
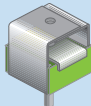
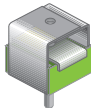
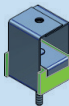
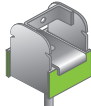
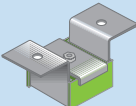
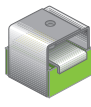
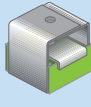

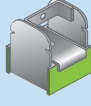
CEILING MOUNTS

Akustik+Sylomer® Range

REF. AMC	SUMMARY	(Kg) MAX. LOAD	CODE
 Akustik 1+Sylomer® 75 Type A	Metal armor of the Akustik 1 secured to the ceiling by an M6 screw and with a nut.	50	23502
 Akustik 3+Sylomer® 75 Type A	Metal armor of the Akustik 3 secured to the ceiling by an M6 screw and with a nut.	50	23569
 Akustik 4+Sylomer® 75 Type A	Metal armor of the Akustik 4 secured to the ceiling by an M6 screw and with a nut.	50	23578
 Akustik 4 High+Sylomer® 75 Typ A	Metal armor of the Akustik 4 secured to the ceiling by an M6 screw and with a nut.	50	23580
 Akustik Rapid+Sylomer® 75 Type A	Metal armor of the Akustik rapid secured to the ceiling by an M6 screw and with a nut.	50	23582
 Akustik 1+Sylomer® 75 Type B	Metal armor of the Akustik 3 secured to the ceiling by a welded M6 nut.	50	23520
 Akustik 3+Sylomer® 75 Type B	Metal armor of the Akustik 4 secured to the ceiling by a welded M6 nut.	50	23570
 Akustik 4 +Sylomer® 75 Type B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	50	23581
 Akustik 4 High+Sylomer® 75 Typ B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	50	23539
 Akustik Rapid+Sylomer® 75 Type B	Metal armor of the Akustik Safety secured to the ceiling by an M6 screw.	50	23583

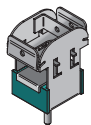
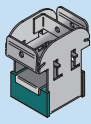
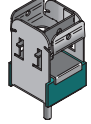
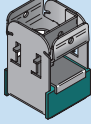
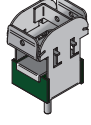
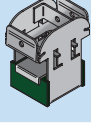
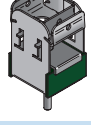
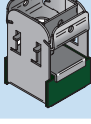
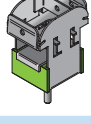
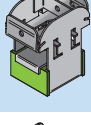
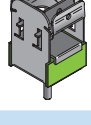
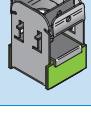
CEILING MOUNTS

Akustik+Sylomer® Range

REF. AMC	SUMMARY	(Kg) MAX. LOAD	CODE
 Akustik 1+Sylomer® 75 Type A	Metal armor of the Akustik 1 secured to the ceiling by an M6 screw and with a nut.	75	23517
 Akustik 3+Sylomer® 75 Type A	Metal armor of the Akustik 3 secured to the ceiling by an M6 screw and with a nut.	75	23519
 Akustik 4+Sylomer® 75 Type A	Metal armor of the Akustik 4 secured to the ceiling by an M6 screw and with a nut.	75	23521
 Akustik 4 High+Sylomer® 75 Type A	Metal armor of the Akustik 4 secured to the ceiling by an M6 screw and with a nut.	75	23540
 Akustik Rapid+Sylomer® 75 Type A	Metal armor of the Akustik rapid secured to the ceiling by an M6 screw and with a nut.	75	23523
 Akustik 1+Sylomer® 75 Type B	Metal armor of the Akustik 3 secured to the ceiling by a welded M6 nut.	75	23525
 Akustik 3+Sylomer® 75 Type B	Metal armor of the Akustik 4 secured to the ceiling by a welded M6 nut.	75	23527
 Akustik 4+Sylomer® 75 Type B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	75	23529
 Akustik 4 High+Sylomer® 75 Type B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	75	23539
 Akustik Rapid+Sylomer® 75 Type B	Metal armor of the Akustik Safety secured to the ceiling by an M6 screw.	75	23531

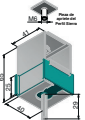
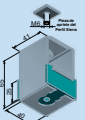
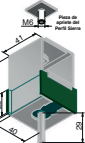
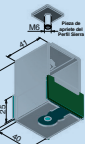
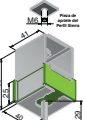
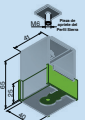
CEILING MOUNTS

Akustik Super+Sylomer® Range

	REF. AMC	SUMMARY	(KG) MAX. LOAD	CODE
	Akustik Super T60 +Sylomer® 30 Type A	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	30	23831
	Akustik Super T60 +Sylomer® 30 Type B	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	30	23832
	Akustik Super T47 +Sylomer® 30 Type A	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	30	23821
	Akustik Super T47 +Sylomer® 30 Type B	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	30	23822
	Akustik Super T60 +Sylomer® 50 Type A	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	50	23590
	Akustik Super T60 +Sylomer® 50 Type B	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	50	23591
	Akustik Super T47 +Sylomer® 50 Type A	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	50	23588
	Akustik Super T47 +Sylomer® 50 Type B	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	50	23589
	Akustik Super T60 +Sylomer® 75 Type A	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	75	23851
	Akustik Super T60 +Sylomer® 75 Type B	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	75	23852
	Akustik Super T47 +Sylomer® 75 Type A	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	75	23841
	Akustik Super T47 +Sylomer® 75 Type B	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	75	23842

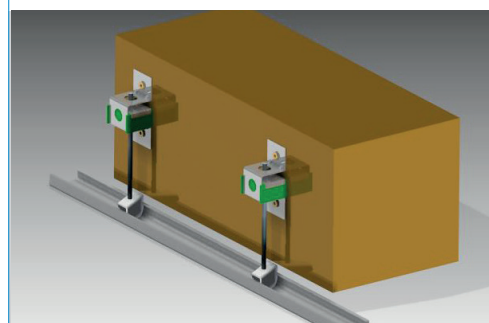
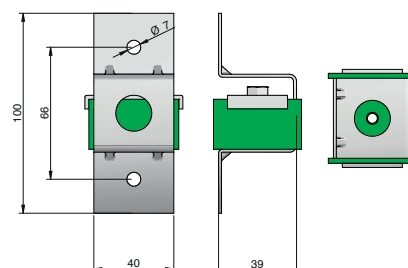
CEILING MOUNTS

Akustik Saw+Sylomer® Range

REF. AMC	SUMMARY	(KG) MAX. LOAD	CODE
 <p>Akustik Saw +Sylomer® 30 Type A</p> <p>NEW</p>	Fitted directly to ceiling using two holes.	30	23863
 <p>Akustik Saw +Sylomer® 30 Type B</p> <p>NEW</p>	Fitted directly to ceiling using two holes.	30	23864
 <p>Akustik Saw +Sylomer® 50 Type A</p> <p>NEW</p>	Fitted directly to ceiling using two holes.	50	23584
 <p>Akustik Saw +Sylomer® 50 Type B</p> <p>NEW</p>	Fitted directly to ceiling using two holes.	50	23585
 <p>Akustik Saw +Sylomer® 75 Type A</p> <p>NEW</p>	Fitted directly to ceiling using two holes.	75	23865
 <p>Akustik Saw +Sylomer® 75 Type B</p> <p>NEW</p>	Fitted directly to ceiling using two holes.	75	23866

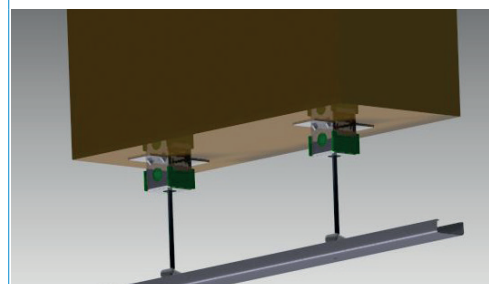
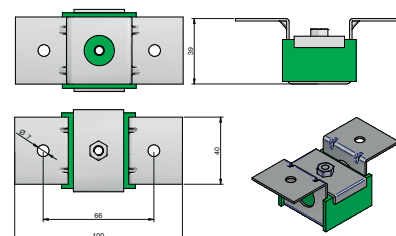
Akustik 1 Lateral+Sylomer®

NEW



Akustik 1 Lateral+Sylomer® (Standard position)

NEW



REF. AMC	(Kg) max. load	CODE
Akustik 1 Lateral+Sylomer® 30 Type A	30	23573
Akustik 1 Lateral+Sylomer® 50 Type A	50	23586
Akustik 1 Lateral+Sylomer® 75 Type A	75	23574
Akustik 1 Lateral+Sylomer® 30 Type B	30	23510
Akustik 1 Lateral+Sylomer® 50 Type A	50	23587
Akustik 1 Lateral+Sylomer® 75 Type B	75	23526

CEILING MOUNTS

Grand Akustik+Sylomer®: Models and dimensions

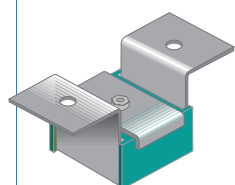
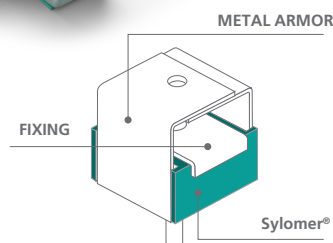
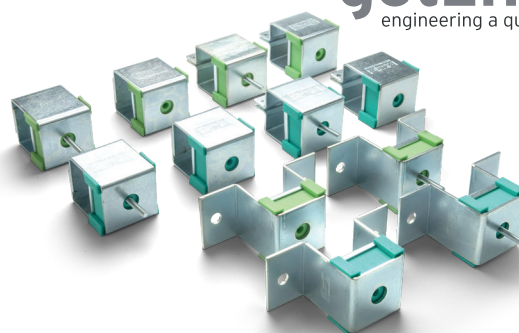
PRODUCT DESCRIPTION

These antivibration mounts have been conceived for the suspension of false ceilings, vibrating pipelines and machinery that has to be suspended.

The excellent properties of the Sylomer® micro-cellular polyurethane material achieve elevated isolation values as opposed to other mounts that use rubber or cork, or a combination of both. These antivibration mounts are manu-

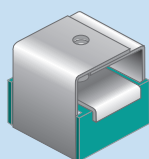
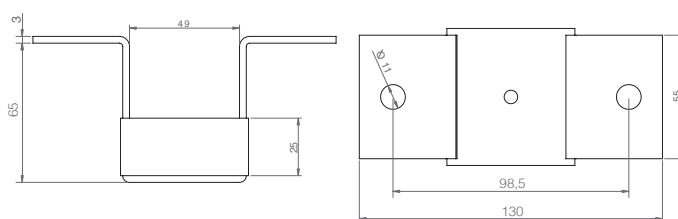
factured in two special mixes of Sylomer® to adapt better to the load of each application.

A great variety of fixing metal armors and elements facilitate the installation and to adapt better to each type of job. Their rugged metal parts can withstand tensile stresses from 650Kg to 1000Kg. They are supplied with an anticorrosive treatment that can withstand the toughest environments.



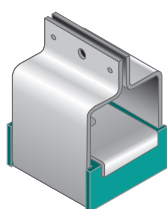
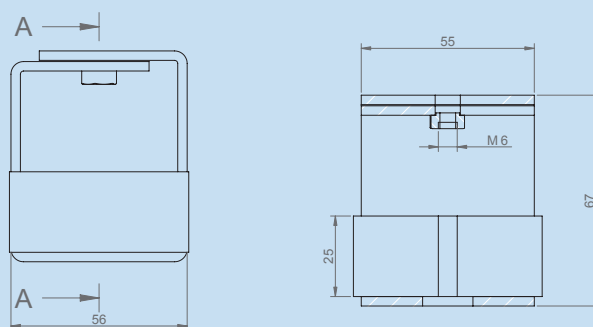
Grand
Akustik 1

It is secured to the ceiling with two holes.



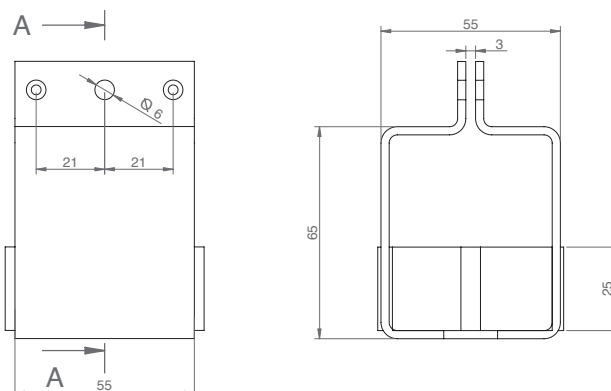
Grand
Akustik 2

It is secured directly to the ceiling by means of a screw.



Grand
Akustik 3

It is secured directly to the ceiling by means of one screw and to the "inverted double T" type profile thanks to the design of its metal armor.



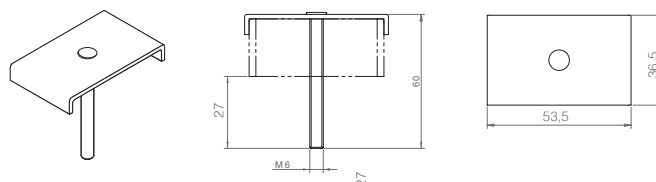
CEILING MOUNTS

Grand Akustik+Sylomer®: Models and dimensions

TYPE OF FIXING

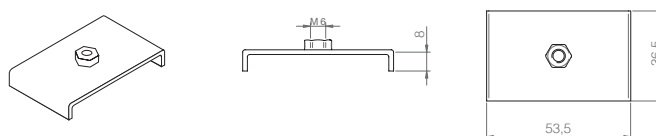
Type A

For installations where M6 male fixing is required, the recommended fixing is **Type A**.

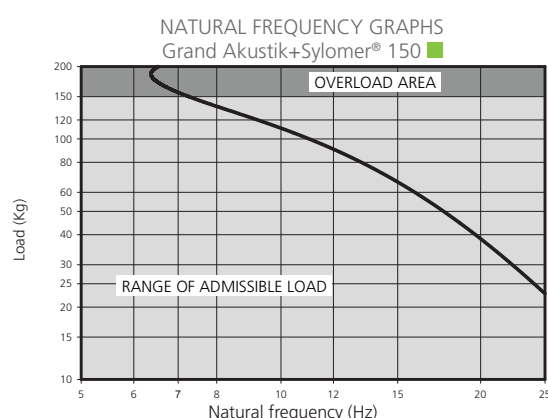
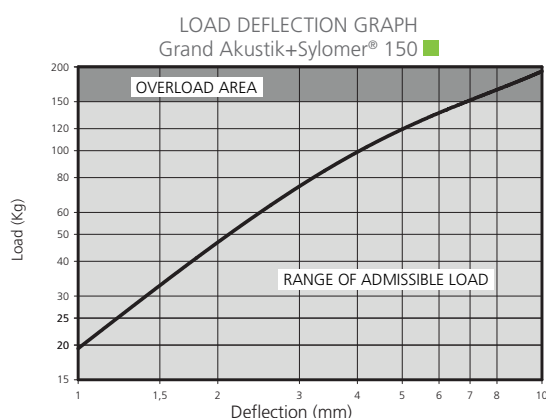
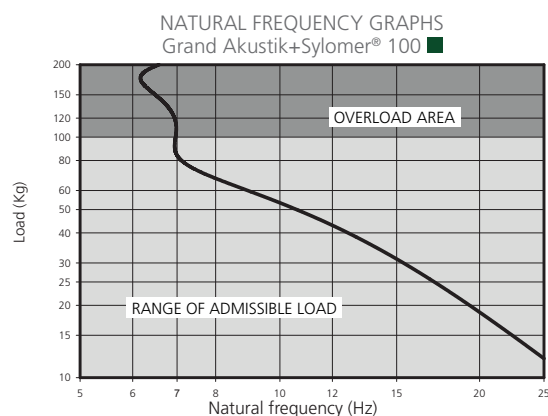
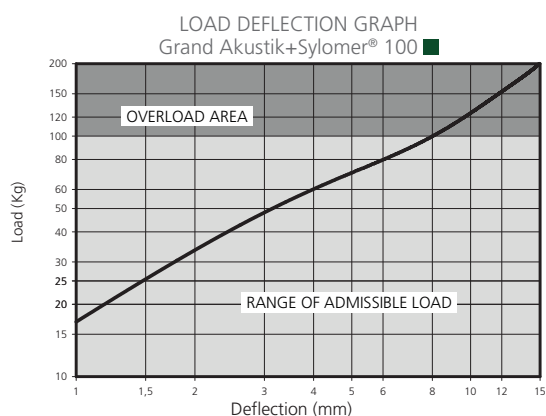
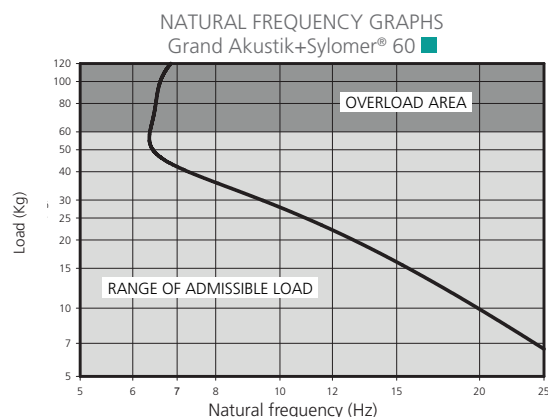
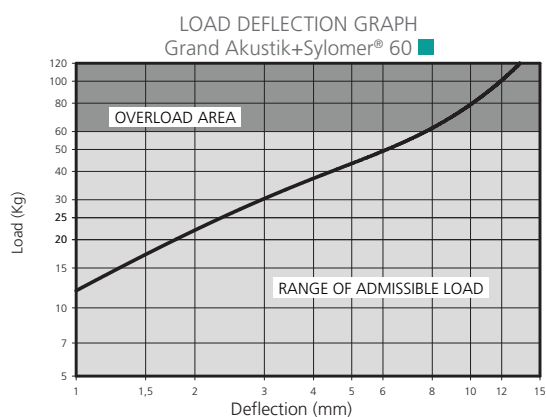


Type B

For installations where M6 female fixing is required, the recommended fixing is **Type B**.

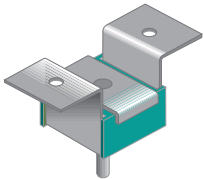
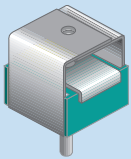
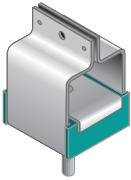
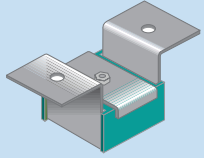
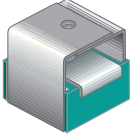
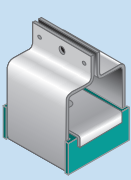


TYPES OF SYLOMER



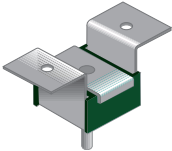
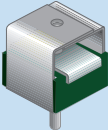

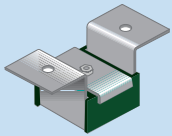
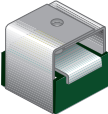
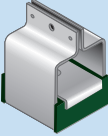
CEILING MOUNTS

Grand Akustik+Sylomer® Range

REF. AMC	SUMMARY	(Kg) MAX. LOAD	CODE
 <p>Grand Akustik 1+Sylomer® 60 Type A</p>	It is secured directly to the ceiling by means of two holes and to the profile by means of a "type A" screw.	60	23601
 <p>Grand Akustik 2+Sylomer® 60 Type A</p>	It is secured directly to the ceiling by means of one screw and to the profile by means of a "type A" screw.	60	23605
 <p>Grand Akustik3+Sylomer® 60 Type A</p>	It is secured directly to the ceiling by means of one screw and to the "inverted double T" type profile thanks to the design of its metal armor.	60	23607
 <p>Grand Akustik 1+Sylomer® 60 Type B</p>	It is secured to the ceiling with two holes and to the profile by means of a "type B" female fixing.	60	23609
 <p>Grand Akustik 2+Sylomer® 60 Type B</p>	It is secured to the ceiling by a screw and to the profile by a "type B" female fixing.	60	23613
 <p>Grand Akustik 3+Sylomer® 60 Type B</p>	It is secured directly to the ceiling by means of a "Type B" female fixing and to the "inverted double T" type profile thanks to the design of its metal armor.	60	23615

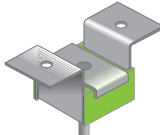
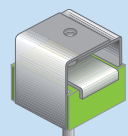
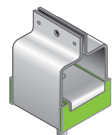
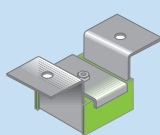
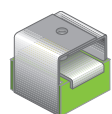
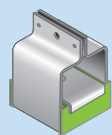
CEILING MOUNTS

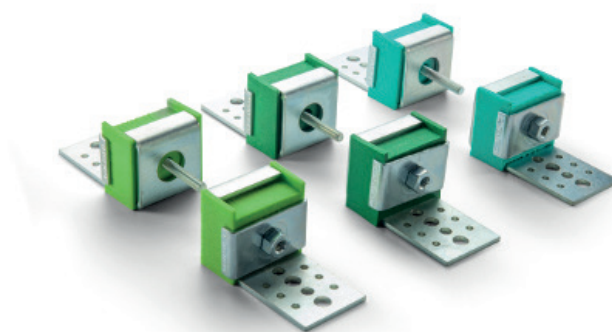
Grand Akustik+Sylomer® Range

REF. AMC	SUMMARY	(Kg) MAX. LOAD	CODE
 <p>Grand Akustik 1+Sylomer® 100 Type A</p>	It is secured directly to the ceiling with two holes and to the profile by means of a "type A" male screw.	100	23594
 <p>Grand Akustik 2+Sylomer® 100 Type A</p>	It is secured directly to the ceiling with one screw and to the profile by means of a "type A" screw.	100	23596
 <p>Grand Akustik3+Sylomer® 100 Type A</p>	It is secured directly to the ceiling by means of one screw and to the "inverted double T" type profile thanks to the design of its metal armor.	100	23598
 <p>Grand Akustik 1+Sylomer® 100 Type B</p>	It is secured directly to the ceiling by means of two screws and to the profile by means of a "type B" female fixing.	100	23595
 <p>Grand Akustik 2+Sylomer® 100 Type B</p>	It is secured directly to the ceiling by means of one screw and to the profile by means of a "type B" female fixing.	100	23597
 <p>Grand Akustik 3+Sylomer® 100 Type B</p>	It is secured directly to the ceiling by means of one "type B" female screw and to the "inverted double T" type profile thanks to the design of its metal armor.	100	23599

CEILING MOUNTS

Grand Akustik+Sylomer® Range

REF. AMC	SUMMARY	(Kg) MAX. LOAD	CODE
 <p>Grand Akustik 1+Sylomer® 150 Type A</p>	It is secured directly to the ceiling with two holes and to the profile by means of a "type A" male screw.	150	23617
 <p>Grand Akustik 2+Sylomer® 150 Type A</p>	It is secured directly to the ceiling with one screw and to the profile by means of a "type A" screw.	150	23621
 <p>Grand Akustik3+Sylomer® 150 Type A</p>	It is secured directly to the ceiling by means of one screw and to the "inverted double T" type profile thanks to the design of its metal armor.	150	23623
 <p>Grand Akustik 1+Sylomer® 150 Type B</p>	It is secured directly to the ceiling by means of two screws and to the profile by means of a "type B" female fixing.	150	23625
 <p>Grand Akustik 2+Sylomer® 150 Type B</p>	It is secured directly to the ceiling by means of one screw and to the profile by means of a "type B" female fixing.	150	23629
 <p>Grand Akustik 3+Sylomer® 150 Type B</p>	It is secured directly to the ceiling by means of one "type B" female screw and to the "inverted double T" type profile thanks to the design of its metal armor.	150	23631



CEILING MOUNTS

Akustik GB + Sylomer®

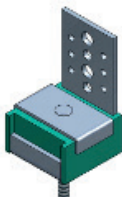
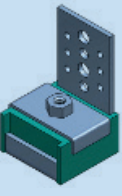
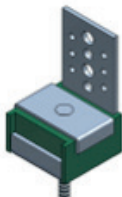
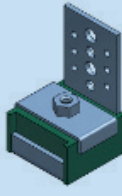
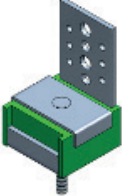
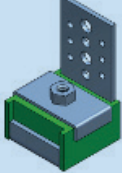
PRODUCT DESCRIPTION

These simple but effective acoustic hangers are designed for the installation of suspended ceilings, pipelines and machinery.

The Sylomer® microcellular polyurethane material provides superior isolation than rubber and/or cork materials and two versions are available depending on the load capacity required.

Type A is supplied with a rod to fix to a channel/bracket and Type B has an integrated nut for quick fixing of a suspension rod.

All metal parts have anti-corrosion zinc-plating.

	RÉF. AMC	RÉSUMÉ	(Kg) CHARGE MÁX.	CODE
	Akustik GB + Sylomer® 30 Type A	Se fixe directement au plafond au moyen de deux trous et au profilé au moyen d'une vis mâle "type A".	30	23105
	Akustik GB + Sylomer® 30 Type B	Se fixe directement au plafond au moyen de deux trous et au profilé au moyen d'une fixation femelle "type B".	30	23106
	Akustik GB + Sylomer® 50 Type A	Se fixe directement au plafond au moyen de deux trous et au profilé au moyen d'une vis mâle "type A".	50	23592
	Akustik GB + Sylomer® 50 Type B	Se fixe directement au plafond au moyen de deux trous et au profilé au moyen d'une fixation femelle "type B".	50	23593
	Akustik GB + Sylomer® 75 Type A	Se fixe directement au plafond au moyen de deux trous et au profilé au moyen d'une vis mâle "type A".	75	23107
	Akustik GB + Sylomer® 75 Type B	Se fixe directement au plafond au moyen de deux trous et au profilé au moyen d'une fixation femelle "type B".	75	23108

CEILING MOUNTS

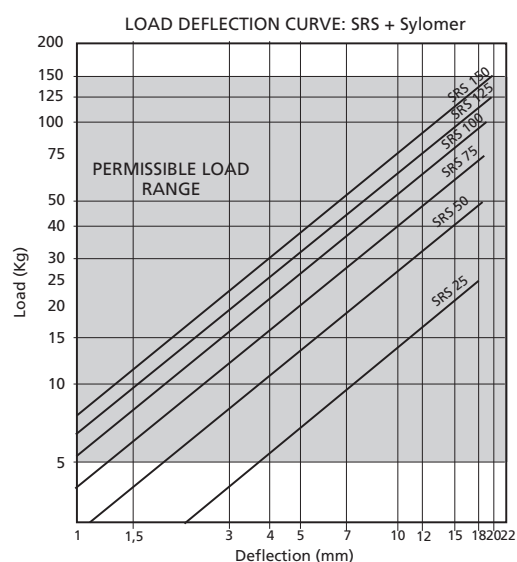
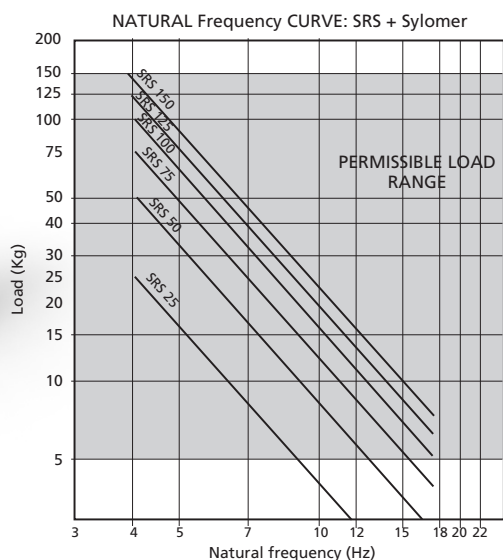
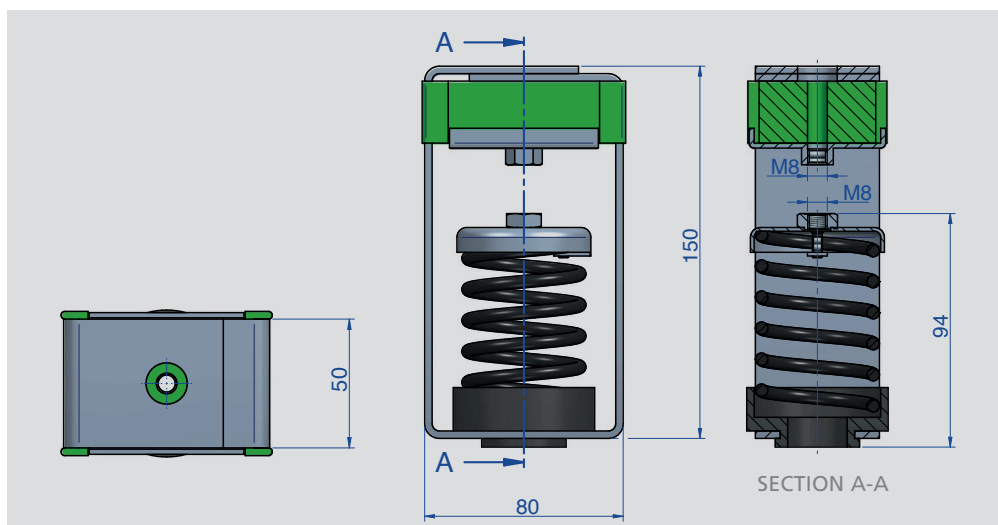
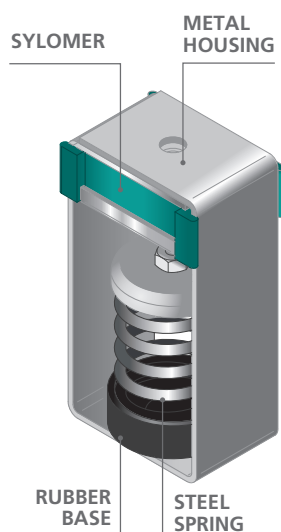
SRS + Sylomer®: Models and dimensions

PRODUCT DESCRIPTION

These antivibration mounts have been conceived for the suspension of suspended ceilings or machines that rotate at low frequency. The excellent properties of the Sylomer® microcellular polyurethane combined with the low stiffness of an steel spring achieve increased isolation values as opposed to other mounts using rubber or cork, or a combination of both.

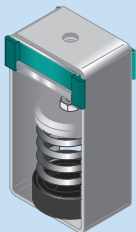

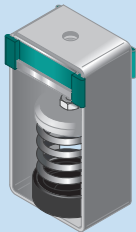

These antivibration mounts are manufactured in 6 different steel spring models to adapt optimal for each application.

Their rugged metal parts withstand can tensile stresses. They are supplied with an anticorrosive treatment that can resist tensile stresses up to 1000Kg withstand the toughest environments.



CEILING MOUNTS

SRS + Sylomer®: Range

REF. AMC	SUMMARY	(Kg). MAX.LOAD	CODE
 SRS 25 + Sylomer®	Sylomer+Steel spring combined hanger.	25	23546
 SRS 50 + Sylomer®	Sylomer+Steel spring combined hanger.	50	23547
 SRS 75 + Sylomer®	Sylomer+Steel spring combined hanger.	75	23551
 SRS 100 + Sylomer®	Sylomer+Steel spring combined hanger.	100	23548
 SRS 125 + Sylomer®	Sylomer+Steel spring combined hanger.	125	23549
 SRS 150 + Sylomer®	Sylomer+Steel spring combined hanger.	150	23550

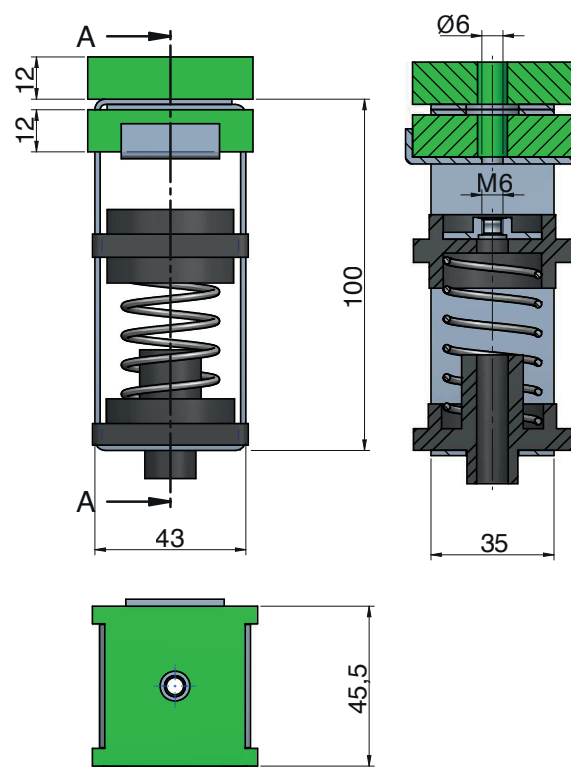
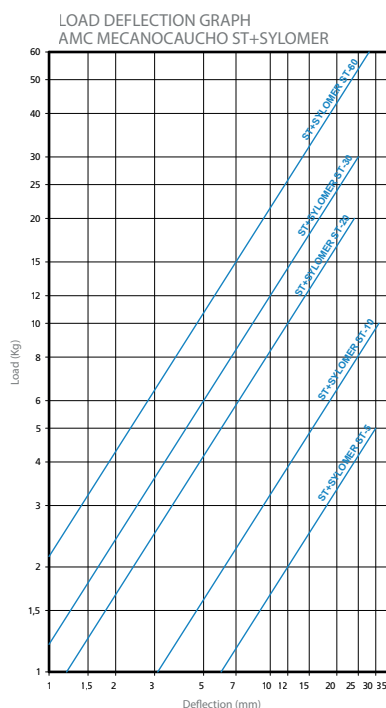
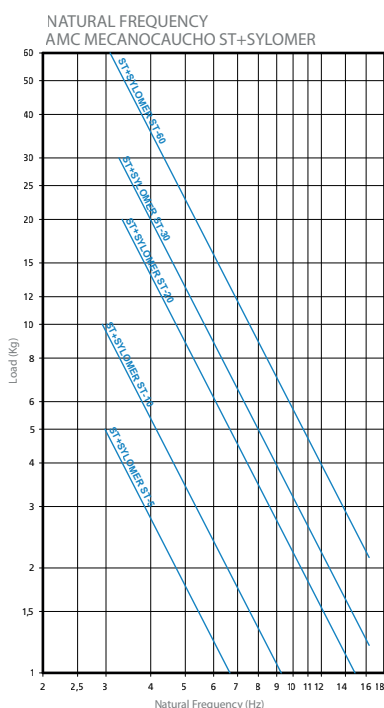
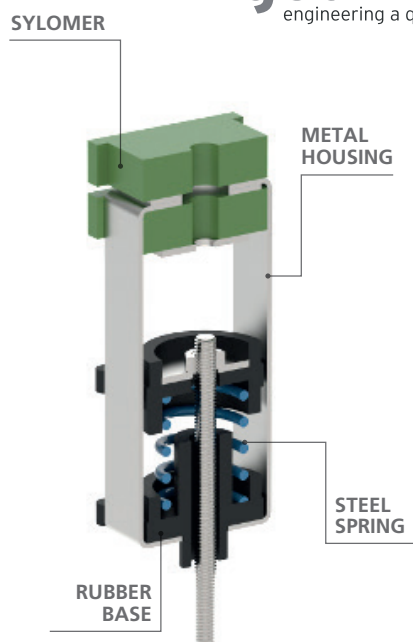
CEILING MOUNTS


ST + Sylomer®

PRODUCT DESCRIPTION

The AMC-MECANOCAUCHO® type ST+Sylomer® is ideal for high performance building acoustics as well as for stationary applications where the acoustic hanger must provide a high degree of structure borne noise isolation. Thanks to their low stiffness they are capable of achieving natural frequen-

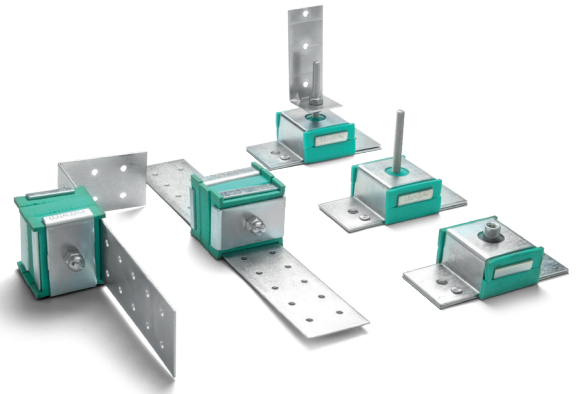
cies ranging from 3 to 4Hz. Due to this fact they are often used on applications where a high isolation degree is required even at low disturbing frequencies (600 to 1000 rpm).



	REF. AMC	(Kg) MAX. LOAD	CODE
	ST + Sylomer® ST-5	5	23425
	ST + Sylomer® ST-10	10	23398
	ST + Sylomer® ST-20	20	23420
	ST + Sylomer® ST-30	30	23400
	ST + Sylomer® ST-60	60	23397

WALL MOUNTS

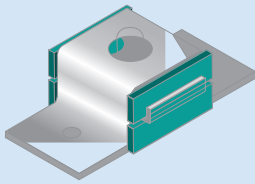
EP+Sylomer®: Models and dimensions



Range designed for the floating suspension of soundproofed walls. Sylomer® avoids the transmission of vibrations while providing optimal acoustic results.

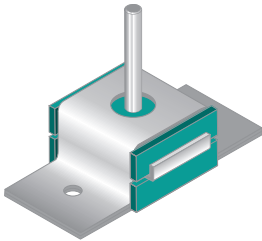
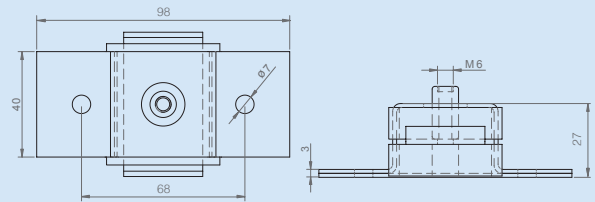
They have a "FAIL SAFE" rugged metal structure, which is overload-proof. Recommended for applications where fire or impact resistance is necessary.

These mounts are also suitable for the isolation of vertical pipes, or any type of lightweight ducts that need to be isolated.



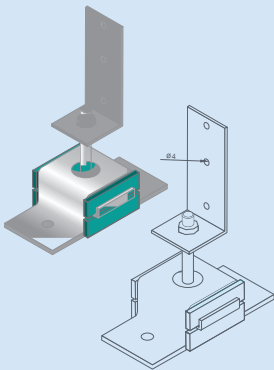
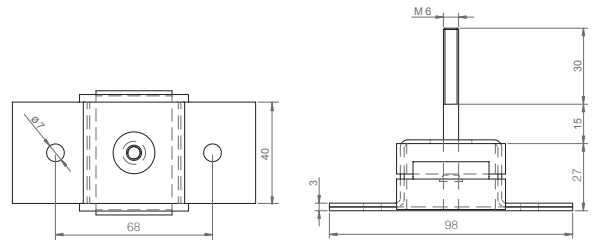
EP+Sylomer® Type B

It is secured to the wall by means of two holes. It has a female M6 metal insert.



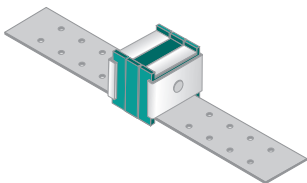
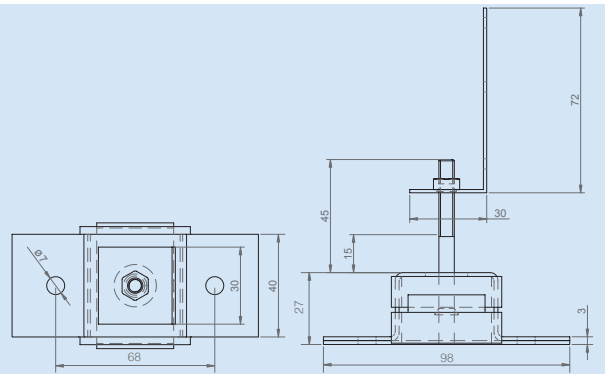
EP + Sylomer Type A

It is secured to the wall by means of two holes. It has a female M6 metal insert.



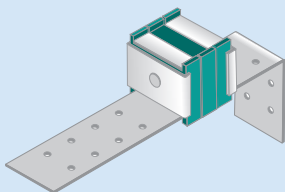
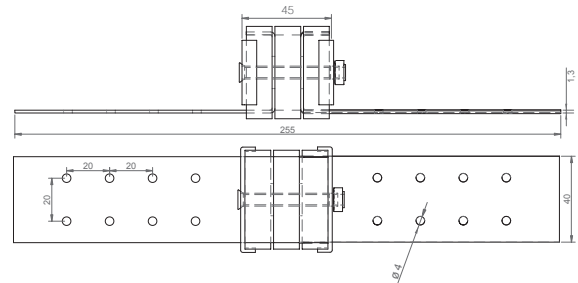
EP400 + Sylomer

It is secured to the wall by means of two holes. It has a male M6 metal insert and also an "L" welded nut for securing to the profile.



EP 600 + Sylomer

They are secured by two "predrilled" and easy-to-cut pins to facilitate their installation.

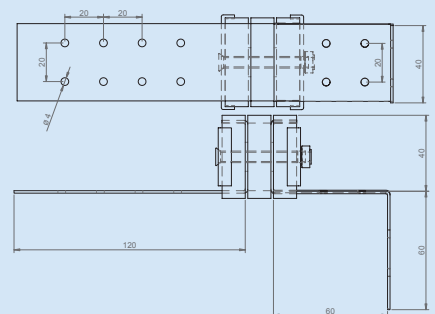


EP 650 + Sylomer

They are secured by two "predrilled" and bent pins to facilitate their installation.

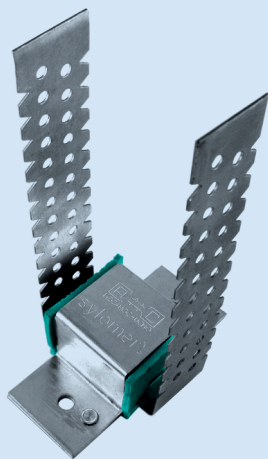
This principle can be used to make a wide range of variants.

Contact us if you require a product more adapted to your building technique.



WALL MOUNTS

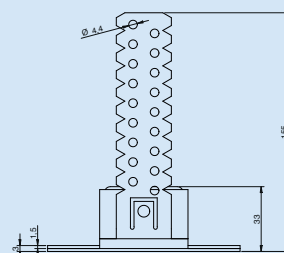
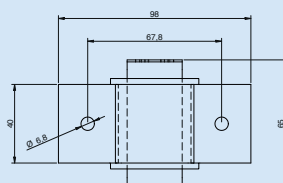
EP+Sylomer®: Models and dimensions



EP 700 + Sylomer

This wall mount has been designed to hold "C" profiles either in vertical or horizontal position.

Allows inclined ceilings with a simple and fast installation procedure.

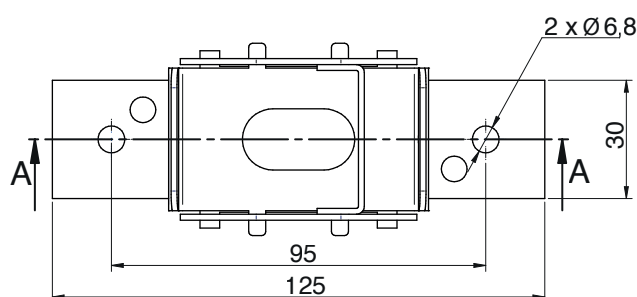
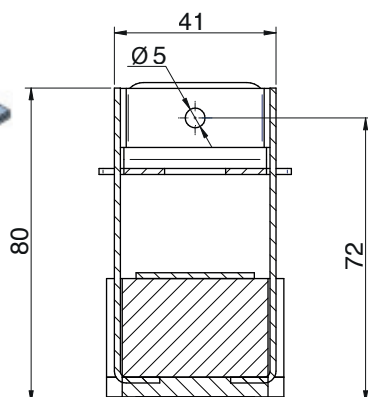
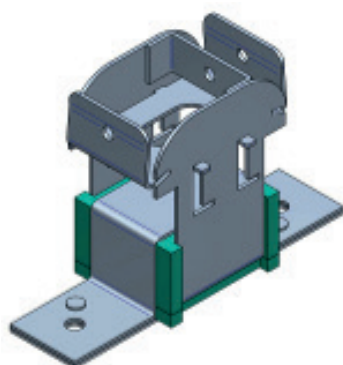


EP 700 Super + Sylomer

They are secured by two "predrilled" and bent pins to facilitate their installation.

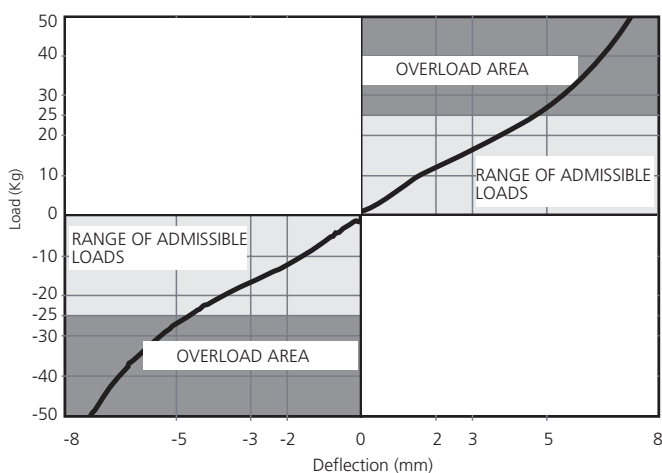
This principle can be used to make a wide range of variants.

Contact us if you require a product more adapted to your building technique.

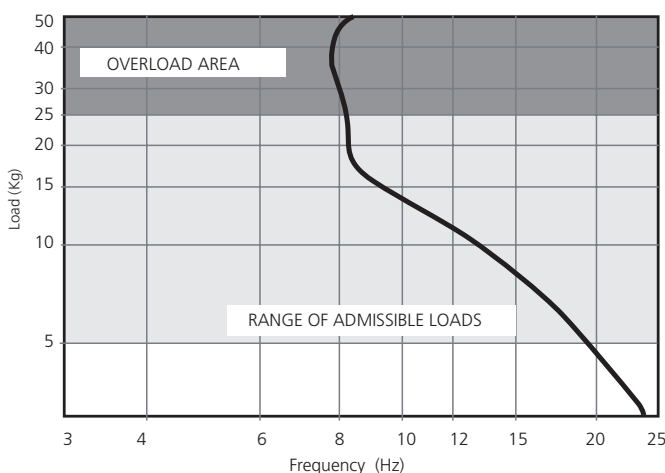


TECHNICAL CHARACTERISTICS

LOAD DEFLECTION GRAPH
EP Akustik+Sylomer®

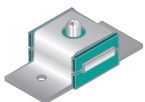
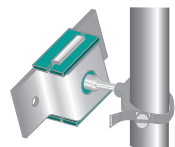
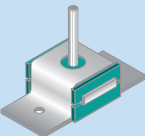
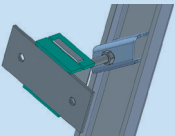
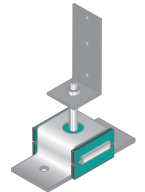
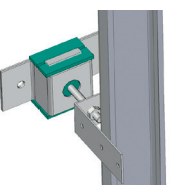
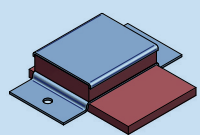
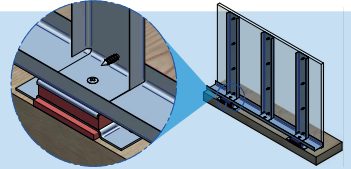
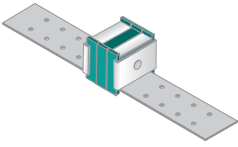
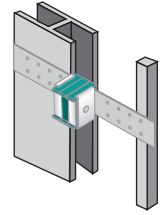
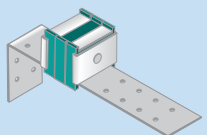
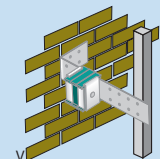


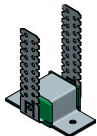
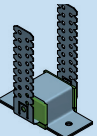
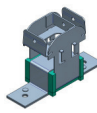
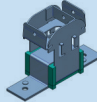
NATURAL FREQUENCY GRAPH
EP Akustik+Sylomer®



WALL MOUNTS

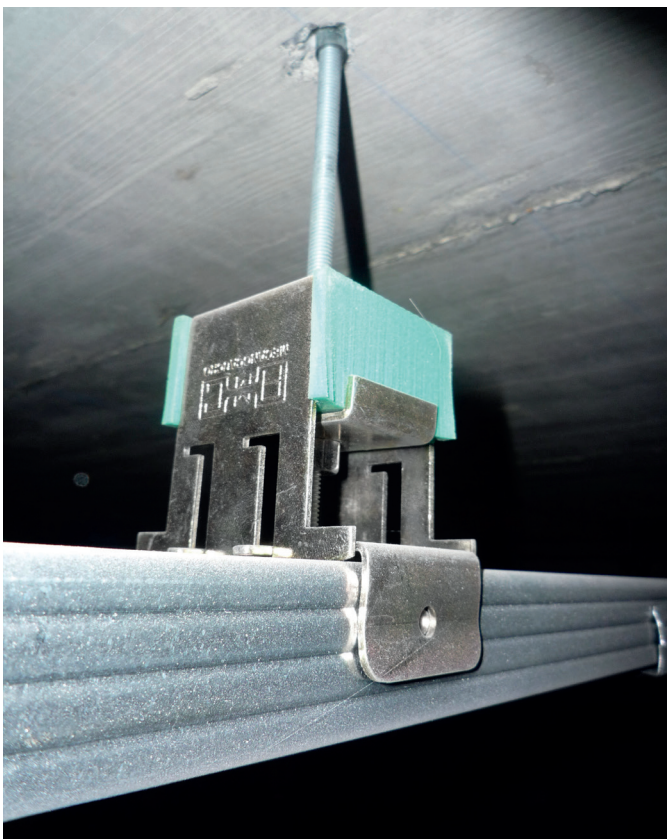
EP+Sylomer® Range

	REF. AMC	INSTALLATION EXAMPLE	CODE
	EP+Sylomer® Typ B		23701
	EP+Sylomer® Typ A		23703
	EP 400+Sylomer®		23705
	EP 500+Sylomer®		23715
	EP 600+Sylomer®		23707
	EP 650+Sylomer®		23709

	REF. AMC	(Kg). MAX. LOAD	CODE
	EP 700+Sylomer® 30	30	23711
	EP 700+Sylomer® 75	75	23712
	EP 700 Super+Sylomer® 30	30	23745
	EP 700 Super+Sylomer® 75	75	23746

WALL MOUNTS

EP+ Sylomer®: Applications



WALL MOUNTS

TLG + Sylomer®: Applications

PRODUCT DESCRIPTION

The AMC-MECANOCAUCHO® TLG+Sylomer® anti vibration mounts have been designed to isolate structure borne noise on building applications. Their resilient material is composed of Sylomer® in different densities to suit different load applications.

TLG+Sylomer® anti vibration mounts incorporate interlocking metal component that provide a fail-safe protection.

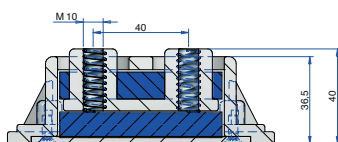
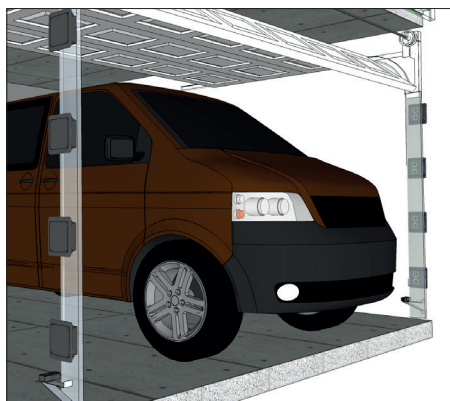
This device limits the ascending vertical movement when the mounting is submitted to shocks at traction.

The anti-corrosive properties of the Aluminum allow this part to be used in outdoor applications.

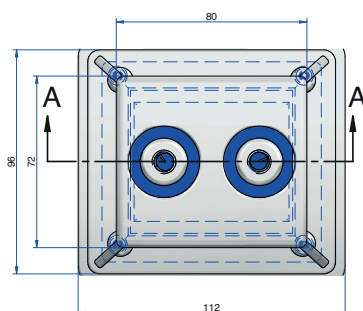
The Sylomer® polyurethane compound is oil resistant and provide low natural frequencies to avoid noise being transmitted through rigid structures.

APPLICATION

The TLG+Sylomer® is often used for the isolation of structure borne noise on frames of car park door frames, as shown on the picture below.



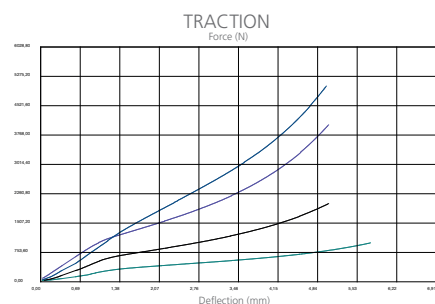
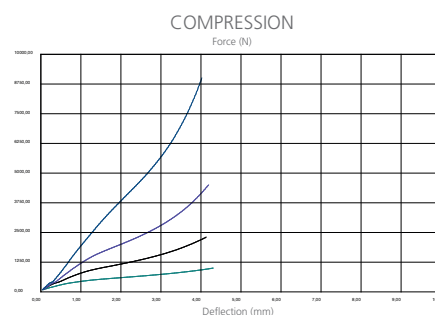
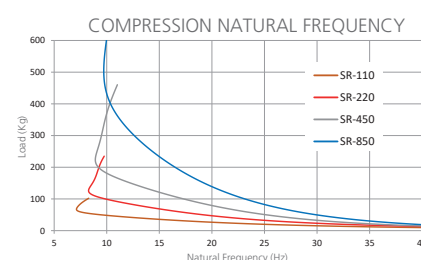
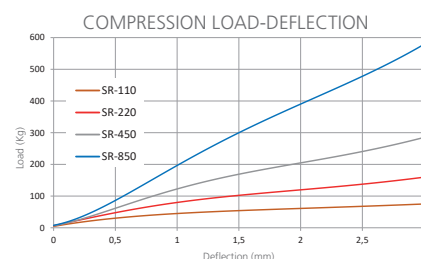
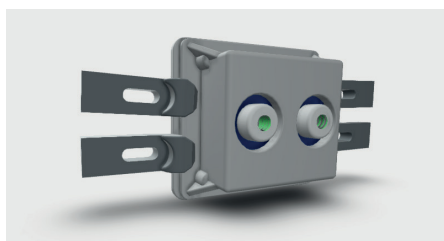
CORTE A-A



INSTALLATION:

The TLG+Sylomer® is often used in very different environments with space limitations. They are installed with standard DIN 6316 clamping elements. As shown on the image below.

Picture of the Mount installed with REF AMC 611533 clamps.



REF. AMC	(Kg) max. load	CODE
TLG + Sylomer 110	40	176522
TLG + Sylomer 220	75	176523
TLG + Sylomer 450	120	176524
TLG + Sylomer 850	190	176525

FLOATING FLOOR MOUNTS FZH+Sylomer®

DESCRIPTION

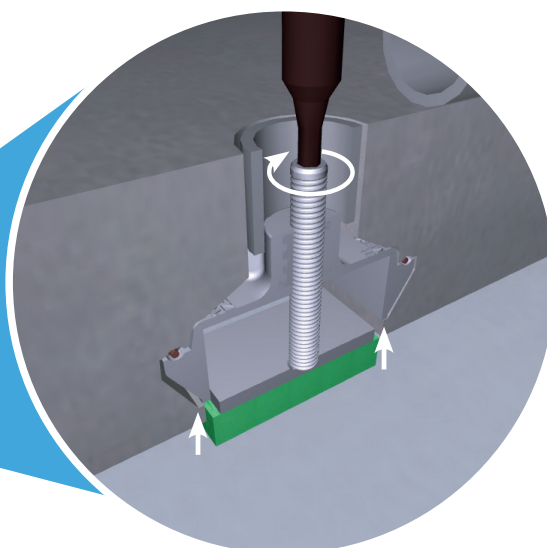
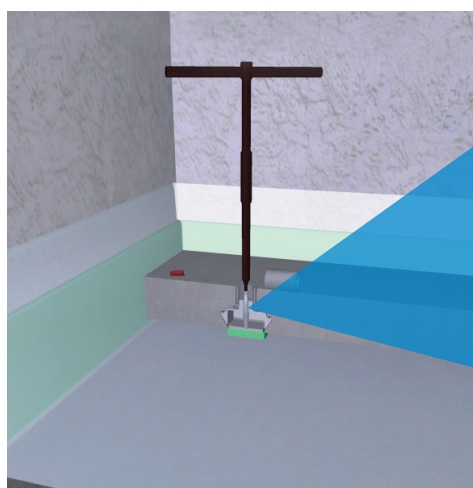
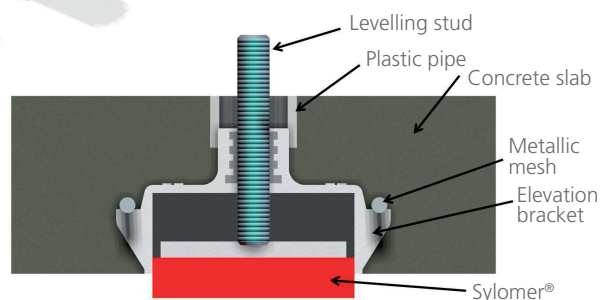
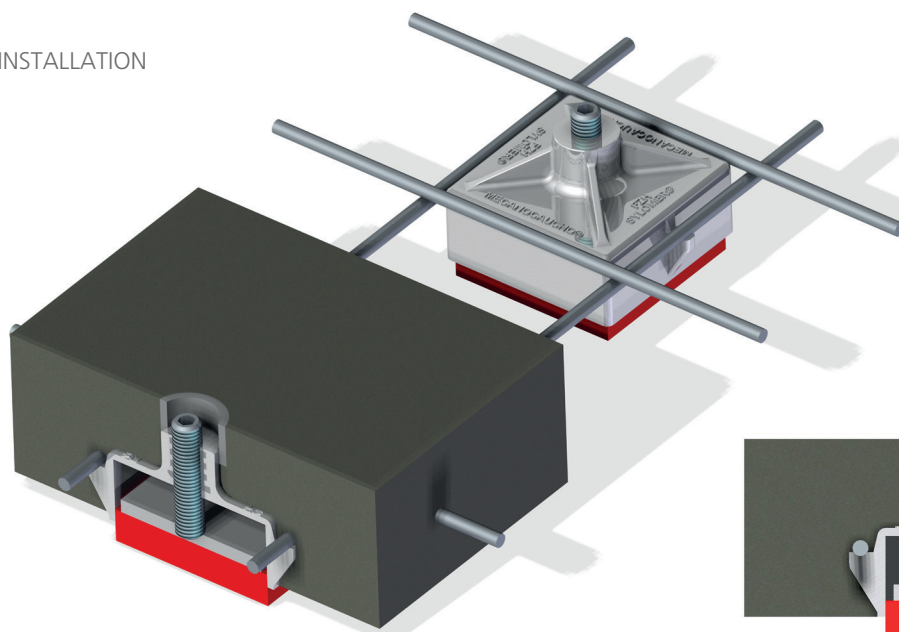
The goal of the system is to avoid the structure borne noise installing elastical mounts that are embedded in the concrete floating floor. The process of elevation is done once the concrete is dry.

The AMC-MECANOCAUCHO type FZH mounts incorporate a polyurethane elastomer called Sylomer®. This material offers optimal elastic and mechanical properties for the application.

The AMC-MECANOCAUCHO type FZH mounts can be manufactured in different densities of Sylomer to match the natural frequency needed on the application.

The process of leveling is simple and effective. The density of mount per m² is 1.12 and the distance between the mounts is 1.2 m.

INSTALLATION



FLOATING FLOOR MOUNTS

FZH+Sylomer® Range

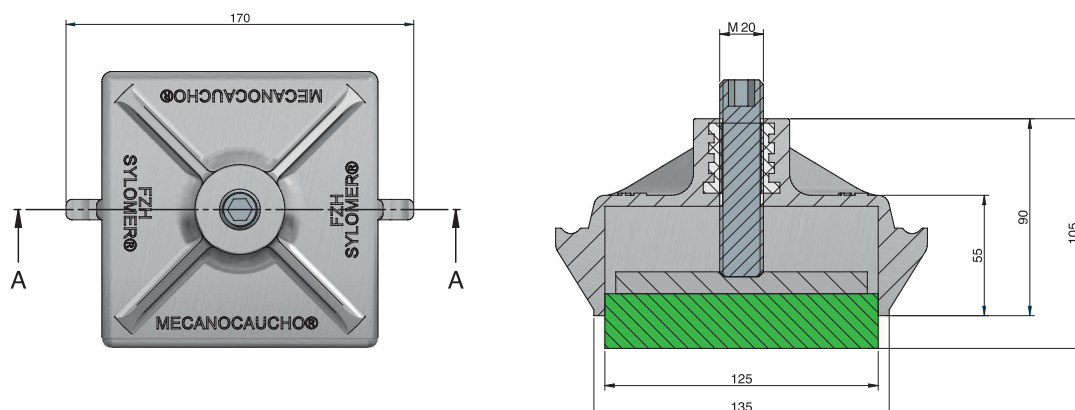


Type	SUMMARY	MAX. LOAD (Kg)	Freq (Hz) Max Load	CODE
 FZH-33-25	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	140	11	176511
 FZH-33-37	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	140	8,6	176512
 FZH-39-25	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	240	11,1	176513
 FZH-39-37	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	240	8,5	176514
 FZH-45-25	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	490	10,4	176515
 FZH-45-37	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	490	8,1	176516
 FZH-51-25	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	800	11,8	176517
 FZH-51-37	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	800	9,1	176518
 FZH-57-25	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	960	11,7	176519
 FZH-57-37	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	960	8,4	176520

ADVANTAGES:

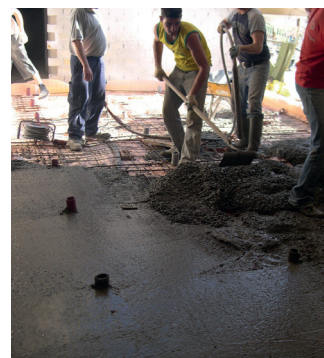
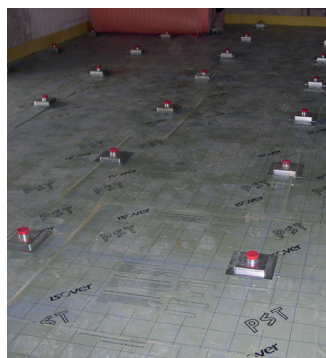
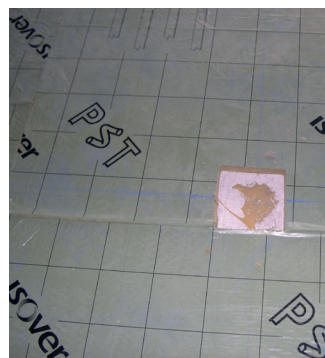
- **Lower height of the screed.** Optimum acoustic efficiency without high concrete thickness.
- This floor mount is specially interesting for those rooms who have limited space and can not use a conventional floor mount that increases the height of the floor.
- **Good isolation,** thanks to the antivibration properties of the Sylomer®. Low frequencies can be achieved providing an optimum isolation.
- **Quick installation,** no need to use plywood boards or joints between them.
- **Cost effective,** no need to use plywood boards nor joints.
- **Safe,** acoustic bridges are avoided when levelling the concrete floor.
- **Simple installation,** no specialist installators are needed.

CHARACTERISTICS



FLOATING FLOOR MOUNTS INSTALLATION FZH+Sylomer®

INSTALLATION STEPS



Conditioning the premise and installation of the mounts.

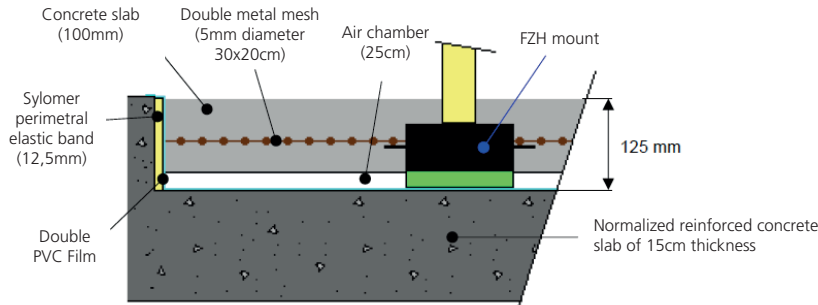
Installation of reinforced concrete.



Levelling.

Height adjustment.

COMPARATIVE TESTS AT THE LABEIN TECHNOLOGY CENTRE



Reduction of impact noise on normalized slab according to UNE en ISO 140-8:1998

Weighted gain according to UNE-EN ISO 717-2:1997 $\Delta L_w (C_{1A})$: 34 (-11) dB

These results rely on the realized tests under an artificial source under Laboratory conditions (engineering method)
 * $L_n \leq$ indicated value and $\Delta L \geq$ indicated value (measurement limits)

Laboratory measurements

Test specimen: Floating reinforced concrete slab of 100mm thickness, elevated at 25mm with a system of antivibration mounts as described on the above picture.

Employed supporting slab: Reinforced concrete slab of 15cm thickness, tested in 26/06/09 ($L_{n,0}$)

Volume of the receiving room: 64.7m³

Volume of the source room: 53.6m³

Surface of the test specimen: 13.86m² (3.3x4.2m)

Estimated specific mass: 250Kg/m²

Chamber temperature: 17.3 C°

Chamber Hygrometry: 77%



f (Hz)	L_n (dB)	$L_{n,0}$ (dB)	ΔL (dB)
100	47,2	65,1	17,9
125	46,9	60,5	13,6
160	53,2	67,5	14,3
200	49,5	65,3	15,8
250	41,8	65,4	23,6
315	37,3	64,7	27,4
400	34,5	65,9	31,4
500	34,3	67,5	33,2
630	31,9	68,0	36,1
800	32,9	70,1	37,2
1000	37,3	70,4	33,1
1250	38,9	70,7	31,8
1600	32,5	70,5	38,0
2000	27,8	70,3	42,5
2500	22,9	69,3	46,4
3150	15,3*	68,1	52,8*
4000	14,1*	66,2	52,1*
5000	11,6*	63,9	52,0*
$L_{n,w} / L_{n,0,w}$	41	76	

Airborne insulation according to UNE EN ISO 140-16:2007

Laboratory measurements according to UNE ISO 140-3:1995

Test specimen: Floating reinforced concrete slab of 100mm thickness, elevated at 25mm with a system of antivibration mounts as described on the above picture.

Employed supporting slab: Reinforced concrete slab of 15cm thickness, tested in 26/06/09 (R_{WITHOUT})

Volume of the receiving room: 64.7m³

Volume of the source room: 53.6m³

Surface of the test specimen: 13.86m² (3.3x4.2m)

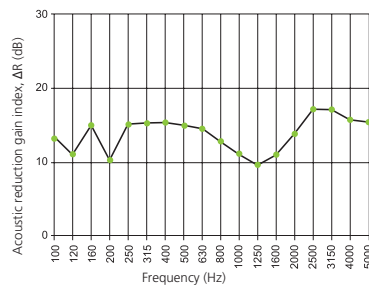
Estimated specific mass: 250Kg/m²

Chamber temperature: 17.3 C°

Chamber Hygrometry: 77%

Isolation gain indexes:
 ΔR_A : 13 dBA
 ΔR_{w^*} : 13 dB
 $\Delta(R_w+C)$: 13 dBA
 $\Delta(R_w+C_{tr})$: 13 dBA

Evaluation based in laboratory measurements according to engineering method.
 * R_{with} and $\Delta R \geq$ indicated value (measurements limits).



f (Hz)	R_{with} (dB)	R_{without} (dB)	ΔR (dB)
100	48,4*	34,8	13,6*
125	53,7*	42,6	11,1*
160	54,6*	39,6	15,0*
200	58,1*	47,6	10,5*
250	63,0	47,7	15,3
315	67,6*	52,3	15,3*
400	70,4*	54,9	15,5*
500	71,0*	56,0	15,0*
630	72,3*	57,7	14,6*
800	72,8	59,8	13,0
1000	72,0	60,8	11,2
1250	71,9	62,2	9,7
1600	74,9	63,8	11,1
2000	80,8*	66,8	14,0*
2500	87,5*	70,3	17,2*
3150	91,2*	74,1	17,1*
4000	91,9*	76,1	15,8*
5000	92,3*	76,9	15,4*
$R_w (C, C_{tr})$	72 (-2; -7)	58 (-2; -7)	
R_A	70,9	57,5	

AMC REFERENCES IN THE WORLD OF SOUND

FRANCE, ITALY, SPAIN, UNITED KINGDOM, PORTUGAL, FINLAND, GREECE...

Project: BIBLIOTHEQUE
NATIONALE DE France
Country: France

Project: CINEMA PATHÉ ECHIROLLES
Country: France

Project: CINEMA NEF CHABANT
Country: France

Project: CINEMA PATHÉ BELLE EPINE
Country: France

Project: CINÉMA PATHÉ LIEVIN
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