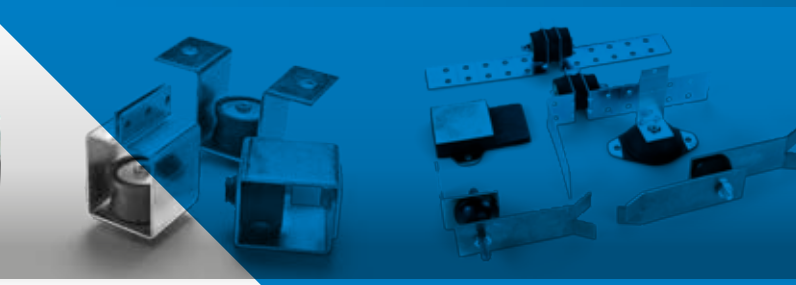
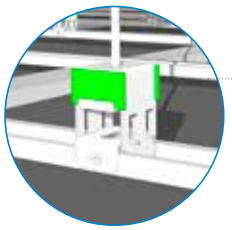
AKUSTIK + sylomer® by getzner



AMC
MECANOCAUCH

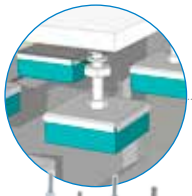
NOISE REDUCTION MOUNTS

MECANOCAUCHO



Noise isolation ceiling

FZ + Sylomer®



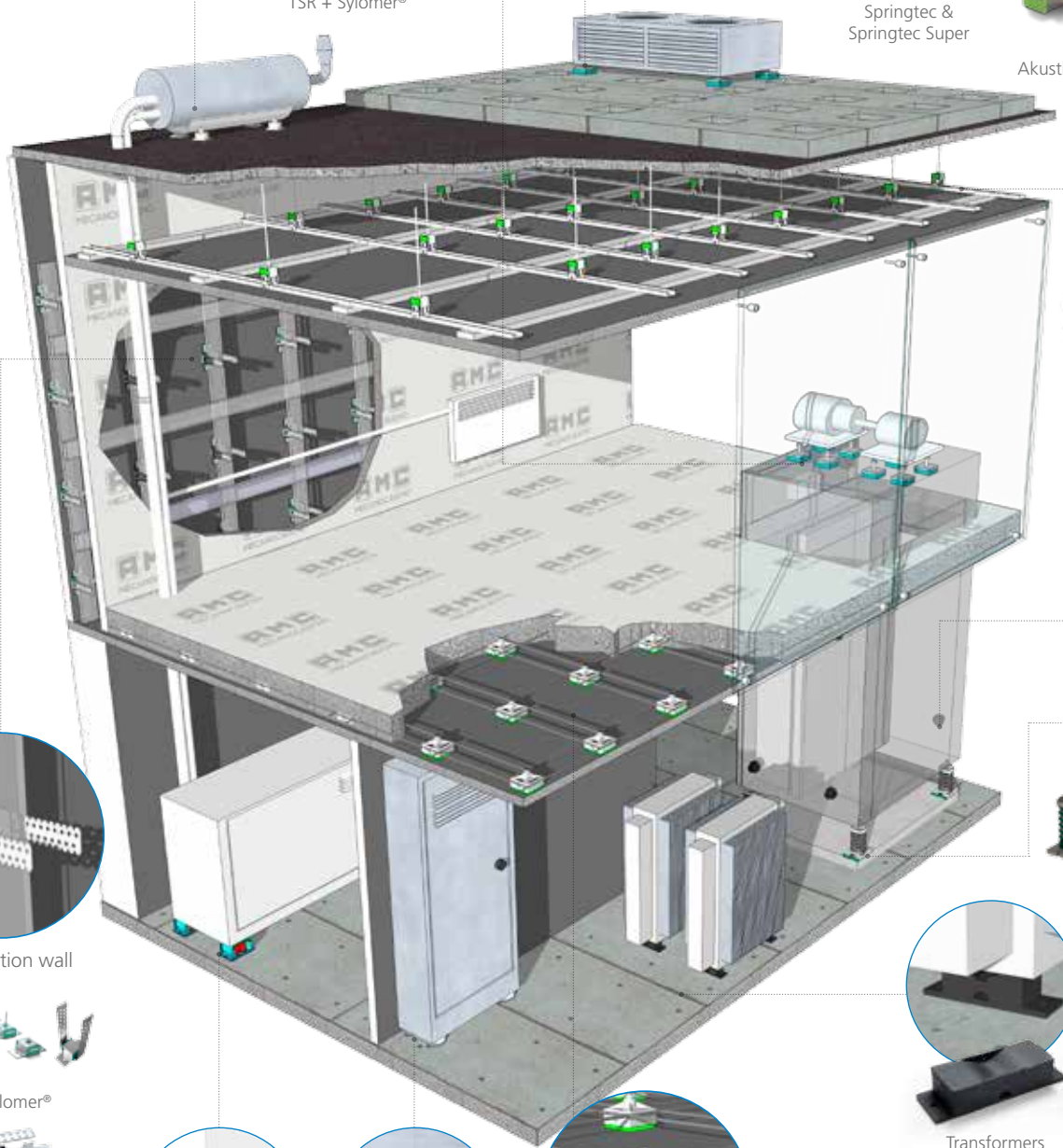
TSR + Sylomer®

SRB & SRS + Sylomer®

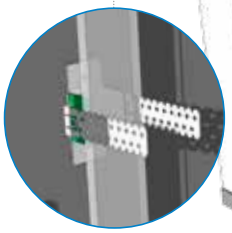
Grand Akustik

Springtec & Springtec Super

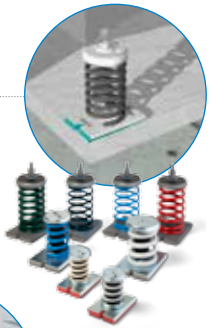
Akustik + Sylomer®



SCB



Noise isolation wall

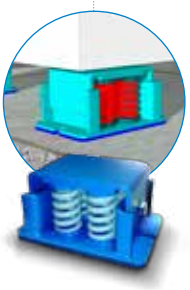


Vibrabsorber + Sylomer®

EP+Sylomer®

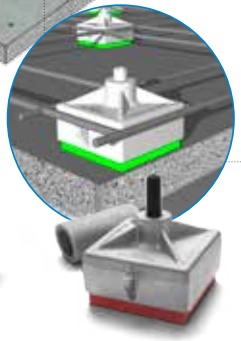
Transformers

EP



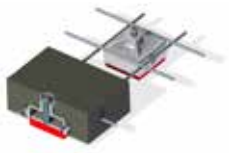
4 AMC Seismic +Sylomer®

BRB



FZH + Sylomer®

Noise isolation floor



Factory 1 of AMC-MECANOCAUCHO

Factory 2 of AMC-MECANOCAUCHO

Factory of sylomer® in Austria.

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.

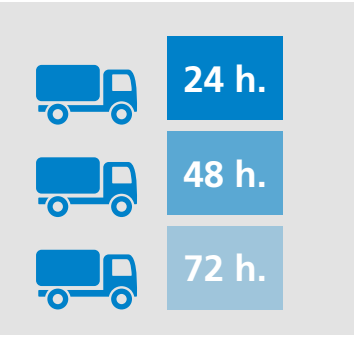
AMC-MECANOCAUCHO® has been manufacturing anti-vibration suspensions since 1969, and since then it has been manufacturing suspensions for this same purpose, using rubber, spring or a combination of both, called **Akustik.**

GETZNER Werkstoffe GmbH manufactures a prestigious anti-vibration material called **Sylomer®** whose main application has been the isolation of vibrations produced by railways. 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.

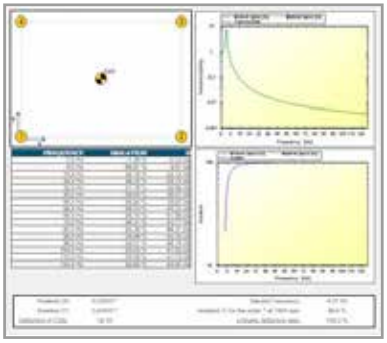
The **Akustik+Sylomer®** ceiling mounts are made of Sylomer®, a microcelular polyurethane material specially conceived for vibration isolation. This material produces a higher degree of damping than the elastomers traditionally used for this purpose.

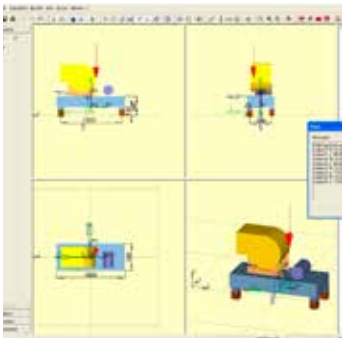
ENGINEERING

LOGISTICS



ANTIVIBRATION CALCULATIONS

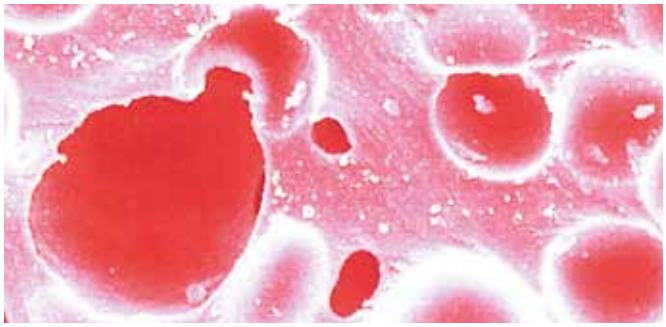




EXPOSITION TOOLS FOR DISTRIBUTORS

< 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 3 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

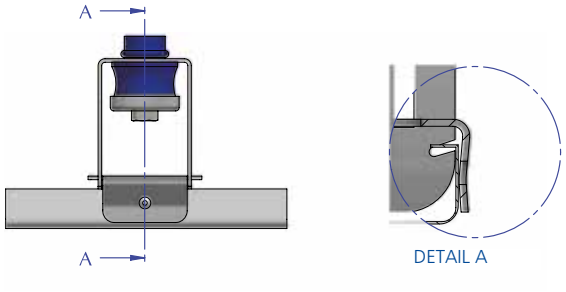
AMC-MECANOCAUCHO offers a wide range of exposition displays on store. Should you require one, do not hesitate to contact our sales dpt, so they can offer you the one that adapts better to your needs.

“The SUPER security in your installation”

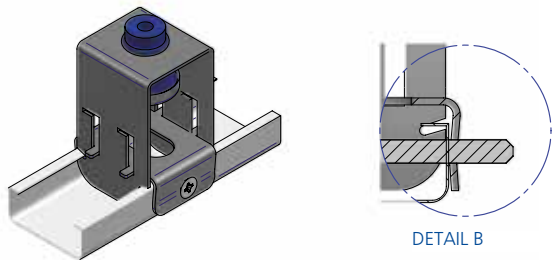
Akustik Super

The “SUPER”security feature is adaptable to the different profiles existing on the market. The external dimension of the profiles that exist on the market may variate, our “SUPER” security system with lip form adapts to the different lengths of the profile having a tight fit.

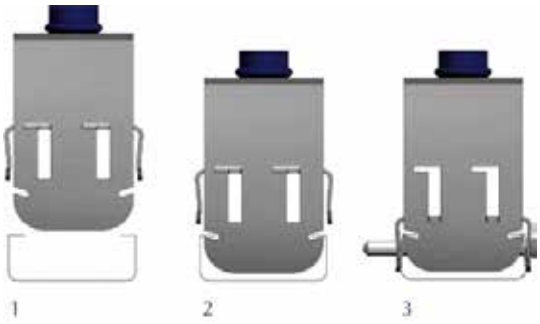
1- The security system is adaptable to different widths of profiles.



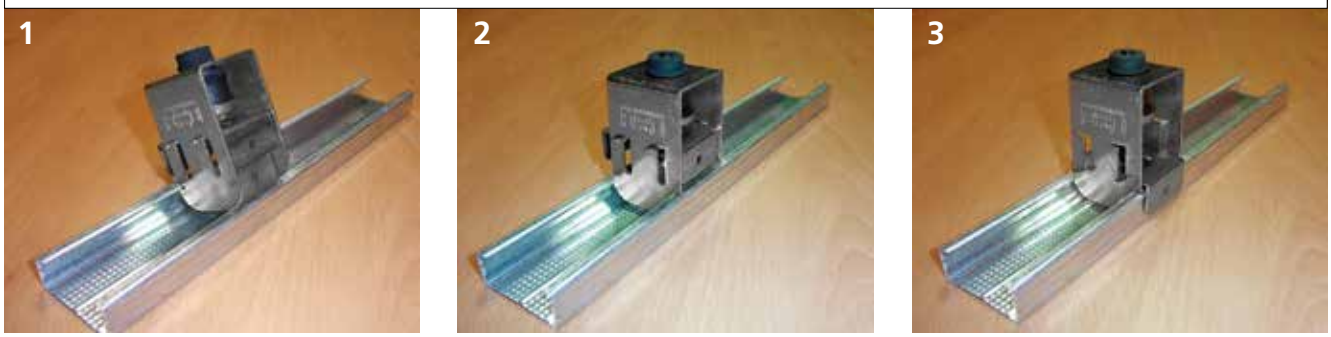
2- The “‘SUPER” security system admits the possibility of inserting a blocking screw.



Installation Steps



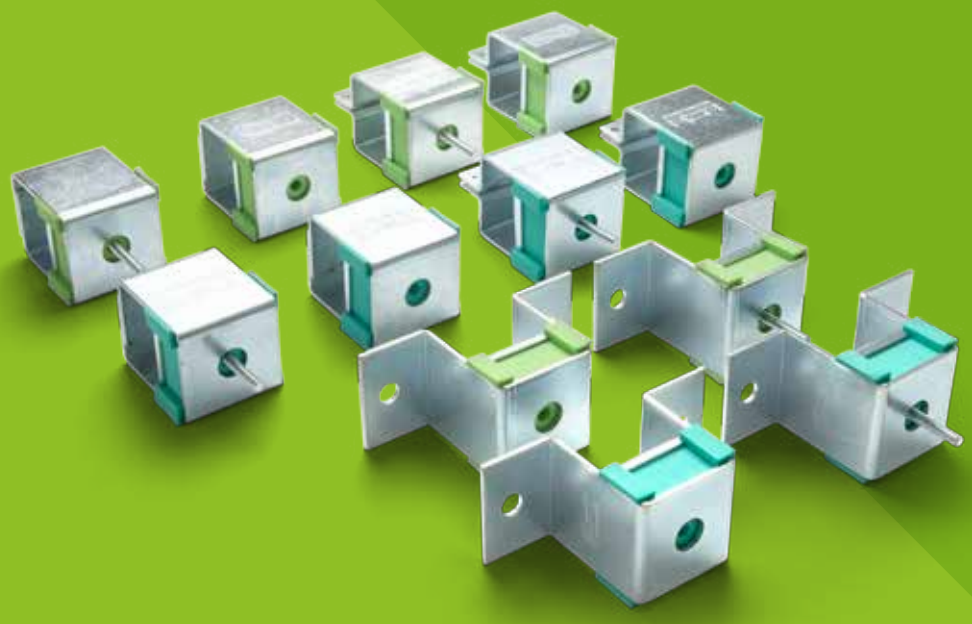
Installation of Akustik Super rubber



Installation of Akustik Super + sylomer®

Akustik+ by getzner sylomer®

When 2 dB at low frequencies make the difference



COMPARATIVE TESTS AT THE LABEIN TECHNOLOGY CENTRE

Akustik+Sylomer® is de 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 microcelular 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.

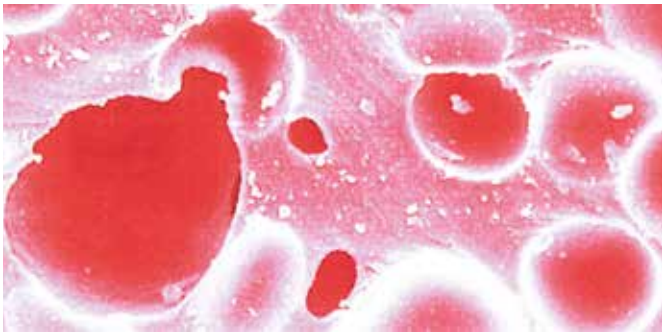
The secondary endpoint is to compare the Akustik+Sylomer® to another suspension with the same size-specific characteristics using high-resilience natural rubber from our Akustik 4 45 shore A standard series.

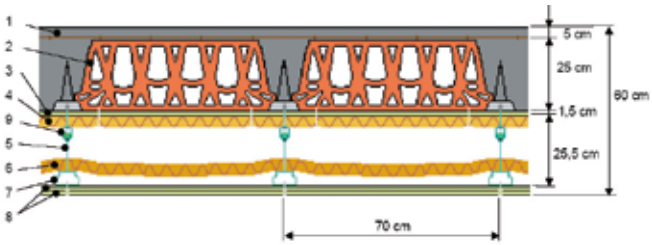
TEST METHODOLOGY

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".

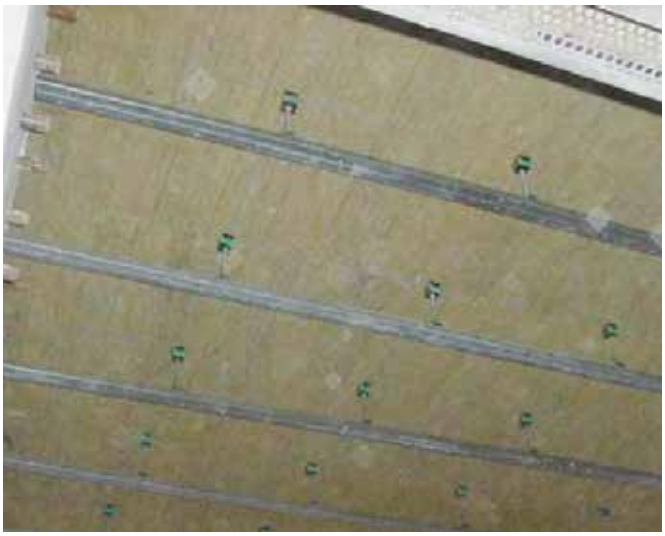




Specimen used for the test

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**

AKUSTIK + sylomer® by getzner

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

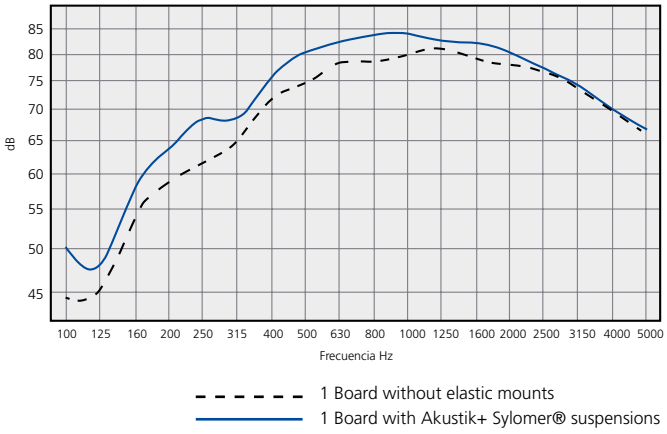
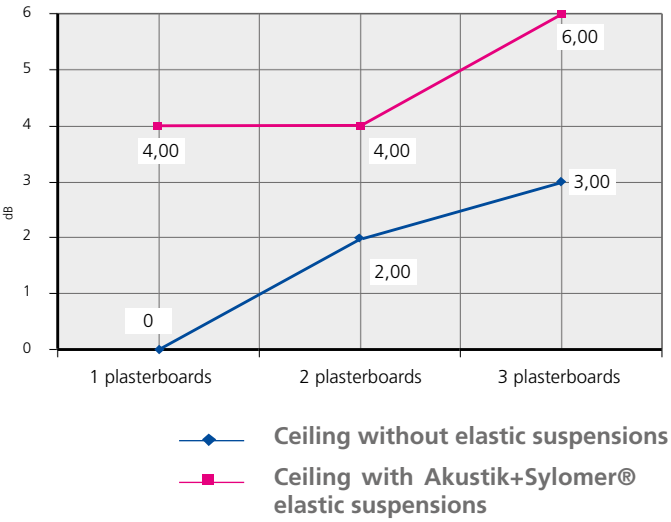


Table 1

RW sound isolation index	Without suspensions(M6 rod)	With suspensions Akustik + sylomer®
1 plasterboard	71 dB	75 dB
2 plasterboard	73 dB	75 dB
3 plasterboard	74 dB	77 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 withakustik+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 sound isolation index	Akustik + sylomer®	RUBBER
1 plasterboard	75 dB	74 dB
2 plasterboard	75 dB	75 dB
3 plasterboard	77 dB	76 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

AKUSTIK + sylomer® by getzner

BEHAVIOUR AT HIGH AND LOW FREQUENCIES

Structure-borne noise is that which 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.

Sylomer® Low Loads

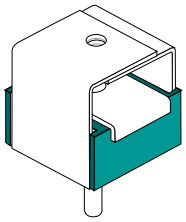


Fig.1
"Creeping" Behaviour

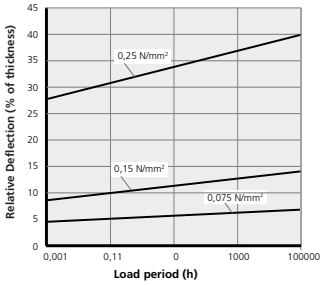
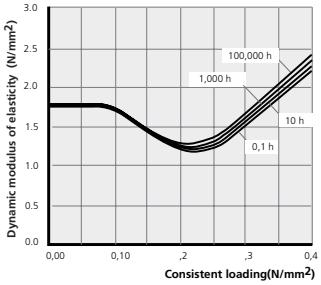


Fig. 2
Dynamic modulus of elasticity at long term loading



Sylomer® High Loads

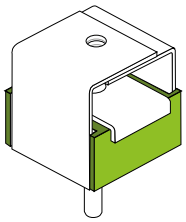


Fig.3
"Creeping" Behaviour

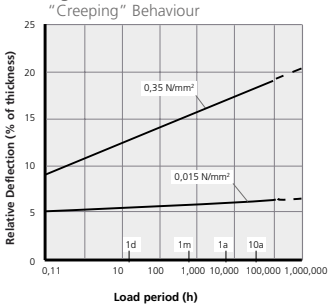
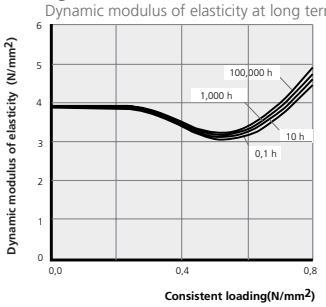


Fig. 4
Dynamic modulus of elasticity at long term loading



CEILING MOUNTS

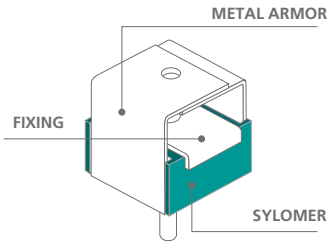
Akustik + Sylomer®: Models and dimensions

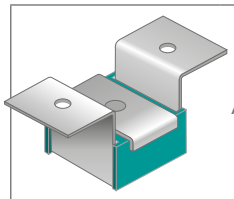
PRODUCT DESCRIPTION

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

The excellent properties of the Sylomer® microcelular polyurethane achieve elevated isolation values as opposed to other mounts using rubber or cork, or a combination of both. These antivibration mounts are manufactured in two special mixes of Sylomer® to adapt better to the load of each application.

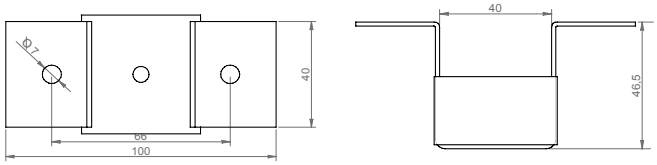
A great variety of fixing metal armors and elements facilitate installation and adapt better to each type of job. Their rugged metal parts withstand can tensile stresses from 650 kg to 1000 kg. They are supplied with an anticorrosive treatment that can withstand the toughest environments.

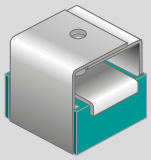




Akustik 1

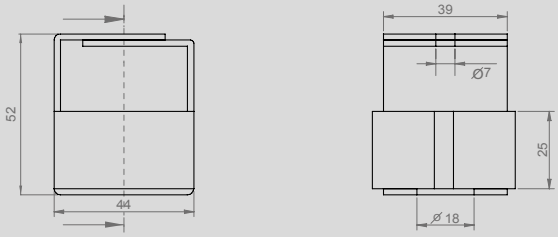
It is secured directly to the ceiling by means of two holes.

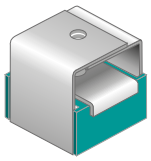




Akustik 3

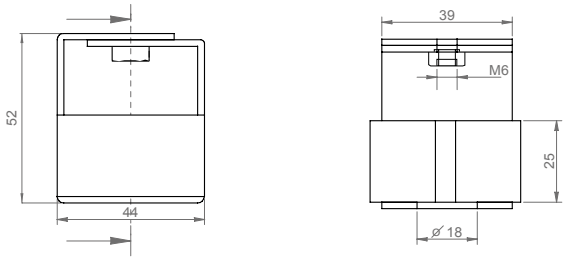
It is secured directly to the ceiling with a screw and locking nut.

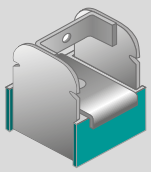




Akustik 4

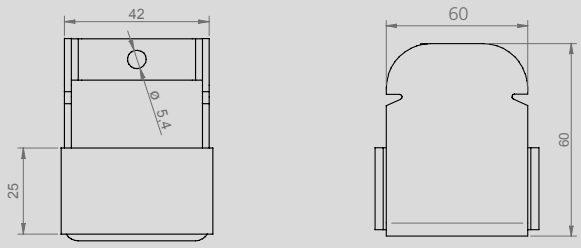
It is secured with a screw via a nut welded to the metal armor.

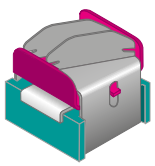




Akustik Rapid

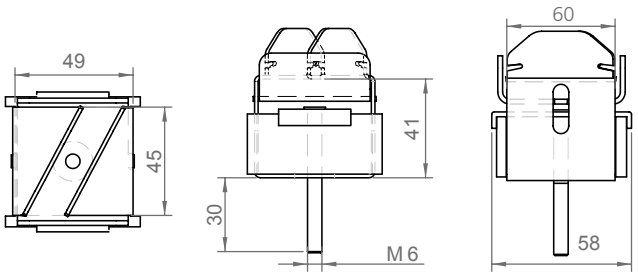
Designed to be secured to most profiles on the market. Its design makes for easy and safe installations.





Akustik Safety

Its gravitational system guarantees correct installation and offers greater safety, preventing elements from becoming detached.
Thanks to its design, the mount will not attach to the profile if it is not installed properly. It prevents possible slip-ups. Its 45° forked design makes installation and removal easy and safe.



AKUSTIK + sylomer® by getzner

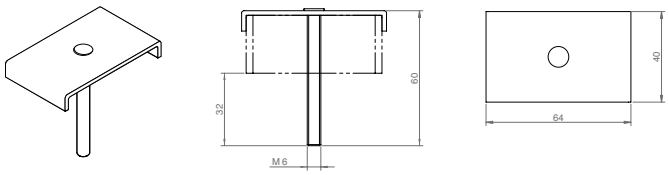
CEILING MOUNTS

Akustik + Sylomer®: Models and dimensions

TYPE OF FIXING

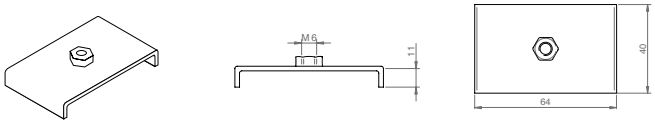
TYPE A

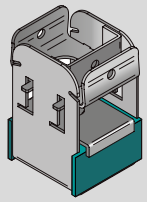
For installations where M6 male fixing is required, the recommended fixing is **Type A.**



TYPE B

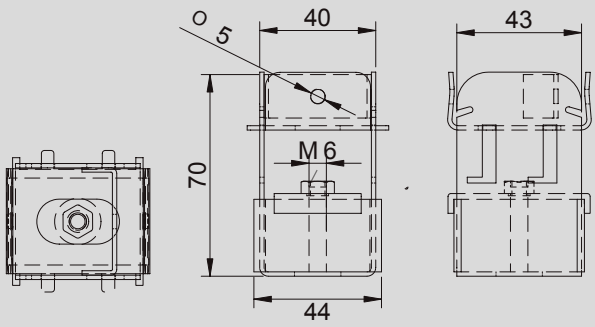
For installations where M6 female fixing is required, the recommended fixing is **Type B.**

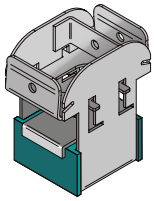




Akustik Super T47

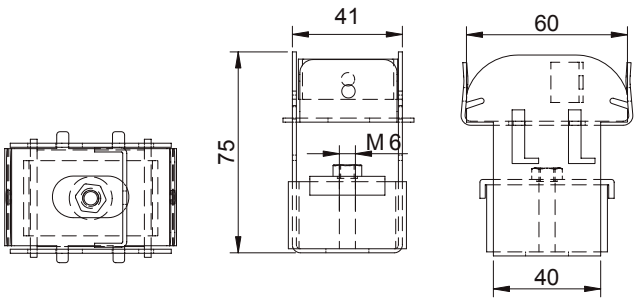
The "SUPER" security feature is adaptable to the different profiles existing on the market.





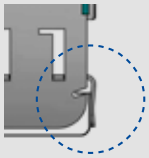
Akustik Super T60

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

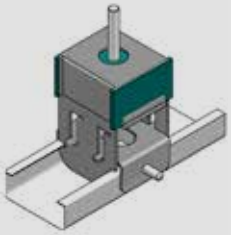


INSTALLATION STEPS OF AKUSTIK SUPER

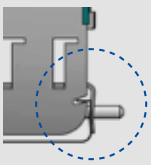
Detail A



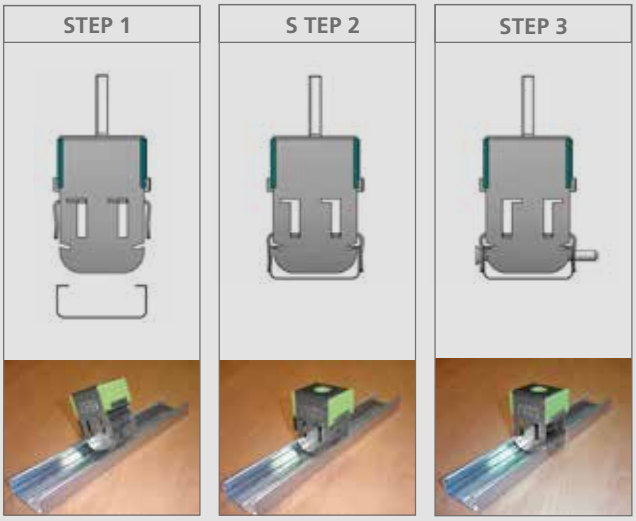
1• The security system is adaptable to different widths of profiles.



Detail B



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

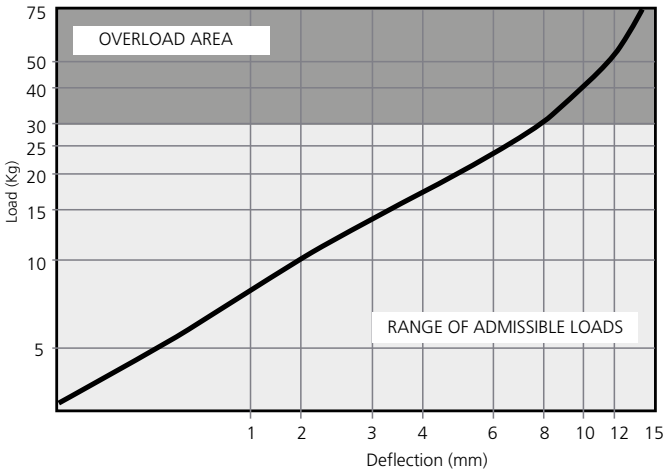


CEILING MOUNTS

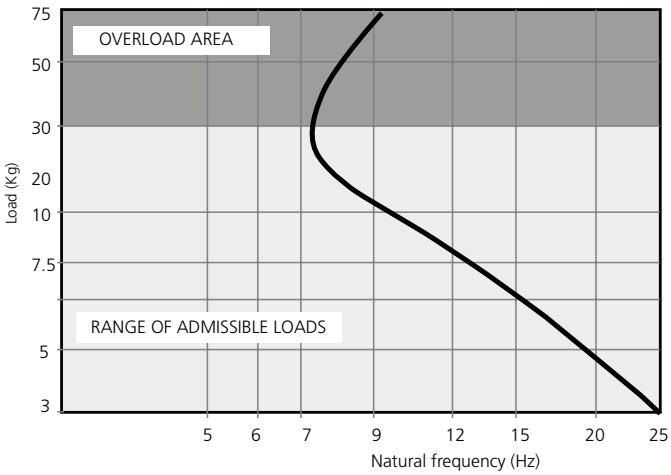
Akustik + Sylomer®: Models and dimensions

TYPES OF SYLOMER

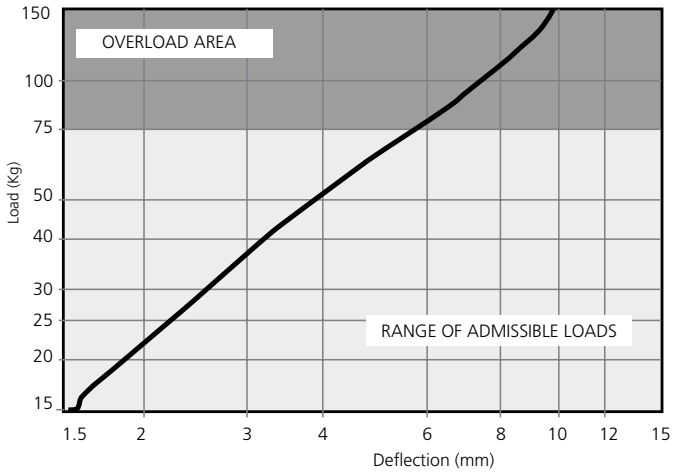
LOAD DEFLECTION GRAPH
Akustik + Sylomer **30**



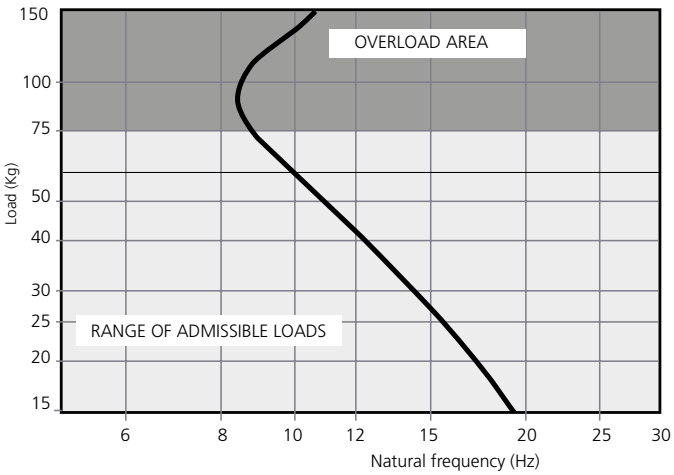
NATURAL FREQUENCY
Akustik + Sylomer **30**



LOAD DEFLECTION GRAPH
Akustik + Sylomer **75**



NATURAL FREQUENCY
Akustik + Sylomer **75**



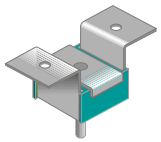
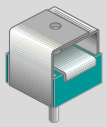
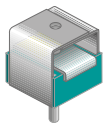
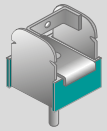
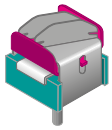
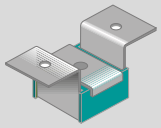
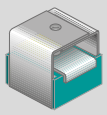
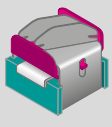
Application of an Akustik 4+Sylomer 30 type A.

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

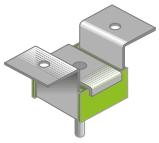
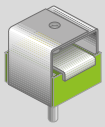
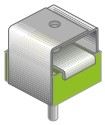
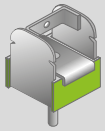
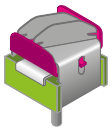
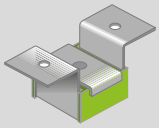
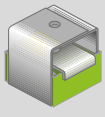
AKUSTIK + sylomer® by getzner

CEILING MOUNTS

Akustik + Sylomer®: Range

	REF AMC	SUMMARY	(Kg) MAX. LOAD	CODE
	Akustik 1 + Sylomer®30 Type A	Ventana del Akustik 1 fijada al techo con dos agujeros y un Type de FIXING macho M- 6.	30	23501
	Akustik 3 + Sylomer®30 Type A	Metal armor of the akustik 3 secured to the ceiling by an M6 screwand with a nut.	30	23503
	Akustik4 + Sylomer®30 Type A	Metal armor of the Akustik 4 secured to the ceiling by an M6 screw.	30	23505
	Akustik Rapid + Sylomer®30 Type A	Metal armor of the Akustik rapid secured to the ceiling by an M6 screw.	30	23507
	Akustik Safety + Sylomer®30 Type A	Metal armor of the Akustik Safety secured to the ceiling by an M6 screw.	30	23508
	Akustik 1 + Sylomer®30 Type B	Metal armor of the Akustik 3 secured to the ceiling by a welded M6 nut.	30	23509
	Akustik 3 + Sylomer®30 Type B	Metal armor of the Akustik 4 secured to the ceiling by a welded M6 nut.	30	23511
	Akustik4 + Sylomer®30 Type B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	30	23513
	Akustik Rapid + Sylomer®30 Type B	Metal armor of the Akustik Safety secured to the ceiling by an M6 screw.	30	23515
	Akustik STeguridad + Sylomer®30 TypeB	Metal armor of the Akustik Safety secured to the ceiling by a welded M6 nut.	30	23516

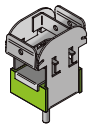
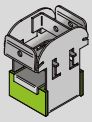
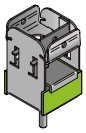
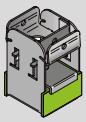
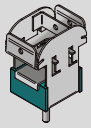
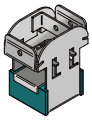
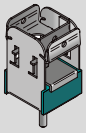
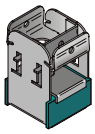
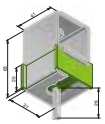
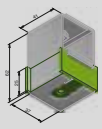
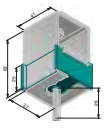
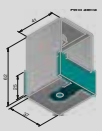
CEILING MOUNTS
Akustik + Sylomer®: Range

	REF. AMC	SUMMARY	(Kg) MAX. LOAD	CODE
	Akustik 1 + Sylomer®75 Type A	Metal armor of the Akustik 1 secured to the ceiling with two holes and an M6 male fixing type (Type A).	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
	Akustik4 + Sylomer®75 Type A	Metal armor of the Akustik 4 secured to the ceiling by an M6 screw.	75	23521
	Akustik Rapid + Sylomer®75 Type A	Metal armor of the Akustik rapid secured to the ceiling by an M6 screw.	75	23523
	Akustik Safety + Sylomer®75 Type A	Metal armor of the Akustik 1 secured to the ceiling by a welded M6 nut.	75	23524
	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
	Akustik4 + Sylomer®75 Type B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	75	23529
	Akustik Rapid + Sylomer®75 Type B	Metal armor of the Akustik Safety secured to the ceiling by an M6 screw.	75	23531
	Akustik Safety + Sylomer®75 TypeB	Metal armor of the Akustik Safety secured to the ceiling by a welded M6 nut.	75	23533

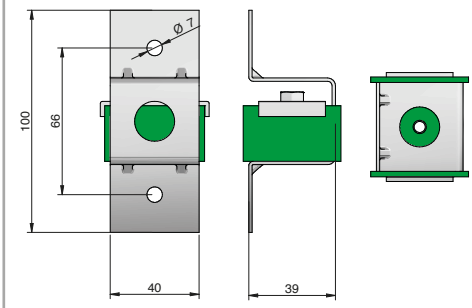
AKUSTIK + sylomer® by getzner

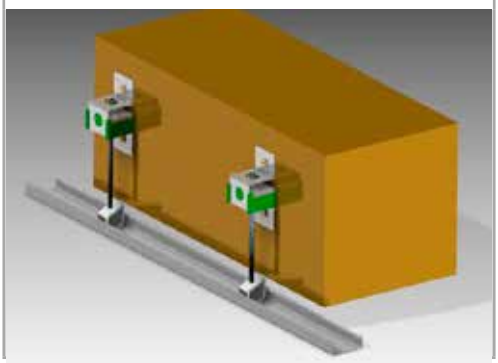
CEILING MOUNTS

Akustik Super + Sylomer® y Akustik Sierra + Sylomer®: Range

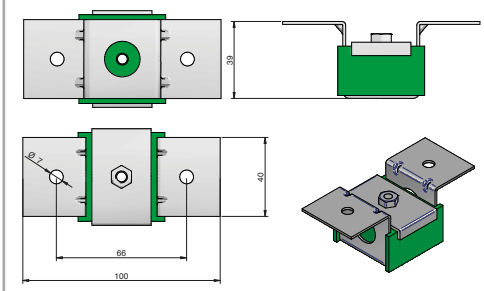
	REF. AMC	SUMMARY	(KG) MAX. LOAD	CODE
	Akustik Super T60 + Sylomer®75 Type A	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	75	23851
	Akustik Super T60 + Sylomer®75 Type B	Metal armor of the Akustik Super secured to the ceiling by an M6 screw.	75	23852
	Akustik Super T47 + Sylomer®75 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
	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
	NEW Akustik Sierra + Sylomer®75 Type A	Ventana fijada al techo mediante tornillo M6. Además, incorpora elemento de FIXING al perfil de gran sencillez.	75	23865
	NEW Akustik Sierra + Sylomer®75 Type B	Ventana fijada al techo mediante tuerca soldada M6. Además, incorpora elemento de FIXING al perfil de gran sencillez.	75	23866
	NEW Akustik Sierra + Sylomer®30 Type A	Ventana fijada al techo mediante tornillo M6. Además, incorpora elemento de FIXING al perfil de gran sencillez.	30	23863
	NEW Akustik Sierra + Sylomer®30 Type B	Ventana fijada al techo mediante tuerca soldada M6. Además, incorpora elemento de FIXING al perfil de gran sencillez.	30	23864

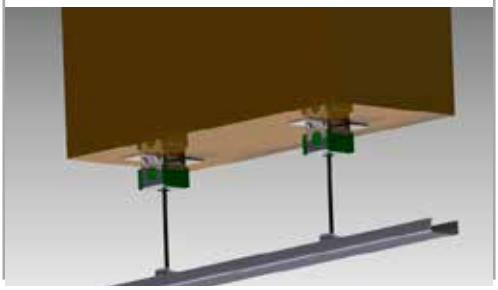
Akustik 1 Lateral + Sylomer® NEW





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® 75 Type A	75	23574
Akustik 1 Lateral + Sylomer® 30 Type B	30	23510
Akustik 1 Lateral + Sylomer® 75 Type B	75	23526

CEILING MOUNTS

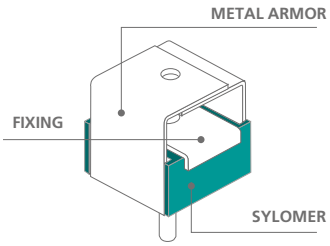
Grand Akustik + Sylomer®: Models and dimensions

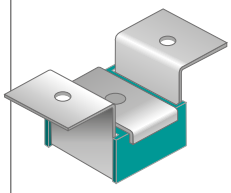
PRODUCT DESCRIPTION

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

The excellent properties of the Sylomer® microcelular polyurethane achieve elevated isolation values as opposed to other mounts using rubber or cork, or a combination of both. These antivibration mounts are manufactured in two special mixes of Sylomer® to adapt better to the load of each application.

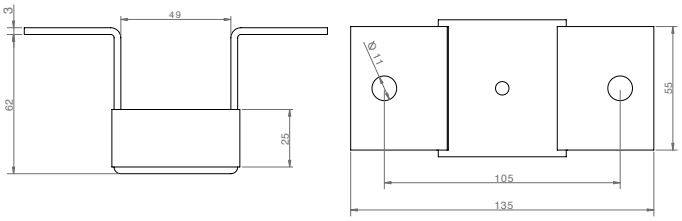
A great variery of fixing windows and elements facilitate installation and adapt better to each type of job. Their rugged metal parts can withstand tensile stresses from 650 to 1000 Kg. They are supplied with an anticorrosive treatment that can withstand the toughest environments.

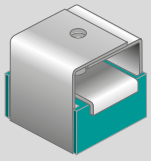




Grand Akustik 1

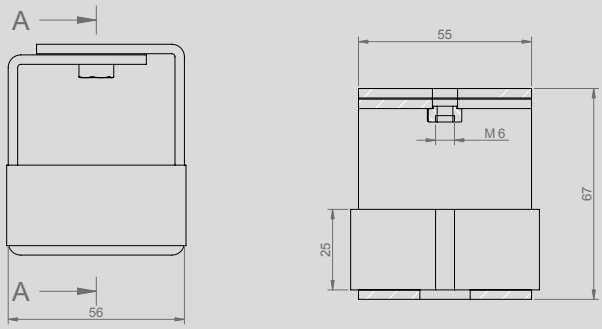
It is secured to the ceiling with two holes.

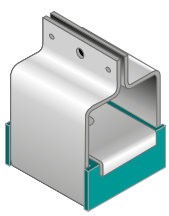




Grand Akustik 2

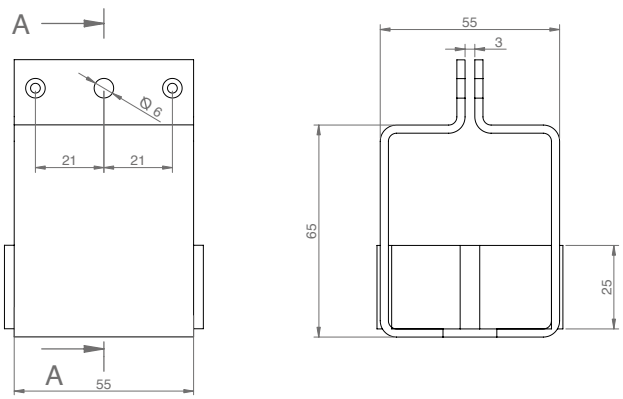
It is secured directly to the ceiling by means of a screw.





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.



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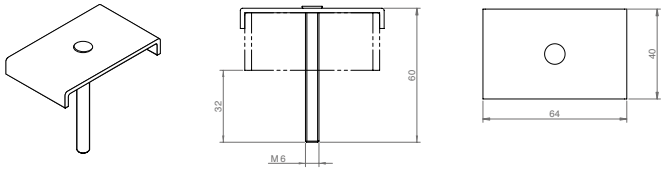
CEILING MOUNTS

Grand Akustik + Sylomer®: Models and dimensions

TYPE OF FIXING

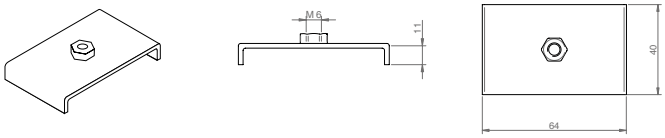
Type A

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



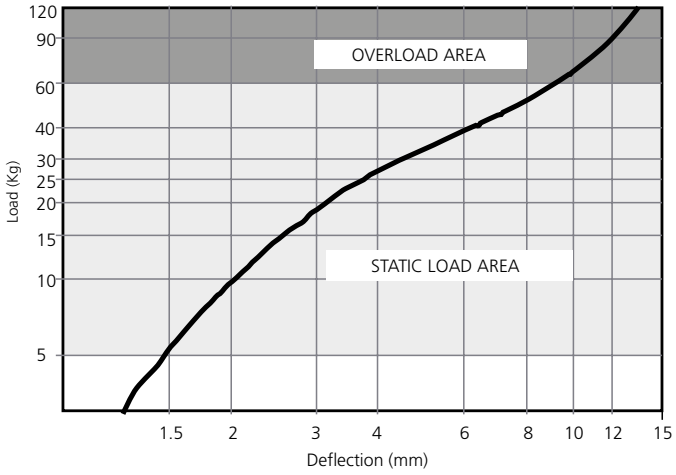
Type B

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

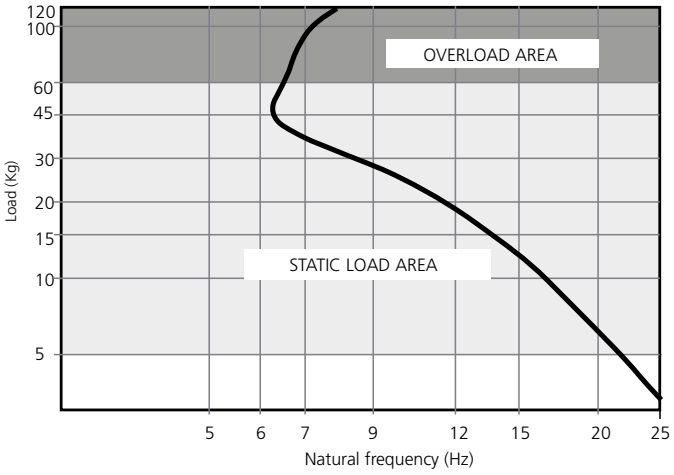


TYPES OF SYLOMER

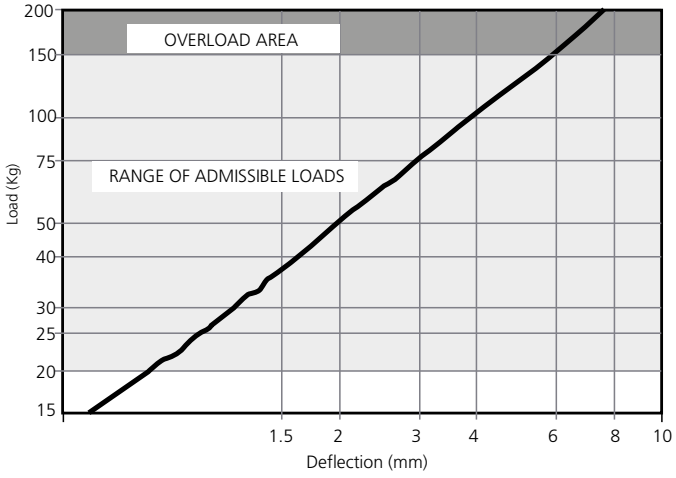
LOAD DEFLECTION GRAPH
Grand Akustik + Sylomer 60



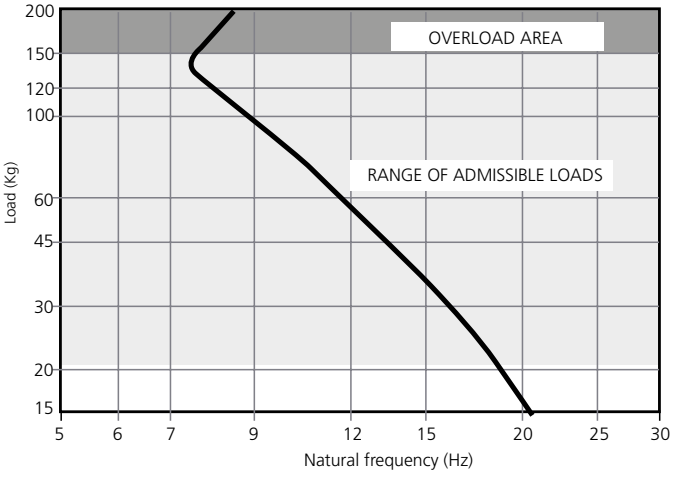
NATURAL FREQUENCY GRAPHS
Grand Akustik + Sylomer 60



LOAD DEFLECTION GRAPH
Grand Akustik + Sylomer 150

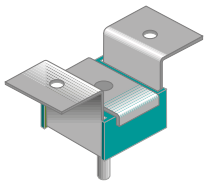
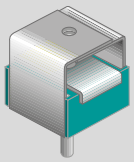
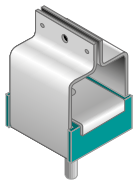
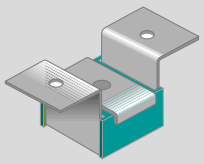
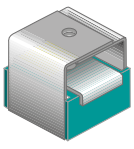
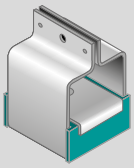


NATURAL FREQUENCY GRAPHS
Grand Akustik + Sylomer 150



CEILING MOUNTS

Gran Akustik + Sylomer®: Range

	REF. AMC	SUMMARY	(Kg) MAX. LOAD	CODE
	Gran Akustik 1 + Sylomer®60 Type A	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
	Gran Akustik 2 + Sylomer®60 Type A	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
	Gran Akustik3 + Sylomer®60 Type A	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
	Gran Akustik 1 + Sylomer®60 Type B	It is secured to the ceiling with two holes and to the profile by means of a "type B" female fixing.	60	23609
	Gran Akustik 2 + Sylomer®60 Type B	It is secured to the ceiling by a screw and to the profile by a "type B" female fixing.	60	23613
	Gran Akustik 3 + Sylomer®60 Type B	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

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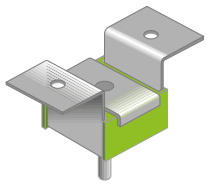
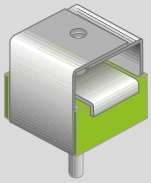
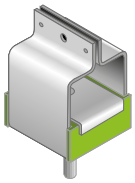
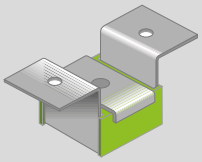
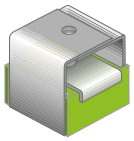
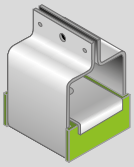
CEILING MOUNTS

Gran Akustik + Sylomer®: Range

	REF. AMC	SUMMARY	(Kg) MAX. LOAD	CODE
	Gran Akustik 1 + Sylomer®150 Type A	It is secured directly to the ceiling with two holes and to the profile by means of a "type A" male screw.	150	23617
	Gran Akustik 2 Type A	It is secured directly to the ceiling with one screw and to the profile by means of a "type A" screw.	150	23621
	Gran Akustik3 + Sylomer®150 Type A	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
	Gran Akustik 1 + Sylomer®150 Type B	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
	Gran Akustik 2 + Sylomer®150 Type B	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
	Gran Akustik 3 + Sylomer®150 Type B	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

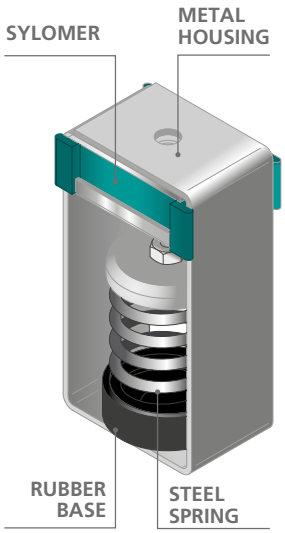
SRS + Sylomer®: Models and dimensions

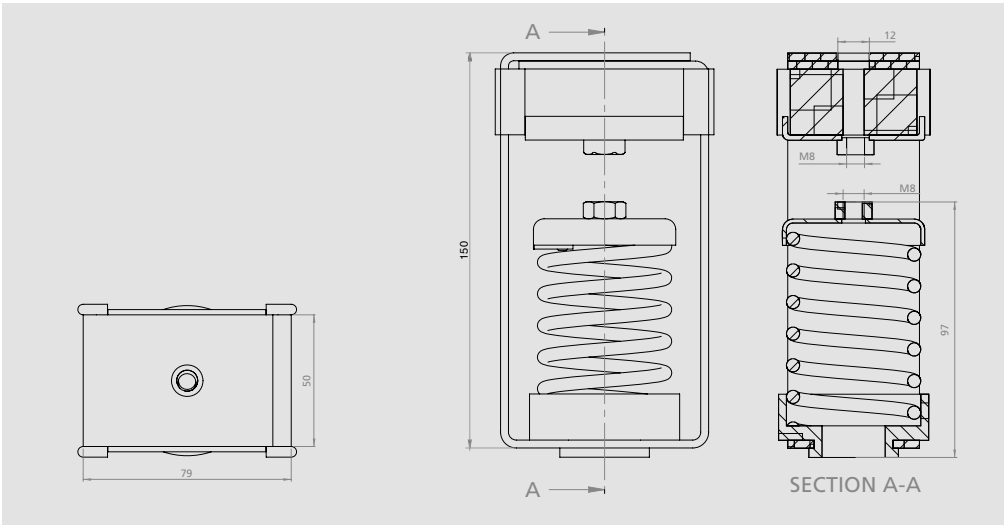
PRODUCT DESCRIPTION

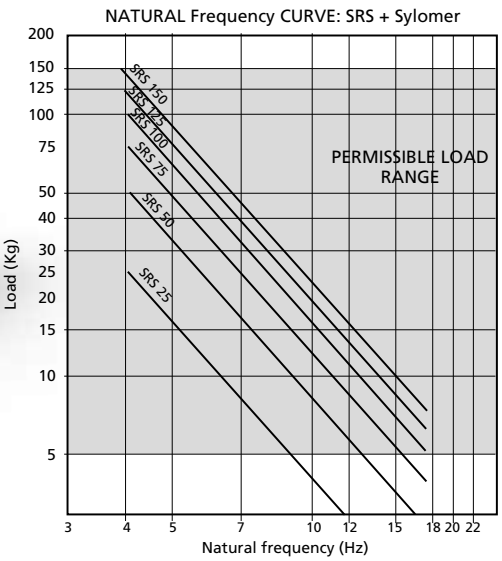
These antivibration mounts have been conceived for the suspension of suspended ceilings or machines that rotate at low frequency. The excellent properties of the Sylomer® microcelular polyurethane combined with the low stiffness of an steel spring achieve increased isolation values as opposed to other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

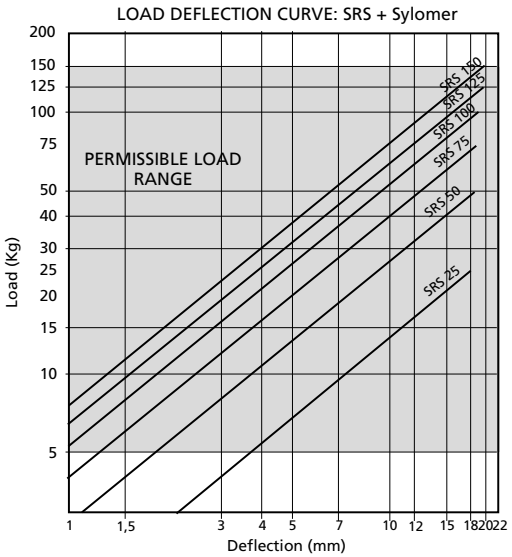
These antivibration mounts are manufactured in 6 different steel spring models to adapt optimal for each application.

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.





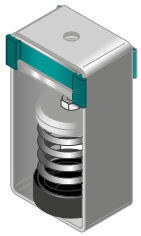
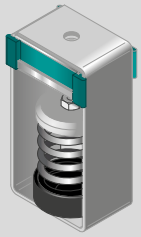
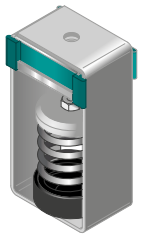
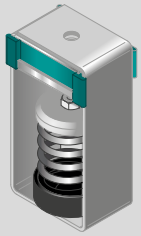
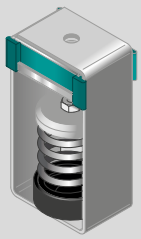




AKUSTIK + sylomer® by getzner

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

WALL MOUNTS

EP + Sylomer®: Models and dimensions

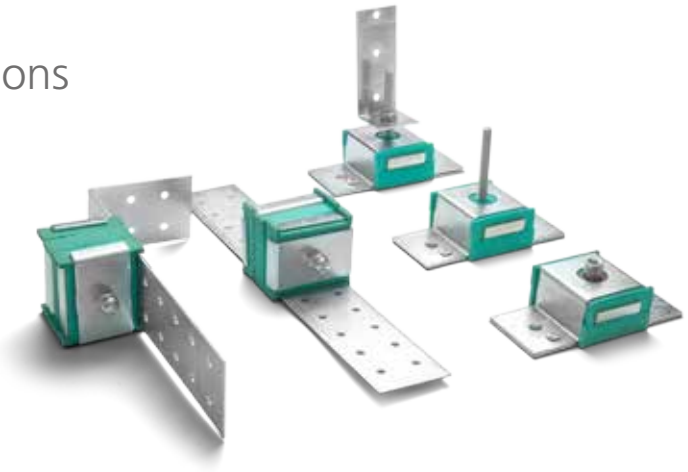
LOAD AMC DEL PRODUCTO

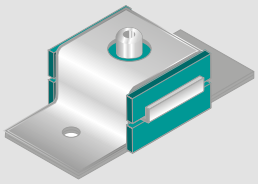
Range designed for the floating suspension of soundproofed walls. Sylomer® avoids the transmission of vibrations while providing optimal acoustic results.

They have a "FAIL SAFE" rugged metal structure, which is overload-proof.

Recommended for applications where fire or impact resistance is necessary.

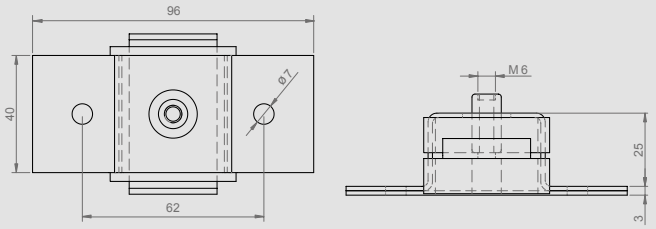
These mounts are also suitable for the isolation of vertical pipes, or any type of lightweight ducts that need to be isolated.

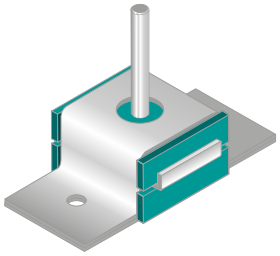




EP + Sylomer Type B

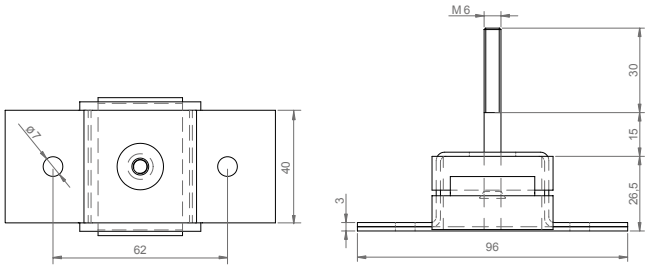
It is secured to the wall by means of two holes. It has a female M6 metal insert.

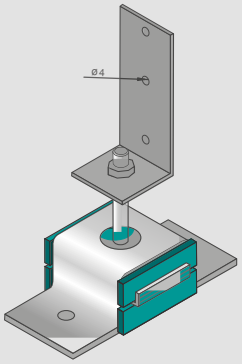




EP + Sylomer Type A

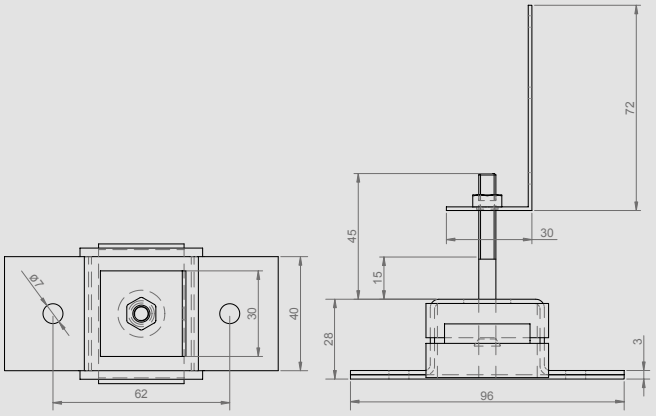
It is secured to the wall by means of two holes. It has a female M6 metal insert.

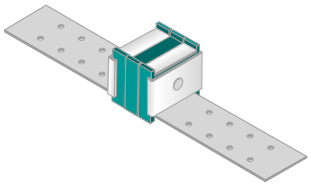




EP400 + Sylomer

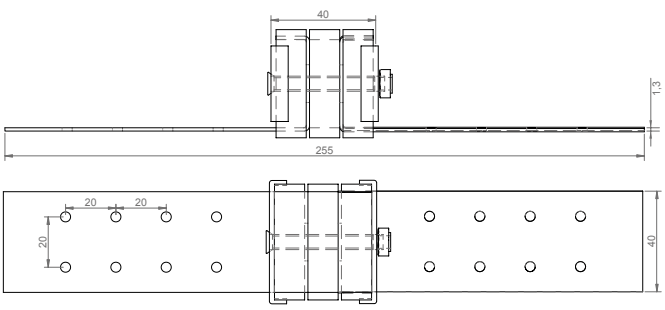
It is secured to the wall by means of two holes. It has a male M6 metal insert and also an "L" welded nut for securing to the profile.





EP 600 + Sylomer

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



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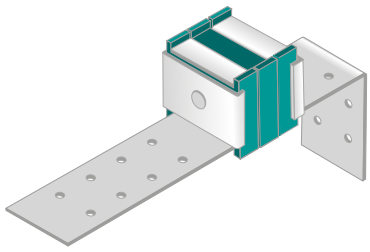
WALL MOUNTS

EP + Sylomer®: Models and dimensions

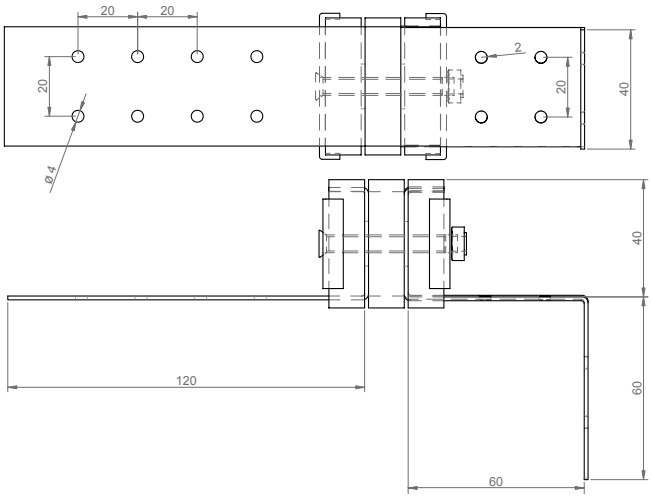


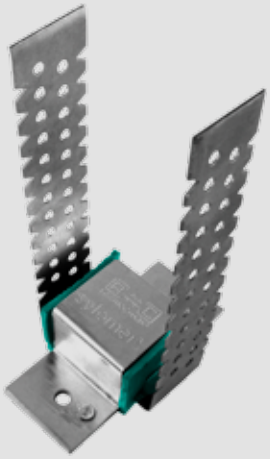
EP 650 + Sylomer

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.

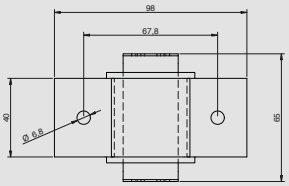


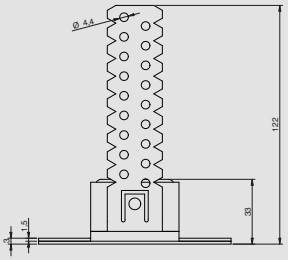


EP 700 + Sylomer

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

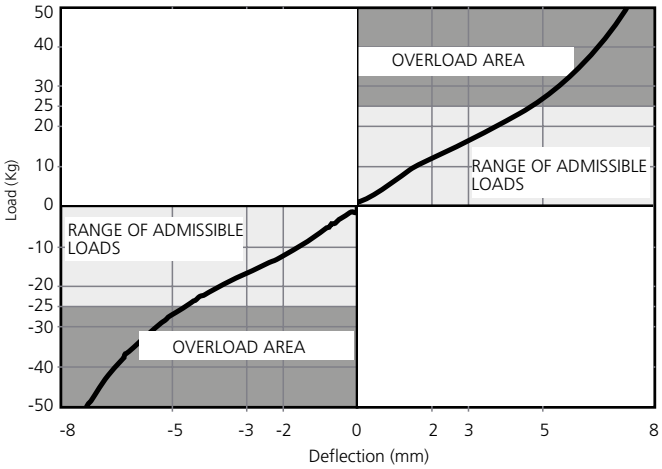
Allows inclinated ceilings with a simple and fast installation procedure.



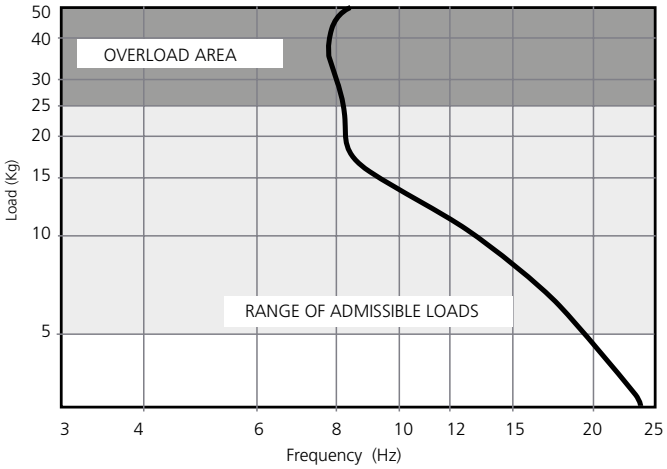


TECHNICAL CHARACTERISTICS

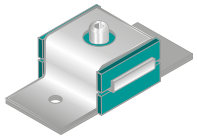
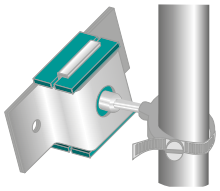
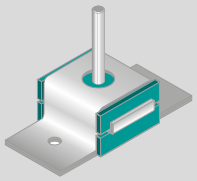
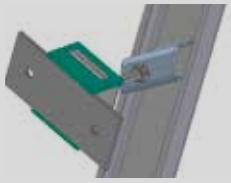
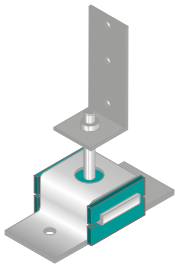
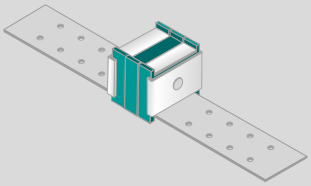
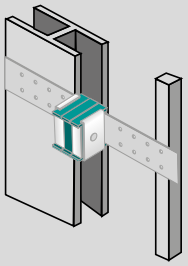
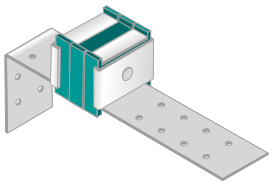
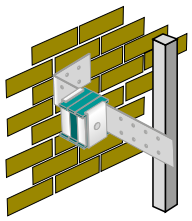
LOAD DEFLECTION GRAPH
EP Akustik + Sylomer **25**

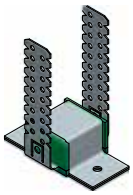
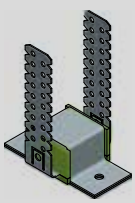


NATURAL FREQUENCY GRAPH
EP Akustik + Sylomer **25**



WALL MOUNTS
EP + Sylomer®: Range

	REF. AMC	INSTALLATION EXAMPLE	CODE
	EP + Sylomer Type B		23701
	EP + Sylomer Type A		23703
	EP400 + Sylomer		23705
	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

AKUSTIK+ sylomer® by getzner

WALL MOUNTS

EP + Sylomer®: Applications

Euskalduna Auditorium Bilbao

Music School Helsinki

TSR + SYLOMER®
Models and dimensions

PRODUCT DESCRIPTION

The AMC-MECANOCAUCHO type TSR mounts incorporate a resilient polyurethane compound for antivibration purposes called Sylomer®.

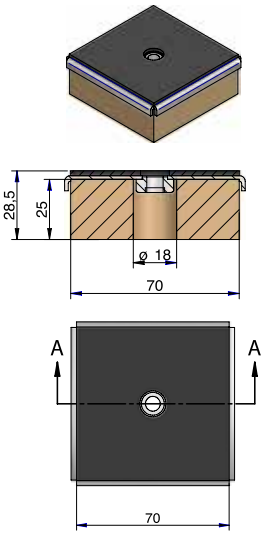
The TSR mounts can be fixed mechanically thanks to the central M8 threaded hole that is welded to a metal part that incorporates an anticorrosive coating (RoHs approved).

The above Chloroprene based rubber that is bonded to the metal acts as an anti skid surface, for those application where a mechanical fixation is not possible to be made. This layer provides an additional anticorrosive protection.

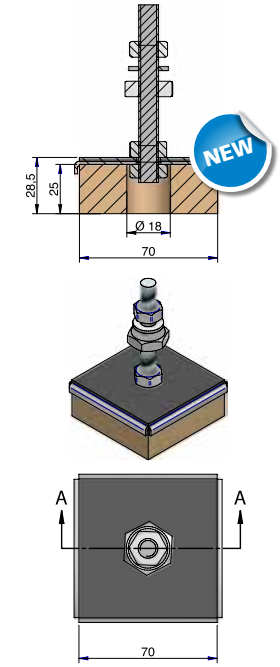
In order to match the application, 6 different densities are supplied.

Type	Min. Load (Kg)	Max. Load (Kg)	Freq (Hz) Load Min	Freq (Hz) Max Load	CODE
TSR - 55 M8	10	25	24,1	11,4	157001
TSR - 110 M8	25	45	17,7	11,5	157002
TSR - 220 M8	45	75	16,3	11,3	157003
TSR - 450 M8	75	150	15,8	10,6	157004
TSR - 850 M8	150	250	14,6	11,3	157005
TSR - 1200 M8	250	310	11,3	10,1	157006
TSR - 55 M10	10	25	24,1	11,4	157008
TSR - 110 M10	25	45	17,7	11,5	157009
TSR - 220 M10	45	75	16,3	11,3	157010
TSR - 450 M10	75	150	15,8	10,6	157011
TSR - 850 M10	150	250	14,6	11,3	157012
TSR - 1200 M10	250	310	11,3	10,1	157013
TSR - 55 M12	10	25	24,1	11,4	157014
TSR - 110 M12	25	45	17,7	11,5	157015
TSR - 220 M12	45	75	16,3	11,3	157016
TSR - 450 M12	75	150	15,8	10,6	157017
TSR - 850 M12	150	250	14,6	11,3	157018
TSR - 1200 M12	250	310	11,3	10,1	157019
TSR-55 M8 + Lev Kit. M8x55	10	25	24,1	11,4	157101
TSR-110 M8+ Lev Kit. M8x55	25	45	17,7	11,5	157102
TSR-220 M8+ Lev Kit. M8x55	45	75	16,3	11,3	157103
TSR-450 M8+ Lev Kit. M8x55	75	150	15,8	10,6	157104
TSR-850 M8+ Lev Kit. M8x55	150	250	14,6	11,3	157105
TSR-1200 M8+ Lev Kit. M8x55	250	310	11,3	10,1	157106
TSR-55 M10+ Lev Kit. M10x90	10	25	24,1	11,4	157107
TSR-110 M10+ Lev Kit. M10x90	25	45	17,7	11,5	157108
TSR-220 M10+ Lev Kit. M10x90	45	75	16,3	11,3	157109
TSR-450 M10+ Lev Kit. M10x90	75	150	15,8	10,6	157110
TSR-850 M10+ Lev Kit. M10x90	150	250	14,6	11,3	157111
TSR-1200 M10+ Lev Kit. M10x90	250	310	11,3	10,1	157112
TSR-55 M12+ Lev Kit. M12x100	10	25	24,1	11,4	157113
TSR-110 M12+ Lev Kit. M12x100	25	45	17,7	11,5	157114
TSR-220 M12+ Lev Kit. M12x100	45	75	16,3	11,3	157115
TSR-450 M12+ Lev Kit. M12x100	75	150	15,8	10,6	157116
TSR-850 M12+ Lev Kit. M12x100	150	250	14,6	11,3	157117
TSR-1200 M12+ Lev Kit. M12x100	250	310	11,3	10,1	157118

TSR without a levelling kit.



TSR with a levelling kit.



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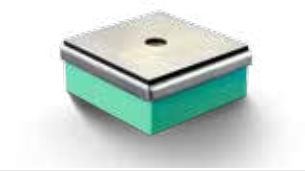
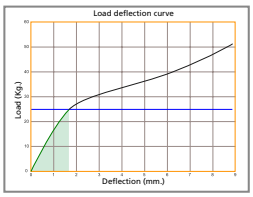
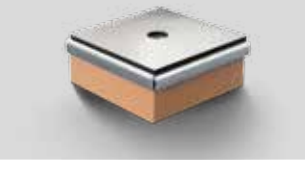
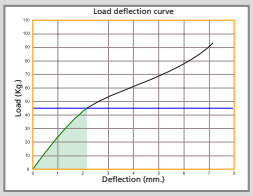
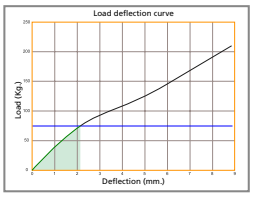
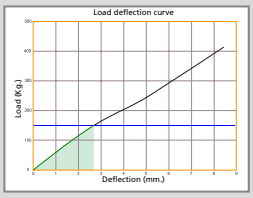
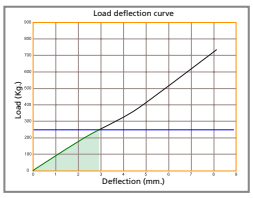
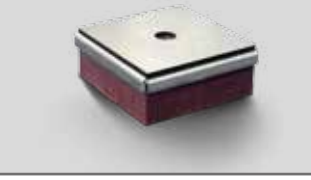
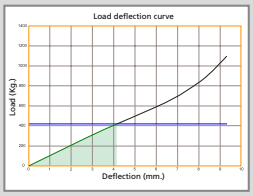
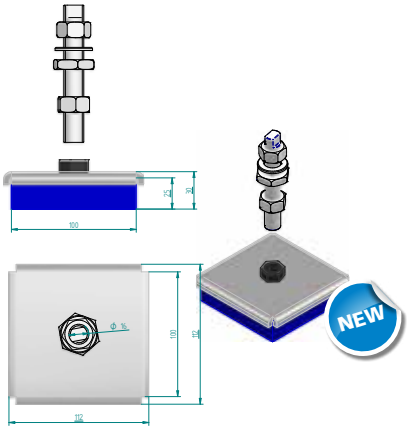
TSR + SYLOMER® Gama

	REF. AMC	(Kg). MAX. LOAD	Deflection curve	CODE
	TSR 55 + Sylomer® **Max. Kg.** 25 Kg **Deflection** 2 mm **Nat.Freq.** 11,4 Hz **K Dyn** 0,13 kN/mm **E Modulus** 0,70 N/mm^2	25		157001
	TSR 110 + Sylomer® **Max. Kg.** 45 Kg **Deflection** 2,1 mm **Nat.Freq.** 11,5 Hz **K Dyn** 0,23 kN/mm **E Modulus** 1,25 N/mm^2	45		157002
	TSR 220 + Sylomer® **Max. Kg.** 75 Kg **Deflection** 2,1 mm **Nat.Freq.** 11,3 Hz **K Dyn** 0,38 kN/mm **E Modulus** 2,05 N/mm^2	75		157003
	TSR 450 + Sylomer® **Max. Kg.** 150 Kg **Deflection** 2,6 mm **Nat.Freq.** 10,6 Hz **K Dyn** 0,67 kN/mm **E Modulus** 3,61 N/mm^2	150		157004
	TSR 850 + Sylomer® **Max. Kg.** 250 Kg **Deflection** 2,8 mm **Nat.Freq.** 11,3 Hz **K Dyn** 1,27 kN/mm **E Modulus** 6,85 N/mm^2	250		157005
	TSR 1200 + Sylomer® **Max. Kg.** 310 Kg **Deflection** 2,9 mm **Nat.Freq.** 10,1 Hz **K Dyn** 1,24 kN/mm **E Modulus** 6,69 N/mm^2	310		157006

Type	Min. Load (Kg)	Max. Load (Kg)	Freq (Hz) Load Min	Freq (Hz) Max Load	CODE
TSR 100x100 SR_55 M16 + Lev Kit. M16x130	20	51	25,4	12,7	157071
TSR 100x100 SR_110 M16 + Lev Kit. M16x130	51	106	18,6	10,8	157072
TSR 100x100 SR_220 M16 + Lev Kit. M16x130	106	194	16,1	10,4	157073
TSR 100x100 SR_450 M16 + Lev Kit. M16x130	194	387	14,9	10	157074
TSR 100x100 SR_850 M16 + Lev Kit. M16x130	387	638	14,5	11,3	157075
TSR 100x100 SR_1200 M16 + Lev Kit. M16x130	638	821	12	10,5	157007



FLOATING FLOOR MOUNTS
FZH + Sylomer®

DESCRIPTION

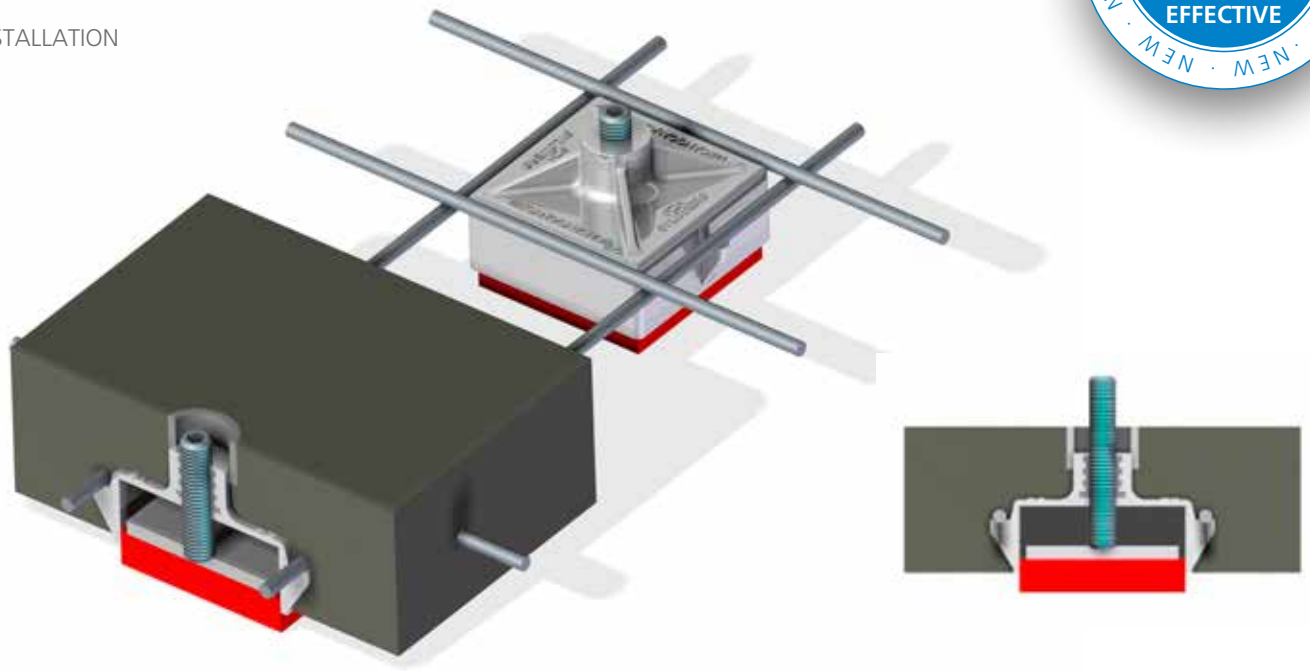
The goal of the system is to avoid the structure borne noise installing elastical mounts that are embedded in the concrete floating floor .The process of elevation is done once the concrete is dry.

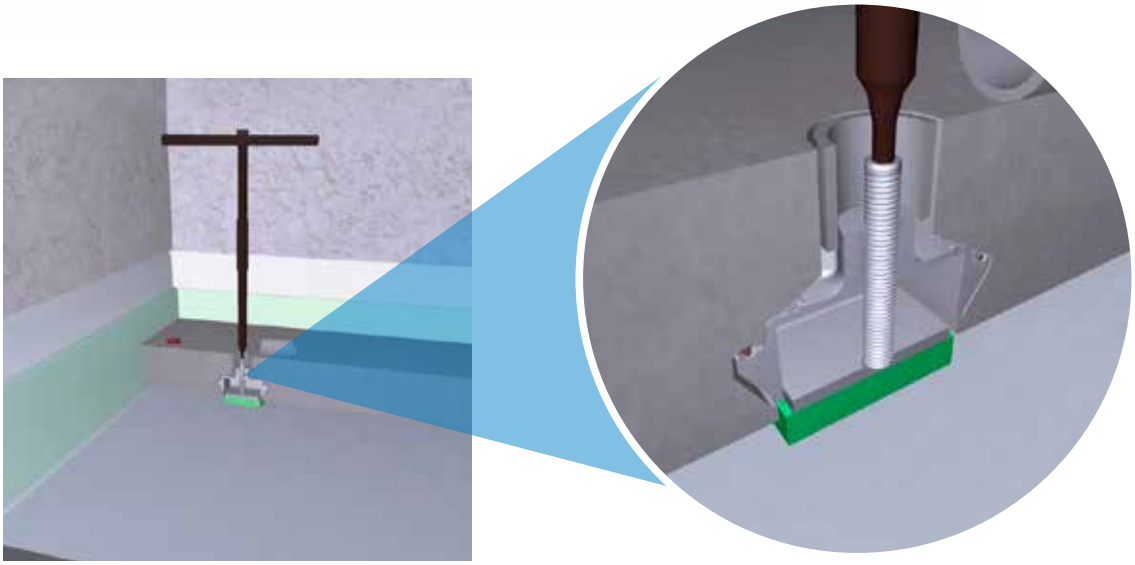
The AMC-MECANOCAUCHO type FZH mounts incorporate a polyurethane elastomer called Sylomer®. This material offers optimal elastic and mechanical properties for the application.

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 0.9m.

INSTALLATION





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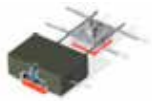
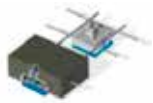
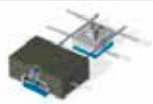
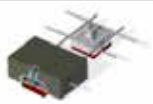
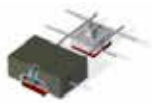
FLOATING FLOOR MOUNTS

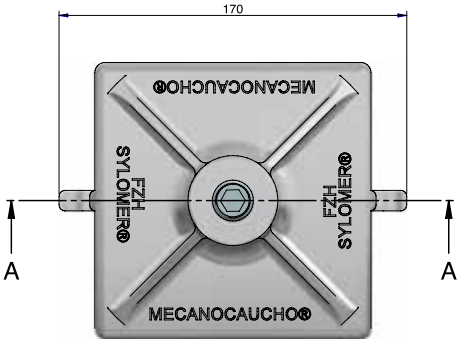
FZH + Sylomer®: Range

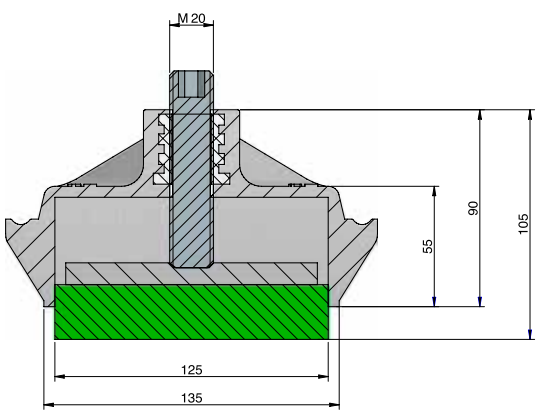
Type		SUMMARY	MAX. LOAD (Kg)	Freq (Hz) Max Load	CODE
	FZH-33-25	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	140	11	176511
	FZH-33-37	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	140	8,6	176512
	FZH-39-25	Concrete embedded 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.	1000	11,5	176519
	FZH-57-37	Concrete embedded Jack up mounts, designed for the antivibration suspension of slabs.	1000	8,2	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.

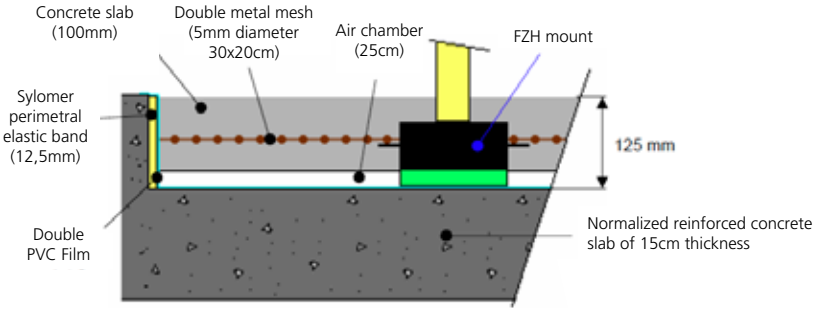



Levelling.


Height adjustement.

AKUSTIK + sylomer® by getzner

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 ΔL_W ($C_{I,A}$): 34 (-11) dB

These results rely on the realized tests under an artificial source under Laboratory conditions (engineering method)
* Ln ≤ indicated value and ΔL ≥ 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: 64.7m^3
Volume of the source room: 53.6m^3
Surface of the test specimen: 13.86m^2 (3.3x4.2m)
Estimated specific mass: 250Kg/m^2
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

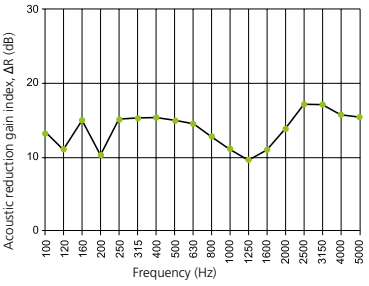
Isolation gain indexes:
ΔR_A: 13 dBA
ΔR_W: 13 dB
$\Delta(R_W+C)$: 13 dBA
$\Delta(R_W+C_{tr})$: 13 dBA

Evaluation based in laboratory measurements according to engineering method.
* Rwith and ΔR ≥ indicated value (measurements limits).

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: 64.7m^3
Volume of the source room: 53.6m^3
Surface of the test specimen: 13.86m^2 (3.3x4.2m)
Estimated specific mass: 250Kg/m^2
Chamber temperature:17.3 C°
Chamber Hygrometry: 77%



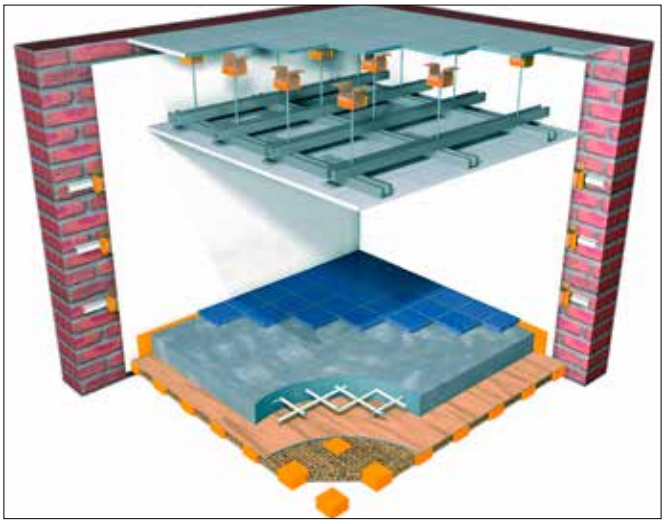
f (Hz)	R_{with} (dB)	$R_{without}$ (dB)	ΔR (dB)
100	48,4*	34,8	13,6*
125	53,7*	42,6	11,1*
160	54,6*	39,6	15,0*
200	58,1*	47,6	10,5*
250	63,0	47,7	15,3
315	67,6*	52,3	15,3*
400	70,4*	54,9	15,5*
500	71,0*	56,0	15,0*
630	72,3*	57,7	14,6*
800	72,8	59,8	13,0
1000	72,0	60,8	11,2
1250	71,9	62,2	9,7
1600	74,9	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	

APPLICATIONS

Alfortville Recording Studio.

Sheraton Casablanca Hotel.

Ep+Sylomer Type 2.



Box in Box" principle of installation.

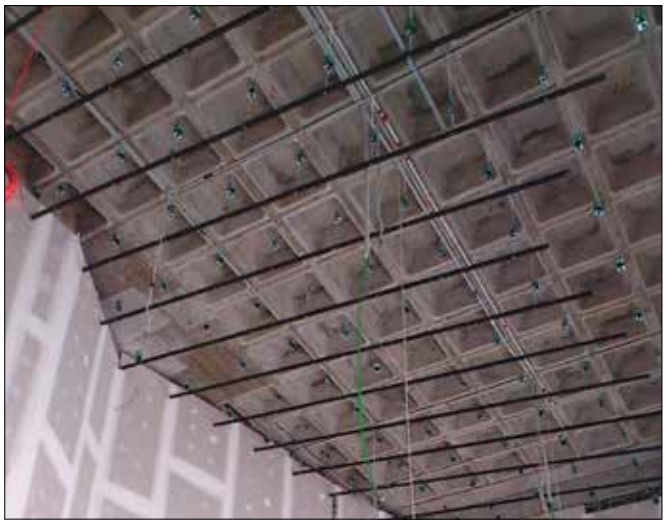
Example of installation of an Akustik Super T60 + Sylomer 30 Type B

AKUSTIK + sylomer® by getzner

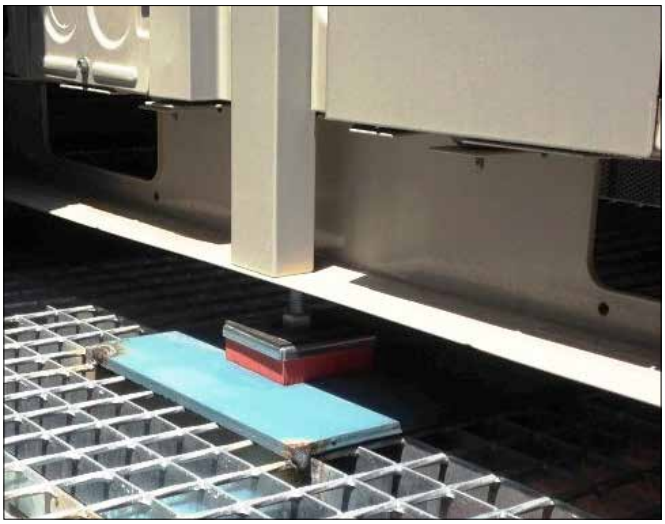
APPLICATIONS

Music School in Madrid

Bier House in Finland.



Caixa Forum Zaragoza.



Example of installtion of a TSR+Sylomer®

Installation of FZH+Sylomer floor mounts on a recording studio in Spain.

Installation of an FZH+Sylomer® floor mount.

AMC REFERENCES IN THE WORLD OF SOUND

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Project: CINEMA PATHÉ ECHIROLLES
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Project: CINEMA PATHÉ BELLE EPINE
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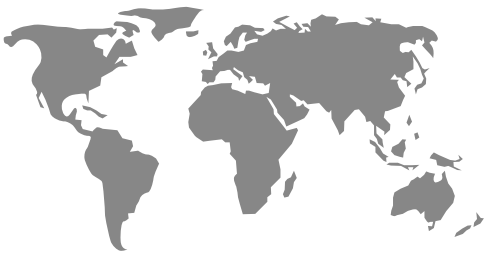
Country: Spain, France, United Kingdom, Italy, Portugal, Finland and Greece.



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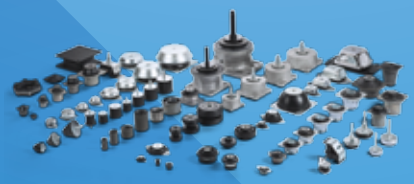

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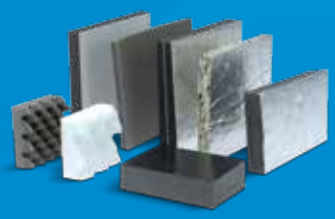

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