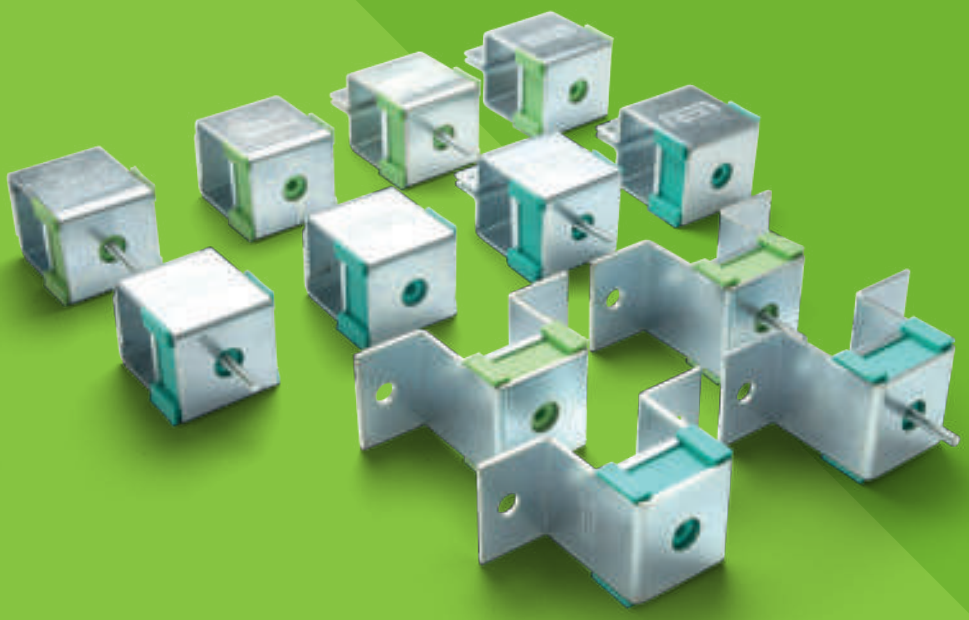
Akustik+ sylomer®

by getzner

When 2 dB at low frequencies make the difference



AKUSTIK + sylomer® by getzner

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.

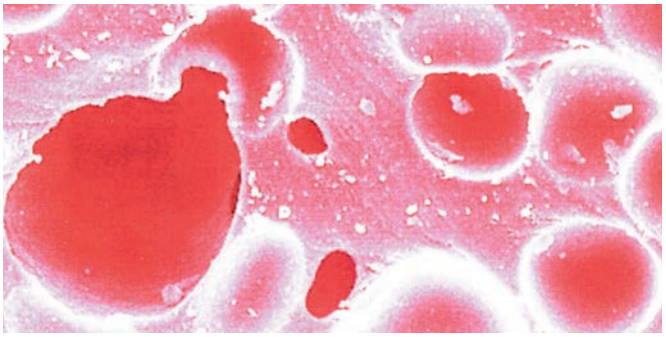
The secondary endpoint is to compare the Akustik+Sylomer® to another suspension with the same size-specific characteristics using high-resilience natural rubber from our Akustik 4 45 shore A standard series.

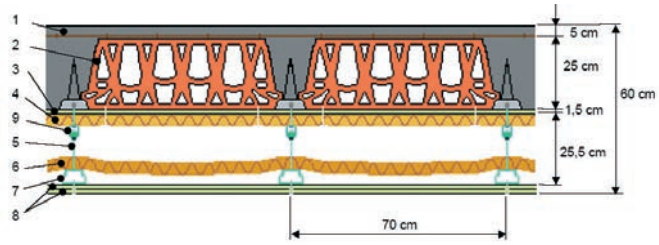
TEST METHODOLOGY

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".

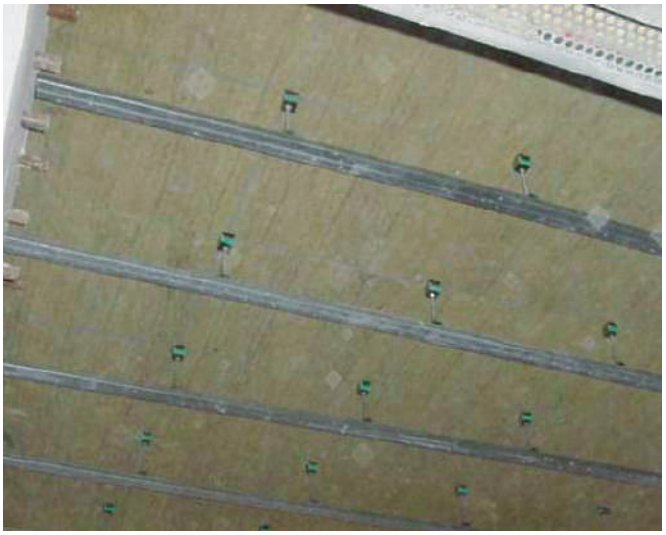




Specimen used for the test

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 pot slab with an airborne isolation of Rw ($C;C_{tr}$): 52 (0;-3) dB.



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

PASCALEX
3755 Place Java, Local 160
Brossard, Qc.
J4Y 0E4
Contrôle Bruits Vibrations
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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.

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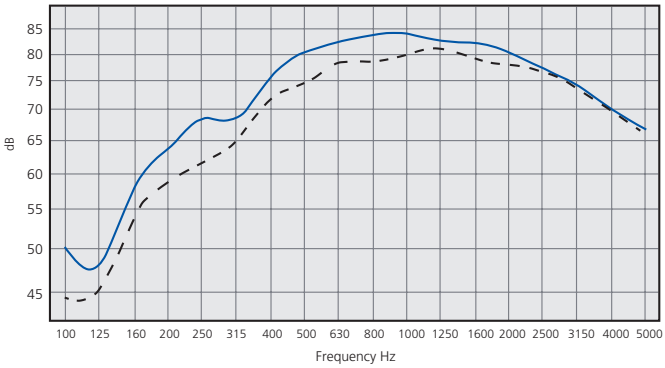
Akustik isolation curves

Graphic 1



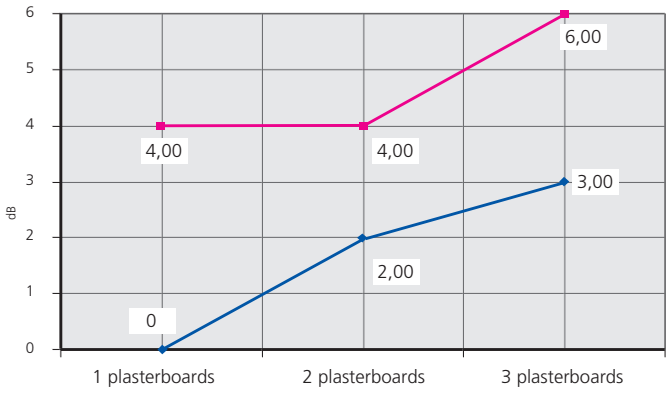
1 Board without elastic mounts
1 Board with Akustik+ Sylomer® suspensions

Frequenz Hz

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.



Ceiling without elastic suspensions

Ceiling with Akustik+Sylomer® elastic suspensions

AKUSTIK + sylomer® by getzner

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 (-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

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ift ROSENHEIM

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.

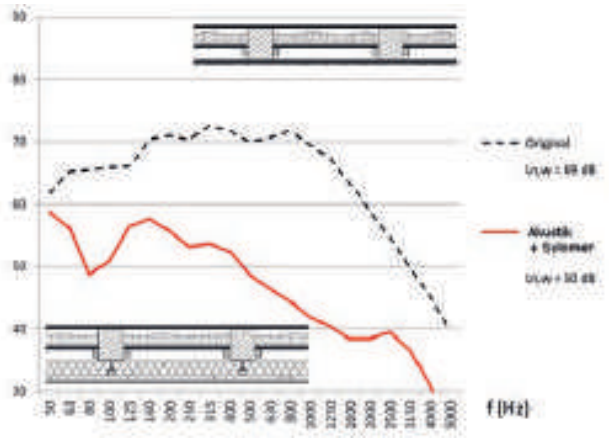
IFT ROSENHEIM

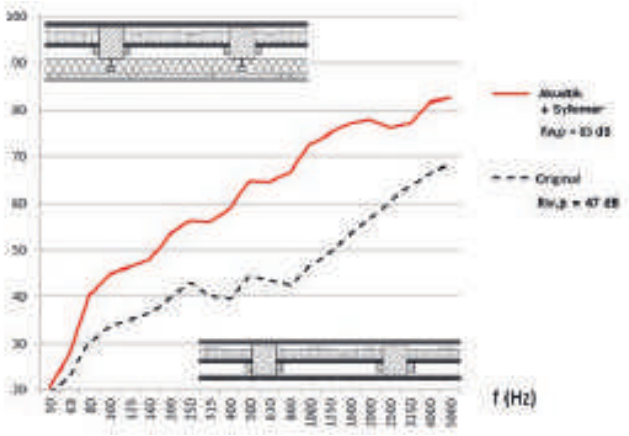
Wooden ceiling using sand as a filler: Reduction of impact noise 19dB, Gain of airborne isolation 18 dB.

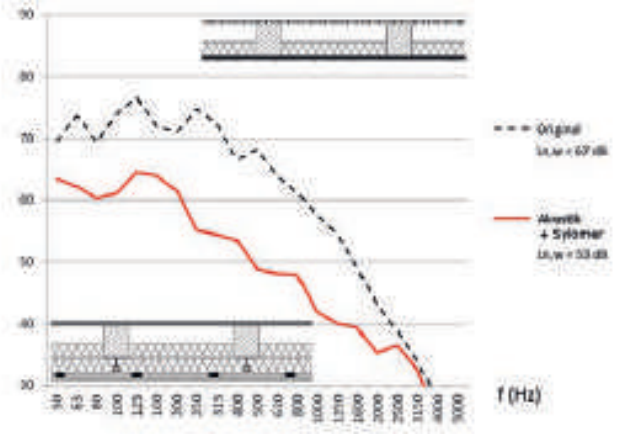
Wooden ceiling using mineral wool as a filler: Reduction of impact noise 14 dB, Gain of airborne isolation 6 dB.

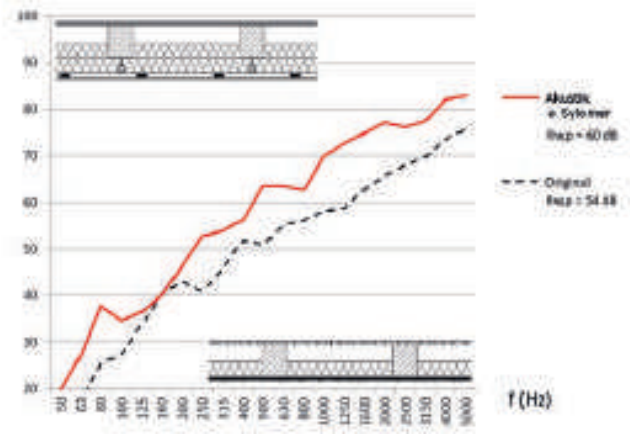
In both kinds of ceilings a comparison has been done in order to determine the acoustic advantage that provides using Akustik+Sylomer® hangers.

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.









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AKUSTIK + sylomer® by getzner

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.

Sylomer® Low Loads	Sylomer® Medium Loads	Sylomer® High Loads

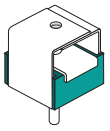


Fig.1
"Creeping" Behaviour

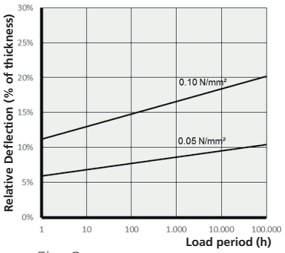
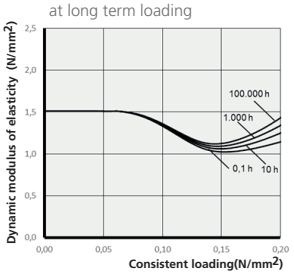


Fig. 2
Dynamic modulus of elasticity at long term loading



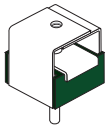


Fig.3
"Creeping" Behaviour

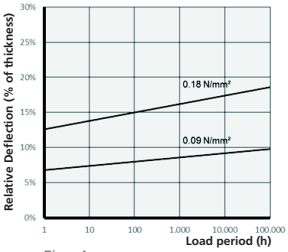
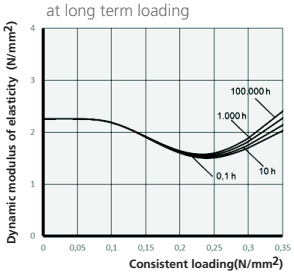


Fig. 4
Dynamic modulus of elasticity at long term loading



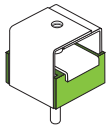


Fig.5
"Creeping" Behaviour

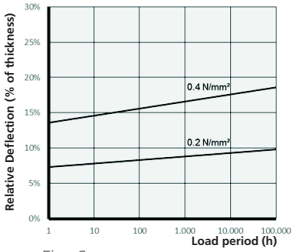
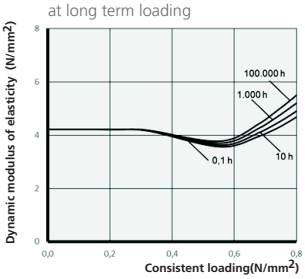


Fig. 6
Dynamic modulus of elasticity at long term loading



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ACOUSTIC HANGERS

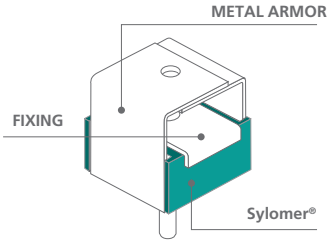
Akustik+Sylomer®: Models and dimensions

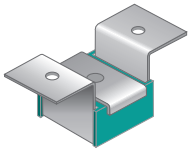
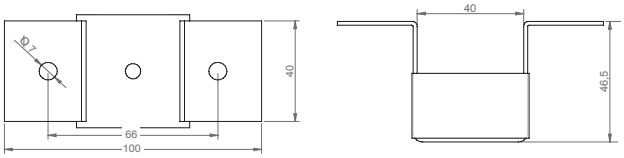
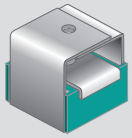
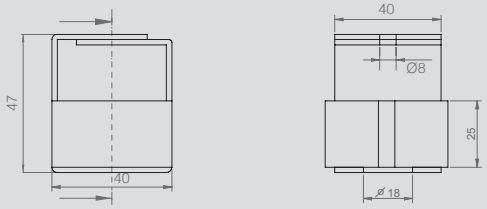
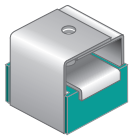
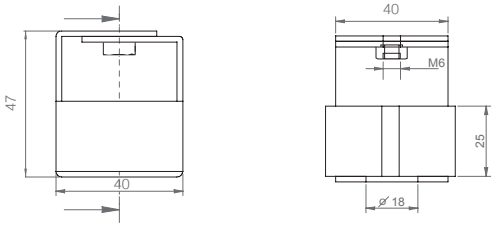
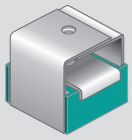
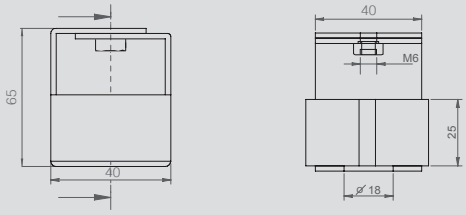
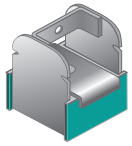
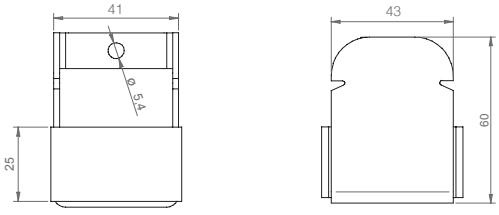
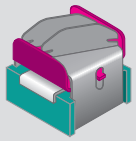
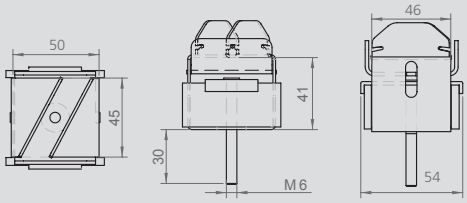
PRODUCT DESCRIPTION

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® microcellular 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 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 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.

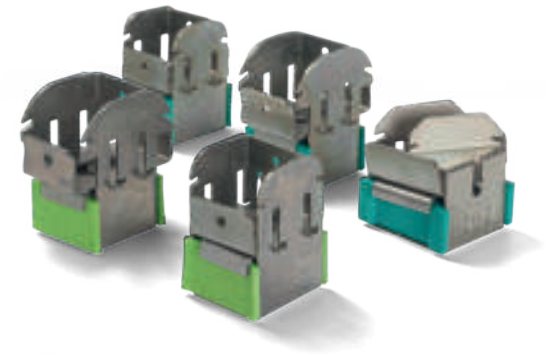


	Akustik 1	It is secured directly to the ceiling by means of two holes.	
	Akustik 3	It is secured directly to the ceiling with a screw and locking nut.	
	Akustik 4	It is secured with a screw via a nut welded to the metal armor.	
	Akustik 4 High	It is secured with a screw via a nut welded to the metal 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.	

AKUSTIK + sylomer® by getzner

CEILING MOUNTS

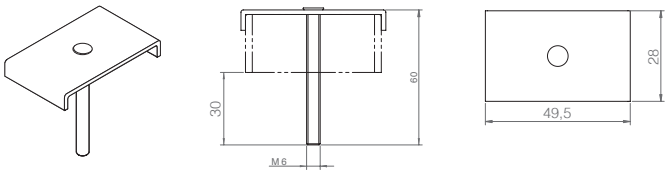
Akustik+Sylomer®: Models and dimensions



TYPE OF FIXING

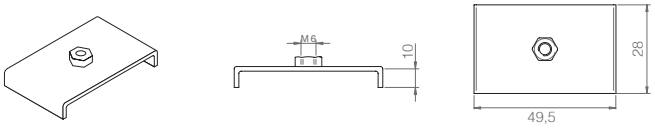
TYPE A

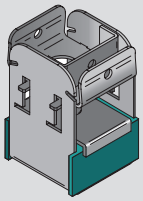
For installations where M6 male fixing is required, the recommended fixing is **Type A.**



TYPE B

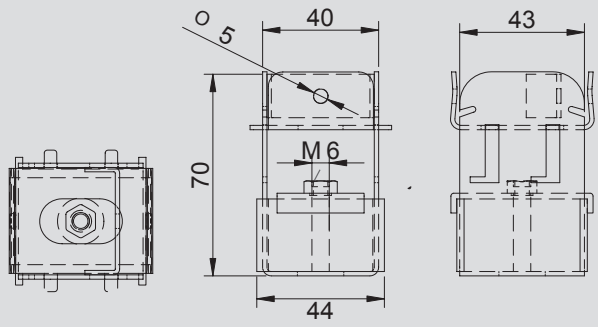
For installations where M6 female fixing is required, the recommended fixing is **Type B.**

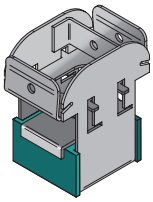




Akustik Super T47

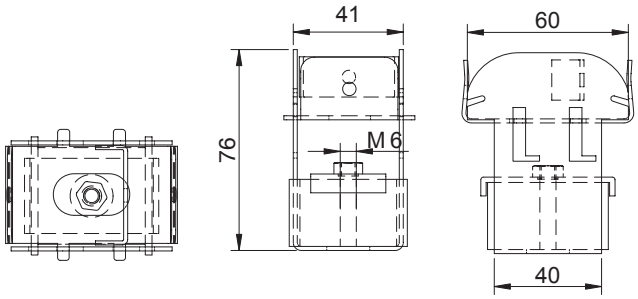
The "SUPER"security feature is adaptable to the different profiles existing on the market.



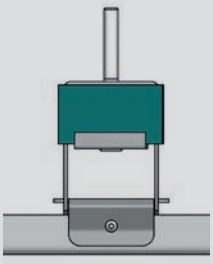


Akustik Super T60

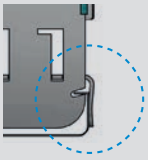
The external dimension of the profiles that exist on the market may variate, our "SUPER" security system with lip form adapts to the different lengths of the profile having a tight fit.



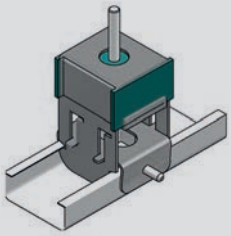
INSTALLATION STEPS OF AKUSTIK SUPER



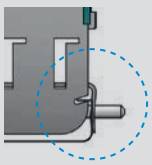
Detail A



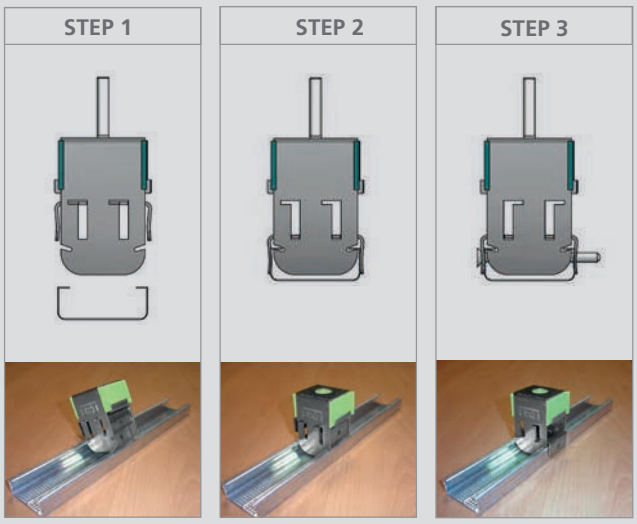
1• The security system is adaptable to different widths of profiles.



Detail B



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

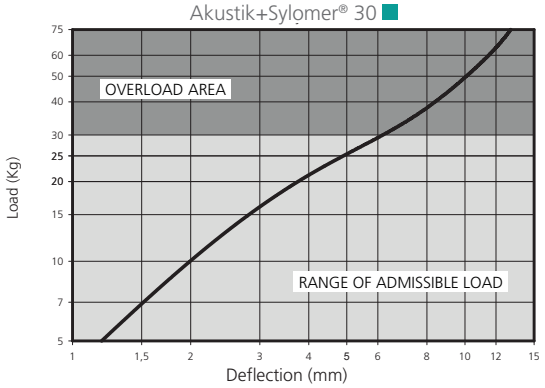


ACOUSTIC HANGERS

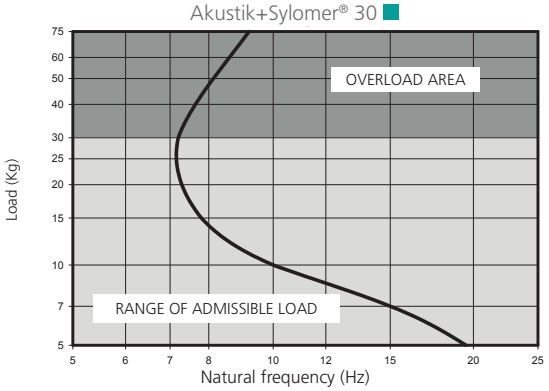
Akustik+Sylomer®: Models and dimensions

TYPES OF SYLOMER®

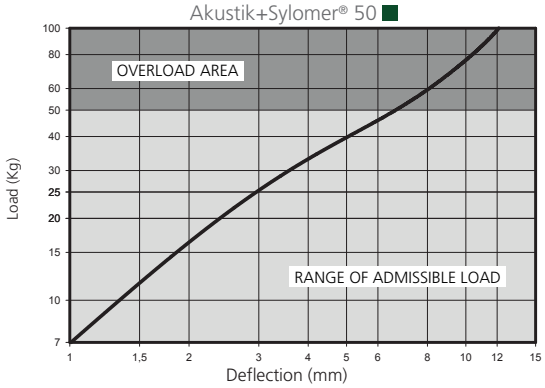
LOAD DEFLECTION GRAPH
Akustik+Sylomer® 30



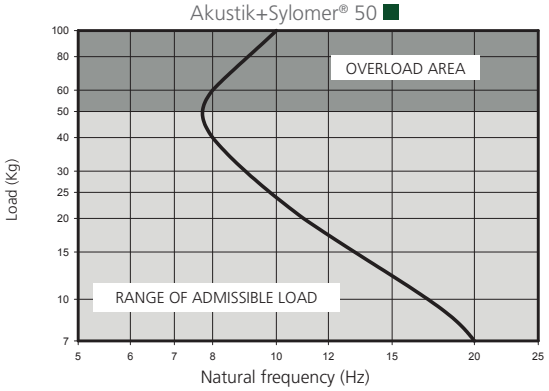
NATURAL FREQUENCY GRAPHS
Akustik+Sylomer® 30



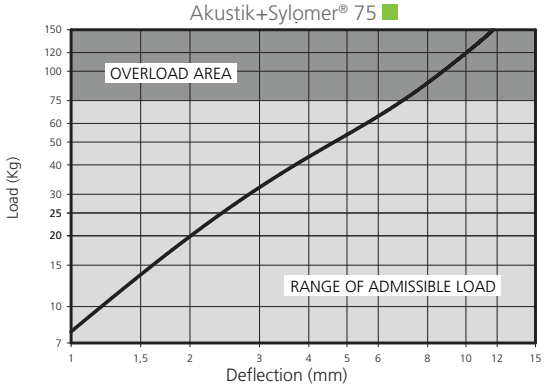
LOAD DEFLECTION GRAPH
Akustik+Sylomer® 50



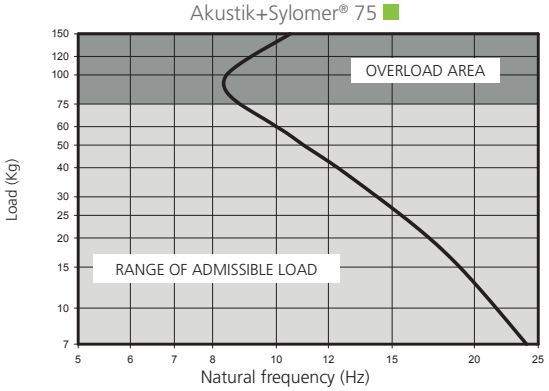
NATURAL FREQUENCY GRAPHS
Akustik+Sylomer® 50



LOAD DEFLECTION GRAPH
Akustik+Sylomer® 75



NATURAL FREQUENCY GRAPHS
Akustik+Sylomer® 75



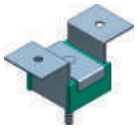
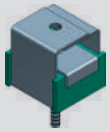
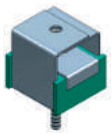
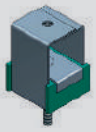
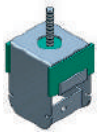
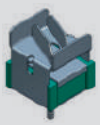
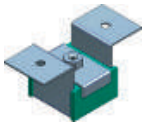
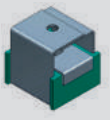
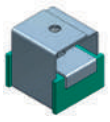
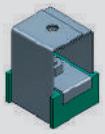
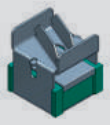
Application of an Akustik 4+Sylomer 30 type A.

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

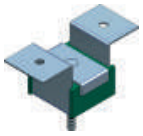
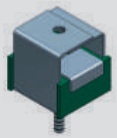
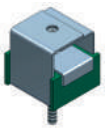
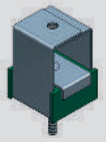
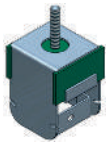
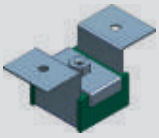
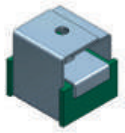
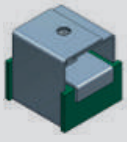
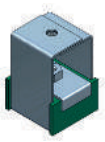
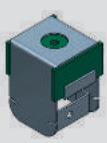
AKUSTIK + sylomer® by getzner

ACOUSTIC HANGERS

Akustik+Sylomer® Range

	REF AMC	SUMMARY	MAX. LOAD (Kg)	CODE
	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 Type 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 Type A	Metal armor of the Akustik rapid secured to the ceiling by an M6 screw and with a nut.	30	23507
	Akustik Safety+Sylomer® 30 Type 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 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
	Akustik 4+Sylomer® 30 Type B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	30	23513
	Akustik 4 High+Sylomer® 30 Type B	Metal armor of the Akustik Rapid secured to the ceiling by a welded M6 nut.	30	23538
	Akustik Rapid+Sylomer® 30 Type B	Metal armor of the Akustik Safety secured to the ceiling by an M6 screw.	30	23515
	Akustik Safety+Sylomer® 30 Type B	Metal armor of the Akustik Safety secured to the ceiling by a welded M6 nut.	30	23516

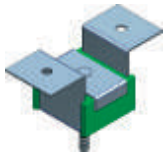
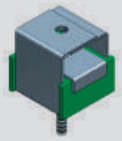
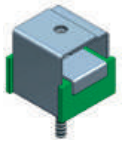
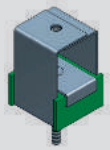
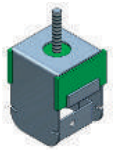
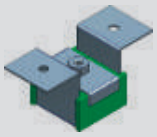
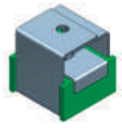
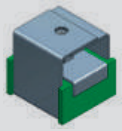
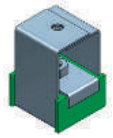
ACOUSTIC HANGERS
Akustik+Sylomer® Range

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

AKUSTIK + sylomer® by getzner

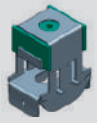
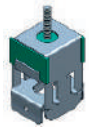
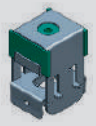
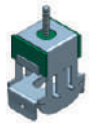
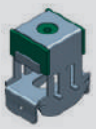
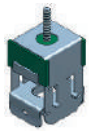
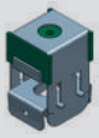
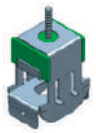
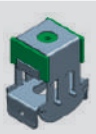
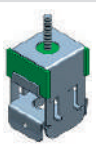
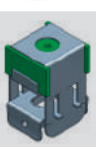
ACOUSTIC HANGERS

Akustik+Sylomer® Range

	REF. AMC	SUMMARY	MAX. LOAD (Kg)	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

ACOUSTIC HANGERS

Akustik Super+Sylomer® Range

	REF. AMC	SUMMARY	MAX. LOAD (KG)	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

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Contrôle
Bruits
Vibrations
Vibrations
Noises
Control

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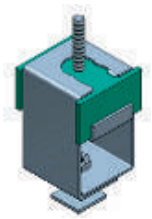
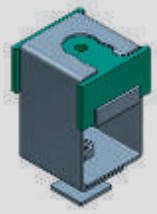
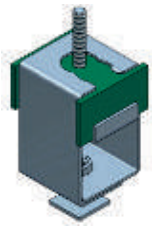
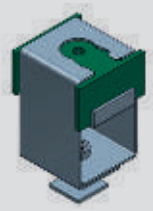
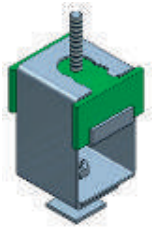
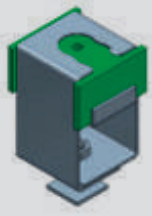
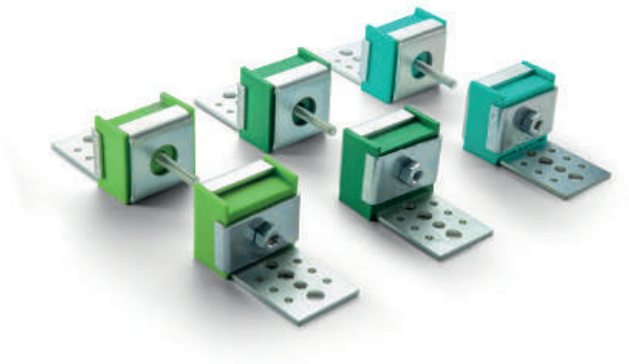
ACOUSTIC HANGERS

Akustik Saw+Sylomer® Range

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

ACOUSTIC HANGERS
Akustik GB + Sylomer®



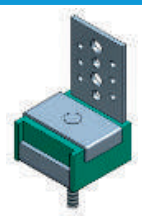
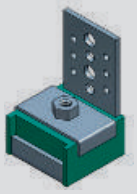
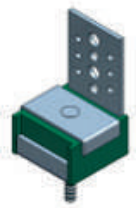
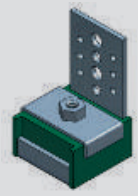
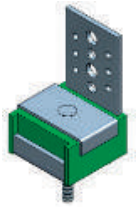
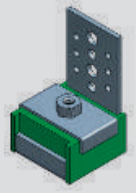
PRODUCT DESCRIPTION

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.

	REF. AMC	SUMMARY	MAX. LOAD (KG)	CODE
	Akustik GB + Sylomer® 30 Type A	It is secured directly to the ceiling with two holes and to the profile by means of a "type A" male screw.	30	23105
	Akustik GB + Sylomer® 30 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.	30	23106
	Akustik GB + Sylomer® 50 Type A	It is secured directly to the ceiling with two holes and to the profile by means of a "type A" male screw.	50	23592
	Akustik GB + Sylomer® 50 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.	50	23593
	Akustik GB + Sylomer® 75 Type A	It is secured directly to the ceiling with two holes and to the profile by means of a "type A" male screw.	75	23107
	Akustik GB + Sylomer® 75 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.	75	23108

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Contrôle Bruits Vibrations
Vibrations Noises Control

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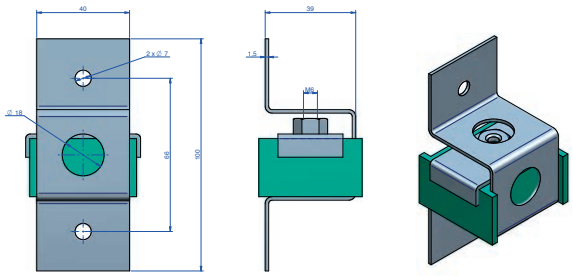
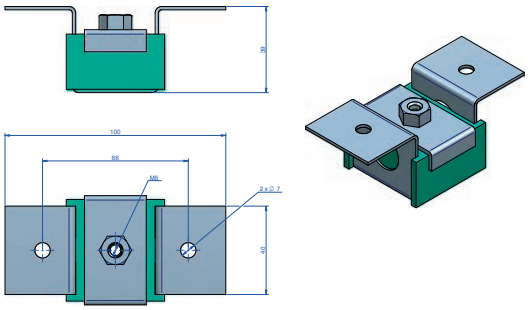
ACOUSTIC HANGERS

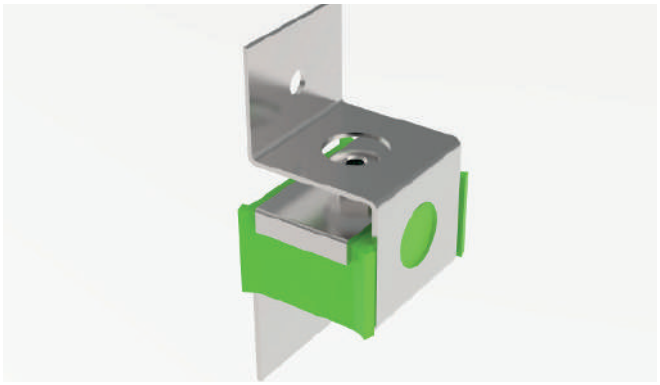
Akustik Lateral+Sylomer®

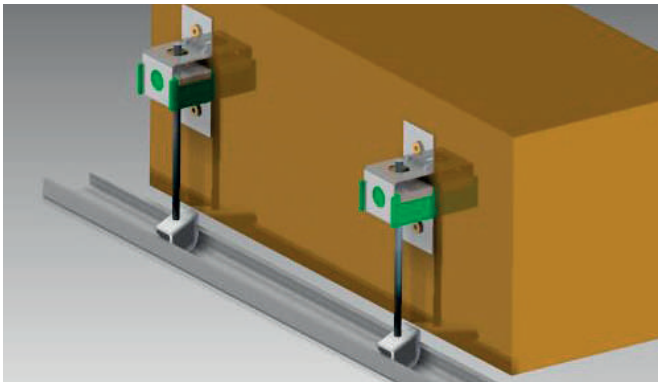
Position 1 NEW

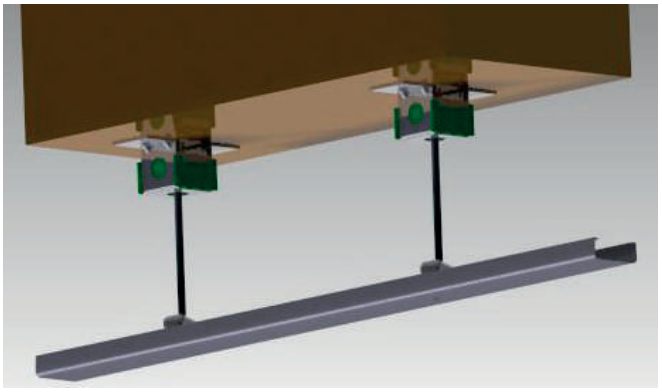


Position 2 NEW









REF. AMC	MAX. LOAD (Kg)	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

ACOUSTIC HANGERS

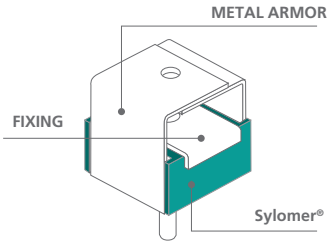
Grand Akustik+Sylomer®: Models and dimensions

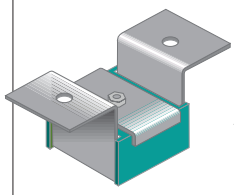
PRODUCT DESCRIPTION

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

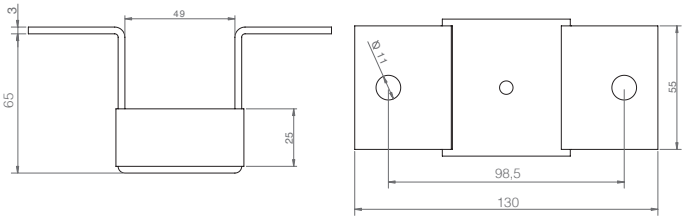
A great variety of fixing metal armors and elements facilitate the installation and to adapt better to each type of job. Their rugged metal parts can withstand tensile stresses from 650Kg to 1000Kg. They are supplied with an anticorrosive treatment that can withstand the toughest environments.

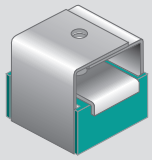




Grand Akustik 1

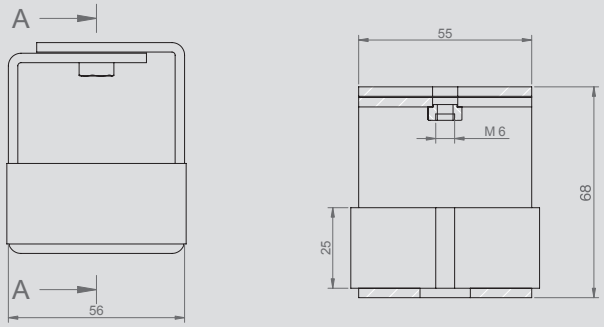
It is secured to the ceiling with two holes.

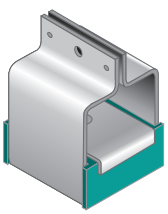




Grand Akustik 2

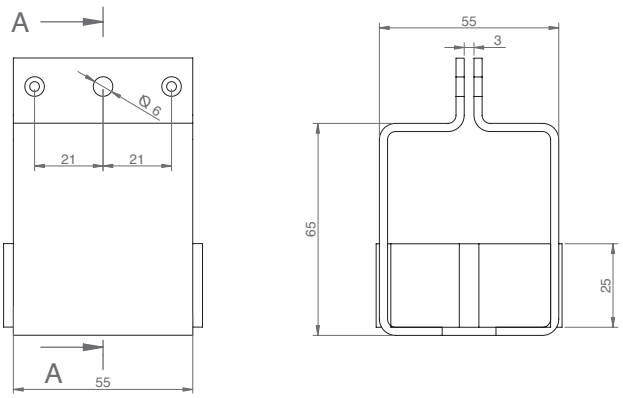
It is secured directly to the ceiling by means of a screw.





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.



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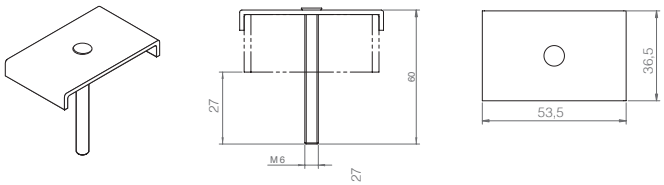
ACOUSTIC HANGERS

Grand Akustik+Sylomer®: Models and dimensions

TYPE OF FIXING

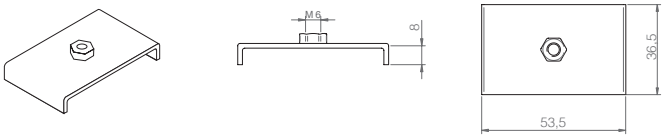
Type A

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



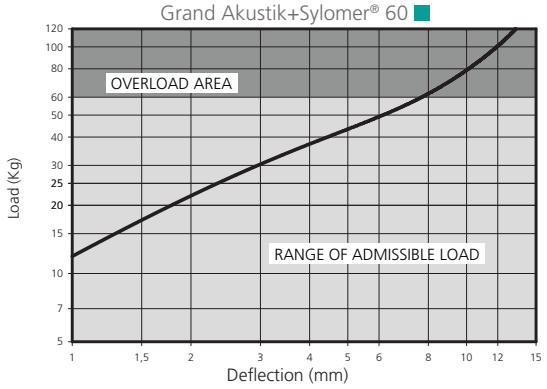
Type B

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

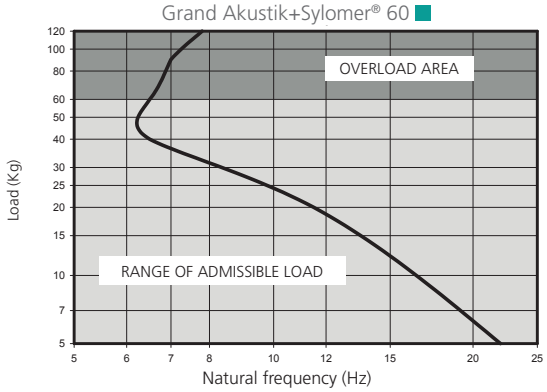


TYPES OF SYLOMER

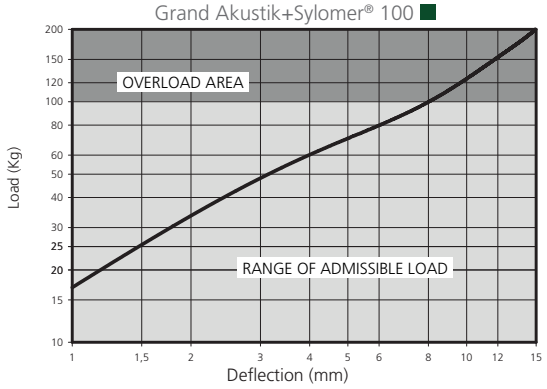
LOAD DEFLECTION GRAPH
Grand Akustik+Sylomer® 60



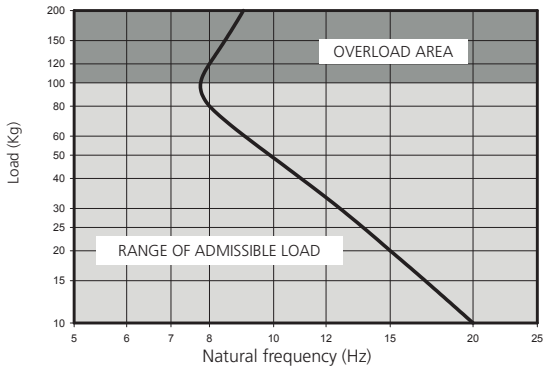
NATURAL FREQUENCY GRAPHS
Grand Akustik+Sylomer® 60



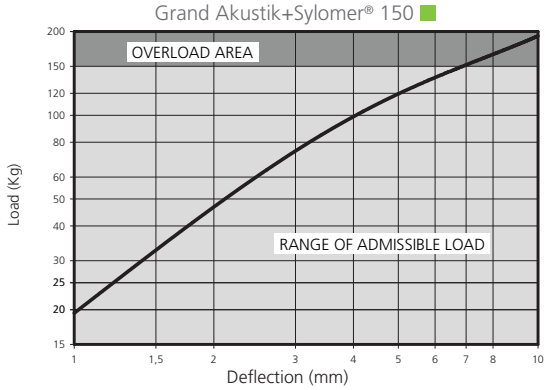
LOAD DEFLECTION GRAPH
Grand Akustik+Sylomer® 100



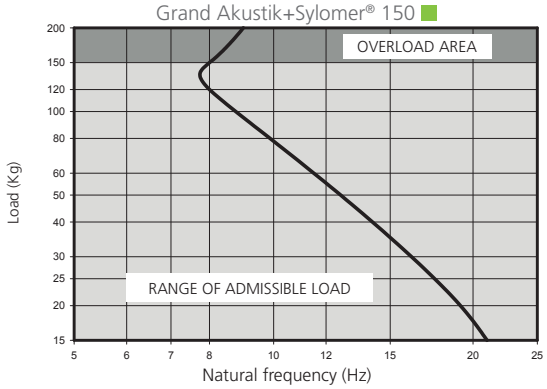
NATURAL FREQUENCY GRAPHS
Grand Akustik+Sylomer® 100



LOAD DEFLECTION GRAPH
Grand Akustik+Sylomer® 150

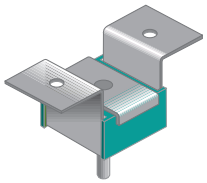
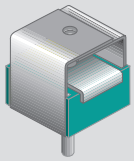
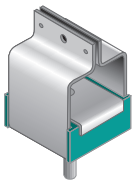
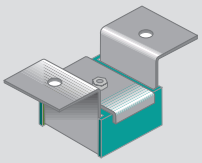
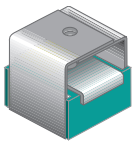
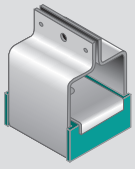


NATURAL FREQUENCY GRAPHS
Grand Akustik+Sylomer® 150



ACOUSTIC HANGERS

Grand Akustik+Sylomer® Range

	REF. AMC	SUMMARY	MAX. LOAD (KG)	CODE
	Grand 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
	Grand 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
	Grand Akustik 3+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
	Grand 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
	Grand 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
	Grand 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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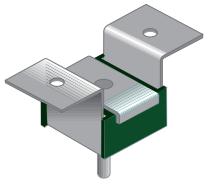
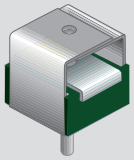
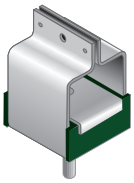
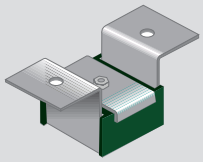
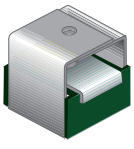
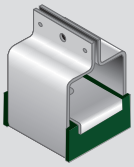
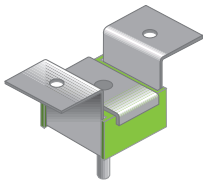
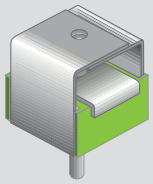
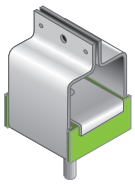
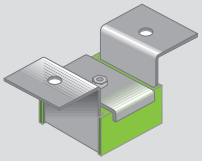
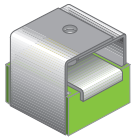
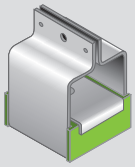
ACOUSTIC HANGERS

Grand Akustik+Sylomer® Range

	REF. AMC	SUMMARY	MAX. LOAD (KG)	CODE
	Grand Akustik 1+Sylomer® 100 Type A	It is secured directly to the ceiling with two holes and to the profile by means of a "type A" male screw.	100	23594
	Grand Akustik 2+Sylomer® 100 Type A	It is secured directly to the ceiling with one screw and to the profile by means of a "type A" screw.	100	23596
	Grand Akustik 3+Sylomer® 100 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.	100	23598
	Grand Akustik 1+Sylomer® 100 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.	100	23595
	Grand Akustik 2+Sylomer® 100 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.	100	23597
	Grand Akustik 3+Sylomer® 100 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.	100	23599

ACOUSTIC HANGERS

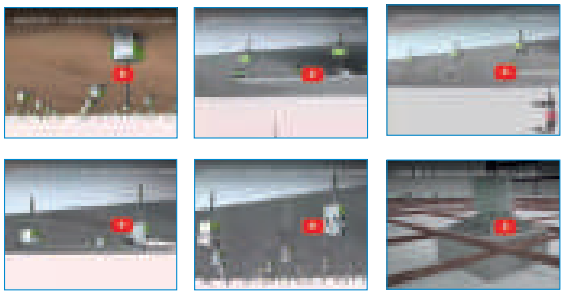
Grand Akustik+Sylomer® Range

	REF. AMC	SUMMARY	MAX. LOAD (KG)	CODE
	Grand 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
	Grand Akustik 2+Sylomer® 150 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
	Grand Akustik 3+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
	Grand 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
	Grand 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
	Grand 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

AKUSTIK + sylomer® by getzner

INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS
AVALAIBLE ON THE QR CODE:



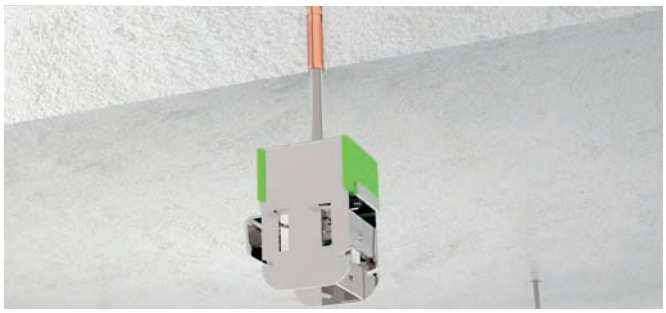
Installation steps for Akustik Super

(Free technical support available upon request.)

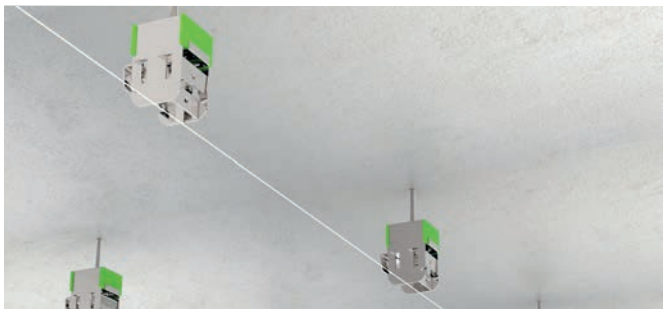
1.- Fix threaded wall plugs to the ceiling.

2.- Screw studbolts into the treaded wall plugs.

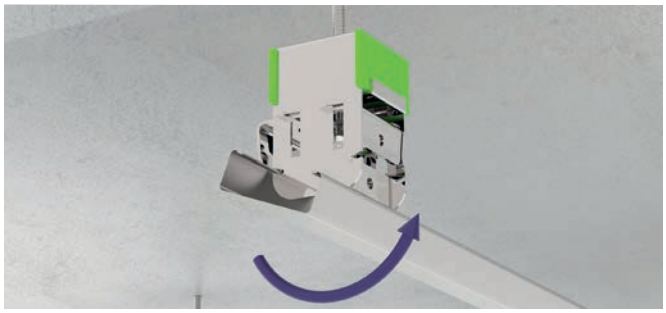
3.- Attach the acoustic hangers to the end of the studbolt.



4.- Level the hangers using a laser alignement tool.



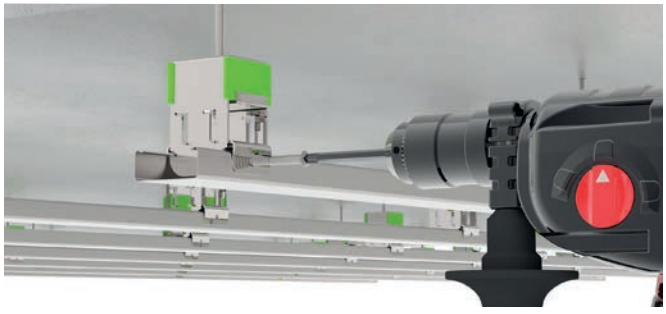
5.- Fix the profiles to the acoustic hangers.



6.- Profiles fixed in position.

7.- Lower the safety flanges into position.

8.- Install supplementary fixings (optional) to provide additional safety feature.



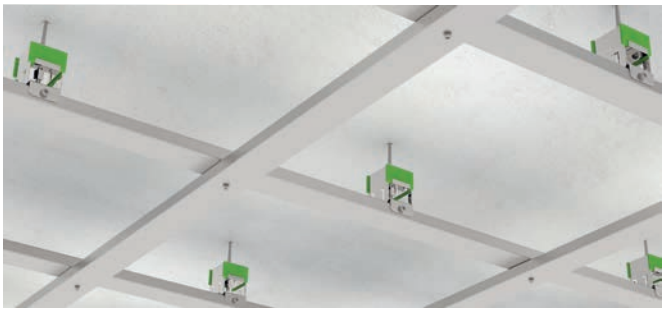
ACOUSTIC HANGERS

Installation steps (Free technical support available upon request.)

9.- Acoustic hangers an profiles fixed.

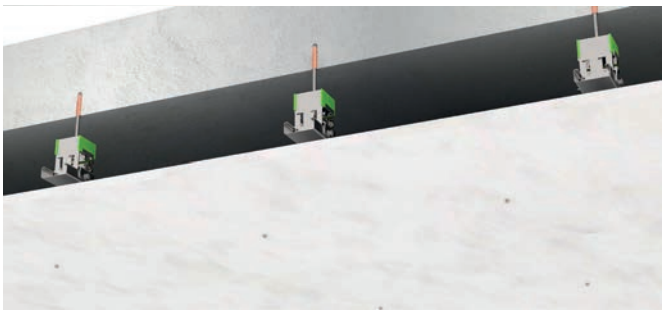
10.- Place transverse profiles in position.

11.- Fix transverse profiles.

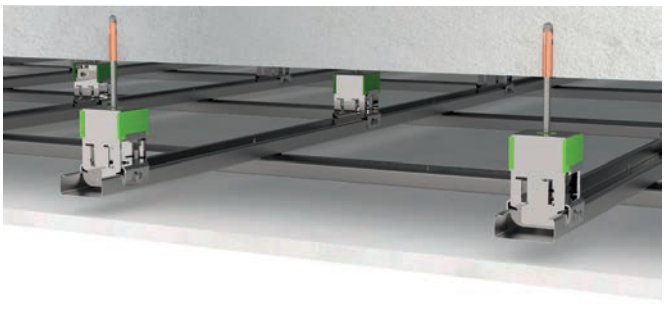


12.- Position plasterboards in place.

13.- Plasterboards fixed.



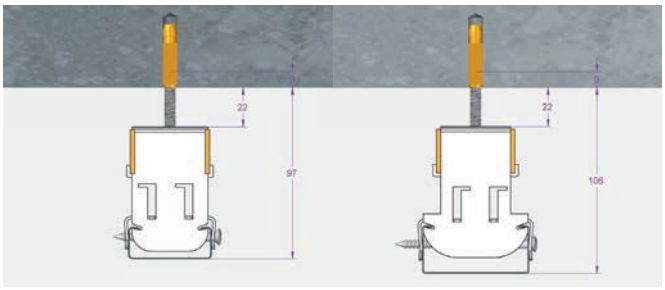
14.- Plasterboards fixed.



MIN/MAX Distances (Type A)

AKUSTIK SUPER T-47 TYPE A
MIN. BOLT LENGTH INSIDE WALL PLUG:
9 mm
MIN. DIST. CONCRETE SLAB TO PROFILE:
77 mm
MAX. DIST. CONCRETE SLAB TO PROFILE:
97 mm

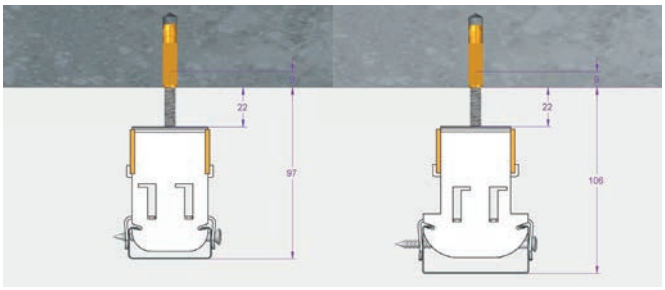
AKUSTIK SUPER T-60 TYPE A
MIN. BOLT LENGTH INSIDE WALL PLUG:
9 mm
MIN. DIST. CONCRETE SLAB TO PROFILE:
77 mm
MAX. DIST. CONCRETE SLAB TO PROFILE:
97 mm



MIN/MAX Distances (Type B)

AKUSTIK SUPER T-47 TYPE B
MIN. BOLT LENGTH INSIDE WALL PLUG:
9 mm
MIN. DIST. CONCRETE SLAB TO PROFILE:
77 mm

AKUSTIK SUPER T-60 TYPE B
MIN. BOLT LENGTH INSIDE WALL PLUG:
9 mm
MIN. DIST. CONCRETE SLAB TO PROFILE:
77 mm



AKUSTIK + sylomer® by getzner

ACOUSTIC HANGERS

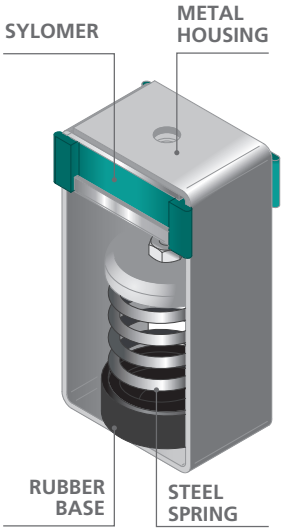
SRS + Sylomer®: Models and dimensions

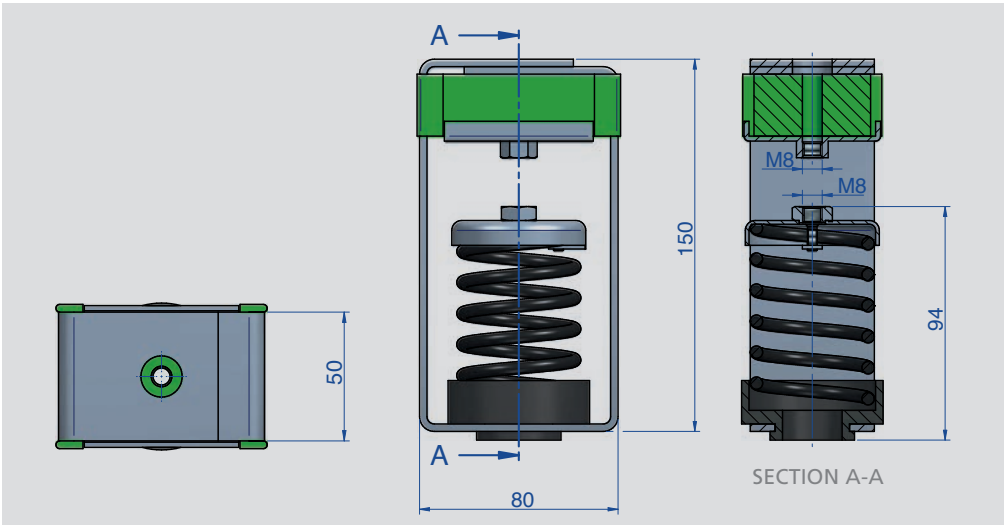
PRODUCT DESCRIPTION

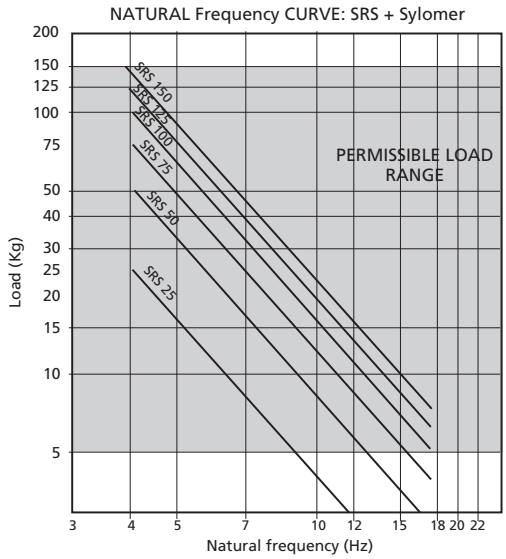
These antivibration mounts have been conceived for the suspension of suspended ceilings or machines that rotate at low frequency. The excellent properties of the Sylomer® microcellular polyurethane combined with the low stiffness of an steel spring achieve increased isolation values as opposed to other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

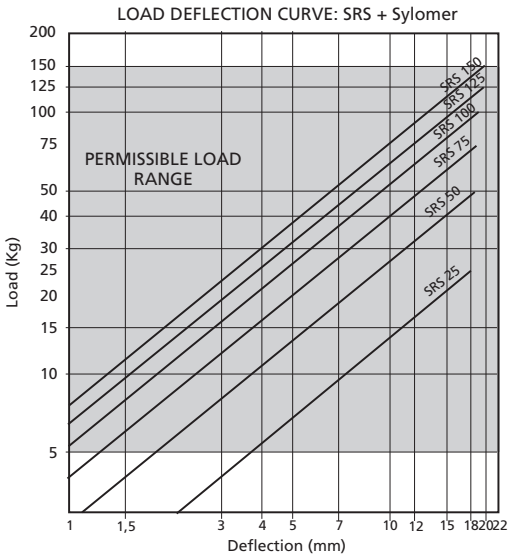
These antivibration mounts are manufactured in 6 different steel spring models to adapt optimal for each application.

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.





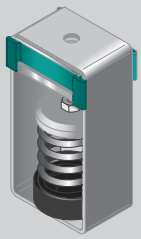
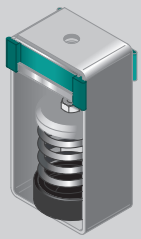
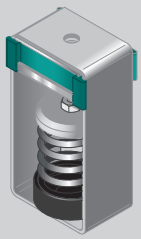




AMC MECANOCAUCHO

ACOUSTIC HANGERS

SRS + Sylomer®: Range

	REF. AMC	SPRING COLOR	MAX. LOAD (KG)	CODE
	SRS 25 + Sylomer®	BLACK	25	23546
	SRS 50 + Sylomer®	BLUE	50	23547
	SRS 75 + Sylomer®	GREY.	75	23551
	SRS 100 + Sylomer®	BEIGE	100	23548
	SRS 125 + Sylomer®	WHITE	125	23549
	SRS 150 + Sylomer®	BLACK	150	23550

AKUSTIK + sylomer® by getzner

ACOUSTIC HANGERS

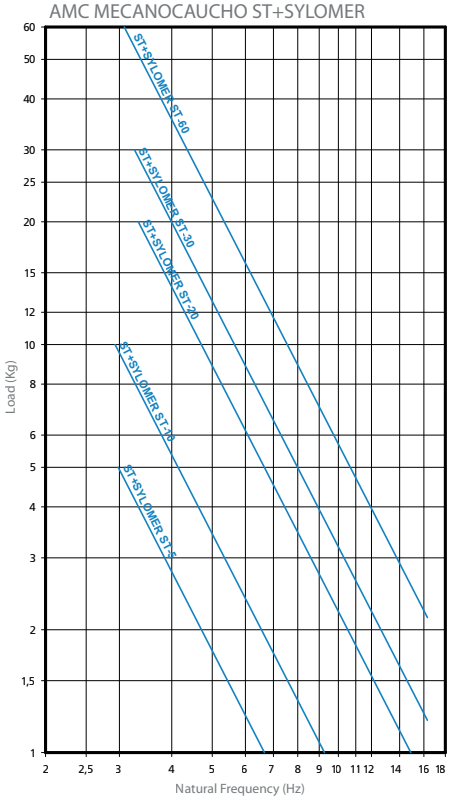
ST + Sylomer®: Models and dimensions

PRODUCT DESCRIPTION

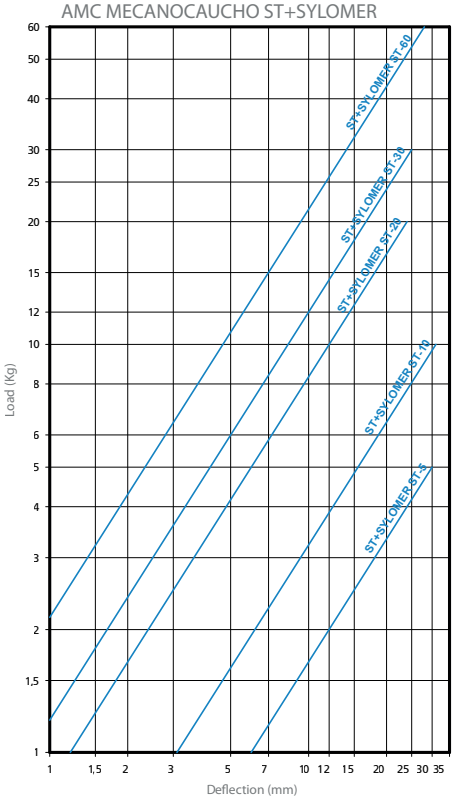
The AMC-MECANOCAUCHO® type ST+Sylomer® is ideal for high performance building acoustics as well as for stationary applications where the acoustic hanger must provide a high degree of structure borne noise isolation. Thanks to their low stiffness they are capable of achieving natural frequencies ranging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

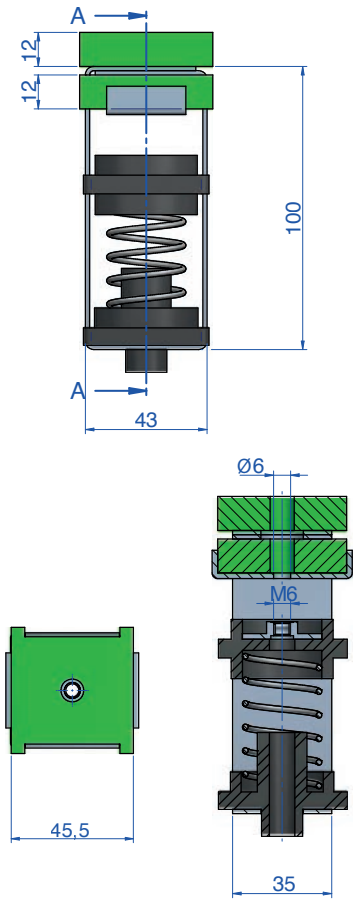
Type	MAX PERMANENT LOAD	Weight (kg)	Code
ST + Sylomer ST-5	5	0,198	**23425**
ST + Sylomer ST-10	10	0,198	**23398**
ST + Sylomer ST-20	20	0,198	**23420**
ST + Sylomer ST-30	30	0,198	**23400**
ST + Sylomer ST-60	60	0,198	**23397**

NATURAL FREQUENCY
AMC MECANOCAUCHO ST+SYLOMER



LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO ST+SYLOMER





ACOUSTIC WALL TIES

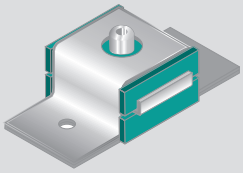
EP+Sylomer®: Models and dimensions

PRODUCT DESCRIPTION

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

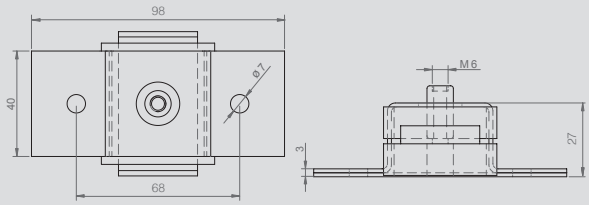
They have a "FAIL SAFE" rugged metal structure, which is overload-proof. Recommended for applications where fire or impact resistance is necessary.

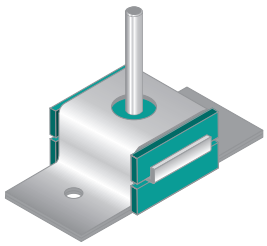
These mounts are also suitable for the isolation of vertical pipes, or any type of lightweight ducts that need to be isolated.



EP+Sylomer® Type B

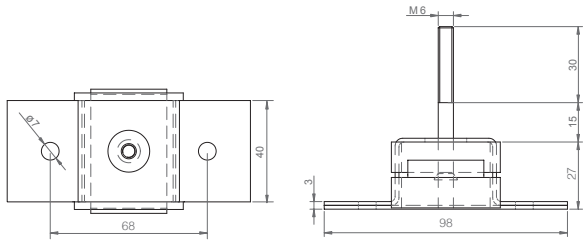
It is secured to the wall by means of two holes. It has a female M6 metal insert.

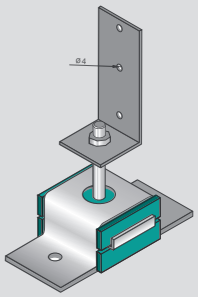




EP + Sylomer Type A

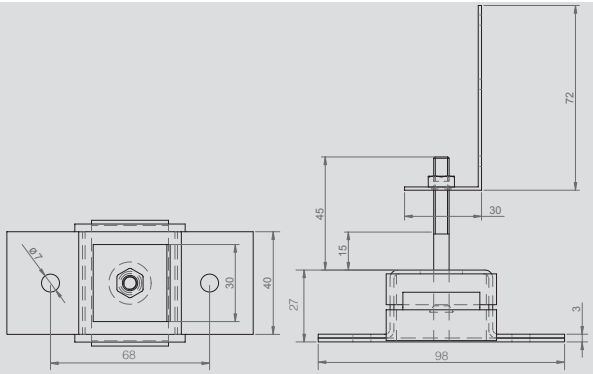
It is secured to the wall by means of two holes. It has a female M6 metal insert.

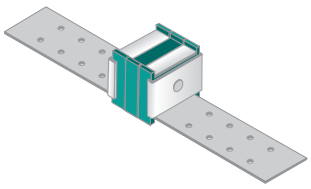




EP400 + Sylomer

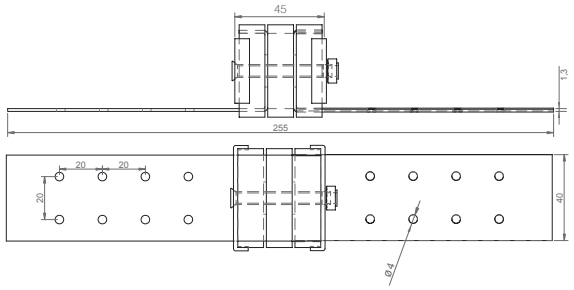
It is secured to the wall by means of two holes. It has a male M6 metal insert and also an "L" welded nut for securing to the profile.

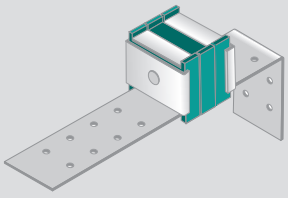




EP 600 + Sylomer

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



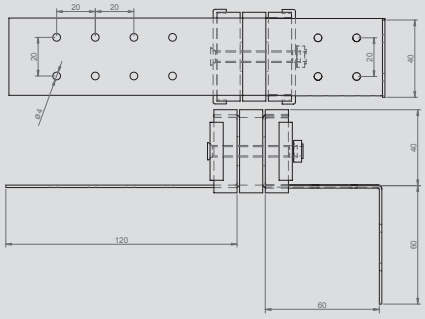


EP 650 + Sylomer

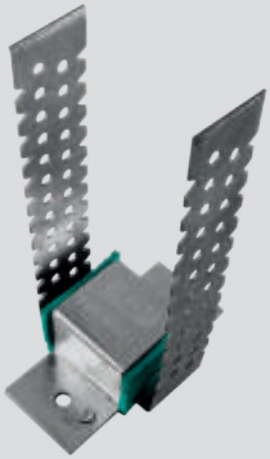
They are secured by two "predrilled" and bent pins to facilitate their installation.

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.



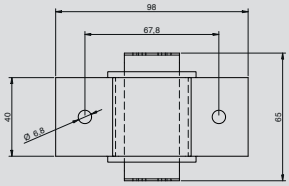
AKUSTIK + sylomer® by getzner
ACOUSTIC WALL TIES
EP+Sylomer®: Models and dimensions

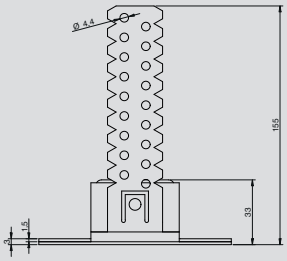


EP 700 + Sylomer

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

Allows inclinated ceilings with a simple and fast installation procedure.



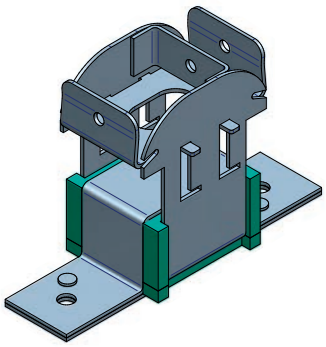


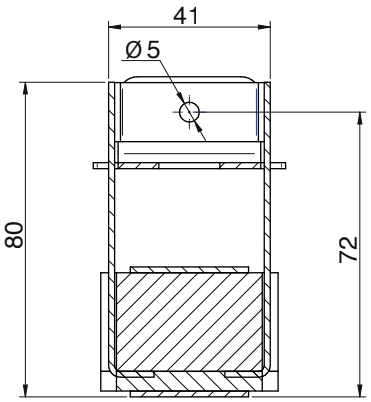
EP 700 Super + Sylomer

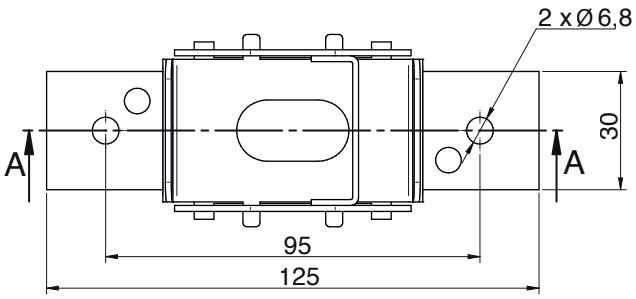
They are secured by two "predrilled" and bent pins to facilitate their installation.

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.

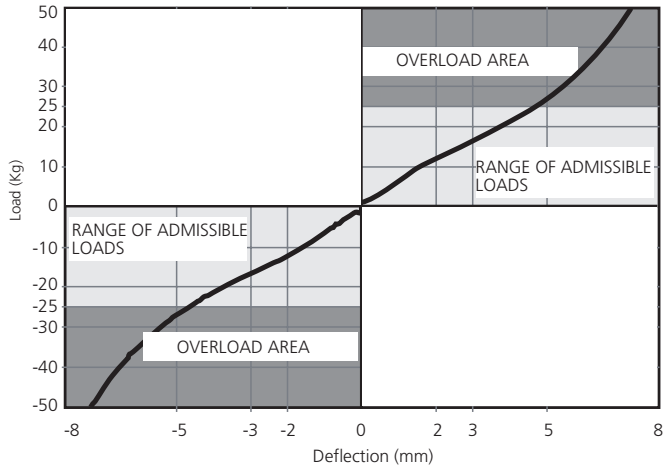






TECHNICAL CHARACTERISTICS

LOAD DEFLECTION GRAPH
EP Akustik+Sylomer®



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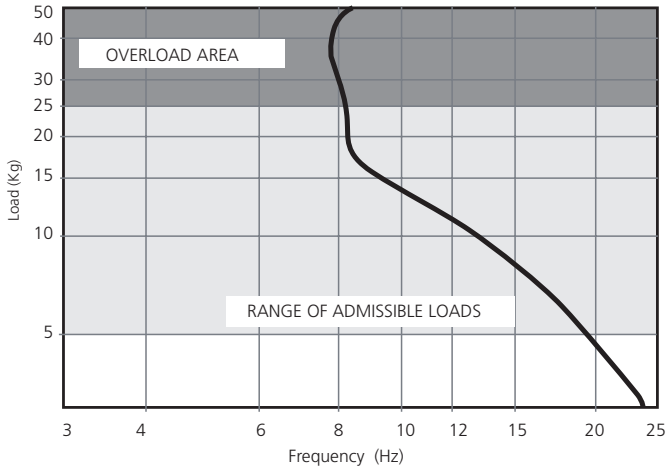
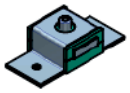
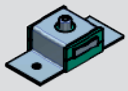
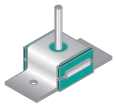
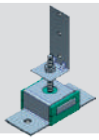
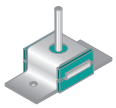
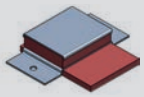
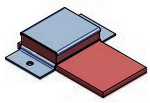
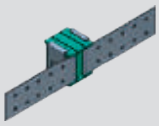
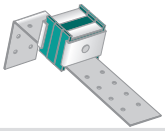
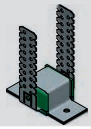
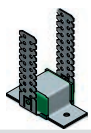
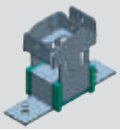
EP Akustik+Sylomer®



PASCALEX
3755 Place Java, Local 160
Brossard, Qc.
J4Y 0E4
Contrôle Bruits Vibrations
Vibrations Noises Control

MECANOCAUCHO

ACOUSTIC WALL TIES
EP+Sylomer® Range

	REF. AMC	MAX. LOAD (KG)	CODE
	EP + Sylomer Type B M6	**25**	**23701**
	EP + Sylomer Type B M8	**25**	**23720**
	EP + Sylomer Type A M6	**25**	**23703**
	EP 400 + Sylomer	**25**	**23705**
	EP + Sylomer Type A M8	**25**	**23702**
	EP 500 + Sylomer s35	**60**	**23715**
	EP 500 + Sylomer s65	**60**	**23716**
	EP 600 + Sylomer	**25**	**23707**
	EP 650 + Sylomer	**25**	**23709**
	EP 700 + Sylomer 30	**30**	**23711**
	EP 700 + Sylomer 75	**75**	**23712**
	EP 700 Super + Sylomer 30	**30**	**23745**
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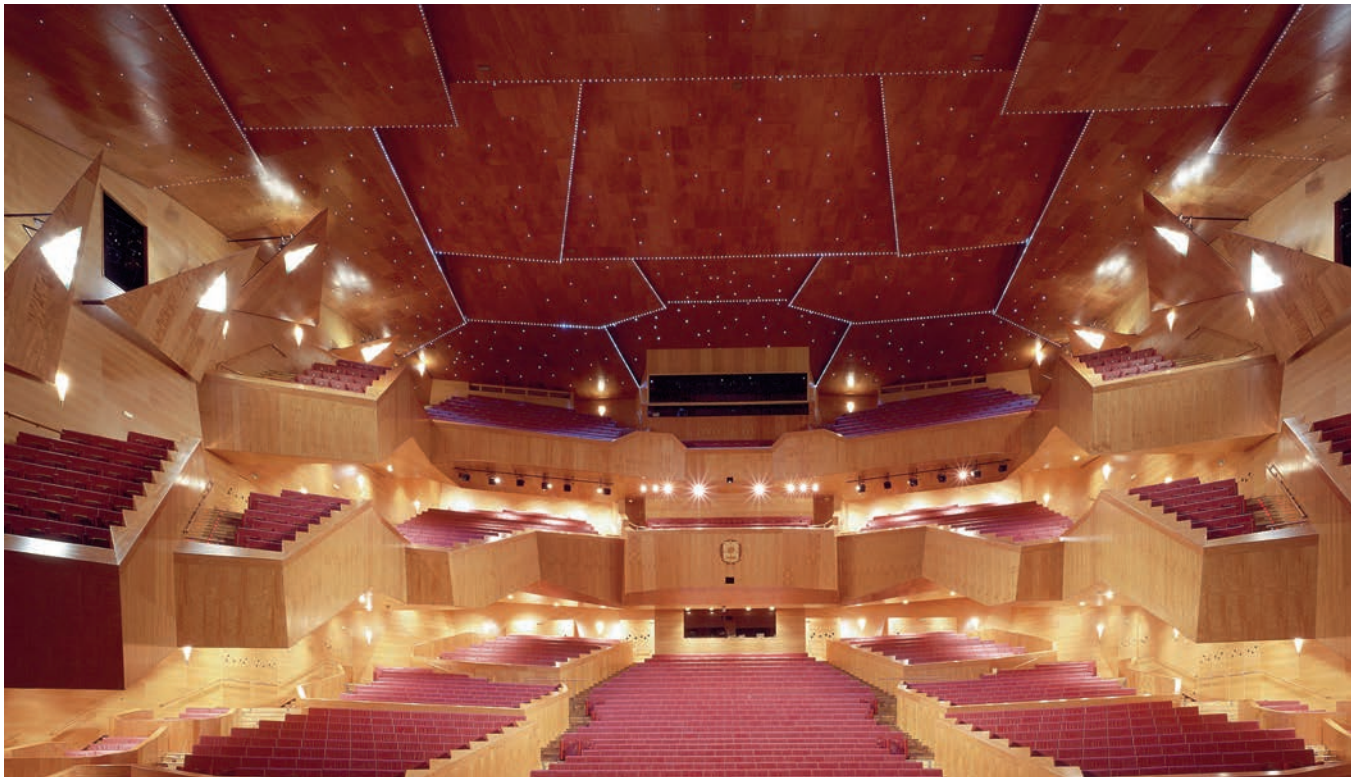
AKUSTIK + sylomer® by getzner

ACOUSTIC WALL TIES

EP+ Sylomer®: Applications



Euskalduna Auditorium Bilbao

Music School Helsinki